UCDH PROJECT #9557740

SESP 1P742 1P745 CT SCANNER REPLACEMENT

UNIVERSITY OF CA DAVIS, MEDICAL CENTER

2315 STOCKTON BLVD.
SACRAMENTO, CALIFORNIA 95817

100% CONSTRUCTION DOCUMENTS

ABBREVIATIONS AND SYMBOLS

&	AND
L	ANGLE
@	AT
DIA	DIAMETER
#	NUMBER
(E)	EXISTING
(N)	NEW
d	PENNY
PL	PLATE
AC	ASPHALT CONCRETE
A.D.	AREA DRAIN
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISHED FLOOR
AGGR.	AGGREGATE
AHJ	AUTHORITY HAVING JURISDICTION
ALD	ASSISTIVE LISTENING DEVICE
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL ASCB ACCESSIBLE
BD.	BOARD
BITUM.	BITUMINOUS
BLDG.	BUILDING
BLKG.	BLOCKING
BM.	BEAM
B.N.	BULLNOSE
BOTT.	BOTTOM
B.U.	BUILT-UP
C.B.	CATCH BASIN
CEM.	CEMENT
C.E.P.S.	CEMENTICIOUS EXTERIOR PLASTER SYSTEM
CER.	CERAMIC
C.F.C.I.	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
C.I.	CAST IRON
C.J.	CONSTRUCTION JOINT
CLKG	CAULKING
CLNG.	CEILING
CLR.	CLEAR
C.M.T.	CERAMIC MOSAIC TILE
C.M.U.	CONCRETE MASONRY UNIT
CNTR.	COUNTER
C.O.	CLEAN OUT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTOR
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
C.T.	CERAMIC TILE
CTSK.	COUNTERSINK
D.A.	DISABLED ACCESSIBLE
DBL.	DOUBLE
DIM.	DIMENSION
DN.	DOWN
D.O.	DOOR OPENING
DR.	DOOR
DRW.	DRAWER
DS.	DOWNSPOUT
DTL.	DETAIL
DWG.	DRAWING
EA.	EACH
E.I.F.S.	EXTERIOR INSULATING FINISHING SYSTEM
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
ENCL.	ENCLOSURE
E.O.	EDGE OF
E.P.S	(CEMENTICIOUS) EXTERIOR PLASTER SYSTEM
EQ.	EQUAL
EXP.	EXPOSED
EXT.	EXTERIOR
F.A.I.	FOR ADDITIONAL INFORMATION
F.D.	FLOOR DRAIN
FF	FINISH FLOOR
FIN.	FINISH
FL.	FLOOR
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.O.	FACE OF
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUDS
FT.	FOOT/FEET
FTG.	FOOTING
FURR.	FURRING
FUT.	FUTURE
GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
G.I.	GALVANIZED IRON
GL.	GLASS
GND.	GROUND
GRD.	GRADE
GYP.	GYPSUM
H.	HEIGHT
H.C.	HOLLOW CORE
HDWD.	HARDWOOD
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
JT.	JOINT
K.S.	KNEE SPACE
LAM.	LAMINATE
LAV.	LAVATORY
MAX.	MAXIMUM
M.B.	MACHINE BOLT
M.C.	MEDICINE CABINET
MECH.	MECHANICAL
MED.	MEDIUM
MEMB.	MEMBRANE
MFR.	MANUFACTURER
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTD.	MOUNTED
MTL.	METAL
MUL.	MULLION
N	NORTH
N.I.C.	NOT INCLUDED IN CONTRACT
NLR.	NAILER
NO.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
OA.	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OP.H.	OPPOSITE HANDED
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
OPNG.	OPENING
OPP.	OPPOSITE
PLAS.	PLASTIC
PLAM.	PLASTIC LAMINATE
PLYWD.	PLYWOOD
PM	PRESSED METAL
PNL.	PANEL
PRECST.	PRECAST
P.T.	PRESSURE TREATED
PTN.	PARTITION
Q.T.	QUARRY TILE
R.A.	RETURN AIR
R.D.	ROOF DRAIN
REINF.	REINFORCING
REQ'D.	REQUIRED
REQ'S	REQUIREMENTS
RESIL.	RESILIENT
R.O.	ROUGH OPENING
RWL	RAIN WATER LEADER
S	SOUTH
SHT.	SHEET
SIM.	SIMILAR
S.M.S.	SHEET METAL SCREW
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STN	STAIN
STOR.	STORAGE
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
SYM.	SYMMETRICAL
T&G	TONGUE & GROOVE
TEL.	TELEPHONE
THK.	THICK
T.O.C.	TOP OF CURB
T.O.S.	TOP OF STEEL
TYP.	TYPICAL
U/C	UNDERCOUNTER
UNF.	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
U.S.	UNDERSIDE
VERT.	VERTICAL
W/	WITH
W / E	WEST / EAST
W/O	WITHOUT
W.C.	WATER CLOSET
WD.	WOOD
W.O.	WHERE OCCURS
WP.	WATERPROOF
WR.	WATER RESISTANT
W.S.	WEATHER STRIP
W.W.F.	WELDED WIRE FABRIC

EH & S NOTES

1. ALL EQUIPMENT, APPLIANCES, SHELVING AND ALL OTHER ITEMS SHALL BE PERMANENTLY BRACED AND/OR ANCHORED TO THE FLOOR OR WALL. EXEMPTIONS INCLUDE BUT ARE NOT LIMITED TO:
   - A. FURNITURE (EXCEPT STORAGE CABINETS)
   - B. TEMPORARY OR MOVABLE EQUIPMENT
   - C. ARCHITECTURAL, MECHANICAL, AND ELECTRACL COMPONENTS IN SEISMIC DESIGN CATEGORIES D, E, OR F WHERE ALL OF THE FOLLOWING APPLY:
     - i. THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE:
     - ii. FLEXIBLE CONNECTIONS ARE PROVIDED AT SEISMIC SEPARATION JOINTS AND BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT; AND EITHER:
       - (a) THE COMPONENT WEIGHTS 400 POUNDS OR LESS AND HAS A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT
       - (b) THE COMPONENT WEIGHTS 20 POUNDS OR LESS, OR IN THE CASE OF A DISTRIBUTED SYSTEM, 5 LB/FT OR LESS. EXCEPTION: THE ENFORCEMENT AGENCY SHALL BE PERMITTED TO REQUIRE ATTACHMENTS FOR EQUIPMENT WITH HAZARDOUS CONTENTS TO BE SHOWN ON CONSTRUCTION DOCUMENTS RESPECTIVE OF WEIGHTS.
2. ALL EQUIPMENT REQUIRED ANCHORAGE WHETHER INSTALLED BY CONTRACTOR OR BY THE OWNER SHALL BE ANCHORED, SUPPORTED AND BRACED IN ACCORDANCE WITH CBC 2022, TITLE 24, TABLE 16A HORIZONTAL FORCE FACTORS
3. NON-MERCURY CONTAINING RELAYS, SWITCHES, THERMOSTATS AND OTHER SIMILAR COMPONENTS SHALL BE USED THROUGH OUT PROJECT.

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE AND SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE CONSTRUCTION MANAGER BY THE MEANS OF AN REQUEST FOR INFORMATION (RFI) OR AS PART OF THE APPLICABLE SHOP DRAWING/SUBMITTAL.
2. SPECIFIC ITEMS NOTED TO BE VERIFIED OR FIELD VERIFIED ARE REQUIRED TO BE VERIFIED PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH THE WORK.
3. CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL AND/OR REINSTALLATION OR ALL EXISTING ITEMS, OF PORTIONS OF THE EXISTING CONSTRUCTION WHETHER SHOWN OR NOT.
4. THE EXISTING FACILITY HAS LEAD CONTAINING MATERIAL IN VARIOUS LOCATIONS. ANY PART OF THE WORK REQUIRING REMOVAL OF LEAD CONTAINING MATERIAL SHALL BE PERFORMED IN ACCORDANCE WITH THE LEAD ABATEMENT SPECIFICATIONS IN THE PROJECT MANUAL.
5. ALL WORK, MATERIALS, METHODS, ETC. SHALL CONFORM TO ALL GOVERNING BUILDING CODES AND REGULATIONS.
6. ANY CONFLICT BETWEEN THESE PLANS AND EXISTING CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.
7. ALL WORK SHALL BE IN COMPLETE CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OR AS OTHERWISE OUTLINED IN THE SPECIFICATIONS.
8. USE OF ANY NEW MATERIALS CONTAINING LEAD OR ASBESTOS IS PROHIBITED.
9. DETAILS, MATERIALS AND SCOPE OF WORK SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
10. THE TERM "TYPICAL" OR "(TYP.)" SHALL BE CONSTRUED TO MEAN APPLYING TO ALL LIKE OR SIMILAR CONDITIONS IN THE AREAS DESIGNATED FOR WORK SCOPE.
11. ALL DOORS NOT LOCATED BY DIMENSION ON PLANS OR DETAILS SHALL BE 4" FROM FINISH WALL TO DOOR BUCK.
12. ALL DIMENSIONS ARE GIVEN FROM CENTER LINE OF EXISTING STRUCTURAL COLUMNS(GRID LINES), FACE OF CONCRETE, OR STUD UNLESS OTHERWISE NOTED.
13. WHERE THERE WILL BE FLOOR PENETRATIONS, FLOOR IS TO BE SCANNED PRIOR TO CONSTRUCTION IN THE PRESENCE OF THE UCDH PROJECT MANAGER.

APPLICABLE CODES

ALL WORK SHALL CONFORM TO THE FOLLOWING AND ALL OTHER APPLICABLE CODES AND ORDINANCES:

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24, C.C.R.
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
2022 CALIFORNIA GREEN CODE, PART 11, TITLE 24, C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
2022 CAL/OSHA ELEVATOR SAFETY ORDERS, TITLE 8, DIVISION 1, CHAPTER 4, SUBCHAPTER 6, C.C.R.
2022 TITLE 19 C.C.R., PUBLIC SAFETY, DIVISION 1 STATE FIRE MARSHAL REGULATIONS
2022 NFPA 13, THE INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS, AS AMENDED
2019 NFPA 14, INSTALLATION OF STANDPIPE, PRIVATE HYDRANT, AND HOSE SYSTEMS
2022 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
2023 NFPA 25, CALIFORNIA EDITION, INSPECTION, TESTING & MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS
2022 NFPA 72, NATIONAL FIRE ALARM CODE, AS AMENDED

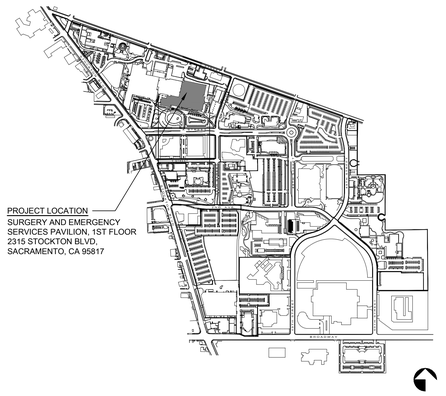
NOTE:
THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA BUILDING CODE OR REGULATIONS. SHOULD ANY EXISTING CONDITIONS BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED REPAIR WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE REPAIR WORK.

DEFERRED APPROVAL ITEMS

INSTALLATION OF DEFERRED APPROVAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTORS DRAWINGS, SPECIFICATIONS AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR ENGINEER, AND APPROVED BY THE APPROPRIATE APPROVING JURISDICTION.

DA001 FIRE ALARM

VICINITY MAP



PROJECT TEAM

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CONTACT: JOHN FLATH

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PROJECT DATA

PROJECT LOCATION:

SURGERY AND EMERGENCY SERVICES PAVILION, 1ST FLOOR
2315 STOCKTON BLVD
SACRAMENTO, CA 95817

GENERAL SCOPE OF WORK:

REMODEL OF THE EXISTING CLASS 1 DIAGNOSTIC CT SPACE 1P742 ON THE FIRST FLOOR OF THE SURGERY AND EMERGENCY SERVICES PAVILION (SESP), BUILDING 101 TO PREPARE FOR TWO NEW CT ROOMS THAT WILL RECEIVE NEW GE REVOLUTION APEX CT EQUIPMENT.

THE PROJECT ALSO INCLUDES A NEW SHARED CONTROL AREA 1P740, UPDATED PATIENT TOILET 1P741 FOR ACCESSIBILITY, UPDATED EXISTING READING ROOM 1P743, UPDATED EXISTING DX QC 1P408 WORK AREA, UPDATE TO PATIENT DRESSING 1P715 AND UPDATED STAFF LOCKERS 1P708. WORK INCLUDES BUT IS NOT LIMITED TO NON-BEARING PARTITIONS, LEAD SHIELDING, FINISHES, CASEWORK, FURNITURE SYSTEM, EQUIPMENT ANCHORAGE, FLOOR SLAB CUTTING AND PATCHING, AND MODIFICATION TO MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS.

PROJECT DATA:

LOCATION:	1ST FLOOR (GROUND FLOOR) SURGERY AND EMERGENCY SERVICES PAVILION
FACILITY NO:	10619
HCAI BUILDING NO:	BLD-02841
SPC RATING:	5S
HCAI NPC RATING:	4
OCCUPANCY:	I-2 (EXISTING UNCHANGED)
CONSTRUCTION TYPE:	1-A FULLY SPRINKLERED (EXISTING UNCHANGED)
EXISTS & EXIT TRAVEL DISTANCE:	EXISTING UNCHANGED
AREA OF WORK:	2,450 SQ FT

NO NEW SQUARE FOOTAGE ADDED, TENANT IMPROVEMENT ONLY

FIRE PROTECTION NOTES:

1. A "KONX" BRAND KEY BOX SHALL BE INSTALLED ON THE PREMISES TO FACILITATE EMERGENCY ACCESS TO THE BUILDING, CBC 2022.
2. FLAME SPREAD CLASS OF INTERIOR SURFACES SHALL COMPLY WITH TABLE 8-B.

SHEET INDEX

GENERAL

G111	PROJECT DATA
G121	SITE ACCESSIBILITY PLAN
G131	1ST FLOOR LIFE SAFETY AND ACCESSIBILITY PLAN
G161	ACCESSIBILITY REQUIREMENTS

ARCHITECTURAL

A111	1ST FLOOR OVERALL PLANS
A400	SECTIONS
A511	ENLARGED 1ST FLOOR PLANS
A512	PARTIAL BASEMENT & 2ND FLOOR PLANS
A541	ENLARGED 1ST FLOOR REFLECTED CEILING PLANS
A551	INTERIOR ELEVATIONS
A552	INTERIOR ELEVATIONS
A620	WALL DETAILS
A640	INTERIOR & CASEWORK DETAILS
A650	SUSPENDED CEILING DETAILS
A651	SUSPENDED CEILING DETAILS
A652	SUSPENDED CEILING DETAILS
A710	DOOR/WINDOW SCHEDULE, DETAILS & EQUIPMENT PLAN
A811	FINISH SCHEDULE & PLAN
A831	EQUIPMENT SCHEDULE & PLAN
A832	PDC EQUIPMENT SCHEDULE & PLAN

STRUCTURAL

S-101	GENERAL NOTES
S-201	PARTIAL 1ST FLOOR FRAMING PLAN
S-202	PARTIAL 2ND FLOOR FRAMING PLAN
S-501	DETAILS
S-502	DETAILS
S-601	METAL STUD DETAILS
S-602	METAL STUD DETAILS
S-603	METAL STUD DETAILS

MECHANICAL

M001	MECHANICAL LEGEND, NOTES & SHEET INDEX
M002	MECHANICAL SCHEDULES
M111	PARTIAL 1ST FLOOR MECHANICAL AIR BALANCE PRECAUTIONS PLAN
M511	ENLARGED 1ST FLOOR MECHANICAL PLANS
M512	ENLARGED 2ND FLOOR MECHANICAL PLAN
M601	MECHANICAL DETAILS
M602	MECHANICAL DETAILS
M603	MECHANICAL DETAILS
M604	MECHANICAL DETAILS
M605	MECHANICAL DETAILS
M701	MECHANICAL CONTROLS

PLUMBING

P001	PLUMBING LEGEND, NOTES & SHEET INDEX
P002	PLUMBING SCHEDULES
P511	ENLARGED 1ST FLOOR PLUMBING PLANS
P512	ENLARGED 2ND FLOOR PLUMBING PLAN
P601	PLUMBING DETAILS
P602	PLUMBING DETAILS

ELECTRICAL

E0.01	ABBREVIATIONS, SYMBOLS, SCHEDULE & SHEET INDEX
E1.01	OVERALL FIRST FLOOR - ELECTRICAL
E2.01	ENLARGED FIRST FLOOR PLAN - DEMO & NEW POWER
E2.02	ENLARGED FIRST FLOOR PLAN - DEMO & NEW LIGHTING
E2.03	ENLARGED SECOND FLOOR PLAN - NEW POWER
E3.01	(E) PARTIAL ONE LINE DIAGRAM
E4.01	PANEL SCHEDULES & PANEL LOAD SUMMARY
E4.02	PANEL SCHEDULES & COORDINATION STUDY
E5.01	GE VENDOR DRAWINGS
E5.02	GE VENDOR DRAWINGS
E6.01	PDC LIGHTING VENDOR DRAWINGS - CT ROOM #2
E6.02	PDC LIGHTING VENDOR DRAWINGS - CT ROOM #3
E6.03	PDC LIGHTING VENDOR DRAWINGS - DETAILS
E6.04	PDC LIGHTING VENDOR DRAWINGS - DETAILS
E7.01	DETAILS
E7.02	DETAILS
E7.03	DETAILS
E7.04	DETAILS
E7.05	DETAILS
E7.06	DETAILS
E7.07	DETAILS

TELECOMMUNICATIONS

T0.01	ABBREVIATIONS, SYMBOLS, SCHEDULES, & SHEET INDEX
T1.01	OVERALL FIRST FLOOR PLAN - TELECOM
T2.01	ENLARGED FIRST FLOOR PLAN - DEMO & NEW TELECOM
T7.01	DETAILS
T7.02	DETAILS
T7.03	DETAILS

FIRE SPRINKLERS

FP-1	1ST FLOOR FIRE SPRINKLER PLAN

GE - REVOLUTION APEX
(FOR REFERENCE ONLY)

CT 2 (1P745)

C1	COVER SHEET
C2	DISCLAIMER - SITE READINESS CHECKLIST
A1	GENERAL NOTES
A2	EQUIPMENT LAYOUT
A3	RADIATION PROTECTION
A4	EQUIPMENT DIMENSIONS (1)
A5	EQUIPMENT DIMENSIONS (2)
A6	DELIVERY
S1	STRUCTURAL NOTES
S2	STRUCTURAL LAYOUT
S3	STRUCTURAL DETAILS (1)
S4	STRUCTURAL DETAILS (2)
M1	HVAC
E1	ELECTRICAL NOTES
E2	ELECTRICAL LAYOUT
E3	ELECTRICAL ELEVATIONS
E4	POWER REQUIREMENTS
E5	ELECTRICAL DETAILS - INTERCONNECT

CT 3 (1P742)

C1	COVER SHEET
C2	DISCLAIMER - SITE READINESS CHECKLIST
A1	GENERAL NOTES
A2	EQUIPMENT LAYOUT
A3	RADIATION PROTECTION
A4	EQUIPMENT DIMENSIONS (1)
A5	EQUIPMENT DIMENSIONS (2)
A6	DELIVERY
S1	STRUCTURAL NOTES
S2	STRUCTURAL LAYOUT
S3	STRUCTURAL DETAILS (1)
S4	STRUCTURAL DETAILS (2)
M1	HVAC
E1	ELECTRICAL NOTES
E2	ELECTRICAL LAYOUT
E3	ELECTRICAL ELEVATIONS
E4	POWER REQUIREMENTS
E5	ELECTRICAL DETAILS - INTERCONNECT

PDC - PATIENT EXPERIENCE LIGHTING
(FOR REFERENCE ONLY)

CT 2 (1P745)

T000	SITE SIGNOFF SHEET
T100	COVER SHEET
A000	CT SUITE EQUIPMENT COMPONENTS
A100	FLOOR PLAN
A110	REFLECTED CEILING PLAN
E000	CT SUITE COMPONENTS
E050	WIRE DESIGNATION SCHEDULE
E100	CONTROL ROOM - LCR EO-q EO-e
E200	SCAN ROOM - LP6 LPD
E201	SCAN ROOM - CIT
E202	SCAN ROOM - SLF
E300	CONTROL ROOM - PAD Cat6 S-oo EO-q

CT 3 (1P742)

T000	SITE SIGNOFF SHEET
T100	COVER SHEET
A000	CT SUITE EQUIPMENT COMPONENTS
A100	FLOOR PLAN
A110	REFLECTED CEILING PLAN
E000	CT SUITE COMPONENTS
E050	WIRE DESIGNATION SCHEDULE
E100	CONTROL ROOM - LCR EO-q EO-e
E200	SCAN ROOM - LP6 LPD
E201	SCAN ROOM - CIT
E202	SCAN ROOM - SLF
E300	CONTROL ROOM - PAD Cat6 S-oo EO-q

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

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REGISTERED ARCHITECT JOHN W. FLATH No. C-31409 EXP. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7034

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	11/01/2024

CONSTRUCTION DOCUMENTS

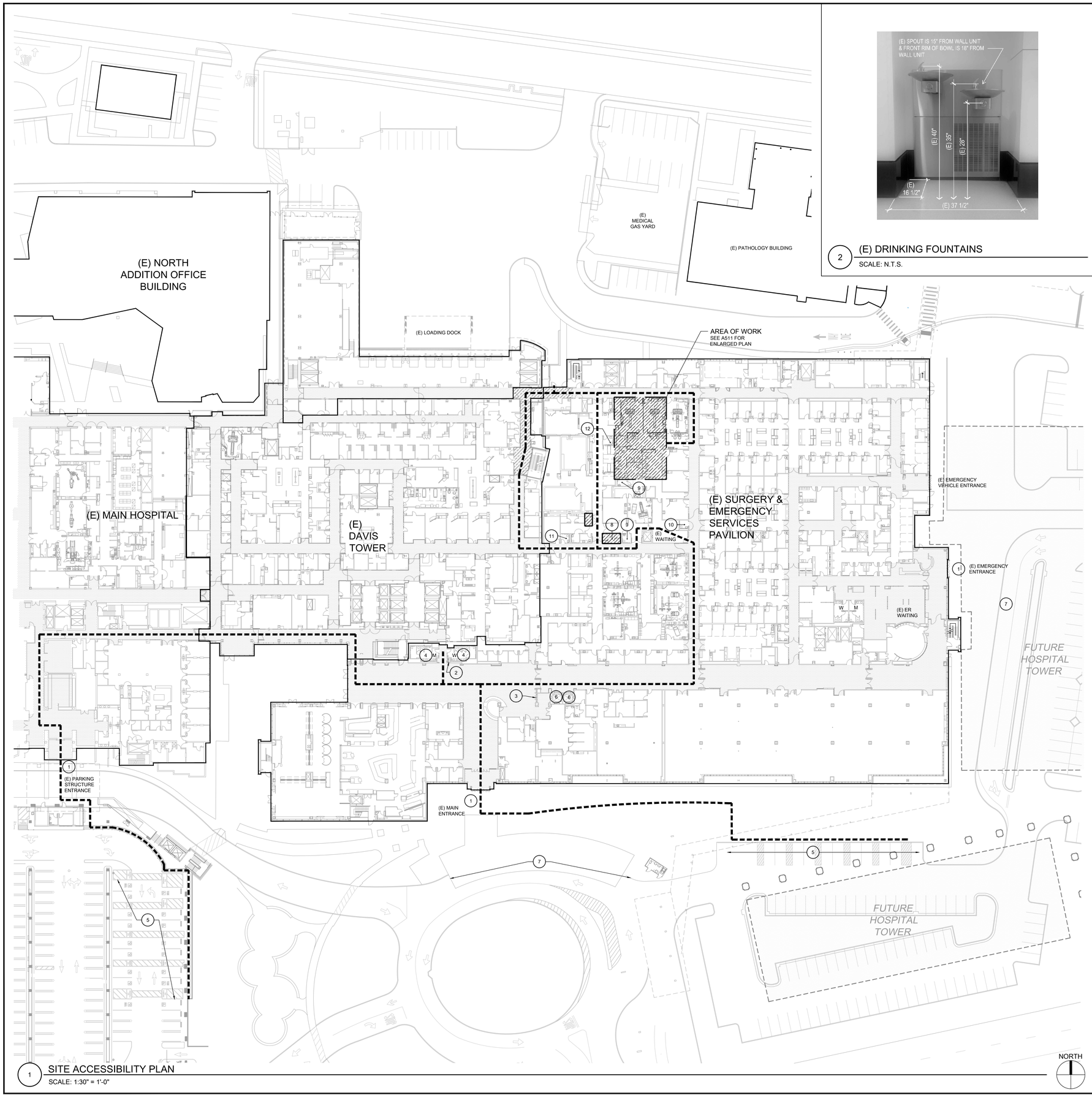
ACCOUNT NO: 9557740
OSHPD NO: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PROJECT DATA

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	9557740	G111	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	AS SHOWN		
DESIGNED BY	DATE		
NLA	-		
DRAWN BY	CAD FILE	SHEET	OF
NLA	-	-	-

K:\Project\UCDMC\V232100 UCDHS SESP 1P74 1P45 CT Scanner Replacement\V02_Design\Drawings\G121-V2321-00.dwg, 8/15/2024 9:26:27 AM, DWG To PDF - Lines Merge.pc3

2 (E) DRINKING FOUNTAINS

SCALE: N.T.S.



1 SITE ACCESSIBILITY PLAN

SCALE: 1:30" = 1'-0"

PROJECT NOTES:

FIRE SAFETY DURING CONSTRUCTION, ALTERATIONS AND DEMOLITION

1. SMOKING IS PROHIBITED. "NO SMOKING" SIGNS SHALL BE POSTED. CFC-3341.
2. COMBUSTIBLE DEBRIS SHALL NOT ACCUMULATE WITHIN BUILDINGS. CFC-3304.2.
3. CUTTING AND WELDING OPERATIONS SHALL BE IN ACCORDANCE WITH CFC CHAPTER 35 & UCDHS FIRE SAFETY POLICY.
4. WHEN REQUIRED BY THE FIRE CODE OFFICIAL FOR BUILDING DEMOLITION THAT IS HAZARDOUS IN NATURE, QUALIFIED PERSONNEL SHALL BE PROVIDED TO SERVE AS AN ON-SITE FIRE WATCH. CFC CH.35.
5. THE STORAGE, USE AND HANDLING OF FLAMMABLE LIQUIDS SHALL BE IN ACCORDANCE WITH CFC-5704. STORAGE, USE AND HANDLING OF OTHER HAZARDOUS MATERIALS SHALL BE IN ACCORDANCE WITH CFC-3305.1.
6. THE OWNER SHALL DESIGNATE A PERSON TO BE THE FIRE PREVENTION PROGRAM SUPERINTENDAENT WHO SHALL BE RESPONSIBLE FOR THE FIRE PREVENTION PROGRAM AND ENSURE THAT IT IS CARRIED OUT THROUGH COMPLETION OF THE PROJECT. CFC-3308.1.
7. WHERE A REQUIRED FIRE PROTECTION SYSTEM IS OUT OF SERVICE, THE FIRE DEPARTMENT AND THE FIRE CODE OFFICIAL SHALL BE NOTIFIED IMMEDIATELY AND, WHERE REQUIRED BY THE FIRE CODE OFFICIAL, THE BUILDING SHALL BE EITHER EVACUATED OR AN APPROVED FIRE WATCH SHALL BE PROVIDED FOR ALL OCCUPANTS LEFT UNPROTECTED BY THE SHUTDOWN UNTIL THE FIRE PROTECTION SYSTEM HAS BEEN RETURNED TO SERVICE. CFC-901.7.
8. COVERINGS PLACED ON OR OVER FIRE PROTECTION DEVICES TO PROTECT THEM FROM DAMAGE DURING CONSTRUCTION PROCESSES SHALL BE IMMEDIATELY REMOVED UPON THE COMPLETION OF THE CONSTRUCTION PROCESSES IN THE ROOM OR AREA IN WHICH THE DEVICES ARE INSTALLED. CFC-3308.7.
9. READILY ACCESSIBLE EMERGENCY TELEPHONE FACILITIES SHALL BE PROVIDED IN AN APPROVED LOCATION AT THE CONSTRUCTION SITE. CFC-3309.1.
10. FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED AT ALL TIMES. CFC-3310.
11. REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED DURING CONSTRUCTION AND DEMOLITION, REMODELING OR ALTERATIONS AND ADDITIONS TO ANY BUILDING. CFC-3311.2. ALL TEMPORARY EXITS AND EXIT MODIFICATIONS SHALL BE APPROVED BY THE UCDHS FIRE MARSHALL.
12. FIRE DEPARTMENT WATER MAINS AND FIRE HYDRANTS SHALL BE OPERATIONAL AT ALL TIMES AND SHALL BE IN ACCORDANCE WITH CFC-33125.
13. IN BUILDINGS REQUIRED TO HAVE STANDPIPES BY SECTION 905, NOT LESS THAN ONE STANDPIPE SHALL BE PROVIDED FOR USE DURING CONSTRUCTION. CFC-3313.
14. FIRE PROTECTION SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES. CFC-3314.
15. IN BUILDINGS WHERE AN AUTOMATIC SPRINKLER SYSTEM IS REQUIRED BY THIS CODE, IT SHALL BE UNLAWFUL TO OCCUPY ANY PORTION OF A BUILDING OR STRUCTURE UNTIL THE AUTOMATIC SPRINKLER SYSTEM INSTALLATION HAS BEEN TESTED AND APPROVED. CBC 3314.1.
16. FIRE EXTINGUISHERS SHALL BE PROVIDED FOR BUILDINGS UNDER CONSTRUCTION. THE NUMBER AND TYPE OF EXTINGUISHERS SHALL BE AS REQUIRED BY THE UCDHS FIRE MARSHALL. CFC-3315.
17. SMOKE DETECTORS SHALL BE COVERED DURING ALTERATIONS. NFPA 71-2013.
18. PEDESTRIANS SHALL BE PROTECTED DURING CONSTRUCTION, REMODELING AND DEMOLITION ACTIVITIES AS REQUIRED BY CHAPTER 33 OF THE CBC AND TABLE 3306.1. SIGNS SHALL BE PROVIDED TO DIRECT PEDESTRIAN TRAFFIC.
19. CONSTRUCTION MATERIALS AND EQUIPMENT SHALL NOT BE PLACED OR STORED SO AS TO OBSTRUCT ACCESS TO FIRE HYDRANTS, STANDPIPES, OR FIRE OR POLICE ALARM BOXES, CATCH BASINS OR MANHOLES. CBC-3308.1.1.

SITE ACCESSIBLE KEYNOTES

1. (E) ACCESSIBLE PUBLIC ENTRY
2. (E) ACCESSIBLE DRINKING FOUNTAIN PER CBC 11B-602.7. SEE DTL. 2/G121.
3. (E) ACCESSIBLE PUBLIC TELEPHONE
4. (E) ACCESSIBLE PUBLIC MENS AND WOMENS TOILETS
5. (E) ACCESSIBLE PARKING
6. (E) ADA COMPLIANT ELEVATOR
7. (E) ACCESSIBLE COVERED PASSENGER DROP-OFF ZONE
8. (E) PATIENT DRESSING ROOM
9. (E) ACCESSIBLE UNISEX PATIENT TOILET
10. (E) ACCESSIBLE VISITOR WAITING ROOM
11. (E) MENS STAFF TOILET WITHIN 200' OF TRAVEL DISTANCE
12. (E) WOMENS STAFF TOILET WITHIN 200' OF TRAVEL DISTANCE

LEGEND:

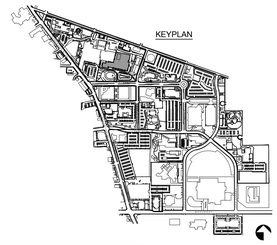
ADA ACCESSIBLE ROUTE -
WALKWAYS AND SIDEWALKS ALONG ACCESSIBLE ROUTES ARE CONTINUOUSLY ACCESSIBLE. ABRUPT CHANGES IN LEVEL ALONG ROUTE DO NOT EXCEED 1/2". WHEN CHANGES DO OCCUR, THEY ARE BEVELED WITH NO SLOPE GREATER THAN 1:2, EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4: MAY BE VERTICAL. WHEN CHANGES IN LEVEL GREATER THAN 1/2" ARE NECESSARY, THEY COMPLY WITH THE REQUIREMENT OF RAMPS. THERE ARE NO DROP-OFFS OVER 4" AT THE EDGE OF WALK OR LANDING. WHERE GREATER THAN A 4" DROP OCCURS, THERE IS A WARNING CURB (4"H.) OR 12" OF LEVEL GRADE NEXT TO WALK. ROUTE IS A MIN OF 48" WIDE AND DOES NOT EXCEED A SLOPE OF 1:20. WHERE ROUTE CROSSES A VEHICLE TRAFFIC AISLE, THERE IS A MIN. 48" WIDE PATH STRIPPED WITH 4" DIAGONAL WHITE PAINT STRIPPING AT 3'-0" O.C.

NOTE: DOOR & LANDING GRADES SHALL HAVE SMOOTH TRANSITION TO ADJACENT SURFACE.

(E) 1-HR. RATED CORRIDOR

AREA OF WORK

KEYPLAN



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(916)734-7034

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO: 9557740
OSHPD NO: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: SITE ACCESSIBILITY PLAN

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	9557740	G121	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	AS SHOWN		
DESIGNED BY	DATE		
NLA	-		
DRAWN BY	CAD FILE	SHEET	OF
NLA	-	-	-

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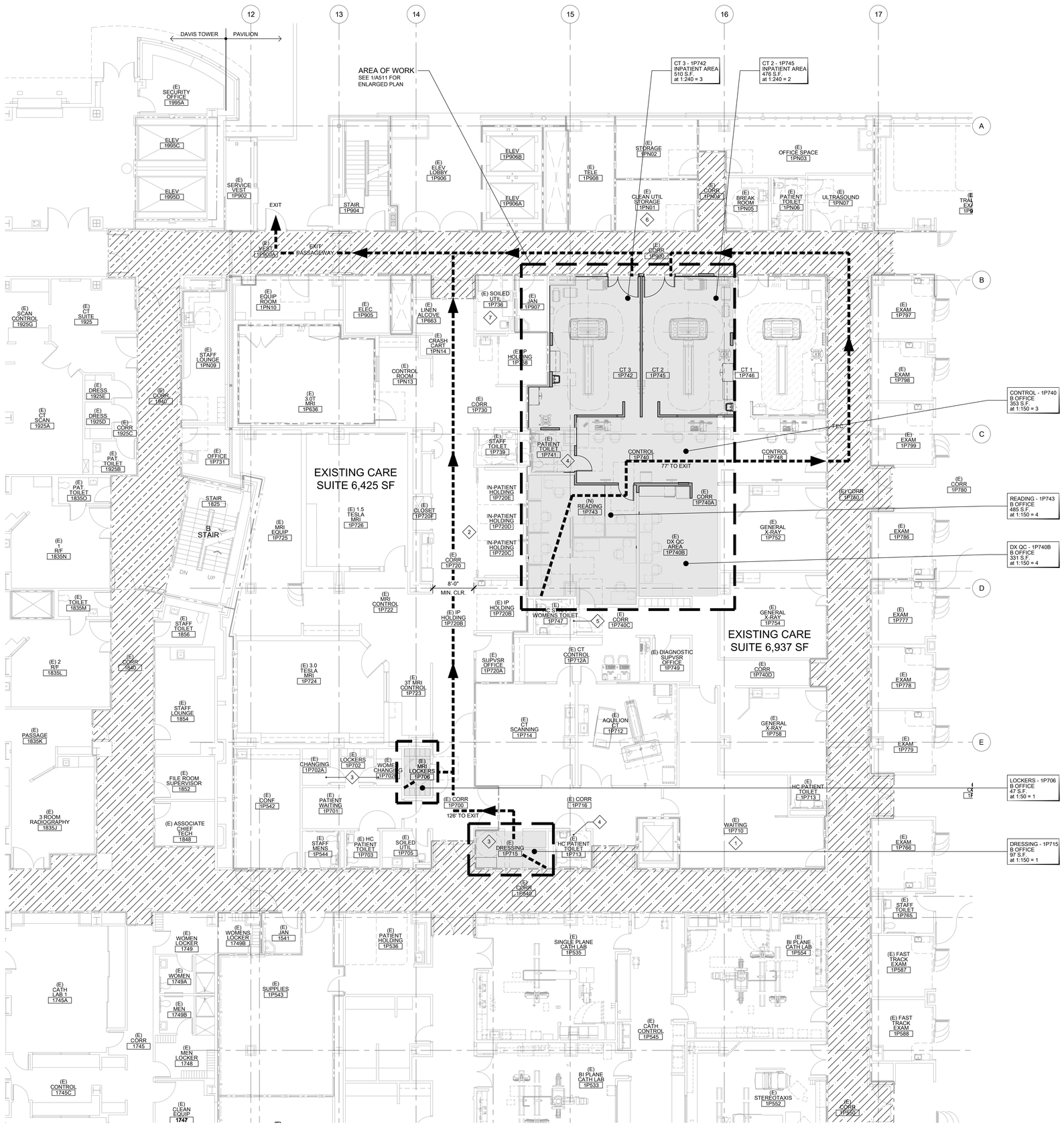

1 1ST FLOOR LIFE SAFETY & ACCESSIBILITY PLAN

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

NORTH

SHEET NOTES:

THESE NOTES APPLY TO THIS SHEET ONLY.

1. THE PLANS AND RELATED NOTES ARE GENERAL IN NATURE. THE PRIMARY PURPOSE OF THE DRAWING IS TO COMMUNICATE TO THE CONTRACTOR INFORMATION ABOUT FIRE LIFE SAFETY REQUIREMENTS DURING PERFORMANCE OF WORK..
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK.
3. GENERAL CONTRACTOR SHALL REVIEW AND VERIFY EXISTING CONDITION OF SITE PRIOR TO SUBMITTING A BID FOR THE PROJECT. GENERAL CONTRACTOR SHALL NOT BE ENTITLED TO ANY CHANGE IN CONTRACT PRICE OR TIME FOR CONDITIONS THAT COULD HAVE BEEN REASONABLY DISCOVERED PRIOR TO THE COMMENCEMENT OF DEMOLITION/CONSTRUCTION ACTIVITIES.
4. MAINTAIN ADEQUATE SITE AND BUILDING ACCESS AT ALL TIMES TO MAINTAIN LIFE/SAFETY AND CONTINUOUS TRAFFIC FLOW.
5. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DWGS FOR RELATED WORK.
6. MAINTAIN ALL EXISTING FIRE RATED ASSEMBLIES TO PROVIDE CONTINUOUS FIRE PROTECTION. REPAIR/REPLACE ANY DAMAGED ASSEMBLIES TO MATCH (E) RATED ASSEMBLY

KEYNOTES:

THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. (CBC 1224.34.2.4) (E) WAITING AREA.
2. (CBC 1224.34.2.6) (E) PRE-PROCEDURE/HOLDING AREA.
3. (CBC 1224.34.2.7) PATIENT DRESSING ROOMS.
4. (CBC 1224.34.2.8) (E) PATIENT TOILET ROOMS.
5. (CBC 1224.34.2.9) (E) STAFF TOILET ROOMS.
6. (CBC 1224.34.2.12) (E) STORAGE AREA FOR CLEAN LINEN.
7. (CBC 1224.34.2.13) (E) SOILED HOLDING.

LEGEND:

- (E) WINDOW
- (E) DOOR TO REMAIN
- (E) WALL
- (E) RF SHIELDED WALL
- (E) 1 HR. FIRE RATED BARRIER
- (E) 1 HR. OCCUPANCY SEPARATION
- (E) 1 HR. SMOKE BARRIER
- (E) 2 HR. FIRE BARRIER
- (E) 2 HR. HORIZONTAL EXIT / SMOKE BARRIER
- 1-HR. RATED CORRIDOR (EXIT PASSAGEWAY)
- 2-HR. RATED CORRIDOR (EXIT PASSAGEWAY)
- ACCESSIBLE ROUTE & PATH OF TRAVEL TO EXIT BUILDING 100' TO EXIT — LENGTH OF TRAVEL DISTANCE
- OFFICE / B OFFICE / 90 SF / at 1:100 = 1 — USE OF SPACE PER 2022 CBC TABLE 1004.5; AREA OF SPACE; OCC. LOAD FACTOR PER 2022 CBC TABLE 1004.5
- FEC — FIRE EXTINGUISHER CABINET
- AREA OF WORK

KEYPLAN

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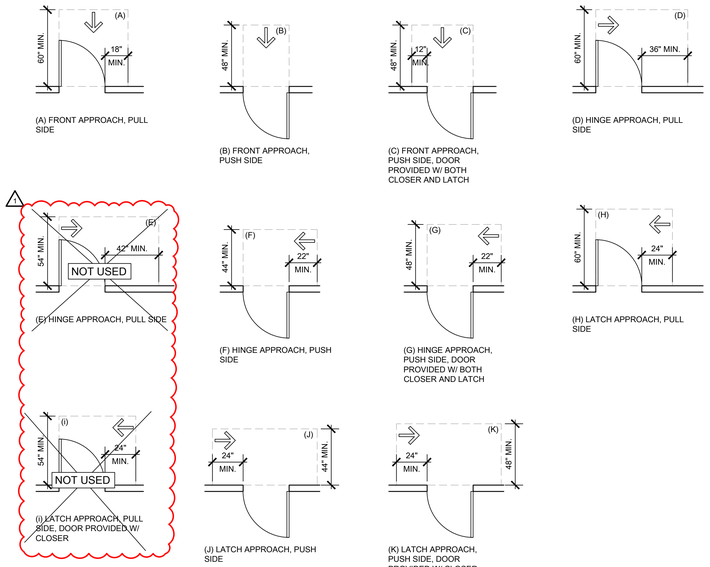
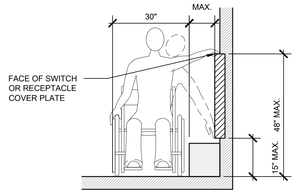
SHEET TITLE: 1ST FLOOR LIFE SAFETY AND ACCESSIBILITY PLAN

ARCH \ ENGR	FD&C JOB NO.	SHEET NO.	
J. Flath	9557740	G131	
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN		
DESIGNED BY: NLA	DATE: -		
DRAWN BY: NLA	CAD FILE: -	SHEET: -	OF: -



TYPICAL MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS

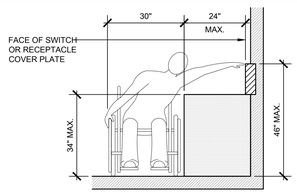
27 — SCALE: 1/4" = 1'-0"



NOTE:
THE 30"x48" WHEELCHAIR CLEAR FLOOR SPACE IS LOCATED A MAX. 10" FROM THE WALL

HIGH & LOW SIDE REACH LIMITS

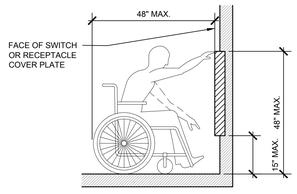
16 — SCALE: N.T.S.



NOTE:
IF THE DEPTH OF THE OBSTRUCTION IS 24" AND THE MAXIMUM HEIGHT OF THE OBSTRUCTION IS 34", THE MAXIMUM HIGH SIDE REACH OVER THE OBSTRUCTION IS 46".

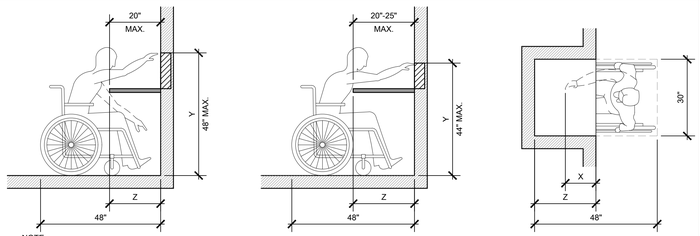
MAXIMUM SIDE REACH OVER OBSTRUCTION

17 — SCALE: N.T.S.



HEIGHT FORWARD REACH LIMITS

18 — SCALE: 1/2" = 1'-0"

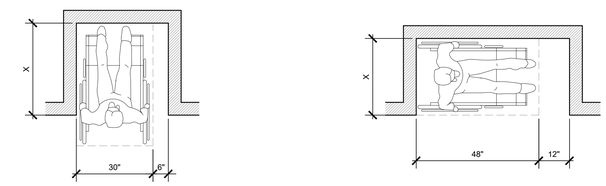


NOTE:
X SHALL BE ≤25"; Z SHALL BE >X, WHEN X<20", THEN YSHALL BE 48" MAXIMUM, WHEN X IS 20-25", THEN Y SHALL BE 44" MAXIMUM.

THE MAXIMUM LEVEL FORWARD REACH OVER AN OBSTRUCTION WITH THE KNEE SPACE BELOW IS 25". WHEN THE OBSTRUCTION IS LESS THAN20" DEEP, THE MAXIMUM HIGH FORWARD REACH IS 48". WHEN THE OBSTRUCTION PROJECTS 20 TO 25", THE MAXIMUM HIGH FORWARD REACH IS 44"

MAXIMUM FORWARD REACH OVER OBSTRUCTIONS

11 — SCALE: 1/2" = 1'-0"



NOTE: IF X>24", THEN AN ADDITIONAL MANEUVERING CLEARANCE OF 6" SHALL BE PROVIDED AS SHOWN

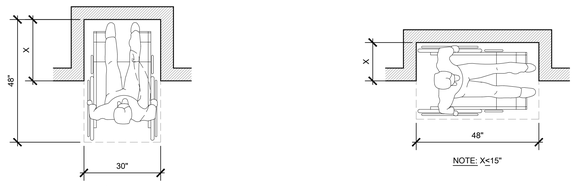
NOTE: IF X>15", THEN AN ADDITIONAL MANEUVERING CLEARANCE OF 12" SHALL BE PROVIDED AS SHOWN

NOTE:
FOR A FRONT APPROACH, IT THE DEPTH OF THE ALCOVE IS GREATER THAN 24", THEN IN ADDITION TO THE 30" WIDTH, A MANEUVERING CLEARANCE OF 6" IN WIDTH IS REQUIRED.

FOR A SIDE APPROACH, WHERE THE DEPTH OF THE ALCOVE IS GREATER THAN 15", THEN IN ADDITION TO THE 48" LENGTH, AN ADDITIONAL MANEUVERING CLEARANCE OF 12" LENGTH IS REQUIRED.

MANEUVERING CLEARANCE FOR ALCOVES

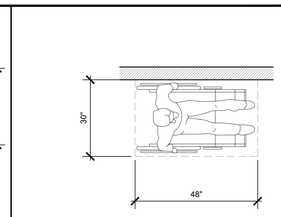
12 — SCALE: 1/2" = 1'-0"



NOTE:
FOR A FRONT APPROACH, IWHERE THE DEPTH OF THE ALCOVE IS EQUAL TO OR LESS THAN 24", THE REQUIRED CLEAR FLOOR SPACE IS 30" x 48".
FOR A SIDE APPROACH, WHERE THE DEPTH OF THE ALCOVE IS EQUAL TO OR LESS THAN 15", THE REQUIRED CLEAR FLOOR SPACE IS 30" x 48"

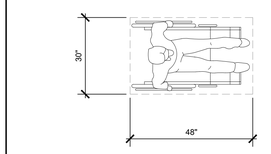
CLEAR ALCOVE SPACE

13 — SCALE: 1/2" = 1'-0"



PARALLEL APPROACH

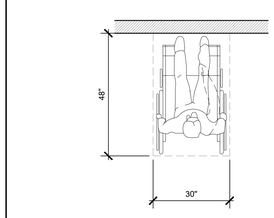
1 — SCALE: 1/2" = 1'-0"



NOTE:
CLEAR FLOOR SPACE SHOWN TO BE 30"x48" MINIMUM

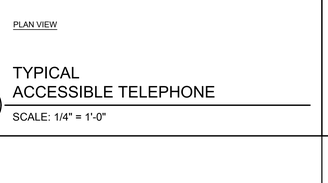
CLEAR FLOOR SPACE

2 — SCALE: 1/2" = 1'-0"



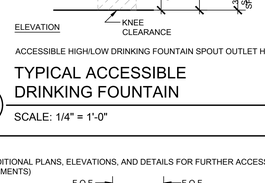
FORWARD APPROACH

3 — SCALE: 1/2" = 1'-0"



TYPICAL ACCESSIBLE TELEPHONE

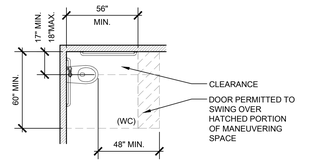
28 — SCALE: 1/4" = 1'-0"



ACCESSIBLE HIGH/LOW DRINKING FOUNTAIN SPOUT OUTLET HT.

TYPICAL ACCESSIBLE DRINKING FOUNTAIN

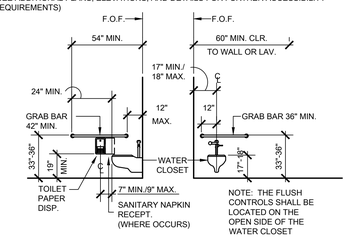
23 — SCALE: 1/4" = 1'-0"



TYPICAL WATER CLOSET CLEARANCE

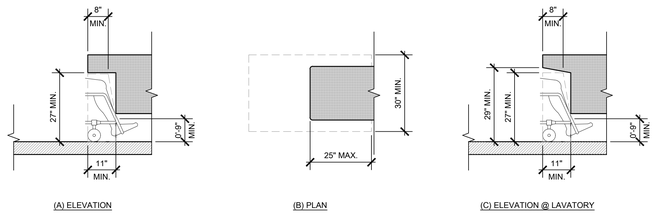
29 — SCALE: 1/4" = 1'-0"

(SEE ADDITIONAL PLANS, ELEVATIONS, AND DETAILS FOR FURTHER ACCESSIBILITY REQUIREMENTS)



ADULT ACCESSIBLE FIXTURES & ACCESSORY HEIGHTS

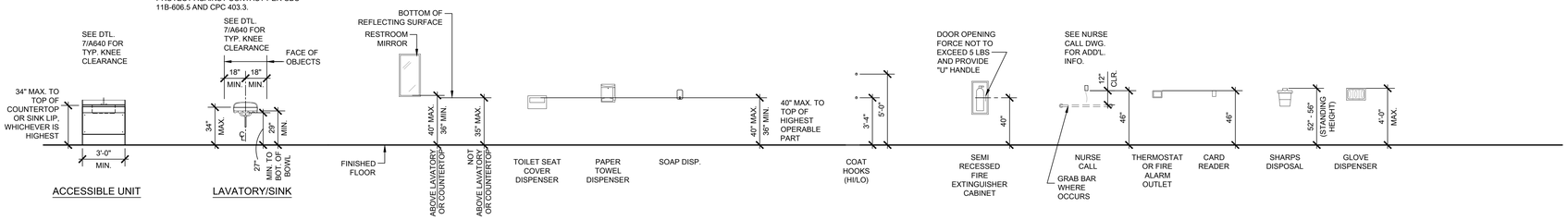
24 — SCALE: 1/4" = 1'-0"



KNEE CLEARANCE

9 — SCALE: 1/2" = 1'-0"

NOTE: WATER SUPPLIES AND DRAIN PIPES BELOW LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT PER CBC 11B-606.5 AND CPC 403.3.



FIXTURE/ACCESSORY/EQUIPMENT MOUNTING HEIGHTS

30 — SCALE: 1/4" = 1'-0"

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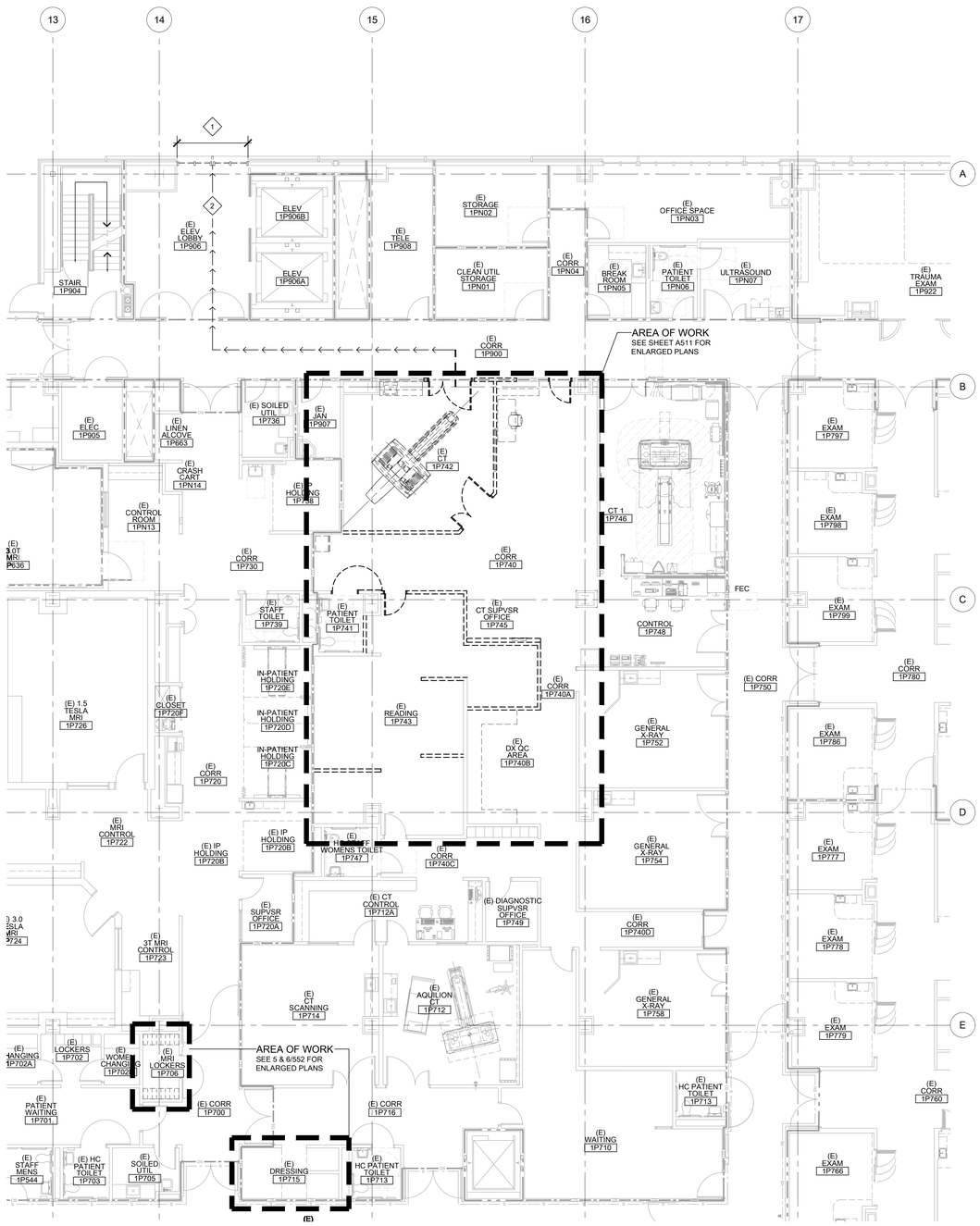
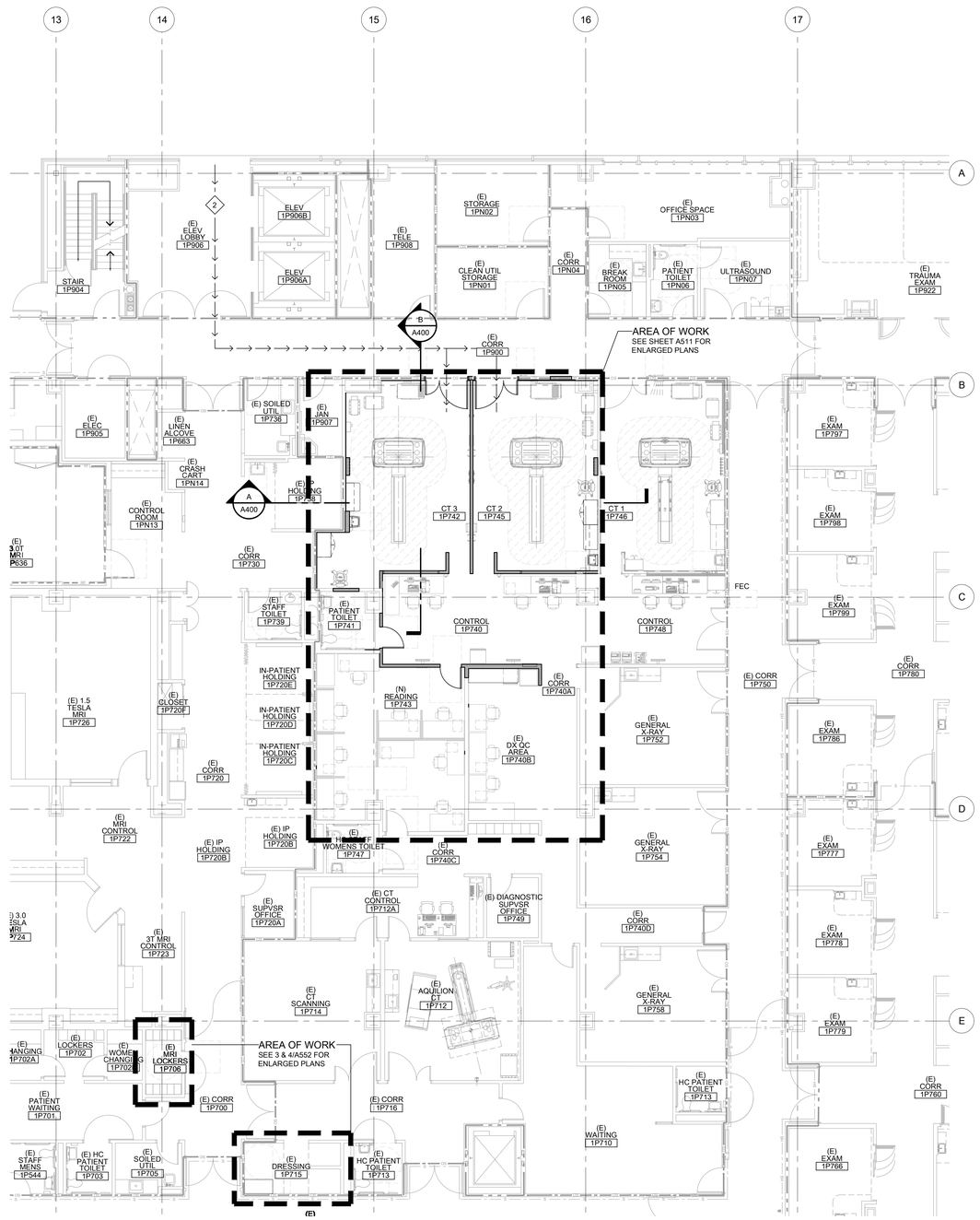


1D DEMOLITION - FIRST FLOOR PLAN

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



1 RENOVATION - FIRST FLOOR PLAN

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

NORTH

SHEET NOTES:

1. ALL UTILITY SHUTDOWNS SHALL BE COORDINATED AND SCHEDULED WITH BUILDING FACILITIES TO MINIMIZE IMPACT TO ON-GOING BUILDING OPERATIONS. GENERAL CONTRACTOR SHALL REASONABLY ESTIMATE SHUTDOWNS THAT WILL NEED TO OCCUR OUTSIDE STANDARD WORK HOURS AND PROVIDE A CORRESPONDING ALLOWANCE FOR AFTER HOURS WORK.
2. THE DEMOLITION PLANS AND RELATED NOTES ARE GENERAL IN NATURE. THE PRIMARY PURPOSE OF THE DRAWING IS TO COMMUNICATE TO THE CONTRACTOR INFORMATION ABOUT EXISTING ELEMENTS THAT WILL REQUIRE DEMOLITION.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO, THE REMOVAL OF EXISTING PORTIONS OF CONSTRUCTION WHETHER SHOWN OR NOT.
4. GENERAL CONTRACTOR SHALL REVIEW AND VERIFY EXISTING CONDITION OF SITE PRIOR TO SUBMITTING A BID FOR THE PROJECT. GENERAL CONTRACTOR SHALL NOT BE ENTITLED TO ANY CHANGE IN CONTRACT PRICE OR TIME FOR CONDITIONS THAT COULD HAVE BEEN REASONABLY DISCOVERED PRIOR TO THE COMMENCEMENT OF DEMOLITION/CONSTRUCTION ACTIVITIES.
5. OWNER RETAINS THE RIGHT OF FIRST REFUSAL FOR ALL REMOVED ITEMS. AS DIRECTED BY OWNER DELIVER ITEMS FOR STORAGE OR DISPOSE OF REMOVED ITEMS TO A LEGAL OFF-SITE DISPOSAL FACILITY.
6. MAINTAIN ADEQUATE SITE AND BUILDING ACCESS AT ALL TIMES TO MAINTAIN LIFE/SAFETY AND CONTINUOUS TRAFFIC FLOW.
7. ITEMS AND/OR SYSTEMS TO BE ABANDONED ARE TO BE REMOVED IN TOTAL AND ANY DAMAGED SURFACE DUE TO REMOVAL ARE TO BE REPAIRED TO AN ACCEPTABLE FINISHED CONDITION.
8. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DWGS FOR RELATED DEMOLITION WORK.
9. MAINTAIN ALL EXISTING FIRE RATED ASSEMBLIES TO PROVIDE CONTINUOUS FIRE PROTECTION. REPAIR/REPLACE ANY DAMAGED ASSEMBLIES TO MATCH (E) RATED ASSEMBLY
10. SCAN FOR ALL FLOOR PENETRATIONS, FLOOR CORES, ANCHORAGE POINTS AND PENETRATIONS PRIOR TO DOING ANY FLOOR WORK. SCAN AND MARK FLOOR FOR ALL PENETRATIONS, INCLUDING 2ND FLOOR LOCATIONS. PROVIDE TAPED GRID TO SHOW REBAR PLACEMENT, CONDUITS, ETC.

KEYNOTES:

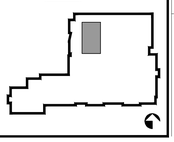
THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. REMOVE & REINSTALL PORTION OF EXISTING EXTERIOR WINDOW SYSTEM TO ALLOW FOR EQUIPMENT DELIVERY & REMOVAL.
2. EQUIPMENT DELIVERY PATH - REVIEW DELIVERY ROUTE FROM TRUCK TO INSTALLATION SPACE, ARRANGEMENTS FOR SPECIAL HANDLING (IF NEEDED), FLOOR REINFORCEMENTS ALONG THE DELIVERY ROUTE TO SUPPORT THE WEIGHT OF THE EQUIPMENT (IF NEEDED) WITH THE BUILDING FACILITIES.

LEGEND:

- (E) WINDOW
- (E) DOOR TO REMAIN
- (E) WALL
- (E) RF SHIELDED WALL
- (E) 1 HR. FIRE RATED BARRIER
- (E) 1 HR. OCCUPANCY SEPARATION
- (E) 1 HR. SMOKE BARRIER
- (E) 2 HR. FIRE BARRIER
- (E) 2 HR. HORIZONTAL EXIT / SMOKE BARRIER
- DOOR — REFER TO SHEET A710 FOR ADD'L. DOOR INFO.
- WINDOW — REFER TO SHEET A710 FOR WINDOW TYPES
- LEAD PARTITION
- PARTITION — REFER TO SHEET A620 FOR WALL TYPE
- 1 HR. OCCUPANCY SEPARATION — REFER TO SHEET A620 FOR WALL TYPE
- FIRE EXTINGUISHER CABINET, REFER TO DTL. 2/A640 (FEC)
- AREA OF WORK

KEYPLAN



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Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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Sacramento, CA 95811
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916.329.4000

REGISTERED ARCHITECT JOHN M LEWIS No. C-21069 EXP. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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SACRAMENTO, CALIFORNIA 95817
(916)734-7934

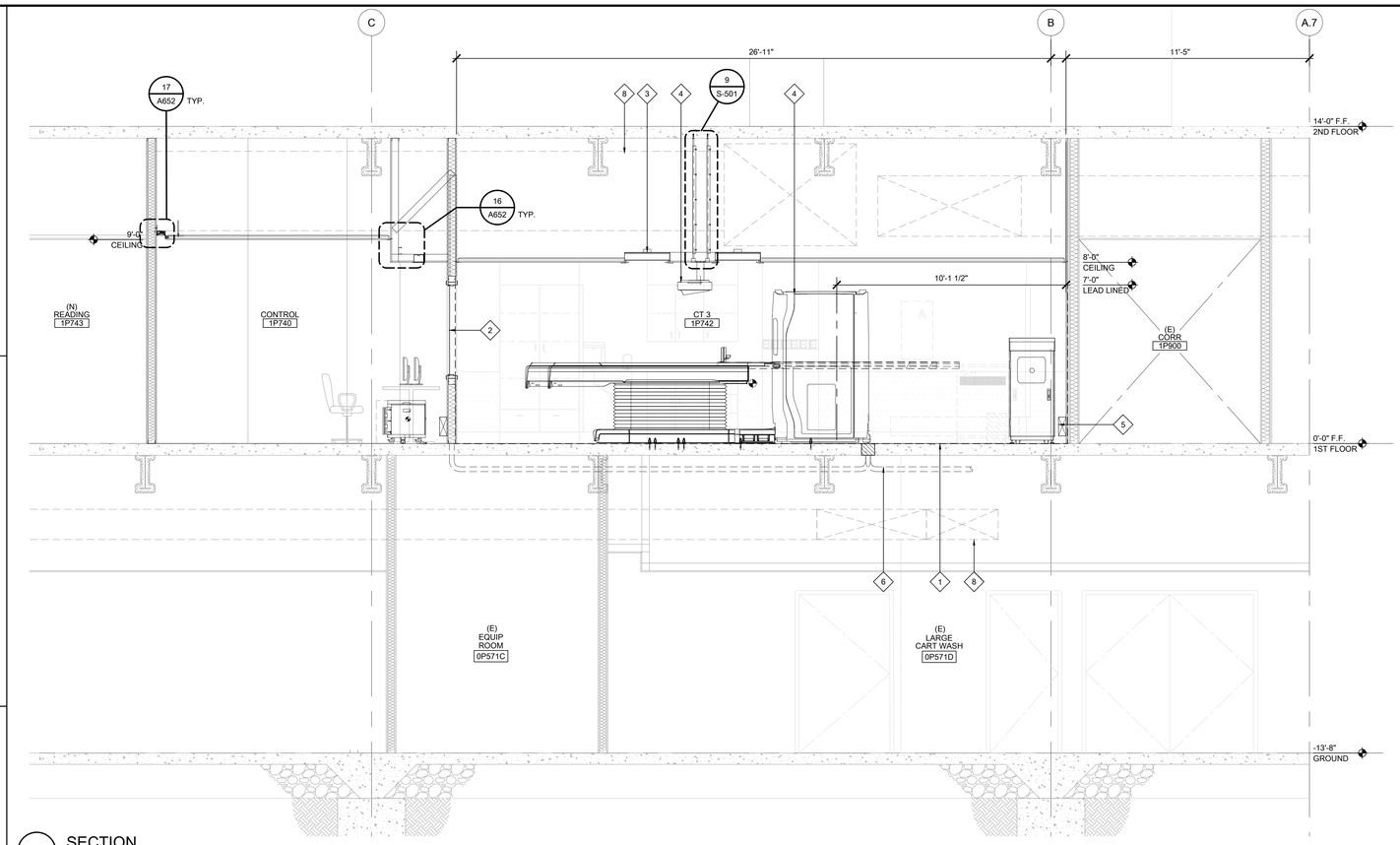
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

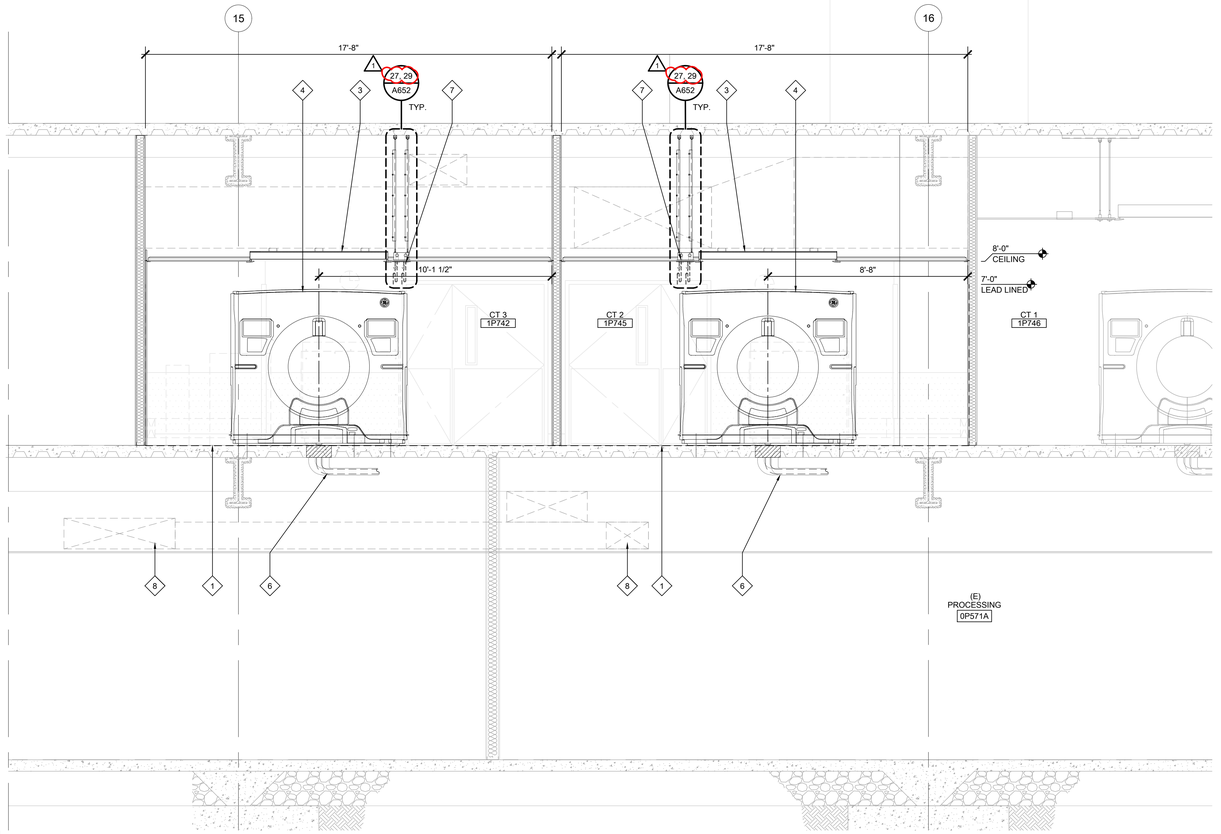
ACCOUNT NO.: 9557740
OSHPD NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: 1ST FLOOR OVERALL PLAN

ARCH \ ENGR: J. Flath	FD&C JOB NO.: 9557740	SHEET NO.: A111	
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN		
DESIGNED BY: NLA	DATE: -		
DRAWN BY: NLA	CAD FILE: -	SHEET: -	OF: -



A SECTION

SCALE: 3/8" = 1'-0"



B SECTION

SCALE: 3/8" = 1'-0"

GENERAL SHEET NOTES:

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1. THE CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO THE REMOVAL OF EXISTING PORTIONS OF CONSTRUCTION WHETHER SHOWN OR NOT.
2. TEMPORARY CONSTRUCTION BARRIER WALLS WILL BE REQUIRED AT VARIOUS TIMES DURING THE STAGES OF WORK. COORDINATE WITH FACILITY ENGINEER TO DETERMINE THE TIMING OR SEQUENCE OF WHEN THE BARRIER WALLS WILL BE REQUIRED IN RELATIONSHIP TO THE STAGING OF WORK.
3. COORDINATE WITH THE FACILITY ENGINEER FOR ESTABLISHING TEMPORARY DUST BARRIERS BETWEEN AREAS BEING RENOVATED AND THOSE AREAS REMAINING OCCUPIED DURING RENOVATION WORK.
4. SEE SHEET A811 FOR FLOOR FINISH PLAN AND FINISH SCHEDULE.
5. SEE SHEETS A831 FOR EQUIPMENT PLAN AND SCHEDULE.

KEYNOTES:

THESE KEYNOTES APPLY TO THIS SHEET ONLY.

1. LEAD SHEET O/ (E) CONC. FLOOR
2. NEW LEADED GLASS WINDOW/FRAME - SEE SHEET A710 F.A.I.
3. SPECIALTY LED LIGHT FIXTURE BY PDC - REFER TO 22/A652 & PDC DWGS. F.A.I.
4. GE CAMERA/EQUIPMENT - SEE STRUCT. DWGS. FOR ANCHORAGE.
5. SURFACE WALL DUCT, SEE ELEC. DWGS. F.A.I.
6. CONDUIT BELOW, SEE ELECT. DWGS. F.A.I.
7. MEDGAS SYSTEM HOSE REEL - SEE PLUMB. DWGS. F.A.I.
8. EXISTING DUCT WHERE OCCURS

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(916)734-7934

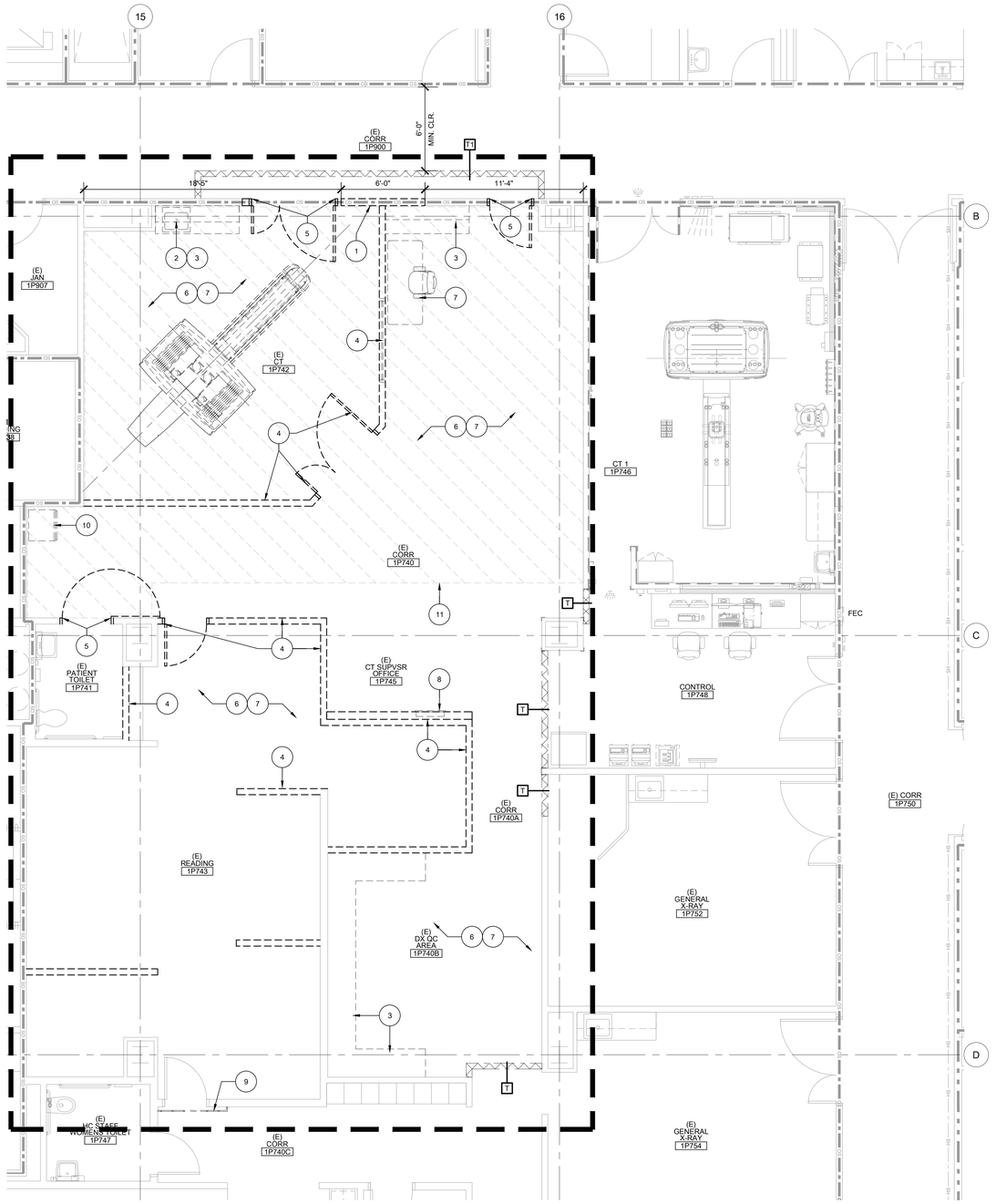
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	10/30/2024

CONSTRUCTION DOCUMENTS

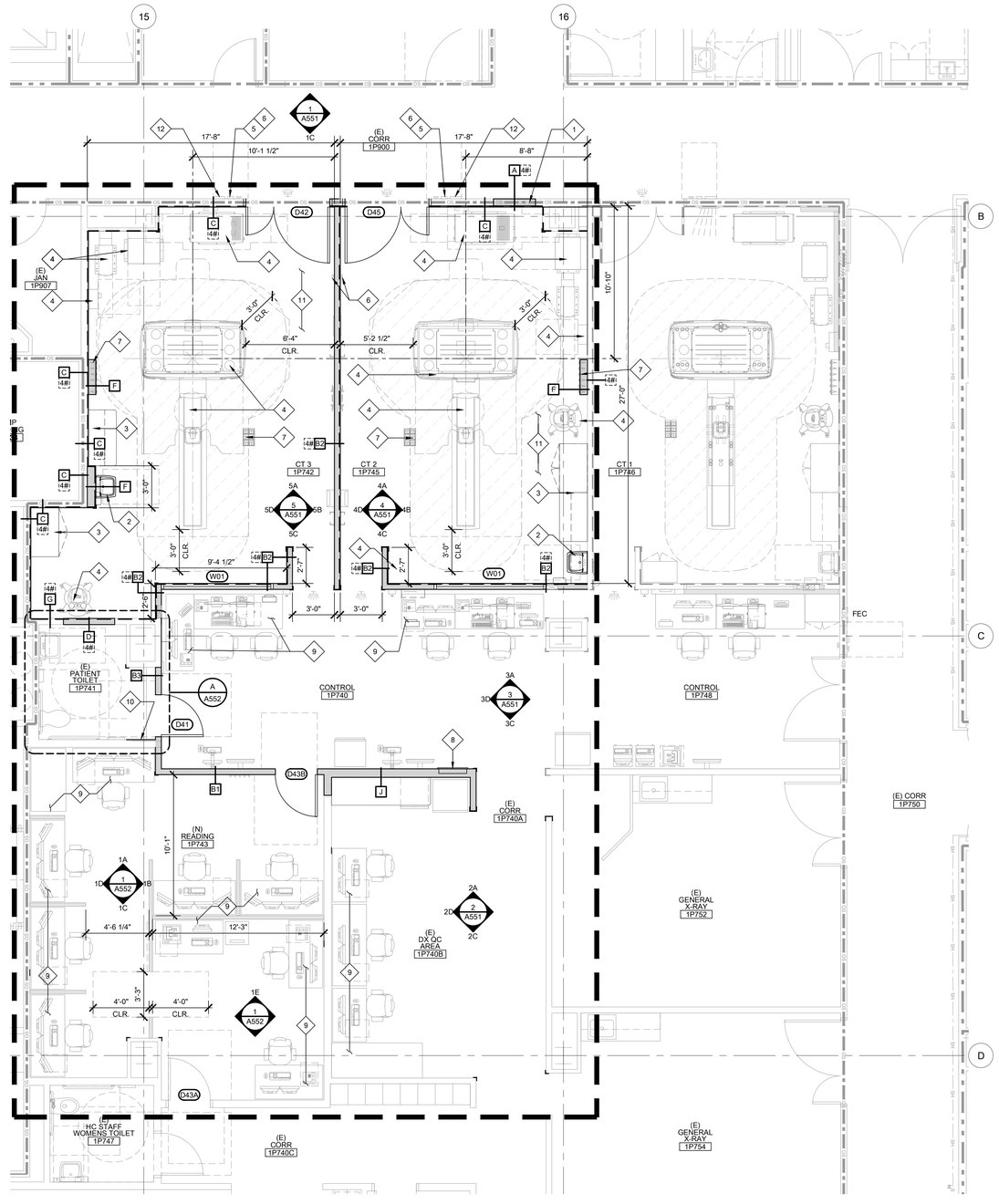
ACCOUNT NO: 9557740
OSHPD I NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: SECTIONS

ARCH / ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	9557740	A400	
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN		
DESIGNED BY: NLA	DATE: -		
DRAWN BY: NLA	CAD FILE: -	SHEET: -	OF: -



1D DEMOLITION - ENLARGED 1ST FLOOR PLAN

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



1 RENOVATION - ENLARGED 1ST FLOOR PLAN

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

NORTH

GENERAL SHEET NOTES:

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1. THE CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK. THIS INCLUDES, BUT IS NOT LIMITED TO THE REMOVAL OF EXISTING PORTIONS OF CONSTRUCTION WHETHER SHOWN OR NOT.
2. TEMPORARY CONSTRUCTION BARRIER WALLS WILL BE REQUIRED AT VARIOUS TIMES DURING THE STAGES OF WORK. COORDINATE WITH FACILITY ENGINEER TO DETERMINE THE TIMING OR SEQUENCE OF WHEN THE BARRIER WALLS WILL BE REQUIRED IN RELATIONSHIP TO THE STAGING OF WORK.
3. COORDINATE WITH THE FACILITY ENGINEER FOR ESTABLISHING TEMPORARY DUST BARRIERS BETWEEN AREAS BEING RENOVATED AND THOSE AREAS REMAINING OCCUPIED DURING RENOVATION WORK.
4. SEE SHEET A811 FOR FLOOR FINISH PLAN AND FINISH SCHEDULE.
5. SEE SHEETS A831-A832 FOR EQUIPMENT PLAN AND SCHEDULE.

DEMOLITION KEYNOTES:

THESE SHEET NOTES APPLY TO THIS SHEET ONLY.

1. DEMO PORTION OF (E) WALL FOR NEW DOOR OPENING; MAINTAIN FIRE RATING AS REQ'D.
2. DEMOLISH (E) SINK & RELOCATE ASSOCIATED PLUMBING TO NEW SINK. SEE PLUMB. DWGS. F.A.I.
3. DEMOLISH EXISTING CASEWORK / PLAN ITEMS
4. DEMOLISH EXISTING WALLS & DOOR/WINDOW.
5. REMOVE EXISTING DOOR, HARDWARE & FRAME TO INFILL WALL; MAINTAIN FIRE RATING AS REQ'D.
6. DEMOLISH (E) FINISHES & FLOORING & PREPARE SUBSTRATE FOR NEW FINISHES.
7. REMOVE / RELOCATE (E) FURNISHINGS & EQUIPMENT AS REQ'D.
8. DEMOLISH (E) MEDGAS PANEL & UTILITIES. RELOCATE ASSOCIATED PLUMBING TO NEW LOCATION. SEE PLUMB. DWGS. F.A.I.
9. DUST CONTROL TEMP. CONSTRUCTION BARRIER (VISQUEEN PLASTIC SHEETING). COORDINATE LOCATION IN FIELD W/ FACILITY.
10. REMOVE / RELOCATE (E) FURNISHINGS & EQUIPMENT AS REQ'D. BY THE UNIVERSITY.
11. PREP AREA OF CONC. SLAB FOR SHEET LEAD.

RENOVATION KEYNOTES:

THESE SHEET NOTES APPLY TO THIS SHEET ONLY.

1. INFILL OPENING W/ MTL. STUD FRAMING AND MATCH (E) WALL RATING & FINISH AS REQ'D.
2. HANDWASH FIXTURE W/ HOT AND COLD MIXING FAUCET, SEE PLUMB. DWGS. F.A.I.
3. CASEWORK, SEE INTERIOR ELEVATIONS F.A.I.
4. EQUIPMENT, SEE A831 F.A.I.
5. CARD READER, PROVIDE CLEAR SPACE OF 30" x 48" WITH A MAXIMUM REACH OF 48" AFF.
6. DOOR ACTIVATION PUSH PLATE
7. MEDGASES. SEE PLUMB. DWGS. F.A.I.
8. RELOCATED MEDGAS ZONE VALVE BOX. SEE DTL. 3/A640 AND PLUMB. DWGS. F.A.I.
9. FURNITURE ITEM, O.F.V.I.
10. PATCH & REPAIR MTL. STUD FRAMING AND MATCH (E) WALL FINISH AS REQ'D.
11. INSTALL 1 LB. LEAD SHEET AS REQ'D. REFER TO SPEC SECTION 130900 & DTL. 8/A710 F.A.I.
12. AI PHONE/MONITOR

LEGEND:

- (E) WINDOW
- (E) DOOR TO REMAIN
- (E) WALL
- (E) LEAD LINED WALL
- (E) 1 HR. FIRE RATED BARRIER
- (E) 1 HR. OCCUPANCY SEPARATION
- (E) 2 HR. FIRE BARRIER
- (E) 2 HR. HORIZONTAL EXIT / SMOKE BARRIER
- (E) PLAN ITEMS TO BE REMOVED

W00 — WINDOW
REFER TO SHEET A710 FOR WINDOW TYPES

D00 — DOOR
REFER TO SHEET A710 FOR ADD'L. DOOR INFO.

B P — D0 — PARTITION
REFER TO SHEET A620 FOR WALL TYPE

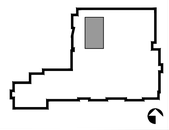
1 HR. FIRE RATED BARRIER
REFER TO SHEET A620 FOR WALL TYPE

FEC — FIRE EXTINGUISHER CABINET
REFER TO DTL. 3/A640

D0 — TEMP. CONSTRUCTION BARRIER
REFER TO SHEET A620 FOR WALL TYPE

AREA OF WORK

KEYPLAN



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Office of Statewide Hospital Planning & Development
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Ray Sanchez

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600 Q Street, Suite 100
Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

LICENSED ARCHITECT — JOHN M FLATH — No. C-31169 — EXP. 12-31-25 — STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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SACRAMENTO, CALIFORNIA 95817
(916)734-7034

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO: 9557740
OSHPD NO: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: ENLARGED 1ST FLOOR PLANS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	9557740	A511	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	AS SHOWN		
DESIGNED BY	DATE		
NLA	-		
DRAWN BY	CAD FILE	SHEET	OF
NLA	-	-	-

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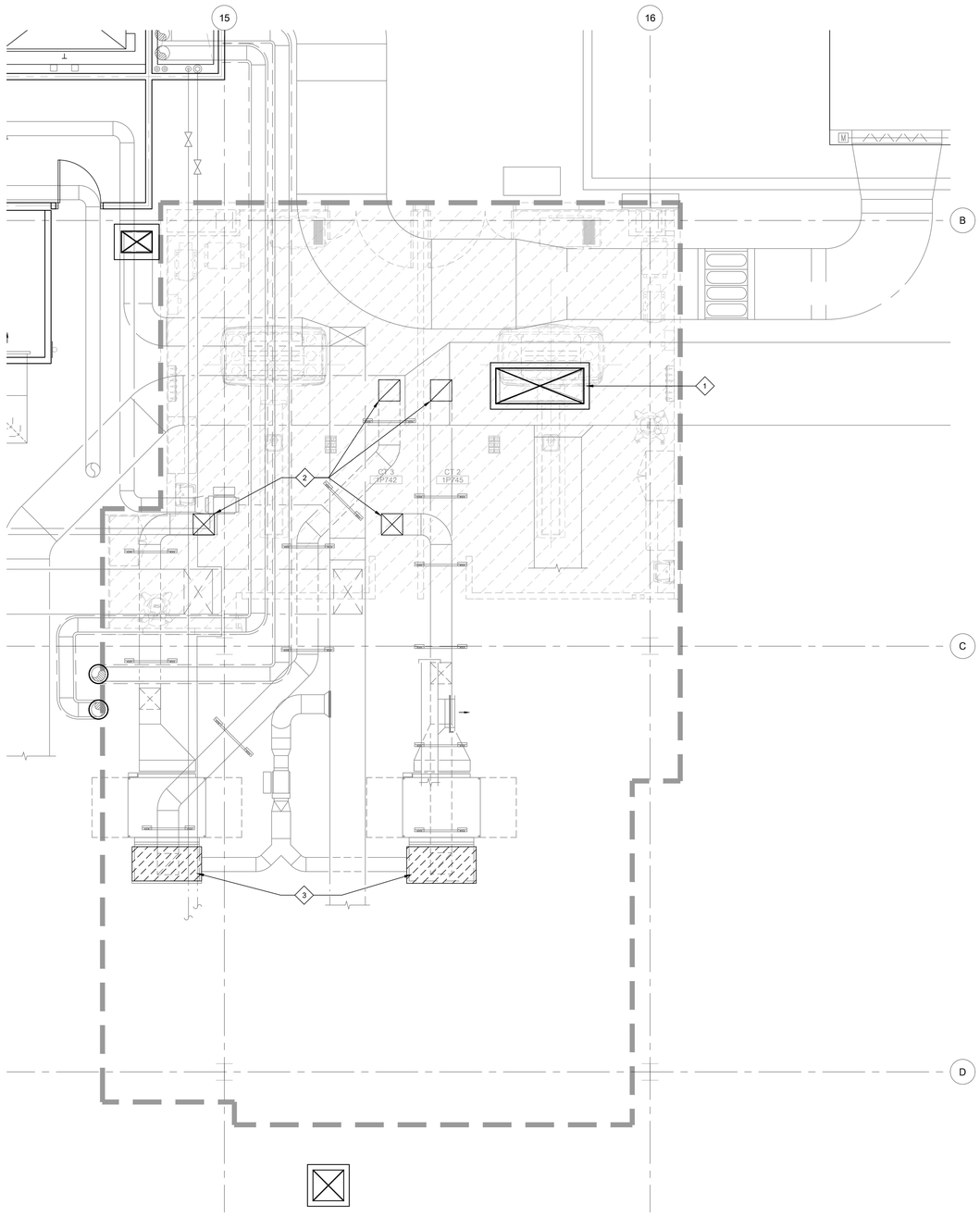
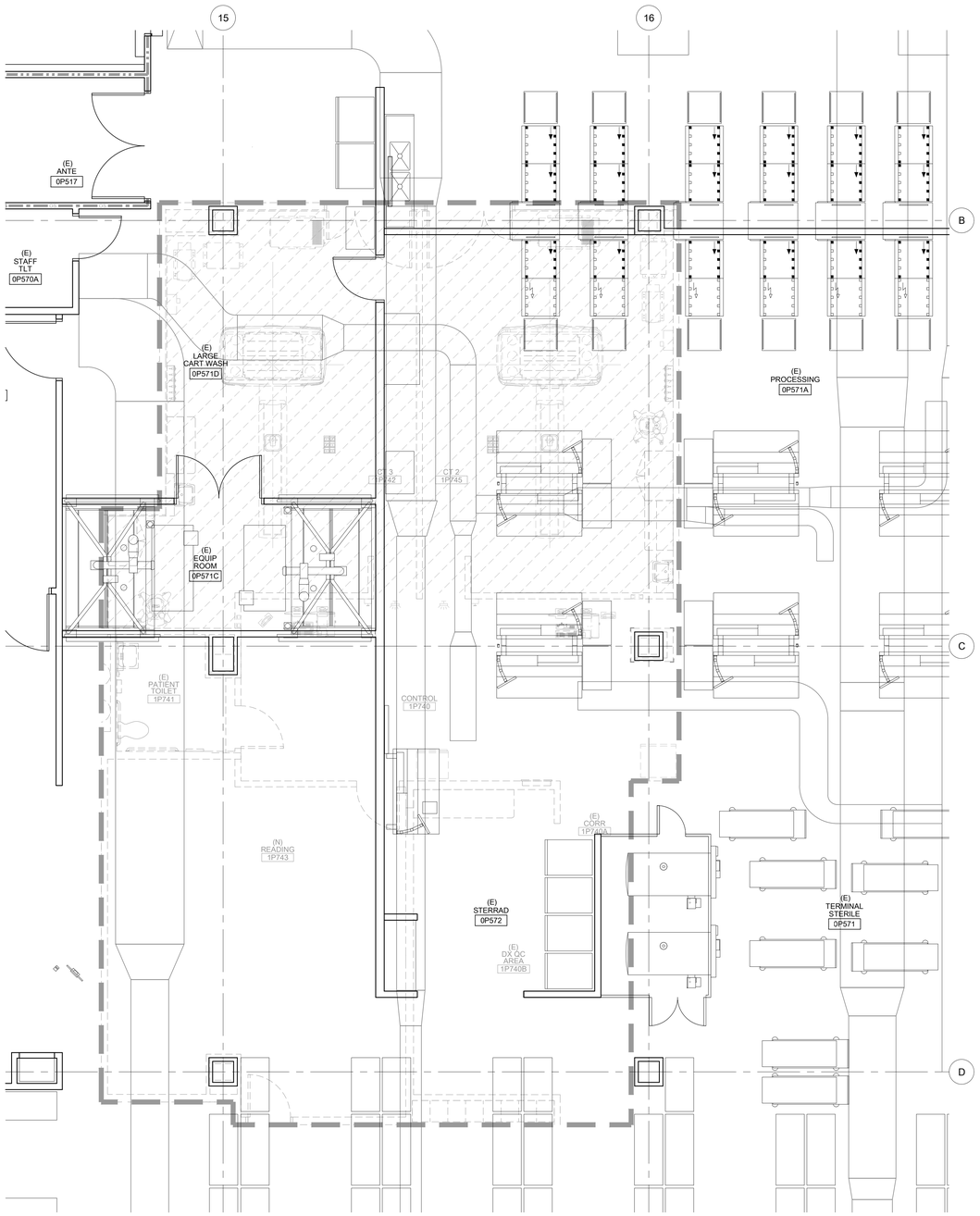


2 PARTIAL 2ND FLOOR PLAN

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



1 PARTIAL BASEMENT PLAN

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

NORTH

GENERAL SHEET NOTES:

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TEMPORARY CONSTRUCTION BARRIER WALLS WILL BE REQUIRED AT VARIOUS TIMES DURING THE STAGES OF WORK. COORDINATE WITH FACILITY ENGINEER TO DETERMINE THE TIMING OR SEQUENCE OF WHEN THE BARRIER WALLS WILL BE REQUIRED IN RELATIONSHIP TO THE STAGING OF WORK.

COORDINATE WITH THE FACILITY ENGINEER FOR ESTABLISHING TEMPORARY DUST BARRIERS BETWEEN AREAS BEING RENOVATED AND THOSE AREAS REMAINING OCCUPIED DURING RENOVATION WORK.

SEE SHEET A811 FOR FLOOR FINISH PLAN AND FINISH SCHEDULE.

SEE SHEETS A831-A832 FOR EQUIPMENT PLAN AND SCHEDULE.

KEYNOTES:

NOT ALL KEYNOTES APPLY TO THIS SHEET.

1. (E) DUCT SHAFT
2. (N) DUCT PENETRATION. SEE STRUCT. & MECH. DWGS. F.A.I.
3. (N) FAN COIL UNIT. SEE MECH. DWGS. F.A.I.

LEGEND:

- 1ST FLOOR PLAN ITEMS
- (E) BASEMENT/ROOF PLAN ITEMS
- (E) DUCTWORK
- AREA OF WORK ON 1ST FLOOR
- AREA OF LEAD LINED FLOOR IN CT ROOMS ON 1ST FLOOR

KEYPLAN

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(916)734-7034

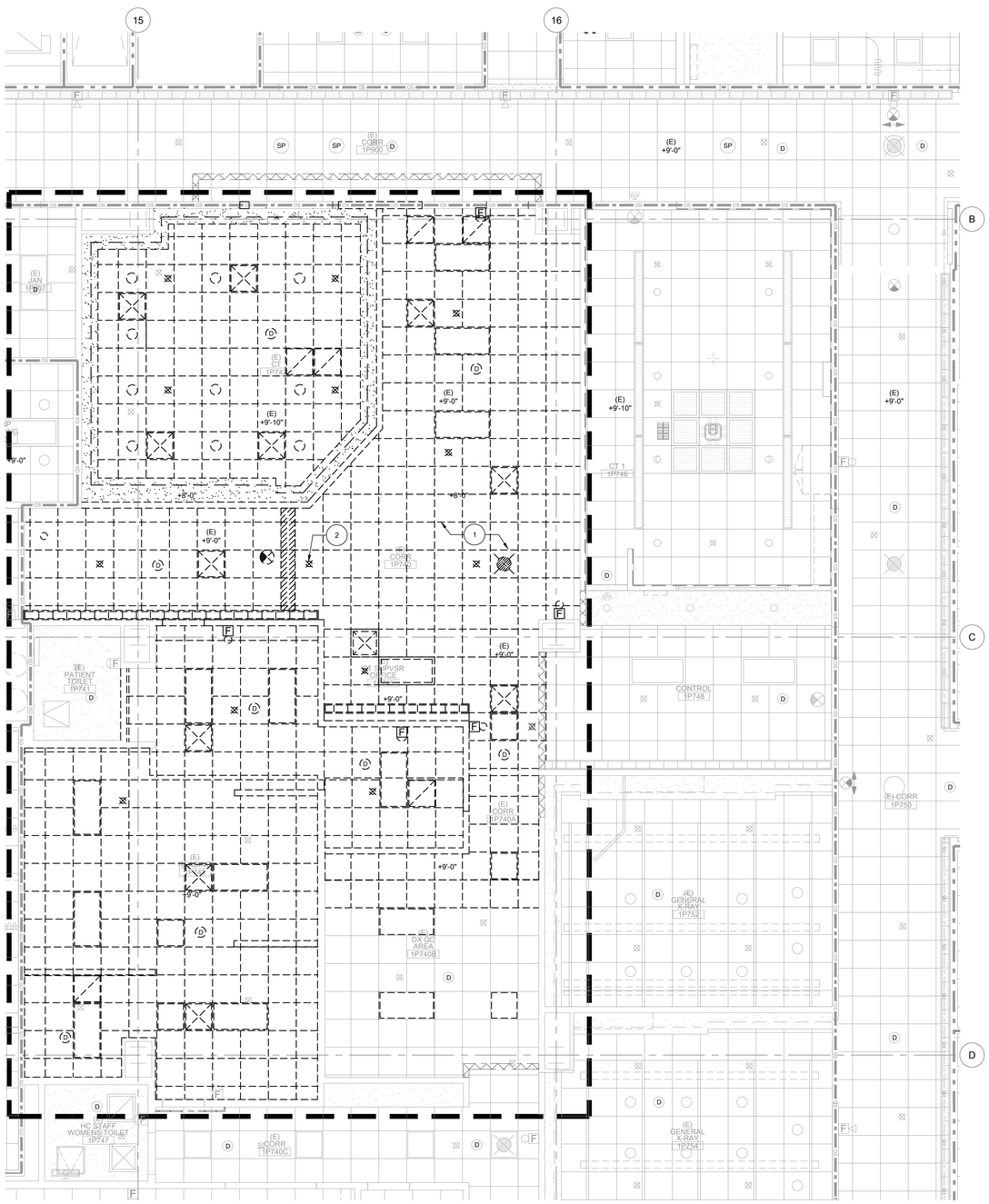
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

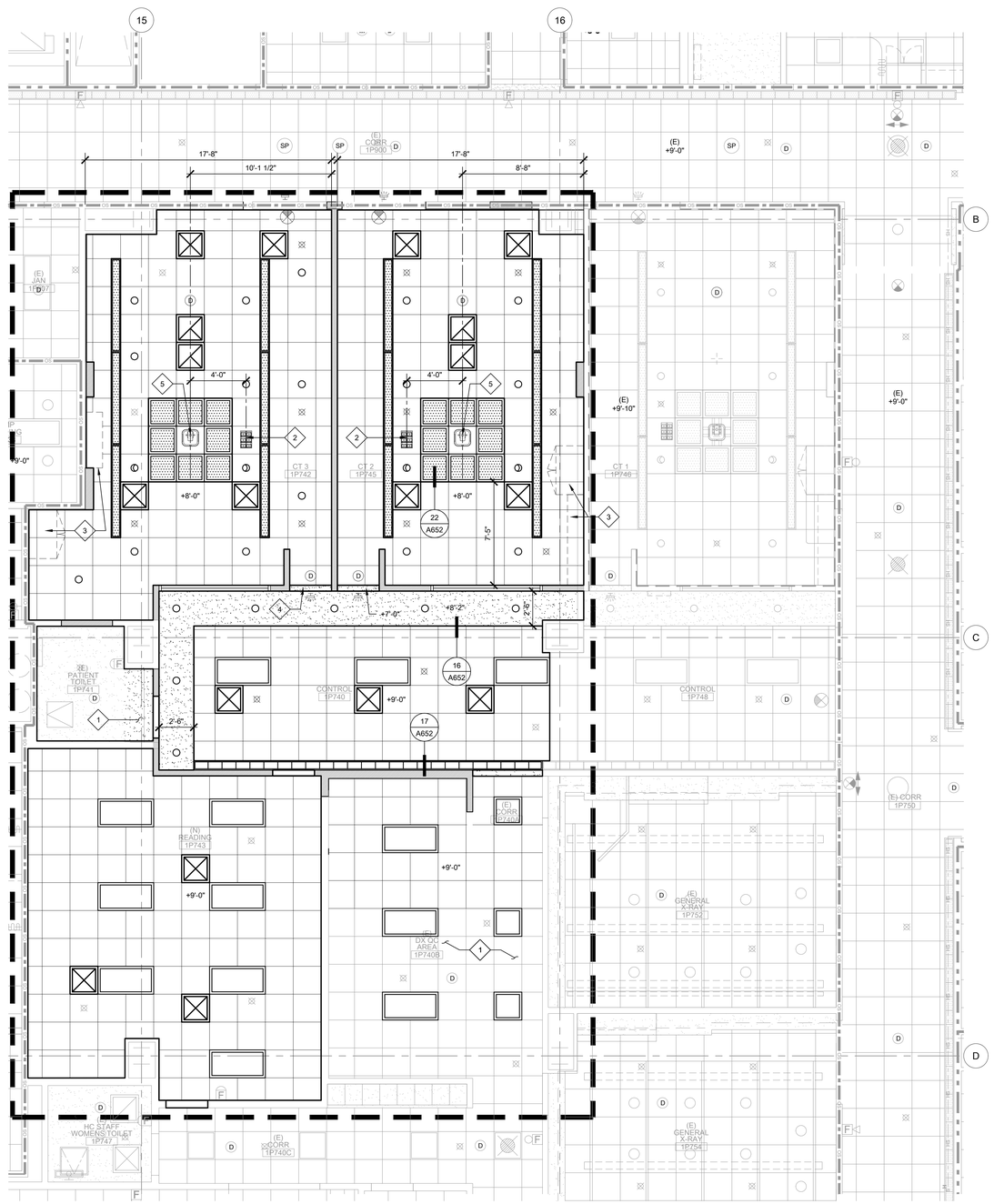
ACCOUNT NO: 9557740
OSHPD NO: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PARTIAL BASEMENT & 2ND FLOOR PLANS

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	9557740	A512
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: NLA	DATE: -	
DRAWN BY: NLA	CAD FILE: -	SHEET: - OF: -



1D DEMOLITION - ENLARGED 1ST FLOOR PLAN

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



1 RENOVATION - ENLARGED 1ST FLOOR PLAN

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

NORTH

GENERAL SHEET NOTES:

THESE SHEET NOTES APPLY TO THIS SHEET ONLY.

1. THE PLANS AND RELATED NOTES ARE GENERAL IN NATURE. THE PRIMARY PURPOSE OF THE DRAWING IS TO COMMUNICATE TO THE CONTRACTOR INFORMATION ABOUT FIRE LIFE SAFETY REQUIREMENTS DURING PERFORMANCE OF WORK..
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE INSTALLATION OF NEW WORK.
3. GENERAL CONTRACTOR SHALL REVIEW AND VERIFY EXISTING CONDITION OF SITE PRIOR TO SUBMITTING A BID FOR THE PROJECT. GENERAL CONTRACTOR SHALL NOT BE ENTITLED TO ANY CHANGE IN CONTRACT PRICE OR TIME FOR CONDITIONS THAT COULD HAVE BEEN REASONABLY DISCOVERED PRIOR TO THE COMMENCEMENT OF DEMOLITION/CONSTRUCTION ACTIVITIES.
4. MAINTAIN ADEQUATE SITE AND BUILDING ACCESS AT ALL TIMES TO MAINTAIN LIFE/SAFETY AND CONTINUOUS TRAFFIC FLOW.
5. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DWGS FOR RELATED WORK.
6. MAINTAIN ALL EXISTING FIRE RATED ASSEMBLIES TO PROVIDE CONTINUOUS FIRE PROTECTION. REPAIR/REPLACE ANY DAMAGED ASSEMBLIES TO MATCH (E) RATED ASSEMBLY

DEMOLITION KEYNOTES:

NOT ALL KEYNOTES APPLY TO THIS SHEET.

1. EXISTING T-BAR CEILING, LIGHT FIXTURES & MECHANICAL FIXTURES TO BE REMOVED
2. EXISTING CEILING ITEM TO BE RELOCATED

RENOVATION KEYNOTES:

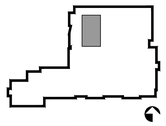
NOT ALL KEYNOTES APPLY TO THIS SHEET.

1. PATCH & REPAIR TO MATCH ADJACENT SURFACES AS REQ'D.
2. MEDGAS SYSTEM HOSE REEL, SEE DTLS. 27 & 29/A652 & PLUMB. DWGS. F.A.I.
3. UPPER / FULL HEIGHT CASEWORK BELOW, SEE DTL. 17/A640
4. BULKHEAD, SEE DTL. 21/A652 F.A.I.
5. CEILING MOUNTED CAMERA, SEE STRUCT. DWGS. F.A.I.

LEGEND:

- CEILING ITEMS TO BE REMOVED
- 2' x 2' ACOUSTICAL LAY-IN CEILING - SEE SHEETS A650 - A652 FOR SUSPENSION SYSTEM, SEE FINISH SCHEDULE FOR ACOUSTICAL TILE TYPE
- RECESSED SPECIALTY LED LIGHT FIXTURES PROVIDE FRAMING / SUPPORT AS REQ'D.
- SPECIALTY STRAIGHT LED FIXTURES SEE DTL. 23/A652
- RECESSED LIGHT FIXTURES SEE DTL. CL2.80/A551 & ELEC. DWGS. FOR ADD'L. INFO.
- WALL COVE / STRIP LIGHTING FIXTURE SEE DTL. 17/A652 & ELEC. DWGS. FOR ADD'L. INFO.
- AIR DIFFUSERS / EXHAUST / RETURN GRILLS SEE MECH. DWG'S. FOR ADD'L INFO
- (E) WALL MOUNTED LIGHT FIXTURES
- EXIT LIGHT, SEE ELEC. DWG'S. FOR ADD'L. INFO.
- (E) SPRINKLER / RELOCATED SPRINKLER - MODIFY AS REQ'D. FOR NEW LAYOUT.
- (E) SPEAKER / (E) SMOKE DETECTOR / (E) OCCUPANCY SENSOR
- (E) FIRE STROBES
- AREA OF WORK

KEYPLAN



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LICENSED ARCHITECT JOHN M. NACHT No. C-21169 REN. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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SACRAMENTO, CALIFORNIA 95817
(916)734-7934

CONSULTANT LOGO:

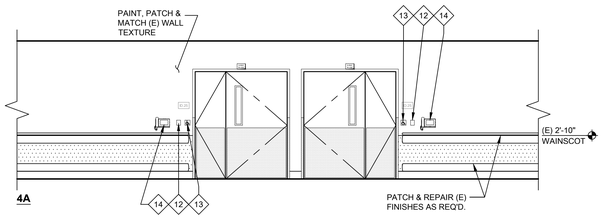
REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	10/31/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO. 9557740
OSHPD NO. S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: ENLARGED 1ST FLOOR CEILING PLANS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	9557740	A541
UCDMC PROJECT MANAGER	SCALE	
Z. Price	AS SHOWN	
DESIGNED BY	DATE	
NLA	-	
DRAWN BY	CAD FILE	SHEET / OF
NLA	-	- / -

K:\Project\UCDMC\V232100 UCDHS SESP 1P74 1P45 CT Scanner Replacement\02_Design\Drawings\A551-V2321-00.dwg, 8/15/2024 9:59:25 AM, DWG To PDF - Lines Merge.pc3



4A

1 (E) CORR (1P900)

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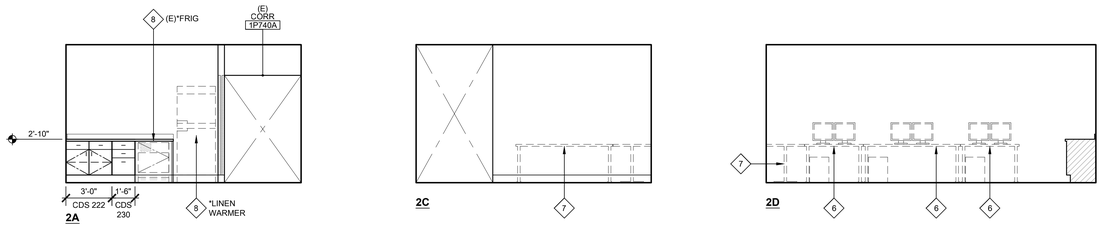

2A 2C 2D

2 WORK AREA (1P740B)

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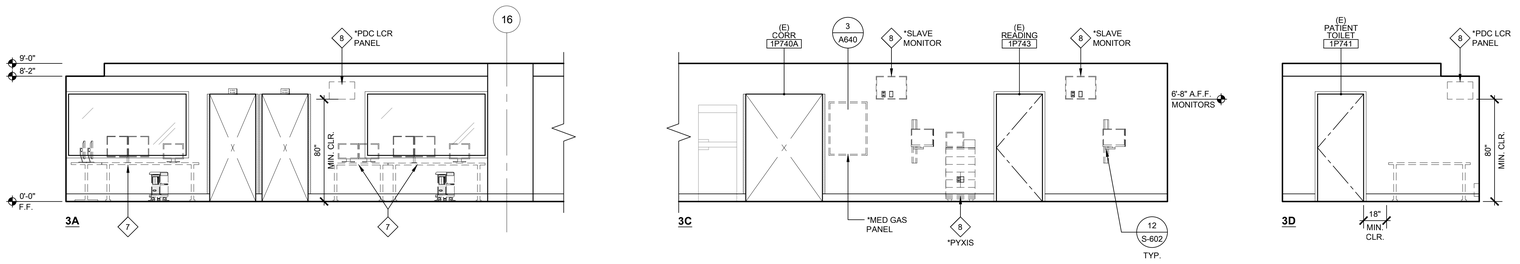

3A 3C 3D

3 CONTROL (1P740)

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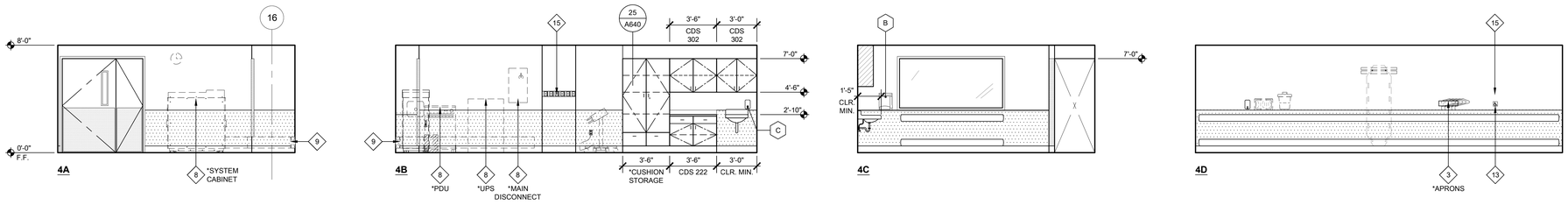
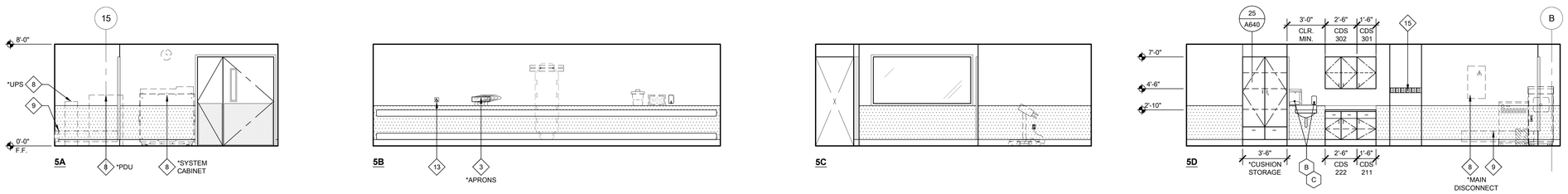


4A 4B 4C 4D

4 CT 2 (1P725)

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



5A 5B 5C 5D

5 CT 3 (1P742)

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

GENERAL SHEET NOTES:

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3. COORDINATE WITH THE FACILITY ENGINEER FOR ESTABLISHING TEMPORARY DUST BARRIERS BETWEEN AREAS BEING RENOVATED AND THOSE AREAS REMAINING OCCUPIED DURING RENOVATION WORK.
4. SEE SHEET A811 FOR FLOOR FINISH PLAN AND FINISH SCHEDULE.
5. SEE SHEETS A831 FOR EQUIPMENT PLAN AND SCHEDULE.

KEYNOTES:

NOT ALL KEYNOTES APPLY TO THIS SHEET.

1. HANDWASH FIXTURE W/ HOT & COLD MIXING FAUCET, SEE PLUMB. DWGS. F.A.I.
2. CASEWORK W/ HANDWASH FIXTURE W/ HOT AND COLD MIXING FAUCET SEE DTLS. 11&12/A640 AND PLUMB. DWG'S. F.A.I.
3. COUNTERTOP
4. TYPICAL CASEWORK, SEE SHEET A640 F.A.I.
5. WALL PROTECTION, SEE FINISH PLAN & SCHEDULE F.A.I.
6. ADJUSTABLE HEIGHT DESK, N.I.C., O.F.V.I.
7. FURNITURE, N.I.C., O.F.V.I.
8. EQUIPMENT, PROVIDE STRUCT. FRAMING / BACKING / SEISMIC BRACING AS REQ'D.
9. FLUSH MOUNT ELECTRICAL RACEWAY, SEE ELEC. DWGS. AND MFR. DWGS. FOR ADD'L. INFO.
10. RELOCATED MEDGAS ZONE VALVE BOX, SEE DTL. 3/A640
11. FIRE EXTINGUISHER CABINET, SEE DTL. 2/A640
12. CARD READER, PROVIDE CLEAR SPACE OF 30" x 48" WITH A MAXIMUM REACH OF 48" AFF.
13. DOOR ACTIVATION PUSH PLATE
14. AI PHONE / MONITOR
15. MEDGAS OUTLETS, SEE PLUMB. DWGS. F.A.I.

MISC. TOILET ACCESSORIES (CFCI, UON):

NOT ALL KEYNOTES APPLY TO THIS SHEET.

- A COAT HOOK, B-7672
- B PAPER TOWEL DISPENSER
- C SOAP DISPENSERS O.F.O.I.
- D 18" x 54" MIRROR

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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LICENSED ARCHITECT JOHN M. LEWIS No. C-41049 12-31-25 STATE OF CALIFORNIA

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ARCH./ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	9557740	A551	
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN		
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DRAWN BY: NLA	CAD FILE: -	SHEET: -	OF: -

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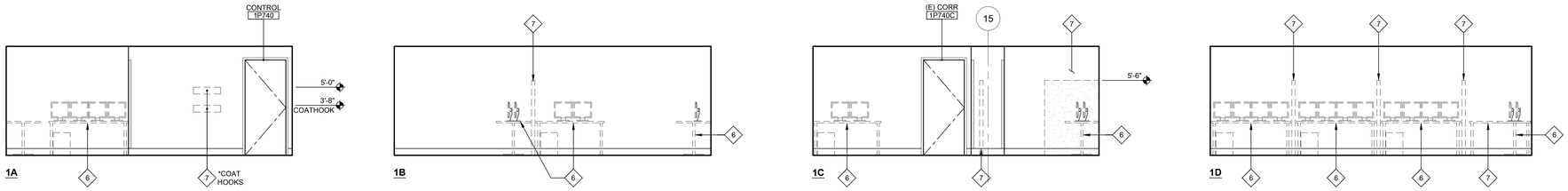
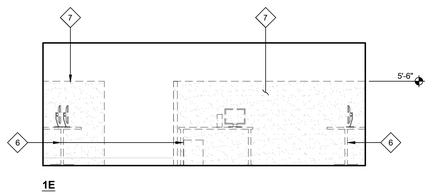


1 (N) READING (1P743)

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



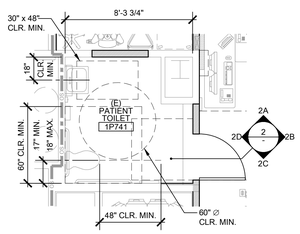
1 (N) READING (1P743)

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

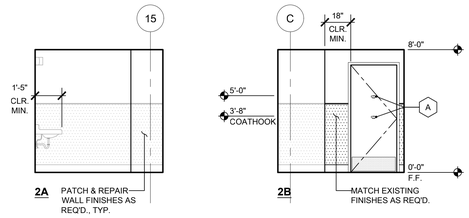
DEMOLITION KEYNOTES:

NOT ALL KEYNOTES APPLY TO THIS SHEET.

1. REPLACE ROOM SIGNAGE. SEE SHEET A710 F.A.I.
2. REMOVE (E) LOCKERS.
3. PATCH & REPAIR (E) SURFACES AS REQ'D.
4. REPLACE (E) CEILING TILES AS REQ'D. SEE ELEC. DWG'S. F.A.I.
5. DUST CONTROL TEMP. CONSTRUCTION BARRIER (VISQUEEN PLASTIC SHEETING). COORDINATE LOCATION IN FIELD W/ FACILITY.



ENLARGED PLAN



2 (E) PATIENT TOILET (1P741)

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

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KEYNOTES:

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4. TYPICAL CASEWORK, SEE SHEET A640 F.A.I.
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6. ADJUSTABLE HEIGHT DESK, N.I.C., O.F.V.I.
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MISC. TOILET ACCESSORIES (CFCI, UON):

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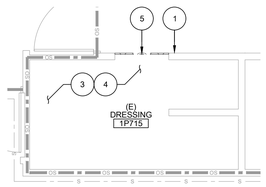
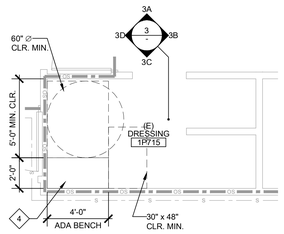
- B PAPER TOWEL DISPENSER
- C SOAP DISPENSERS O.F.O.I.
- D 18" x 54" MIRROR



ENLARGED PLAN

5 EXISTING PLAN - (E) DRESSING (1P715)

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



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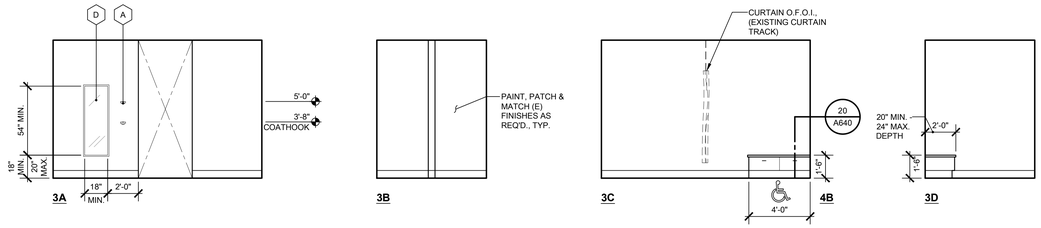

3 ADA UPGRADE - (E) DRESSING (1P715)

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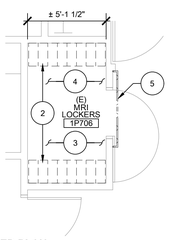
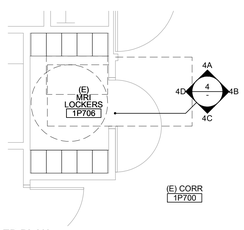


ENLARGED PLAN

6 EXISTING PLAN - (E) MRI LOCKER (1P706)

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



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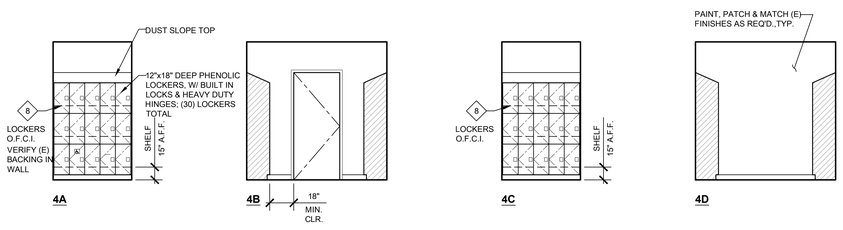

4 LOCKER UPGRADE - (E) MRI LOCKER (1P706)

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

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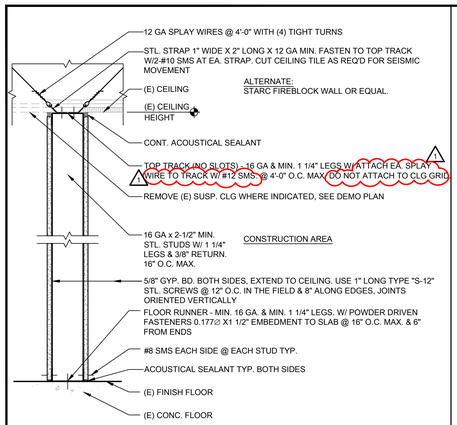
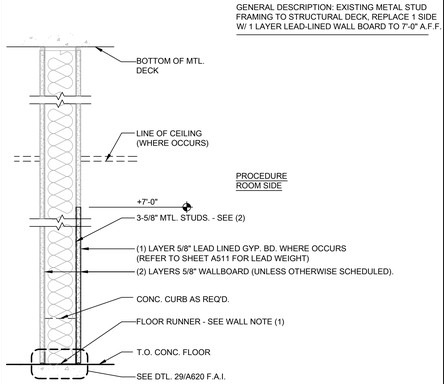
NLA	-	-	-



T

TEMPORARY CONSTRUCTION BARRIER

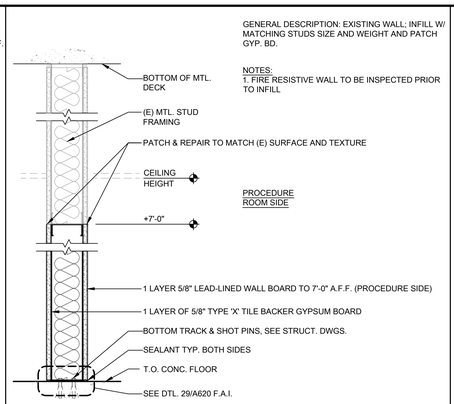
SCALE: 1 1/2" = 1'-0"



G

3-5/8" MTL. STUD WALL (FULL HT.)

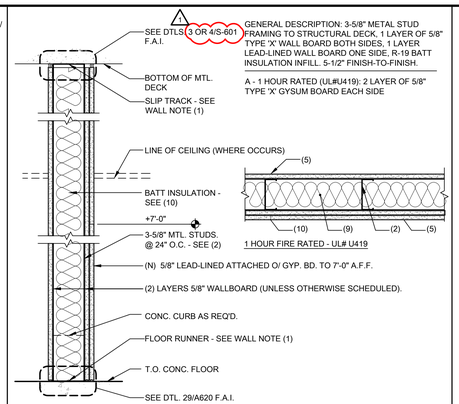
SCALE: 1 1/2" = 1'-0"



D

INFILL O/ EXISTING WALL OPENING

SCALE: 1 1/2" = 1'-0"



A

LEAD LINED GYP. O/ 3-5/8" MTL. STUD WALL (1 HR. FULL HT.)

SCALE: 1 1/2" = 1'-0"

WALL NOTES:

THESE NOTES APPLY TO THIS SHEET ONLY

(1). SLIP TRACK, SEE STRUCT. DWGS. FOR ATTACHMENT TO MTL. DECK AND TO FLOOR.

(2). CHANNEL SHAPED STEEL STUDS, SEE STRUCT. DWGS. FOR STUD SIZE, GA., AND SPACING.

(3). "J" - SHAPED RUNNER WITH UNEQUAL LEGS OF 1 IN. AND 2 IN. RUNNERS POSITIONED WITH SHORT LEG TOWARD FINISHED SIDE OF WALL. RUNNERS ATTACHED TO STRUCTURAL SUPPORTS WITH STEEL FASTENERS LOCATED NOT GREATER THAN 2 IN. FROM ENDS.

(4). "C-H" - SHAPED STUDS, CUT TO LENGTHS 1/2 IN. LESS THAN FLOOR-TO-CEILING HEIGHT AND SPACED 16 IN. OC.

(5). 5/8" THICK FIRE RESISTANT GYPSUM WALLBOARD - UNITED STATES GYPSUM CO - TYPES AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX - GYPSUM PANELS, NOM 5/8 IN. THICK, 48 IN., APPLIED VERTICALLY OR HORIZONTALLY, ATTACHED TO STUDS WITH 1 IN. LONG TYPE S STEEL SCREWS SPACED 12 IN. WHEN INSTALLED VERTICALLY OR 8 IN. IN OC. WHEN INSTALLED HORIZONTALLY.

(6). 1 IN. GYPSUM LINER - UNITED STATES GYPSUM CO - TYPE SLX - GYPSUM LINER PANELS, NOM 1 IN. THICK, 24 IN. WIDE. PANELS CUT 1 IN. LESS IN LENGTH THAN FLOOR TO CEILING HEIGHT. VERTICAL EDGES INSERTED IN "H" PORTION OF "C-H" STUDS. FREE EDGE OF END PANELS ATTACHED TO LONG LEG OF VERTICAL "J" - RUNNERS WITH 1-5/8 IN. LONG TYPE S STEEL SCREWS SPACED NOT GREATER THAN 12 IN. OC. WHEN WALL HEIGHT EXCEEDS LINER PANEL LENGTH, LINER PANEL MAY BE BUTTED TO EXTEND TO THE FULL HEIGHT OF THE WALL. HORIZONTAL JOINTS NEED NOT BE BACKED BY STEEL FRAMING.

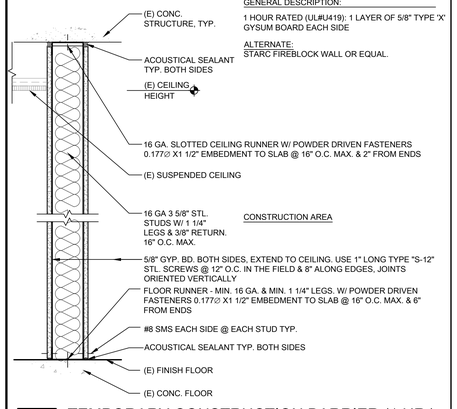
(7). 2 LAYERS 5/8" THICK FIRE RESISTANT GYPSUM WALLBOARD - UNITED STATES GYPSUM CO - WRC; 5/8 IN. TYPES AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRC, WRX - 2 HR - NOM 5/8 IN. THICK, 48 IN. APPLIED VERTICALLY OR HORIZONTALLY IN TWO LAYERS. INNER OR BASE LAYER ATTACHED TO STUDS WITH 1 IN. LONG TYPE S STEEL SCREWS SPACED 24 IN. OC. WHEN INSTALLED VERTICALLY OR 16 IN. OC. WHEN INSTALLED HORIZONTALLY. OUTER OR FACE LAYER ATTACHED TO STUDS WITH 1-5/8 IN. LONG TYPE S STEEL SCREWS SPACED 12 IN. OC. WHEN INSTALLED VERTICALLY AND STAGGERED 12 IN. FROM BASE LAYER SCREWS. HORIZONTAL JOINTS BETWEEN INNER AND OUTER LAYERS STAGGERED A MIN OF 12 IN.VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED 24 IN.

(8). CEMENTITIOUS BACKER UNITS - 5/8 IN. THICK, APPLIED VERTICALLY OR HORIZONTALLY WITH VERTICAL JOINTS CENTERED OVER STUDS. FASTENED TO STUDS AND RUNNERS WITH CORROSION RESISTANT, CHAMFERED, RIBBED WAFER HEAD SCREWS WITH A MINIMUM HEAD DIAMETER OF .4 IN. FOR NONBEARING SYSTEMS, FASTENED TO STUDS AND BOTTOM RUNNERS WITH THE UPPERMOST SCREWS PLACED 1/2 IN. TO 2 IN. BELOW THE BOTTOM EDGE OF THE LEG OF THE TOP RUNNER. HORIZONTAL JOINTS NEED NOT BE BACKED BY FRAMING. SCREWS SHALL BE MIN 1-1/4 IN. LONG AND SPACED A MAX OF 8 IN. OC. ALL VERTICAL JOINTS STAGGERED ONE STUD CAVITY FROM GYPSUM BOARD VERTICAL JOINTS ON THE OPPOSITE SIDE OF STUDS. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS ON OPPOSITE SIDES OF STUDS NEED NOT BE STAGGERED.

(9). MINERAL WOOL OR GLASS FIBER BATTS PARTIALLY OR COMPLETELY FILLING STUD CAVITY. ANY MINERAL WOOL OR GLASS FIBER BATT MINERAL BEARING THE UL CLASSIFICATION MARKING AS TO FIRE RESISTANCE.

(10). JOINT TAPE & COMPOUND - VINYL OR CASE IN, DRY OR PREMIXED JOINT COMPOUND APPLIED IN TWO COATS TO JOINTS AND SCREW HEADS OF OUTER LAYERS. PAPER TAPE, NOMINAL 2 IN. WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS OF OUTER LAYER PANELS.

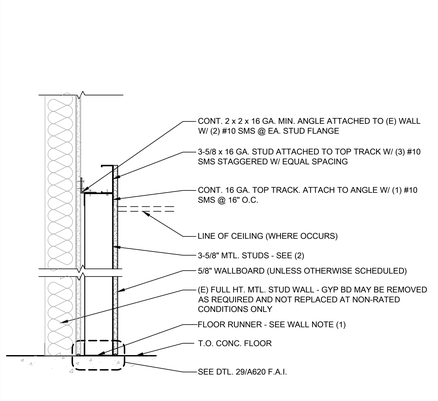
(11). JOINTS - COVERED WITH GLASS FIBER MESH TAPE AND LATEX MODIFIED PORTLAND CEMENT MORTAR OR BASECOAT, OR TYPE I ORGANIC ADHESIVE.



T1

TEMPORARY CONSTRUCTION BARRIER (1 HR.)

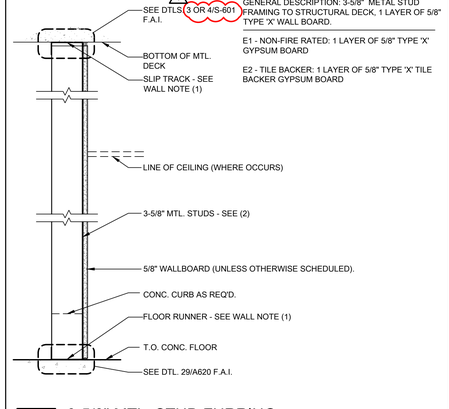
SCALE: 1 1/2" = 1'-0"



H

PARTIAL HEIGHT 3-5/8" MTL. STUD FURRING

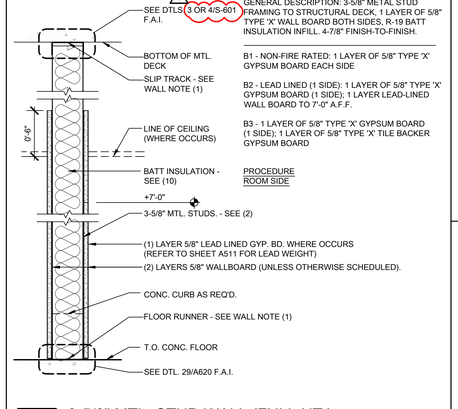
SCALE: 1 1/2" = 1'-0"



E

3-5/8" MTL. STUD FURRING

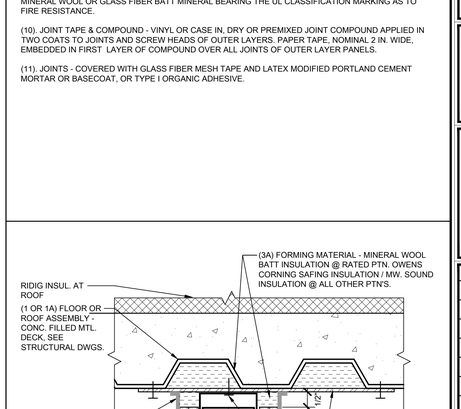
SCALE: 1 1/2" = 1'-0"



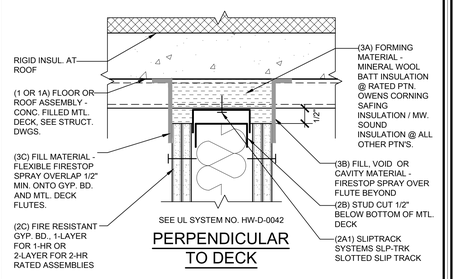
B

3-5/8" MTL. STUD WALL (FULL HT.)

SCALE: 1 1/2" = 1'-0"



PARALLEL TO DECK

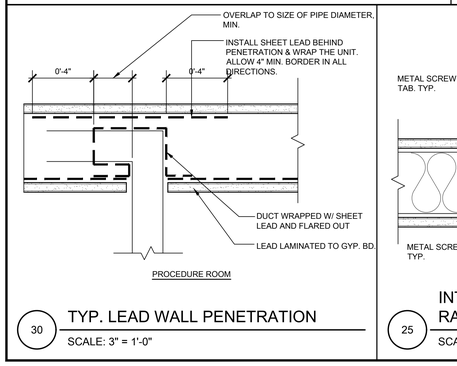


PERPENDICULAR TO DECK

4

1 HR. OR 2 HR. RATED HEAD CONDITIONS

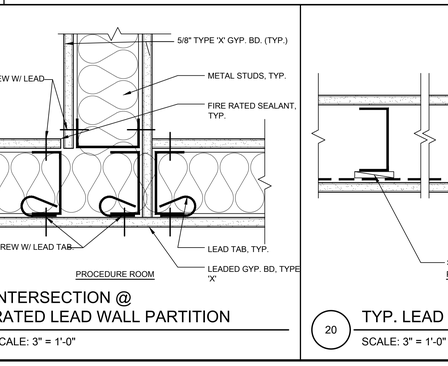
SCALE: 3" = 1'-0"



29

1 HR. OR 2 HR. RATED WALL BASE CONDITIONS

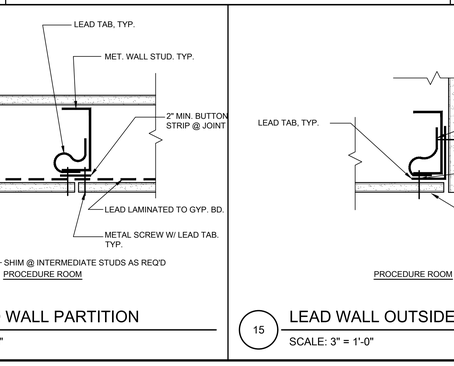
SCALE: N.T.S.



J

6" MTL. STUD WALL (FULL HT.)

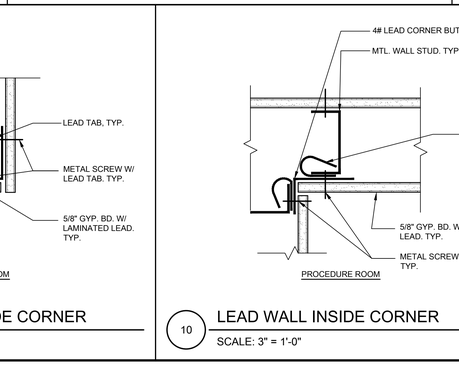
SCALE: 1 1/2" = 1'-0"



F

6" MTL. STUD FURRING

SCALE: 1 1/2" = 1'-0"



C

LEAD LINED GYP. BD. O/ EXISTING MTL. STUD WALL (FULL HT.)

SCALE: 1 1/2" = 1'-0"

30

TYP. LEAD WALL PENETRATION

SCALE: 3" = 1'-0"

25

INTERSECTION @ RATED LEAD WALL PARTITION

SCALE: 3" = 1'-0"

20

TYP. LEAD WALL PARTITION

SCALE: 3" = 1'-0"

15

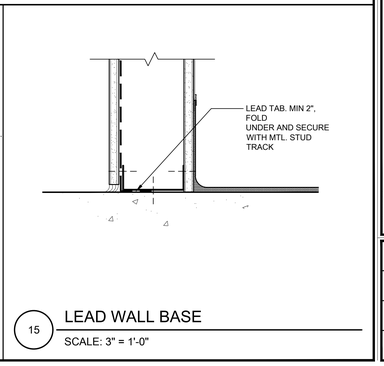
LEAD WALL OUTSIDE CORNER

SCALE: 3" = 1'-0"

10

LEAD WALL INSIDE CORNER

SCALE: 3" = 1'-0"



15

LEAD WALL BASE

SCALE: 3" = 1'-0"

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S241219-34-00
Ray Sanchez

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LICENSED ARCHITECT JOHN W. LEWIS No. C-21069 EXP. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

CONSULTANT LOGO:

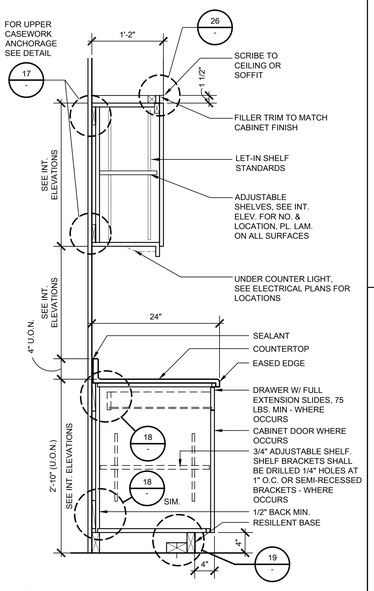
REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	10/30/2024

CONSTRUCTION DOCUMENTS

SESP 1P742 1P745 CT SCANNER REPLACEMENT

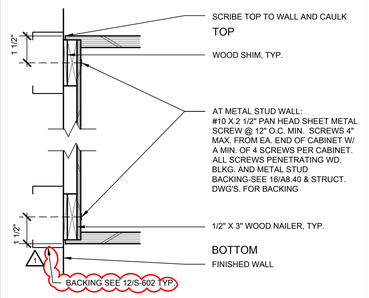
ACCOUNT NO: 9557740
OSHPD NO: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE:
SHEET TITLE: WALL DETAILS

ARCH / ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	9557740	A620
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: NLA	DATE: -	
DRAWN BY: NLA	CAD FILE: -	SHEET: - OF: -



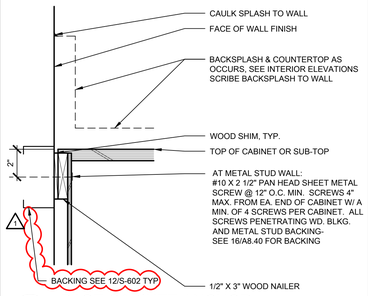
22 CABINET DETAIL

SCALE: 1" = 1'-0"



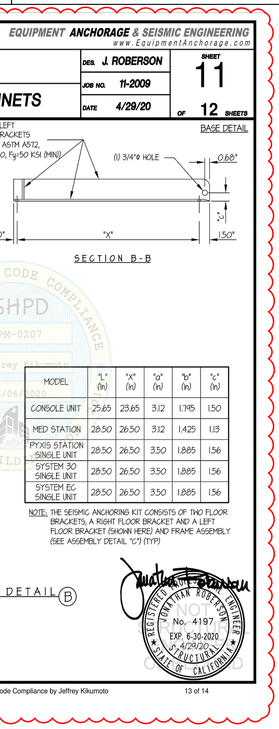
17 WALL HUNG CABINET ANCHOR

SCALE: 3" = 1'-0"

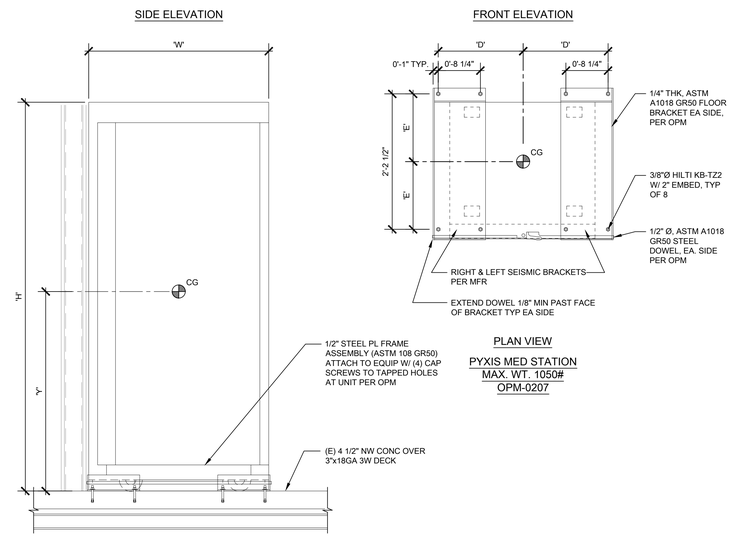


18 BASE CABINET ANCHOR

SCALE: 3" = 1'-0"

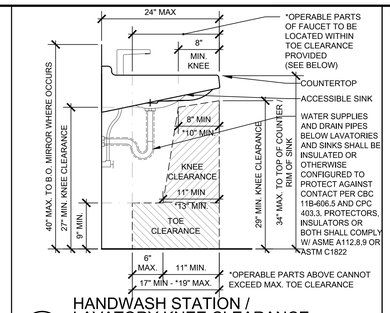


SCHEDULE						
MODEL	WEIGHT	'H'	'Y'	'W'	'D'	'E'
MED STATION	1050#	46.75"	23.38"	22.75"	10.75"	13.25"



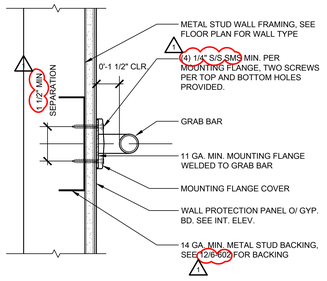
14 MED STATION DETAIL

SCALE: 1" = 1'-0"



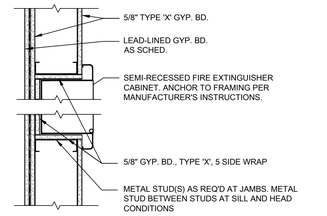
7 HANDWASH STATION / LAVATORY KNEE CLEARANCE

SCALE: 1" = 1'-0"



1 GRAB BAR MOUNTING

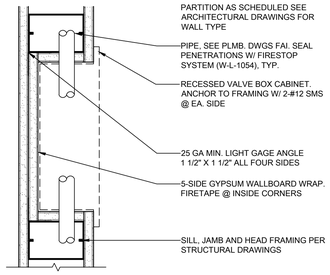
SCALE: 3" = 1'-0"



PLAN DETAIL SHOWN - HEAD AND SILL SIMILAR

2 FIRE EXTINGUISHER CABINET SECTION

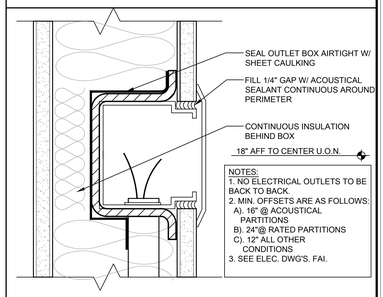
SCALE: 1 1/2" = 1'-0"



PLAN DETAIL SHOWN - HEAD AND SILL SIMILIAR

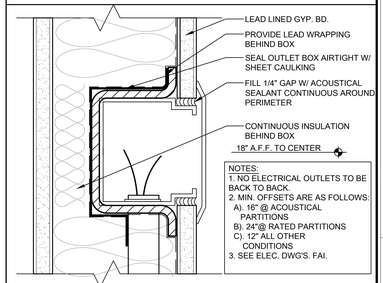
3 MEDICAL ZONE VALVE BOX

SCALE: 3" = 1'-0"



4 ELEC. OUTLETS @ PARTITIONS

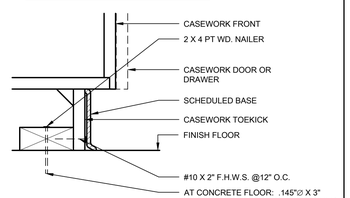
SCALE: N.T.S.



5 ELEC. OUTLETS @ LEAD-LINED PARTITIONS

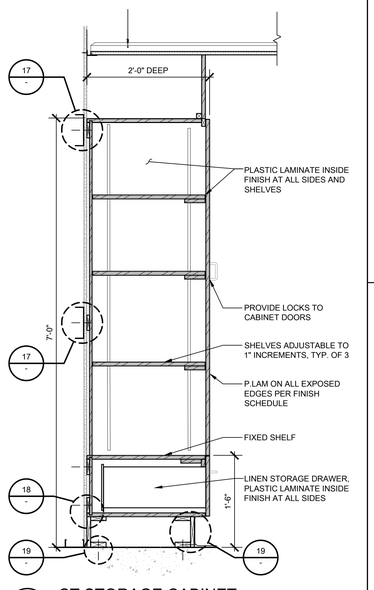
SCALE: N.T.S.

NOTE: CASEWORK IN MRI ROOM - COORDINATE ANCHORAGE W/ SHIELDING



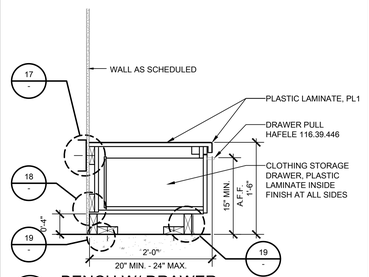
19 BASE/TALL CABINET ANCHOR

SCALE: 3" = 1'-0"



25 CT STORAGE CABINET

SCALE: 1" = 1'-0"



20 BENCH W/ DRAWER

SCALE: 1" = 1'-0"

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
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(916)734-7934
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	10/30/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO. 9557740
OSHPD NO. S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: INTERIOR & CASEWORK DETAILS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	9557740	A640
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: NLA	DATE: -	
DRAWN BY: NLA	CAD FILE: -	SHEET: - OF: -

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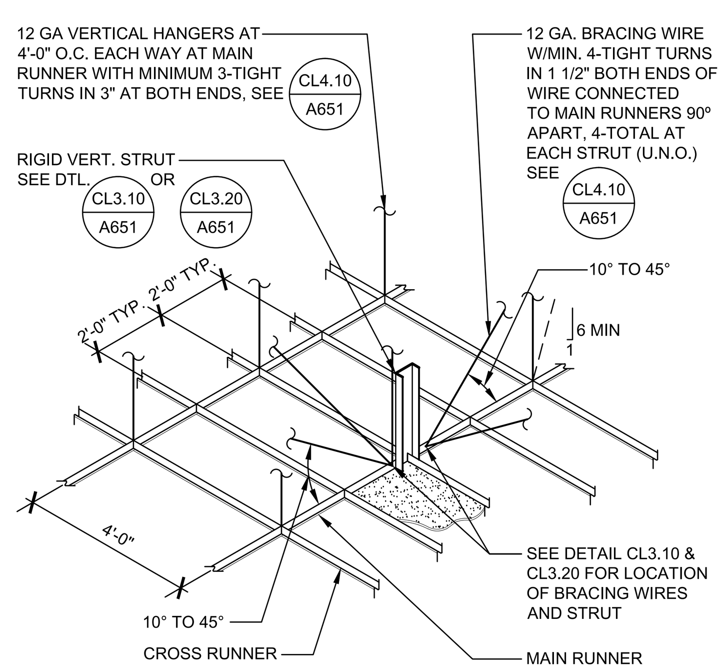


NOTES:

1. SEE SUSPENDED CEILING NOTES #13 & #14 ON CL0.02
2. STRUTS SHALL NOT REPLACE HANGER WIRES.
3. FOR CONDITIONS AT CORRIDOR SEE DRAWING NO. CL2.30

CL2.10 SUSPENDED CEILING BRACING ASSEMBLY

SCALE: N.T.S. — OPD-0002-13

EXPANSION ANCHOR GENERAL NOTES

1. ALLOWABLE STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2022 CBC SECTION 1605A.3.1.

2. ALLOWABLE STRENGTHS ARE FOR SINGLE ANCHORS WHICH MEET MIN. REQUIREMENTS IN ACCORDANCE WITH THE TABLE & SECTION BELOW.

3. MINIMUM CONCRETE STRENGTH F'C=3000 PSI.

4. EXPANSION ANCHORS INSTALLED THROUGH UPPER OR LOWER FLUTES OF METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTION BELOW.

5. STEEL DECK TO BE MIN. 20 GA. W-DECK.

6. MINIMUM CONCRETE FILL DEPTH ABOVE THE TOP OF METAL DECK IN ACCORDANCE WITH THE SECTION AND INSTALLATION CRITERIA BELOW.

7. EXPANSION ANCHORS SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND & REINFORCING PRIOR TO ANCHOR INSTALLATION.

8. EXPANSION ANCHOR INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. EXPANSION ANCHORS SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT.

9. EXPANSION ANCHORS SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORT OR REPORT FROM OTHER TESTING AGENCY ACCEPTABLE TO OSHPD.

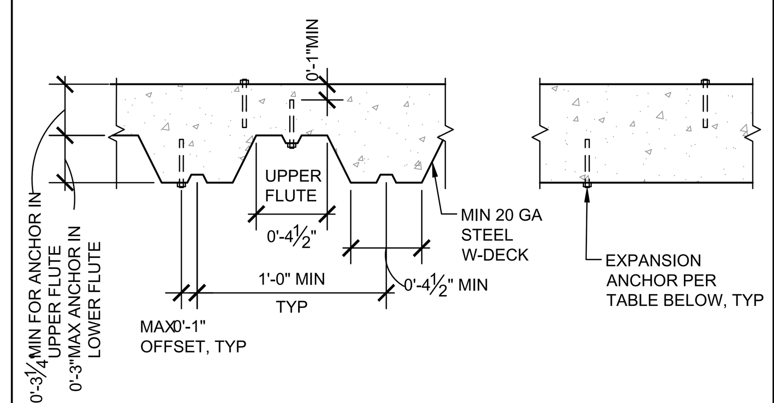
10. TESTING OF EXPANSION ANCHORS SHALL BE IN ACCORDANCE WITH 2022 CBC SECTION 1913A.7.

11. EXPANSION ANCHORS SHALL BE INSTALLED TO COMPLY WITH THE MINIMUM SLAB THICKNESS REQUIREMENTS ESTABLISHED BY THE ICC-ESR FOR THE SPECIFIED ANCHOR.

12. REFER TO NOTE 6C ON CL0.00 FOR ADDITIONAL EXPANSION ANCHOR REQUIREMENTS.

13. ALL VALUES IN TABLES ARE FOR CRACKED CONCRETE & INCLUDE REDUCTION BASED ON ACI 318-11 SECTION D.3.3.4.4 REQUIREMENTS. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS CALCULATED USING THE ICC ESRS 1917, 2427, 2502 & 3037 AND USING AN ALLOWABLE STRENGTH CONVERSION FACTOR OF 1.4.

14. ALL VALUES IN THE TABLE REFLECT ALLOWABLE STRENGTHS WITH 20% STRESS INCREASE FOR LOAD COMBINATIONS WITH OVERSTRENGTH FACTOR IN ACCORDANCE WITH ASCE 7-16.



EXPANSION ANCHORS INSTALLATION CRITERIA

	NOMINAL ANCHOR DIAMETER (IN)				
	3/8	1/2		5/8	
EFFECTIVE MIN EMBEDMENT (IN)	2	2 1/4	3 1/4	3 1/8	4
MIN MEMBER THICKNESS NWC SLAB OR BEAM ONLY (IN)	4.5	4.5	6	6	7 1/4
MIN ANCHOR SPACING (3xEMBED) (IN)	6 3/4	6 3/4	9 3/4	9 3/8	12
MIN EDGE DISTANCE (IN)	6	7	7 1/2	6 1/2	8 3/4

CL1.20 EXPANSION ANCHOR GENERAL NOTES

SCALE: 1-1/2" = 1'-0" — OPD-0002-13

EXPANSION ANCHOR ALLOWABLE STRENGTHS

TABLE 1
EXPANSION ANCHORS INSTALLED IN TO THE UNDERSIDE OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE
(f'c MIN = 3000 PSI) OVER METAL DECK

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	747	604
1/2	2 1/4	1029	610
1/2	3 1/4	1173	1086
5/8	3 1/4	1353	836
5/8	4 1/4	2477	1941

TABLE 2
EXPANSION ANCHORS INSTALLED IN TO THE TOP OF STRUCTURAL SAND-LIGHTWEIGHT CONCRETE
(f'c MIN = 3000 PSI) OVER METAL DECK

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	806	624
1/2	2 1/4	948	660

TABLE 3
EXPANSION ANCHORS INSTALLED IN NORMAL WEIGHT CONCRETE
(f'c MIN = 3000 PSI)

ANCHOR DIA. (IN)	EMBED (IN)	SHEAR (LB)	TENSION (LB)
3/8	2	1020	961
1/2	2 1/4	1580	1101
1/2	3 1/4	2591	2003
5/8	3 1/4	2579	2150
5/8	4 1/4	3772	3113

CL1.21 EXPANSION ANCHOR ALLOWABLE STRENGTHS

SCALE: N.T.S. — OPD-0002-13

POWER ACTUATED FASTENER (PAF) GENERAL NOTES
(INSTALLED IN CONCRETE OVER METAL DECK OR CONC SLAB)

1. POWER ACTUATED FASTENER (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP), SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF).

2. STRENGTHS SHALL BE COMPARED TO ALLOWABLE STRESS DESIGN (ASD) LEVEL DEMAND IN ACCORDANCE WITH THE 2022 CBC SECTION 1605A.3.1.

3. ALLOWABLE STRENGTHS ARE FOR A SINGLE FASTENER WHICH MEET REQUIREMENTS IN SECTIONS BELOW AND TABLES ON CL1.11. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE ALLOWABLE STRENGTHS LISTED IN THE ICC ESRS 1799, 2024, 2138 & 2269.

4. MINIMUM CONCRETE STRENGTH f'c = 2000 PSI FOR NORMAL WEIGHT CONCRETE AND f'c = 3000 PSI FOR ALL LIGHT WEIGTH CONCRETE UNLESS OTHERWISE NOTED.

5. POWER ACTUATED FASTENER INSTALLED THROUGH LOW FLUTES OF THE METAL DECK SHALL MEET THE REQUIREMENTS OF THE INSTALLATION CRITERIA AND SECTIONS BELOW.

6. MINIMUM EDGE DISTANCE OF 1 1/8" FROM THE EDGE OF METAL DECK WEB AND 4" FROM THE EDGE OF THE DECK.

7. STEEL DECK TO BE A MINIMUM OF 20 GA.

8. CONCRETE FILL DEPTH ABOVE THE THE OF METAL DECK SHALL BE A MINIMUM OF 3 1/4" LIGHT WEIGHT CONCRETE.

9. PAF SHALL NOT BE USED TO RESIST SEISMIC SHEAR FORCES EXCEPT AT INTERIOR NON-LOAD BEARING, NON-SHEAR WALL PARTITION WALLS (AS PERMITTED BY 2022 CBC SECTION 1908A.1.1) AND COMPONENTS EXEMPT FROM CONSTRUCTION DOCUMENT REVIEW BY 2022 CBC SECTION 1616A.1.18 (NOT PERMITTED TO TAKE SEISMIC SHEAR BY ICC-ES AC70 FOR ANY OTHER CONDITIONS). PAF SHALL NOT BE USED TO CARRY SEISMIC TENSION LOADS (EXCEPT FOR VERTICAL SEISMIC LOAD PRODUCED BY SELF WEIGHT OF THE COMPONENTS) OR IN CRACKED CONCRETE UNLESS APPROVED FOR SUCH LOADING BY OSHPD.

10. PAF SHALL NOT BE USED IN PRE-STRESSED CONCRETE UNLESS NON-DESTRUCTIVE TESTING METHODS ARE USED TO LOCATE STRAND AND REINFORCEMENT PRIOR TO FASTENER INSTALLATION.

11. PAF INSTALLATION SHALL NOT NICK OR DAMAGE EXISTING CONCRETE REINFORCEMENT. SHOULD THIS OCCUR THE RDP IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY. PAF SHALL BE INSTALLED 1" CLEAR OF EXISTING REINFORCEMENT. THIS MAY REQUIRE NON DESTRUCTIVE TESTING.

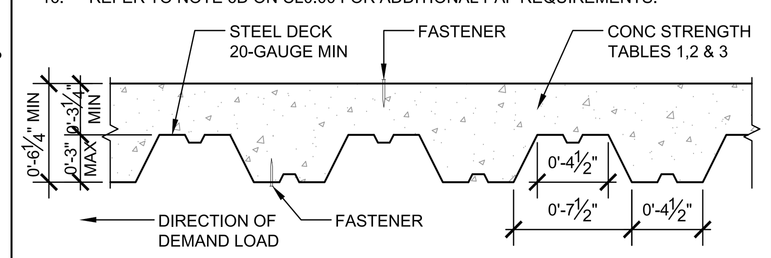
12. PAF SHALL BE INSTALLED PER CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD).

13. TESTING OF PAF SHALL BE IN ACCORDANCE WITH 2022 CBC SECTION 1913A.7. MINIMUM CONCRETE SUBSTRATE THICKNESS SHALL BE THREE TIMES THE PAF PENETRATION INTO THE CONCRETE SUBSTRATE.

14. TESTING IS NOT REQUIRED OF PAF USED TO ATTACH TRACKS OF INTERIOR NON-SHEAR WALL PARTITIONS FOR SHEAR ONLY WHERE THERE ARE AT LEAST THREE FASTENERS.

15. TOTAL ALLOWABLE LOADS IN TENSION, SHEAR OR TENSION SHEAR COMBINATIONS SHALL NOT EXCEED 90 LBS AS PERMITTED BY EXCEPTION TO ASCE 7-16.

16. REFER TO NOTE 6D ON CL0.00 FOR ADDITIONAL PAF REQUIREMENTS.



SECTION - COMPOSITE DECK

CL1.10 POWER ACTUATED FASTENER IN CONCRETE O/ MTL. DECK OR CONCRETE SLAB

SCALE: 1-1/2" = 1'-0" — OPD-0002-13

TABLE 1
POWER ACTUATED FASTENER INSTALLED IN SAND-LIGHTWEIGHT CONCRETE THROUGH METAL DECK
(f'c MIN = 3000 PSI)

NOMINAL SHANK DIAMETER (IN)	MIN EMBED (IN)	MIN SPACING (IN)	MIN EDGE DISTANCE (IN)	TENSION (LB) (SEE NOTE 15)	SHEAR (LB) (SEE NOTE 15)
0.145 MIN	1 1/4	4	4	90	90

TABLE 2
POWER ACTUATED FASTENERS INSTALLED INTO STRUCTURAL SAND-LIGHTWEIGHT CONCRETE
(f'c MIN = 3000 PSI)

NOMINAL SHANK DIAMETER (IN)	MIN EMBED (IN)	MIN SPACING (IN)	MIN EDGE DISTANCE (IN)	TENSION (LB) (SEE NOTE 15)	SHEAR (LB) (SEE NOTE 15)
0.145 MIN	1 1/4	4	4	90	90

TABLE 3
POWER ACTUATED FASTENER INSTALLED INTO NORMAL-WEIGHT CONCRETE
(f'c MIN = 2000 PSI)

NOMINAL SHANK DIAMETER (IN)	MIN EMBED (IN)	MIN SPACING (IN)	MIN EDGE DISTANCE (IN)	TENSION (LB) (SEE NOTE 15)	SHEAR (LB) (SEE NOTE 15)
0.145 MIN	1 1/4	5.1	4	90	90

CL1.11 POWER ACTUATED FASTENER IN CONCRETE O/ MTL. DECK OR CONCRETE SLAB

SCALE: 1-1/2" = 1'-0" — OPD-0002-13

12. EXPANSION JOINTS, SEISMIC SEPARATIONS, AND PENETRATIONS:

A. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS.

B. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQ. FT.

C. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE (1) INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER. SUCH FLEXIBLE SPRINKLER HOSE SHALL BE ADEQUATELY SUPPORTED FROM SOFFIT SO AS NOT TO EXCEED THE MAXIMUM TRIBUTARY WEIGHT OF THE CEILING.

13. LATERAL FORCE BRACING:
LATERAL FORCE BRACING IS REQUIRED IN ACCORDANCE WITH THIS SECTION FOR ALL CEILING AREAS, UON.

EXCEPTION: LATERAL FOR BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQ. FT. OR LESS, WHEN PERIMETER SUPPORT IN ACCORDANCE WITH ASTM E580 ARE PROVIDED AND PERIMETER WALL ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.

A. PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A STRUT AND FOUR (4) #12 GAGE BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER.

B. LATERAL-FORCE BRACING ASSEMBLIES SHALL BE SPACED IN ACCORDANCE WITH CL2.20 AND FROM EACH WALL AND AT THE EDGES OF ANY CHANGE IN ELEVATION OF THE CEILING.

C. THE SLOPE OF BRACING WIRES MAY BE FROM 10 TO 45 DEGREES BUT MAY NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND WIRES SHALL BE TAUT.

D. STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.

14 ATTACHMENT OF HANGER AND BRACING WIRES:

A. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS.

B. FASTEN #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1-1/2" INCHES.

C. HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.

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

E. HANGER WIRES SHALL NOT BE ATTACHED TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREA.

F. HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB SHALL REQUIRE PROJECT SPECIFIC DESIGN.

G. WHEN DRILLED-IN CONCRETE ANCHORS OR PAF ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 440 LBS. IN TENSION IN THE DIRECTION OF THE WIRE. PAF IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRE.

CL0.02 GENERAL NOTES PAGE 3 OF 4

SCALE: N.T.S. — OPD-0002-13

15. CEILING FIXTURES, TERMINAL, AND DEVICES:

A. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS/GRILLS, OR OTHER DEVICES (REFERRED TO ALL BY COMMON TERM FIXTURES HERE AFTER).

B. ALL FIXTURES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE.

C. ALL FIXTURES SHALL BE ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS, UNLESS INDEPENDENTLY SUPPORTED. THE ATTACHMENT DEVICE SHALL HAVE THE CAPACITY OF 100% OF FIXTURE WEIGHT ACTING IN ANY DIRECTION. A MINIMUM OF TWO ATTACHMENT DEVICES ARE REQUIRED FOR EACH FIXTURE.

D. SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM 14 GAGE. A NO. 12 GAUGE SAFETY WIRES SHALL BE ATTACHED BETWEEN THE CLAMPING DEVICE AND TO THE STRUCTURE ABOVE. IN NO CASE SHALL THE FIXTURES EXCEED THE DESIGN CAPACITY OF THE SUPPORTING MEMBERS.

E. ALL LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE ONE NO, 12 GAUGE SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.

F. ALL FIXTURES WEIGHING GREATER THAN 10 LB. BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO NO 12. GAUGE SAFETY WIRE CONNECTED FROM FIXTURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.

G. ALL FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS.

H. PENDENT-HUNG FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING NO LESS THAN NO. 9 GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT. THE CEILING SUSPENSION SYSTEM SHALL NOT PROVIDE ANY DIRECT SUPPORT.

I. ALL RECESSED OR DROP-IN FIXTURES SHALL BE SUPPORTED DIRECTLY FROM FIXTURE HOUSING TO THE STRUCTURE ABOVE WITH A MINIMUM OF TWO NO. 12 GAUGE WIRES LOCATED AT DIAGONALLY OPPOSITE CORNERS. LEVELING OR POSITIONING OF FIXTURES MAY BE PROVIDED BY CEILING GRID. FIXTURE SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW THE FIXTURE TO SEAT IN THE GRID SYSTEM. FIXTURES SHALL NOT BE SUPPORTED FROM MAIN RUNNERS OR CROSS RUNNERS IF THE WEIGHT OF THE FIXTURES CAUSES TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY OF THE CEILING SUSPENSION SYSTEM.

16. ADDITIONAL REQUIREMENTS:

A. CEILINGS THAT ARE PART OF A FIRE RATED ASSEMBLY: PROVIDE A DETAIL AND DESIGN NUMBER FOR RATED CEILING ASSEMBLIES FROM AN APPROVED TESTING AGENCY. THE COMPONENTS AND INSTALLATION DETAILS CONFORM IN EVERY RESPECT WITH THE LISTED DETAIL AND NUMBER. DETAILS SHALL CLEARLY DEPICT ALL COMPONENTS, INCLUDING INSULATION MATERIALS, FRAMING AND ATTACHMENT OF THE DESIGN SO THAT THE ASSEMBLY CAN BE CO0NSTRUCTED AND INSPECTED ACCORDINGLY. POP RIVETS, SCREWS, OR OTHER ATTACHMENTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS AND APPROVED BY APPROVED TESTING AGENCY.

B. METAL AND OTHER PANELS: METAL PANELS AND PANELS WEIGHING MORE THAN 1/2 PSF, OTHER THAN MINERAL FIBER ACOUSTICAL TILE, ARE TO BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION RUNNERS.

C. BUILDING EXIT WAYS: CEILINGS IN EXIT WAYS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 13.5.6.2.2(1) OF ASCE 7-16 AS AMENDED BY 2022 CBC SECTION 1616A.1.20. SPLICES OR INTERSECTION OF RUNNERS SHALL BE ATTACHED WITH THROUGH CONNECTORS SUCH AS POP RIVETS, SCREWS, PINS, PLATES WITH END TABS OR OTHER APPROVED CONNECTORS.

CL0.03 GENERAL NOTES PAGE 4 OF 4

SCALE: N.T.S. — OPD-0002-13

GENERAL NOTES:

1. CONSTRUCTION, WORKMANSHIP AND MATERIAL SHALL CONFIRM TO THE 2022 CALIFORNIA BUILDING STANDARDS CODE (CBSC 2022).

2. THE CONTRACTOR SHALL NOTIFY OSHPD AND THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE CONSTRUCTION DRAWINGS AND ANY OTHER PORTION OF THE CONSTRUCTION DOCUMENTS, FIELD CONDITIONS, OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPLY WITH CODE RESTRICTIONS.

3. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARD CODE, 2022 (CBSC 2022). SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS WHEREIN THE WORK WILL NOT COMPLY WITH CBSC 2022, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.

4. GALVANIZED METAL STUDS, TRACKS AND SHEET STEEL SHALL CONFORM TO ASTM A653-11 MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN SECTION A2.1 OF THE AISI S100-07/S2-10; NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENT 2 DATED 2010, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GAGE) AND LIGHTER AND MINIMUM YIELD STRENGTH OF 50 KSI FOR HEAVIER GAGES.

METAL STUDS AND TRACKS SHALL BEE OF SIZE, THICKNESS AND SECTION PROPERTIES SHOWN ON TABLES 1-1, 1-2 AND 1-3 OF THE AISI MANUAL, COLD-FORMED STEEL DESIGN, 2008 EDITION, THE RDP IN RESPONSIBLE CHARGE SHALL OBTAIN OSHPD APPROVAL FOR ANY SUBSTITUTIONS.

5. ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRNGTH OF (Fy=) 30 KSI AND MINIMUM ULTIMATE STRENGTH OF (Fu=) 48 KSI.

6. THESE OPD REFER TO FASTENER TYPE AND SIZE BUT DO NOT SPECIFY OR ENDORSE A SPECIFIC MANUFACTURER. THE RDP IN RESPONSIBLE CHARGE SHALL SELECT A MANUFACTURER AND SELECTED FASTENER CAPACITIES SHALL MATCH OR EXCEED THE STRENGTHS LISTED HEREIN. THE FOLLOWING REQUIREMENTS SHALL ALSO BE MET:

A. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C 1513-10, ASME B18.6.4-98 (R2005) AND ICC-ES AC 118 AND ALLOWABLE STRENGTH SHALL BE BASED ON INFORMATION PROVIDED IN CL1.31 AND CL1.32. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS.

B. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES. FIELD WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH 2022 CBC SECTION 1705A.2.

C. POST-INSTALLED ANCHORS (E.G. EXPANSION ANCHORS, SCREW ANCHORS AND POWER ACTUATED FASTENERS) SHALL HAVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE 2022 CBC SECTIONS 1705A.3 & 1913A.7. FOR QUALIFICATION, DESIGN AND USE OF POST-INSTALLED ANCHORS IN CONCRETE SEE THE 2022 CBC SECTIONS 1616A.1.19 AND 1908A.1.1. LISTING OF CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENER USED.

D. POWER-ACTUATED FASTENERS (PAF), POWDER DRIVER FASTENERS (PDF), POWER DRIVEN PINS (PDP) AND SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF). PAF'S SHALL SATISFY THE CURRENT AC70-ACCEPTANCE CRITERIA FOR FASTENERS POWER-DRIVEN INTO CONCRETE, STEEL AND MASONRY ELEMENTS AND THE 2022 CBC SECTION 1908A.1.1. LISTING OF CURRENT ICC ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENERS USED.

E. FOR PAF INSTALLED IN STEEL THE FASTENER PENETRATION SHALL HAVE THE ENTIRE POINTED END OF THE FASTENER DRIVEN THROUGH THE STEEL MEMBER, EXCEPT AS NOTED IN CURRENT REPORTS FROM TESTING AGENCIES ACCEPTABLE TO OSHPD.

CL0.00 GENERAL NOTES PAGE 1 OF 4

SCALE: N.T.S. — OPD-0002-13

. DESIGN CRITERIA

A. BUILDING CODE: 2022 CALIFORNIA BUILDING CODE (2022 CBC), ASCE 7-16, AISI S100-16, ASTM E580-17, C635-13a AND C636-13. FOR LOAD COMBINATIONS, ALLOWABLE STRESS DESIGN SHALL BE IN ACCORDANCE WITH 2022 CBC SECTION 1605A.3.1.

B. FASTENER CAPACITIES TABLES WERE DEVELOPED BASED ON ICC REPORTS BY SEVERAL MANUFACTURERS.

C. THE DESIGN ASSUMED THAT BUILDING ELEMENT AND SUPPORTS, TO WHICH THE COMPONENTS ADDRESSED IN THIS DOCUMENT ARE ANCHORED, HAVE SUFFICIENT CAPACITY TO CARRY THE LOADS IMPOSED BY THE COMPONENTS IN COMBINATION WITH ALL OTHER LOADS. EVALUATION OF THE CAPACITY OF THESE SUPPORTING BUILDING ELEMENTS IS BEYOND THE SCOPE OF THE OPD.

D. THIS OPD IS LIMITED TO CEILING ASSEMBLIES HAVING MAXIMUM DEAD WEIGHT OF 4 PSF, INCLUDING LIGHTING FIXTURES (LUMINARIES) AND MECHANICAL SERVICES, EACH WEIGHING LESS THAN 56 LBS AND ATTACHED TO CEILING FRAMING SYSTEM. HEAVIER SYSTEM AND THOSE SUPPORTING LATERAL FORCES FROM PARTITION WALLS ARE OUTSIDE THE SCOPE OF THIS OPD AND WILL REQUIRE PROJECT SPECIFIC DESIGN.

8. THE RDP IN RESPONSIBLE CHARGE SHALL VERIFY THE FIRE RESISTANCE AND ACOUSTICAL RATINGS FOR ALL CEILING ASSEMBLIES.

9. "CEILING WIRE" SHALL CONFORM WITH GALVANIZED SOFT ANNEALED MILD STEEL WIRE AS DEFINED IN ASTM A641 (CLASS 1 COATING) WITH 70 KSI MINIMUM TENSILE STRENGTH.

A. FOUR (4) TWISTS OF WIRE WITHIN 1.5" DEVELOPS THE ALLOWABLE LOAD FOR THE WIRE.

B. THREE (3) TWISTS WITHIN 3: MAY BE USED TO DEVELOP THE MAXIMUM 50% OF ALLOABLE LOAD.

10. SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND E580 SECTION 5.1:

A. THE CEILING GRID SYSTEM SHALL BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.

B. HANGER AND BRACING WIRES SHALL BE #12 GAGE (0.106" DIAMETER), SOFT ANNEALED, AND GALVANIZED STEEL WIRES WITH CLASS 1 COATING. THEY MAY BE USED FOR UP TO AND INCLUDING 4'-0" x 4'-0" GRID SPACING ALONG AND ATTACHED TO MAIN RUNNERS. SPLICES ARE NOT PERMITTED IN ANY HANGER WIRE.

C. MAIN RUNNERS AND CROSS RUNNERS ALONG WITH THEIR SPLICES, INTERSECTION CONNECTORS, AND EXPANSION DEVICES SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION & TENSION, IN ACCORDANCE WITH ASTM 580 SECTION 5.1.2.

11. SUSPENSION SYSTEM INSTALLATION, SHALL COMPLY WITH ASTM C636 AND E580 SECTION 5.2:

A. PROVIDES #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE -FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

B. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS, IN ACCORDANCE WITH ASTM E580 SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4" INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONAL TO THE CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.

C. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL NOT BE LESS THAN TWO (2) INCHES. USE OF ANGLES WITH SMALLER WIDTHS IN CONJUNCTION WITH PERIMETER CLIPS SHALL REQUIRE AN ALTERNATE METHOD OF COMPLIANCE WITH ADEQUATE JUSTIFICATION AND ARE OUTSIDE THE SCOPE OF THIS OPD.

D. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OF A #16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS EIGHT (8) INCHES OR LESS, THE INTERCONNECTION IS NOT REQUIRED.

CL0.01 GENERAL NOTES PAGE 2 OF 4

SCALE: N.T.S. — OPD-0002-13

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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LICENSED ARCHITECT JOHN M FLATH No. C-21560 REN. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
Facilities Design & Construction
4800 2nd Avenue Suite 3010
Sacramento, California 95817
(916)734-7024

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

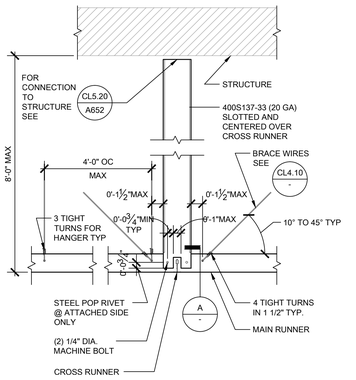
ACCOUNT NO.: 9557740
OSHPH NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: SUSPENDED CEILING DETAILS

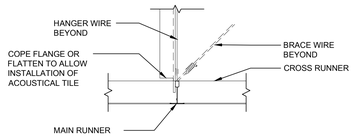
ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	9557740	A650	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	AS SHOWN		
DESIGNED BY	DATE		
NLA	-		
DRAWN BY	CAD FILE	SHEET	OF
NLA	-	-	-

STRUCTURAL CONDITION OF FLOOR / ROOF ABOVE SUSPENDED CEILING	APPLICABLE HANGER WIRE DETAIL	APPLICABLE BRACING WIRE DETAIL
CONCRETE SLAB	CL4.22	CL4.32
~~STRUCTURAL STEEL~~	~~CL4.23/A652~~	~~CL4.33 / A652~~
METAL STUD WALL	CL4.25	CL4.35/A652

HANGER AND BRACING WIRE CONNECTION MATRIX

CL4.11 — SCALE: N.T.S. — OPD-0002-13

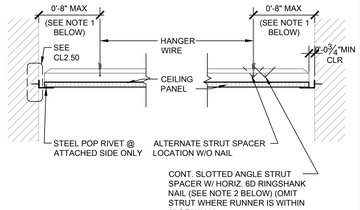




SECTION -A
SCALE: N.T.S.

SUSPENDED ACOUSTICAL CEILING - CHANNEL TYPE STRUT.

CL3.10 — SCALE: 1-1/2" = 1'-0" — OPD-0002-13



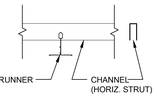
ATTACHED JOINT — FREE JOINT

1. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

2. NAILS AT ENDS OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD CENTER LINE OF SPAN OF STRUT.

3. SPACERS MAY BE SLOTTED APPROVED ANGLES OR CHANNELS WITH "DIAMOND POINTS" OF SPRING STEEL WHICH SNAP TIGHT TO PREVENT MOVEMENT OF STRUT.

4. STEEL POP RIVETS SHALL HAVE MINIMUM ALLOWABLE SHEAR STRENGTH OF 120# AND ULTIMATE SHEAR STRENGTH OF 300#.



APPROVED SPACER
SCALE: N.T.S.

CEILING PERIMETER INCLUDING NON-EXITWAY CORRIDORS

CL2.60 — SCALE: 1-1/2" = 1'-0" — OPD-0002-13

SHEET METAL SCREW (SMS) ALLOWABLE STRENGTHS (CONTINUED)

TABLE 3 - NON-PRYING CONDITION
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS WITH TWO LAYERS OF 5/8" GYP BOARD BETWEEN STEEL SURFACES.

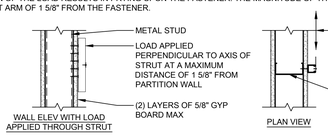
Fy (KSI)	MIL (STEEL GA)	NO. 14 0.250 IN SHEAR (LB)	NO. 14 0.250 IN TENSION (LB)	NO. 12 0.216 IN SHEAR (LB)	NO. 12 0.216 IN TENSION (LB)	NO. 10 0.190 IN SHEAR (LB)	NO. 10 0.190 IN TENSION (LB)	NO. 8 0.164 IN SHEAR (LB)	NO. 8 0.164 IN TENSION (LB)	NO. 6 0.138 IN SHEAR (LB)	NO. 6 0.138 IN TENSION (LB)
50	97 (12)	166	275	130	205	-	-	-	-	-	-
	68 (14)	166	275	130	205	100	159	-	-	-	-
	54 (16)	166	261	130	205	100	159	80	118	-	-
33	43 (18)	166	144	130	124	100	109	80	94	50	79
	33 (20)	-	-	-	-	70	84	50	72	40	61

NOTES:
1. SEE GENERAL NOTES ON CL1.30 FOR ADDITIONAL INFORMATION .
2. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. THE RDP IN RESPONSIBLE CHARGE TO PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

TABLE 4 - PRYING CONDITION (SEE DETAILS BELOW - STRUT CAN BE HORIZONTAL OR VERTICAL)
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS WITH ONE OR TWO LAYERS OF 5/8" GRP BOARD BETWEEN STEEL SURFACES AND MAXIMUM PRYING MOMENT ARM OF 1 5/8"

Fy (KSI)	MIL (STEEL GA)	NO. 14 0.250 IN SHEAR (LB)	NO. 14 0.250 IN TENSION (LB)	NO. 12 0.216 IN SHEAR (LB)	NO. 12 0.216 IN TENSION (LB)	NO. 10 0.190 IN SHEAR (LB)	NO. 10 0.190 IN TENSION (LB)	NO. 8 0.164 IN SHEAR (LB)	NO. 8 0.164 IN TENSION (LB)	NO. 6 0.138 IN SHEAR (LB)	NO. 6 0.138 IN TENSION (LB)
50	97 (12)	40	275	30	205	-	-	-	-	-	-
	68 (14)	40	275	30	205	25	159	-	-	-	-
	54 (16)	40	261	30	205	25	159	20	118	-	-
33	43 (18)	40	144	30	124	25	109	20	94	10	79
	33 (20)	-	-	-	-	15	84	15	72	10	61

NOTES:
1. SEE GENERAL NOTES ON CL1.30 FOR ADDITIONAL INFORMATION.
2. ALLOWABLE STRENGTH VALUES LISTED IN TABLE 4 ARE BASED UPON A LIMITED TEST ASSEMBLY WHERE THE ORIGIN AND DIRECTION OF THE LOAD RESULTS IN PRYING UPON THE FASTENER. THE MAGNITUDE OF THIS PRYING EFFECT SHALL BE LIMITED TO A MOMENT ARM OF 1 5/8" FROM THE FASTENER.



SHEET METAL SCREWS ALLOWABLE STRENGTHS (2 OF 2)

CL1.32 — SCALE: N.T.S. — OPD-0002-13

SHEET METAL SCREW (SMS) ALLOWABLE STRENGTHS

TABLE 1
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS.

Fy (KSI)	MIL (STEEL GA)	NO. 14 0.250 IN SHEAR (LB)	NO. 14 0.250 IN TENSION (LB)	NO. 12 0.216 IN SHEAR (LB)	NO. 12 0.216 IN TENSION (LB)	NO. 10 0.190 IN SHEAR (LB)	NO. 10 0.190 IN TENSION (LB)	NO. 8 0.164 IN SHEAR (LB)	NO. 8 0.164 IN TENSION (LB)	NO. 6 0.138 IN SHEAR (LB)	NO. 6 0.138 IN TENSION (LB)
50	97 (12)	704	275	525	205	-	-	-	-	-	-
	68 (14)	704	275	525	205	405	159	-	-	-	-
	54 (16)	613	261	525	205	405	159	303	118	-	-
33	43 (18)	302	144	280	124	263	109	244	94	165	79
	33 (20)	-	-	-	-	177	84	164	72	151	61

NOTES:
1. SEE GENERAL NOTES ON CL1.30 FOR ADDITIONAL INFORMATION .
2. WHERE ONE OR TWO LAYERS OF GYP BOARD OCCURS BETWEEN STEEL SURFACES, THE ALLOWABLE VALUES OF TABLE 2 & 3 SHALL BE USED.
3. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. THE RDP IN RESPONSIBLE CHARGE OF THE PROJECT SHALL PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

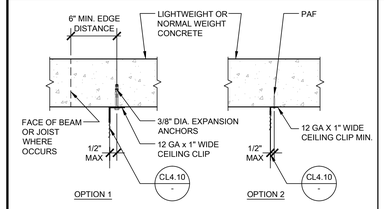
TABLE 2 - NON-PRYING CONDITION
SHEET METAL SCREW ALLOWABLE STRENGTHS FOR STEEL TO STEEL CONNECTIONS.
WITH ONE LAYER OF 5/8" GYP BOARD BETWEEN STEEL SURFACES.

Fy (KSI)	MIL (STEEL GA)	NO. 14 0.250 IN SHEAR (LB)	NO. 14 0.250 IN TENSION (LB)	NO. 12 0.216 IN SHEAR (LB)	NO. 12 0.216 IN TENSION (LB)	NO. 10 0.190 IN SHEAR (LB)	NO. 10 0.190 IN TENSION (LB)	NO. 8 0.164 IN SHEAR (LB)	NO. 8 0.164 IN TENSION (LB)	NO. 6 0.138 IN SHEAR (LB)	NO. 6 0.138 IN TENSION (LB)
50	97 (12)	226	275	180	205	-	-	-	-	-	-
	68 (14)	226	275	180	205	140	159	-	-	-	-
	54 (16)	226	261	180	205	140	159	120	118	-	-
33	43 (18)	226	144	180	124	140	109	120	94	60	79
	33 (20)	-	-	-	-	100	84	80	72	60	61

NOTES:
1. SEE GENERAL NOTES ON CL1.30 FOR ADDITIONAL INFORMATION .
2. ALLOWABLE STRENGTH VALUES DO NOT ACCOUNT FOR EFFECTS FROM PRYING. THE RDP IN RESPONSIBLE CHARGE OF THE PROJECT SHALL PROVIDE ADEQUATE BLOCKING/RESTRAINT TO PREVENT PRYING ACTION. WHERE PRYING OCCURS, THE VALUES AND CONSTRAINTS OF TABLE 4 SHALL BE USED.

SHEET METAL SCREWS ALLOWABLE STRENGTHS (1 OF 2)

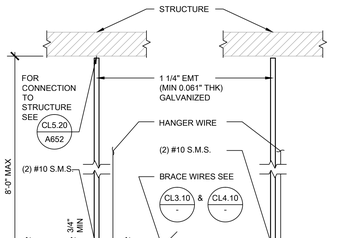
CL1.31 — SCALE: N.T.S. — OPD-0002-13



NOTES:
1. LOAD TEST IN ACCORDANCE WITH GENERAL NOTE 14(G) CL0.02 SHALL BE REQUIRED
2. PRIOR TO INSTALLATION, REINFORCING / PRESTRESSING BAR LOCATIONS SHALL BE DETERMINED BY NON-DESTRUCTIVE TESTING
3. REFER TO CL4.10 FOR ADDITIONAL DETAILS

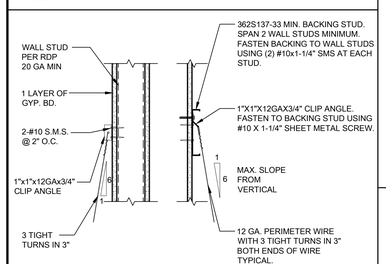
HANGER WIRE CONNECTION TO CONC. SLAB, BEAM, OR JOIST

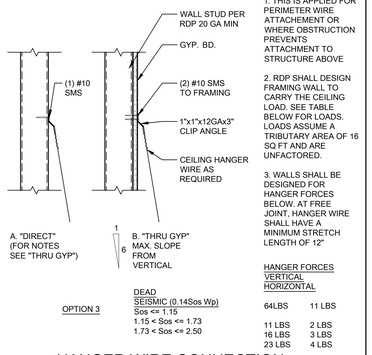
CL4.22 — SCALE: 1-1/2" = 1'-0" — OPD-0002-13



SUSPENDED ACOUSTICAL CEILING - TUBE TYPE STRUT

CL3.20 — SCALE: 3/4" = 1'-0" — OPD-0002-13





NOTES:
1. THIS IS APPLIED FOR PERIMETER WIRE ATTACHMENT OR WHERE OBSTRUCTION PREVENTS ATTACHMENT TO STRUCTURE ABOVE

2. RDP SHALL DESIGN FRAMING WALL TO CARRY THE CEILING LOAD. SEE TABLE BELOW FOR LOADS. LOADS ASSUME A TRIBUTARY AREA OF 16 SQ FT AND ARE UNFACTORED.

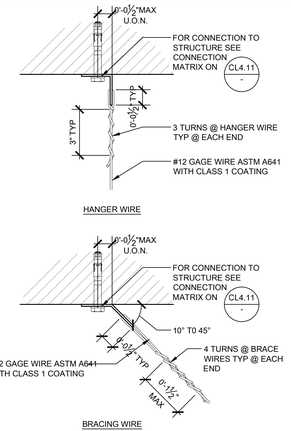
3. WALLS SHALL BE DESIGNED FOR HANGER FORCES BELOW. AT FREE JOINT, HANGER WIRE SHALL HAVE A MINIMUM STRETCH LENGTH OF 12"

HANGER FORCES

	VERTICAL	HORIZONTAL
DEAD	64LBS	11 LBS
SEISMIC (0.14Sos Wp)		
Sos <= 1.15	11 LBS	2 LBS
1.15 < Sos <= 1.73	16 LBS	3 LBS
1.73 < Sos <= 2.50	23 LBS	4 LBS

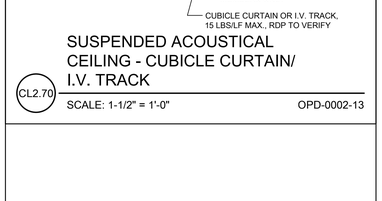
HANGER WIRE CONNECTION TO MTL. STUD WALL

CL4.25 — SCALE: 1-1/2" = 1'-0" — OPD-0002-13



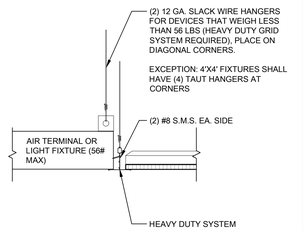
HANGER & BRACING WIRE CONNECTION - TYP. WIRE TURNS

CL4.10 — SCALE: N.T.S. — OPD-0002-12



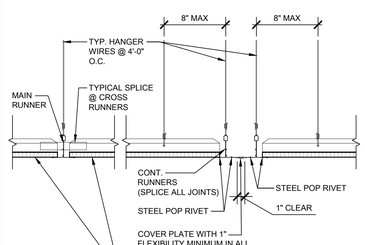
SUSPENDED ACOUSTICAL CEILING - CUBICLE CURTAIN/ I.V. TRACK

CL2.70 — SCALE: 1-1/2" = 1'-0" — OPD-0002-13



SUSPENDED ACOUSTICAL CEILING - LIGHT FIXTURES/ AIR TERMINAL SUPPORT

CL2.80 — SCALE: 1-1/2" = 1'-0" — OPD-0002-13

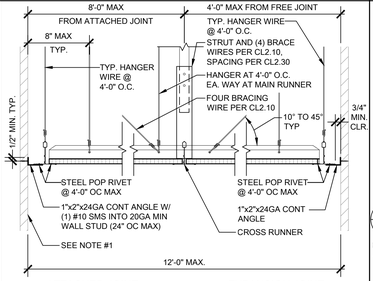


RUNNER SPLICE EXPANSION JOINT

EXPANSION JOINT AT INTERSECTION OF CORRIDORS, JUNCTIONS OF CORRIDORS AND LOBBIES, SIMILAR AREAS AND CEILING OVER 2500 SFT

SUSPENDED ACOUSTICAL CEILING - EXPANSION JOINT AT INTERSECTIONS

CL1.40 — SCALE: N.T.S. — OPD-0002-13



ACCEPTABLE EXITWAY DETAILS

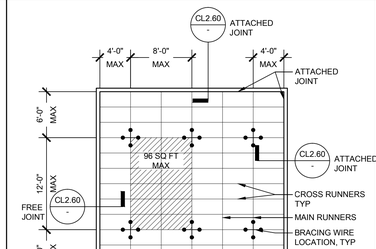
NOTES:
1. PERIMETER WALLS SHALL BE DESIGNED TO CARRY TRIBUTARY LATERAL FORCES PER TABLE BELOW. RDP TO VERIFY. RDP TO SPECIFY CONNECTION OF BACKING TO STUDS

S_{DS}	F^p
$S_{DS} \leq 1.15$	9.3 plf
$1.15 < S_{DS} \leq 1.73$	14.0 plf
$1.73 < S_{DS} \leq 2.50$	20.9 plf

2. SEISMIC BRACING WIRES AND STRUTS IN ACCORDANCE WITH PAGES CL2.20, CL2.21, AND CL2.22 SHALL BE PERMITTED IN LIEU OF DESIGNING PERIMETER WALLS FOR SEISMIC FORCES AND BRACING SYSTEM SHOWN ON PAGE CL2.30 AND THIS PAGE.
3. STEEL POP RIVET SHALL HAVE MINIMUM ALLOWABLE SHEAR STRENGTH OF 120# AND ULTIMATE SHEAR STRENGTH OF 300#.

TYP. CEILING SECTION AT EXITWAY CORRIDORS

CL2.50 — SCALE: N.T.S. — OPD-0002-13

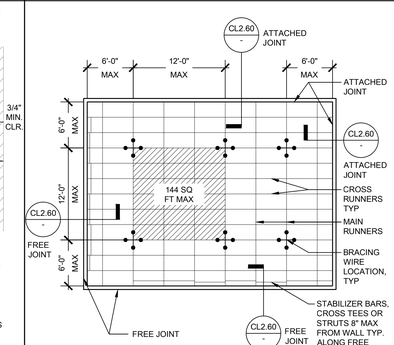


NOTES:
1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 64 SQ. FT. MAX. IN ROOMS OVER 64 SQ. FT.

2. RDP MAY ELECT TO SPECIFY TIGHTER SPACING BETWEEN BRACING WIRES AND COMP. STRUTS TO ALLOW SMALLER ANCHORS PER SCHEDULES ON SHEETS CL4.31 & CL6.60.

TYP. CEILING PLANS FOR 1.15<SDS≤1.73 AND z/h<=1.0

CL2.21 — SCALE: 1/8" = 1'-0" — OPD-0002-13



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

2. RDP MAY ELECT TO SPECIFY TIGHTER SPACING BETWEEN BRACING WIRES AND COMP. STRUTS TO ALLOW SMALLER ANCHORS PER SCHEDULES ON SHEETS CL4.31 & CL6.60/A652.

TYP. CEILING PLANS FOR SDS ≤1.15 AND z/h<=1.0

CL2.22 — SCALE: 1/8" = 1'-0" — OPD-0002-13

SHEET METAL SCREW (SMS) GENERAL NOTES

1. THE ALLOWABLE STRENGTHS ARE BASED UPON THE AISI S100-16 AND ARE LIMITED BY ACTUAL TESTED STRENGTH OF THE SCREWS IN TENSION AND SHEAR.

2. THE ALLOWABLE STRENGTHS ARE BASED UPON THE LEAST OF THE AVERAGE TESTED TENSILE AND SHEAR STRENGTHS TABULATED FROM ICC ESRS 1976, 2196, 1730, 1408, AND THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). FASTENER TYPES AND SIZES APPLY TO NON PROPRIETARY FASTENER TYPES AND SIZES, AND DOES NOT ENDORSE A SPECIFIC MANUFACTURER. WHERE PROPRIETARY FASTENERS ARE SPECIFIED, NO EXCEPTIONS ARE TAKEN TO THE USE OF MANUFACTURER SPECIFIC VALUES THAT ARE BASED UPON THE AISI S100-16, SECTION E4. ALL SCREW FASTENERS SHALL SATISFY ICC-ES AC118 ACCEPTANCE CRITERIA FOR SELF TAPPING SCREW FASTENERS.

3. TABLE 1 REPRESENTS ALLOWABLE TENSION AND SHEAR STRENGTHS FOR NON-PROPRIETARY SHEET METAL SCREWS FOR STEEL TO STEEL CONNECTIONS.

4. TABLES 2 AND 3 REPRESENT ALLOWABLE TENSION AND SHEAR STRENGTHS THAT INCORPORATE THE EFFECTS OF EITHER ONE (1) OR TWO (2) LAYERS OF 5/8" GYPSUM BOARD BETWEEN FASTENER HEAD AND CONNECTING STEEL MATERIAL.

5. IN ORDER TO USE THE VALUES IN TABLES 1, 2, AND 3, THE ATTACHMENTS SHALL BE DETAILED IN SUCH A WAY AS TO AVOID PRYING AND THE STUDS MUST BE STABILIZED WITH FULL-DEPTH BLOCKING WITH CONTINUOUS STRAPS ALONG THE FLANGES OR WITH BACKING BARS.

6. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHOULD NOT BE LESS THAN THREE (3) EXPOSED THREADS.

7. STEEL THICKNESSES JOINED ARE ASSUMED TO BE THE SAME. IF DISSIMILAR THICKNESSES ARE BEING CONNECTED, THE VALUE FOR THE THINNER PART JOINED SHALL BE USED.

8. THE MINIMUM SPACING BETWEEN CENTERS OF FASTENERS SHALL NOT BE LESS THAN 3 X FASTENER DIAMETER. THE MINIMUM EDGE DISTANCE FROM THE CENTER OF A FASTENER TO THE EDGE OF ANY PART SHALL NOT BE LESS THAN 1.5 X FASTENER DIAMETER, WHERE THE END DISTANCE IS PARALLEL TO THE FORCE ON THE FASTENER, THE NOMINAL SHEAR STRENGTH SHALL BE LIMITED BY SECTION E4.3.2 OF THE AISI S100-16.

9. GALVANIZED METAL STUDS, TRACK AND SHEET STEEL, SHALL CONFORM TO ASTM A653-09A MATERIAL (OR OTHER EQUIVALENT ASTM LISTED MATERIAL S IN THE AISI S100-16, SECTION A2.1) WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GA) AND LIGHTER, AND MINIMUM YIELD STRENGTH OF 50 KSI FOR 54 MIL (16 GA) & HEAVIER.

10. WHERE VALUES ARE NOT GIVEN, SUCH COMBINATIONS OF SCREW SIZES & MATERIAL THICKNESS ARE NOT RECOMMENDED.

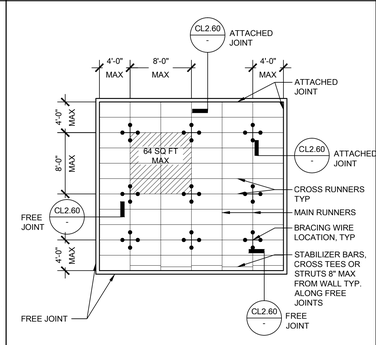
11. IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM NOT TO EXCEED 1.58", THE VALUES IN TABLE 4 MAY BE USED. IF THE ATTACHMENT DETAILS RESULT IN PRYING WITH A MOMENT ARM THAT EXCEEDS 1.58", THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THE PROJECT SHALL DETERMINE THE ALLOWABLE VALUES AND SUBMIT SUBSTANTIATION FOR THEM TO OSHPD FOR REVIEW.

12. INTERACTION OF SHEAR AND TENSION SHALL BE BASED ON $T/T' + V/V' \leq 1.0$.

13. REFER TO NOTE 6A ON CL0.00 FOR ADDITIONAL SHEET METAL SCREW REQUIREMENTS.

SHEET METAL SCREWS GENERAL NOTES

CL1.30 — SCALE: N.T.S. — OPD-0002-13



NOTES:
1. BRACING WIRES AND COMP. STRUT SHALL OCCUR AT EVERY 64 SQ. FT. MAX. IN ROOMS OVER 64 SQ. FT.

2. RDP MAY ELECT TO SPECIFY TIGHTER SPACING BETWEEN BRACING WIRES AND COMP. STRUTS TO ALLOW SMALLER ANCHORS PER SCHEDULES ON SHEETS CL4.31 & CL6.60.

TYP. CEILING PLANS FOR 1.73<SoS AND z/h<=1.0

CL2.20 — SCALE: 1/8" = 1'-0" — OPD-0002-13

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

nacht&lewis
600 Q Street, Suite 100
Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

LICENSED ARCHITECT JOHN M. LEWIS No. C-21069 REN. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

CONSULTANT LOGO:

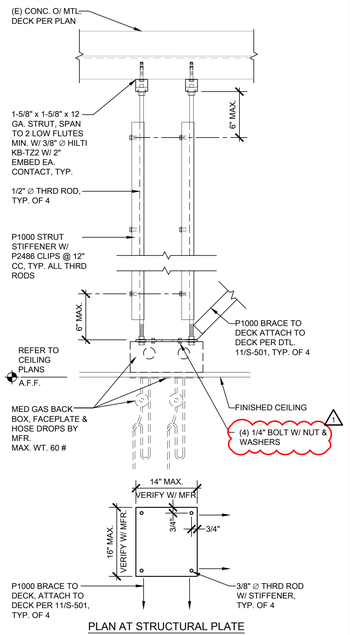
REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO: 9557740
OSHPD NO: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: SUSPENDED CEILING DETAILS

ARCH / ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	9557740	A651
UCDMC PROJECT MANAGER	SCALE	
Z. Price	AS SHOWN	
DESIGNED BY	DATE	
NLA	-	
DRAWN BY	CAD FILE	SHEET / OF
NLA	-	- / -

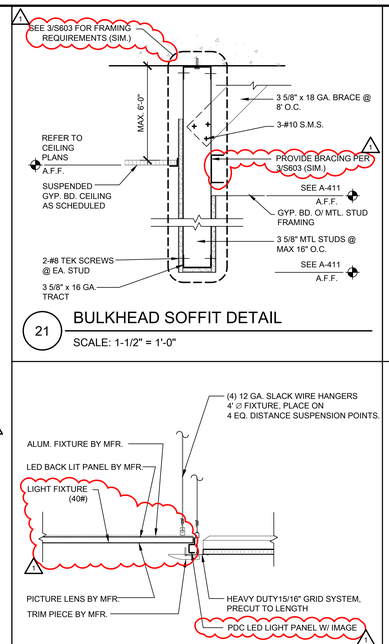
K:\Project\UCDMC\V232100 UCDHS SESP 1P74 1P45 CT Scanner Replacement\02_Design\Drawings\A651~V2321~00.dwg, 8/15/2024 9:54:26 AM, DWG To PDF ~ Lines Merge.pc3



PLAN AT STRUCTURAL PLATE

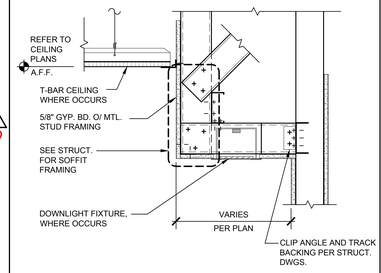
27 MED GAS HOSE REEL ATTACHMENT

SCALE: 1 1/2" = 1'-0"



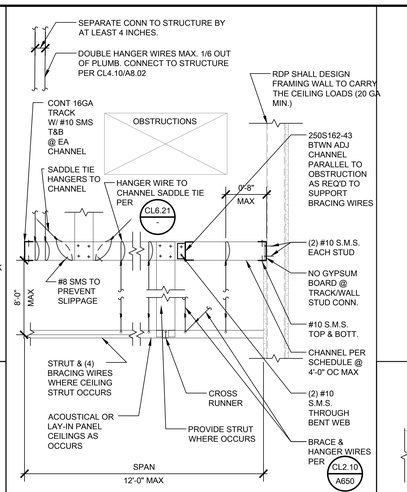
21 BULKHEAD SOFFIT DETAIL

SCALE: 1-1/2" = 1'-0"



16 TYP. GYP. BD. SOFFIT

SCALE: 1-1/2" = 1'-0"



DBL. SECTION

WALL WHERE OCCURS

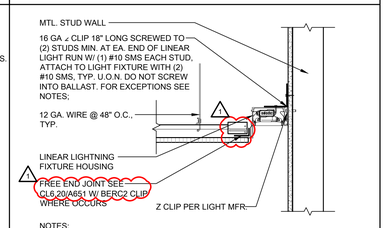
SPAN	SECTION
4'-0"	250S162-43
8'-0"	400S162-54
12'-0"	(2) 400S162-54

CL6.20 OBSTRUCTION - BRIDGE AT LARGE OFFSET CONDITION

SCALE: 1" = 1'-0" OPD-0002-13

22 SPECIALTY RECESSED LED LIGHT FIXTURE

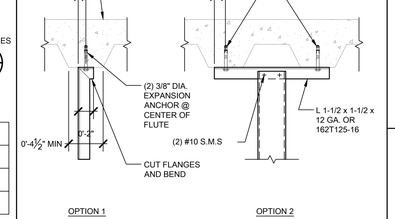
SCALE: 1-1/2" = 1'-0"



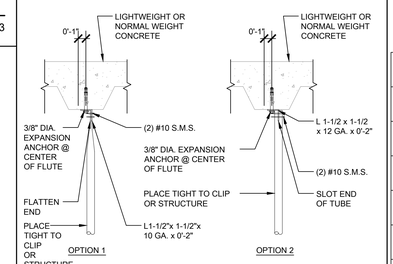
NOTES:
1. 16 GA ∠ CLIPS ARE NOT REQ'D. WHERE LINEAR LIGHTS ARE ATTACHED TO CEILING LAY-IN GRID AND ALSO LATERAL BRACING OF GRID IS INSTALLED WITHIN HALF THE WIDTH OF CORRIDOR.
2. WHERE LATERAL BRACING OF LAY-IN CEILING GRID CANNOT BE INSTALLED, LINEAR LIGHTS MUST BE ATTACHED TO CEILING GRID.
3. LINEAR LIGHT BRACING BY WALL CANNOT BE MIXED WITH BRACING BY CEILING WITHOUT SEPARATION JOINT.

17 CORRIDOR LIGHT TROUGH

SCALE: 1-1/2" = 1'-0"



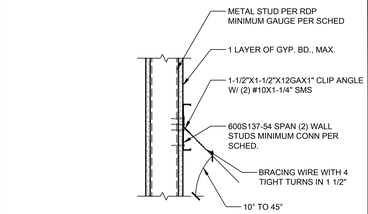
CHANNEL STRUT



TUBE STRUT

CL5.20 STRUCT CONNECTION TO CONCRETE O/ MTL. DECK

SCALE: 1-1/2" = 1'-0" OPD-0002-13



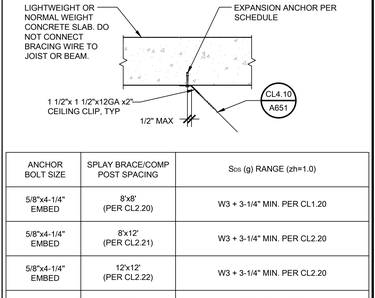
WALL STUD GAUGE	CONN TO WALL STUD	CONN TO WALL STUD ALT[3]
20 GA	(5) #10x1-1/4" SMS	(3) #10x1-1/4 SMS
18 GA	(4) #10x1-1/4" SMS	(2) #10x1-1/4" SMS

NOTES:

1. RDP SHALL DESIGN FRAMING WALL TO CARRY THE CEILING LOAD PER NOTE #2.
2. SEISMIC BRACE WIRE FORCE = 473 LBS (ASD LEVEL). BRACING WIRE SHALL HAVE A MINIMUM STRETCH LENGTH OF 12", WHEN USED AT FREE JOINT.
3. APPLIES WHERE CLIP ATTACHED DIRECTLY TO WALL STUD.

CL4.35 BRACING WIRE CONNECTION TO MTL. STUD WALL

SCALE: 1-1/2" = 1'-0" OPD-0002-13



ANCHOR BOLT SIZE	SPLAY BRACE/COMP POST SPACING	Sᴅs (g) RANGE (zh=1.0)
5/8"x4-1/4" EMBED	8'x8' (PER CL2.20)	W3 + 3-1/4" MIN. PER CL1.20
5/8"x4-1/4" EMBED	8'x12' (PER CL2.21)	W3 + 3-1/4" MIN. PER CL2.20
5/8"x4-1/4" EMBED	12'x12' (PER CL2.22)	W3 + 3-1/4" MIN. PER CL2.20
3/8"x2" EMBED[1]	8'x8' (PER CL2.20)[3]	0.76 < Sᴅs ≤ 1.86 (IN LIEU OF Sᴅs SHOWN ON CL2.20)[3]
3/8"x2" EMBED[1]	8'x12' (PER CL2.21)[3]	0.51 < Sᴅs ≤ 1.24 (IN LIEU OF Sᴅs SHOWN ON CL2.21)[3]
3/8"x2" EMBED[1]	12'x12' (PER CL2.22)[3]	0 < Sᴅs ≤ 0.83 (IN LIEU OF Sᴅs SHOWN ON CL2.22)[3]

NOTES:

1. LOAD TEST IN ACCORDANCE WITH GENERAL NOTE 14(G), CL0.02 SHALL BE REQUIRED
2. REFER TO CL4.10 FOR ADDITIONAL DETAILS
3. RDP CAN USE SMALLER EXPANSION BOLT SIZE AND SHALLOWER EMBEDMENT DEPTH SHOWN, PROVIDED VERTICAL STRUT/BRACING WIRE SPACING IS REDUCED AS SHOWN, IN LIEU OF SPACINGS SHOWN ON CL2.20, CL2.21, AND CL2.22.

CL4.32 BRACING WIRE CONNECTION TO CONCRETE SLAB, BEAM, OR JOIST

SCALE: 1-1/2" = 1'-0" OPD-0002-13

29 MED GAS HOSE REEL ATTACHMENT @ OBSTRUCTION

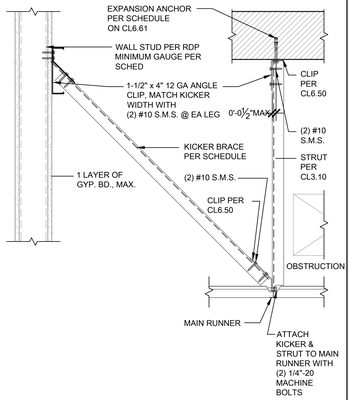
SCALE: N.T.S.

23 LINEAR LED LIGHTING

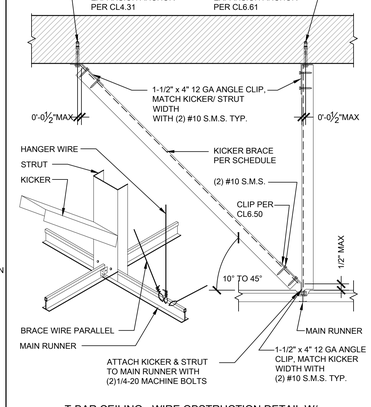
SCALE: 1-1/2" = 1'-0"

24 ALT. GYP. BD. SOFFIT

SCALE: 1-1/2" = 1'-0"



SIDE VIEW



T-BAR CEILING - WIRE OBSTRUCTION DETAIL W/ STUD KICKER, LESS BRACING WIRES, TO DECK.

KICKER SCHEDULE			
	SPAN	MATERIAL	SSMA
≤	4'-0"	18 GA	250S137-43
≤	8'-0"	18 GA	400S162-43
≤	14'-0"	18 GA	400S162-54

T-BAR CEILING - WIRE OBSTRUCTION DETAIL W/ STUD KICKER, LESS BRACING WIRES, TO WALL

WALL STUD GAUGE	CONN TO WALL STUD	CONN TO WALL STUD ALT[3]
20 GA	(5) #10x1-1/4" SMS	(3) #10x1-1/4 SMS
18 GA	(4) #10x1-1/4" SMS	(2) #10x1-1/4 SMS

NOTES:

1. KICKER BRACING IS AN ALTERNATE TO BRACING WIRES. THIS METHOD MAY BE USED IN LIEU OF OPPOSING WIRES AT ATTACHED JOINT ONLY. NOT PERMITTED AT FREE JOINT
2. RDP SHALL DESIGN FRAMED WALLS TO CARRY THE CEILING LOADS
3. APPLIES WHERE CLIP ATTACHED DIRECTLY TO WALL STUD.

CL6.60 OBSTRUCTION - STUD KICKER TO WALL

SCALE: 1-1/2" = 1'-0" OPD-0002-13

ANCHOR BOLT SIZE	SPLAY BRACE/COMP POST SPACING	SDS (g) RANGE (z/h=1.0)	DECK TYPE
5/8"x4-1/4" EMBED	8"x8" (PER CL2.20)	1.73 < SDS ≤ 2.5 (PER CL2.20)	W3 + 3 1/4" MIN PER CL1.20
5/8"x4-1/4" EMBED	8"x12" (PER CL2.21)	1.15 < SDS ≤ 1.73 (PER CL2.21)	W3 + 3 1/4" MIN PER CL1.20
5/8"x4-1/4" EMBED	12"x12" (PER CL2.22)	0 < SDS ≤ 1.15 (PER CL2.22)	W3 + 3 1/4" MIN PER CL1.20
3/8"x2" EMBED[1]	8"x8" (PER CL2.20)[3]	0.90 < SDS ≤ 1.35 (IN LIEU OF SDS SHOWN ON CL2.20)[3]	W3 + 3 1/4" MIN PER CL1.20 OR B1 1/2" + 2 1/4" MIN PER CL1.22
3/8"x2" EMBED[1]	8"x12" (PER CL2.21)[3]	0.60 < SDS ≤ 0.90 (IN LIEU OF SDS SHOWN ON CL2.21)[3]	W3 + 3 1/4" MIN PER CL1.20 OR B1 1/2" + 2 1/4" MIN PER CL1.22
3/8"x2" EMBED[1]	12"x12" (PER CL2.22)[3]	0 < SDS ≤ 0.60 (IN LIEU OF SDS SHOWN ON CL2.22)[3]	W3 + 3 1/4" MIN PER CL1.20 OR B1 1/2" + 2 1/4" MIN PER CL1.22

NOTES:
1. RDP CAN USE SMALLER EXPANSION BOLT SIZE AND SHALLOWER EMBEDMENT DEPTH SHOWN, PROVIDED VERTICAL STRUT/BRACING WIRE SPACING IS REDUCED AS SHOWN, IN LIEU OF SPACINGS SHOWN ON CL2.20, CL2.21, AND CL2.22.

CL6.61 OBSTRUCTION - STUD KICKER TO WALL

SCALE: N.T.S. OPD-0002-13

CL6.50 OBSTRUCTION - STUD KICKER TO WALL

SCALE: 1-1/2" = 1'-0" OPD-0002-13

TRAPEZE SUPPORT

CL6.10 OBSTRUCTION TRAPEZE CONDITION

SCALE: 1/4" = 1'-0" OPD-0002-13

SADDLE TIE AT MAIN RUNNER TO HANGER

CL6.21 SADDLE TIE DETAIL

SCALE: 1-1/2" = 1'-0" OPD-0002-13

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

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UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7034

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	10/30/2024

CONSTRUCTION DOCUMENTS

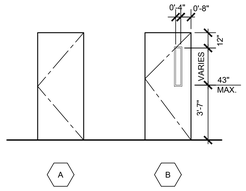
ACCOUNT NO. 9557740
OSHPD NO. S241219-34-00
BUILDING BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING 1ST FLOOR
PROJECT TITLE SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE SUSPENDED CEILING DETAILS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	9557740	A652
UCDMC PROJECT MANAGER	SCALE	
Z. Price	AS SHOWN	
DESIGNED BY	DATE	
NLA	-	
DRAWN BY	CAD FILE	SHEET / OF
NLA	-	- / -

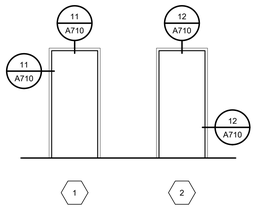
DOOR, FRAME & HARDWARE SCHEDULE (HARDWARE SETS)

DOOR NO.	ROOM NAME / LOCATION	DOOR OPENING		DOOR PANEL				DOOR FRAME			FIRE RATING	DETAILS (REF. A###)			HARDWARE SET	SIGNAGE TYPE	SPECIAL REQUIREMENTS
		WIDTH	HEIGHT	TYPE	MAT.	FINISH	GLASS TYPE	TYPE	MAT.	FINISH		HEAD	JAMB	SILL		⚠1	
D41	(E) PATIENT TOILET	3'-0"	7'-0"	A	SC	ACR	-	1	HM	FP	-			20/-	1	(E)	KICKPLATES; SINGLE USER TOILET FACILITIES TO BE PROVIDED WITH GENDER NEUTRAL SIGNAGE
D42	CT 3	PR. 4'-0" X 7'-0" 2'-0" X 7'-0"		A/B	SC	ACR	14FR/L	2	HM	FP	20 MIN.			10/-	2	8/- & 19/-	LEADED DOOR - MATCH LEAD WEIGHT OF ADJACENT WALL, ROTON HINGES
D43A	(E) READING	(E)	(E)	(E)	(E)	(E)	-	(E)	(E)	(E)	-	-	-	25/-	-	8/- & 19/-	
D43B	(E) READING	3'-0"	7'-0"	A	SC	ACR	-	1	HM	FP	-	-	-	25/-	3	8/- & 19/-	
D45	CT2	PR. 4'-0" X 7'-0" 2'-0" X 7'-0"		A/B	SC	ACR	14FR/L	2	HM	FP	20 MIN.			10/-	2	8/- & 19/-	LEADED DOOR - MATCH LEAD WEIGHT OF ADJACENT WALL, ROTON HINGES
-	DRESSING	(E)	(E)	-	-	-	-	-	-	-	-	-	-	-	-	8/- & 19/-	REPLACE SIGNAGE AS REQ'D.

DOOR TYPES:

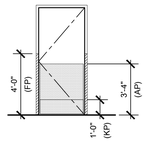


FRAME TYPES:



LEAD FRAME
MATCH LEAD WEIGHT IN
ADJACENT WALL

PROTECTION TYPES:



DOOR MATERIAL NOTES:

DOOR MATERIAL

AP = 40" ARMOR PLATE - 18 GA. ST. STL.
FP = 48" FRAME PROTECTION - .040" ONE-PIECE I.R. PLASTIC
HM = 16 GA. HOLLOW METAL - PAINT FINISH
KP = 12" KICK PLATE - 18 GA. ST. STL.
SC = FLUSH WOOD DOOR, 1 3/4" WOOD SOLID CORE

FRAME MATERIAL

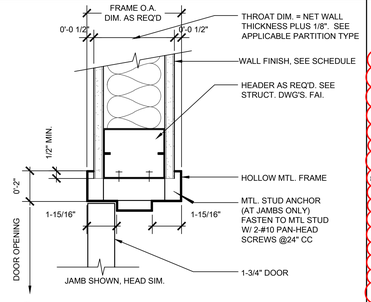
HM = HOLLOW METAL, FACTORY FINISHED PAINT

GLASS TYPES:

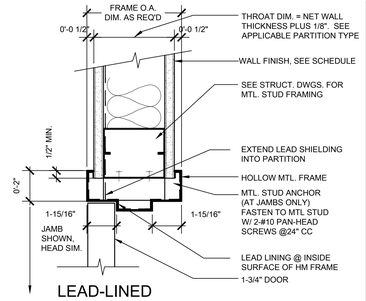
14T 1/4" TEMPERED
14FR 1/4" FIRE-RATED 20 MIN. CLEAR APPROVED FOR FIRE-RATING
14FR/L 1/4" FIRE-RATED 20 MIN. CLEAR LEAD GLASS - MATCH WEIGHT OF ADJACENT WALL

GENERAL NOTES:

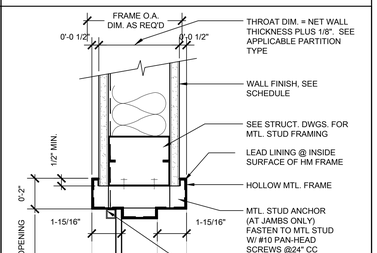
1. SEE SPECS FOR ADD'L. INFO.
2. SEE DTL. 19/A710 FOR ROOM SIGNAGE.



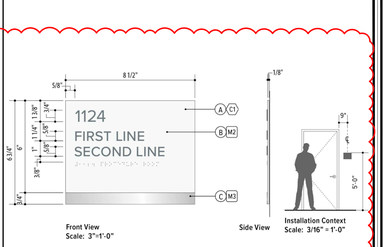
11 HOLLOW METAL DOOR HEAD/JAMB
SCALE: 3" = 1'-0"



12 LEAD-LINED HOLLOW METAL DOOR HEAD/JAMB
SCALE: 3" = 1'-0"

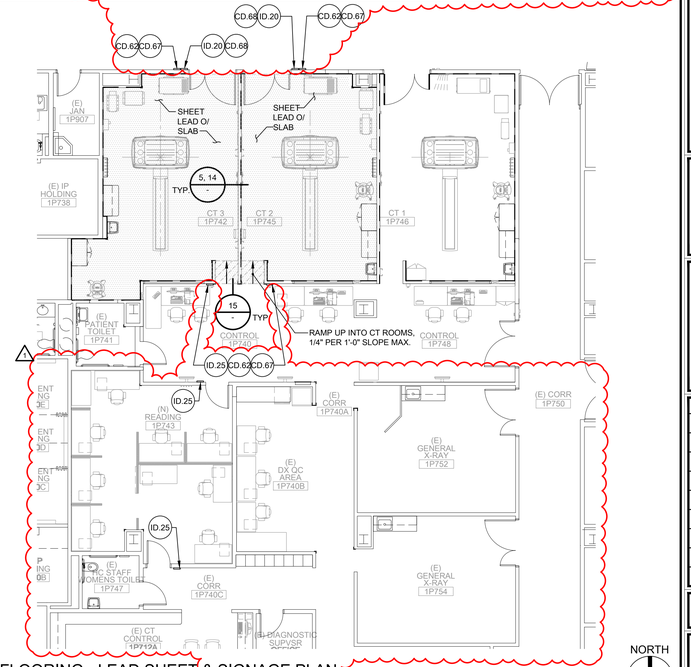


13 LEAD-LINED WINDOW HEAD/JAMB
SCALE: 3" = 1'-0"



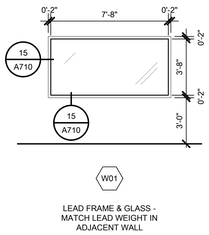
ID.25 TACTILE ROOM ID.- NON-PUBLIC ACCESS
SCALE: NTS

ID.20 TACTILE ROOM ID.- PUBLIC ACCESS
SCALE: NTS



8 FLOORING - LEAD SHEET & SIGNAGE PLAN
SCALE: 1/8" = 1'-0"

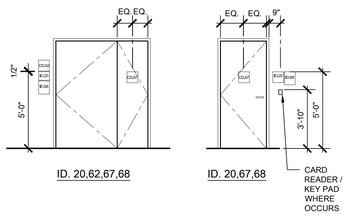
WINDOW TYPES:

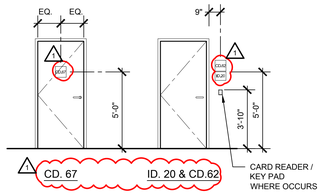


LEAD FRAME & GLASS -
MATCH LEAD WEIGHT IN
ADJACENT WALL

SIGNAGE TYPES:

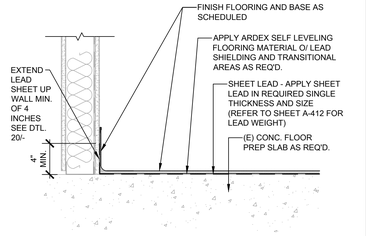
NOTE: REFER TO SECTION 10425 - UCDH MASTER SIGNAGE STANDARDS MANUAL AND GUIDELINE. SUBMIT SIGN AND PLAQUE COLORS, DESIGNS AND SIZES FOR APPROVAL. ALL SIGNAGE IS CFCI U.O.N.



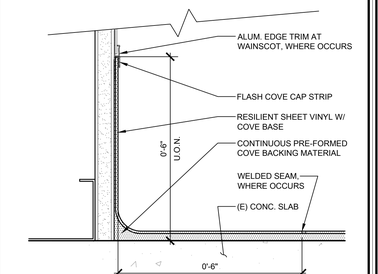


19 INTERIOR ROOM SIGN PLACEMENT
SCALE: 1/4" = 1'-0"

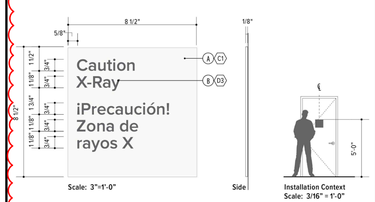
NOTE:
SHEET SIZE: REQUIRED WIDTH, LENGTH AND AREA AS SHOWN ON PLANS, MULTIPLE PIECES FOR OVERALL REQUIRED AREA COVERAGE IS ACCEPTABLE WITH PROPER OVERLAPS. ALL LEAD TO BE BONDED TIGHT AND ROLLED FLAT ON FLOOR.



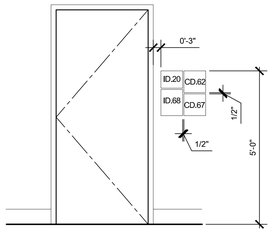
14 LEAD SHEET O/ EXISTING SLAB
SCALE: 1 1/2" = 1'-0"



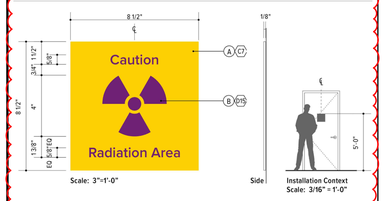
4 SHEET FLOORING FLASH COVING
SCALE: 6" = 1'-0"



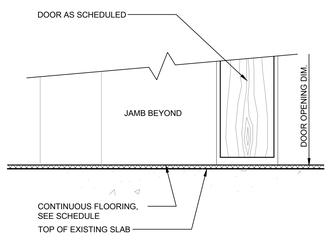
CD.67 X-RAY PLAQUE
SCALE: NTS



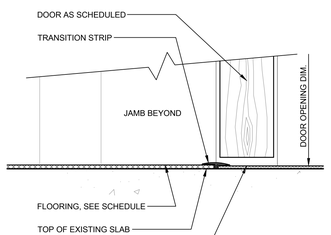
2 SIGNAGE PLACEMENT - ALTERNATE
SCALE: 1/2" = 1'-0"



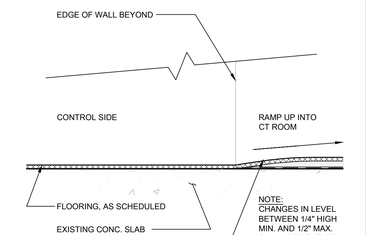
CD.62 RADIATION PLAQUE
SCALE: NTS



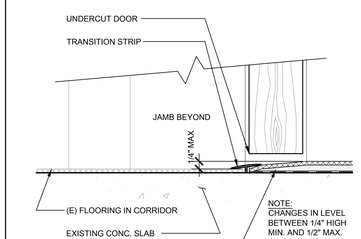
25 INTERIOR DOOR SILL @ CONTINUOUS SHEET FLOORING
SCALE: 6" = 1'-0"



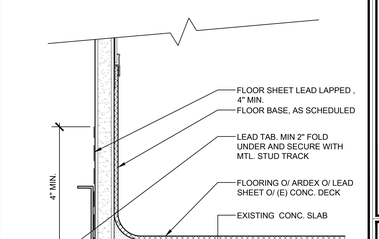
20 DOOR SILL @ TRANSITION
SCALE: 6" = 1'-0"



15 OPENING @ LEAD SHEET TRANSITION
SCALE: 6" = 1'-0"



10 DOOR SILL @ LEAD SHEET TRANS ITION
SCALE: 6" = 1'-0"



5 LEAD BASE FLASH COVING
SCALE: 6" = 1'-0"

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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LICENSED ARCHITECT JOHN M. NACHT No. C-21049 REN. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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(916)734-7934

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	11/04/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO. 9557740
OSHPD NO. S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: DOOR SCHEDULE & DETAILS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	9557740	A710
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: NLA	DATE: -	
DRAWN BY: NLA	CAD FILE: -	SHEET: - OF: -

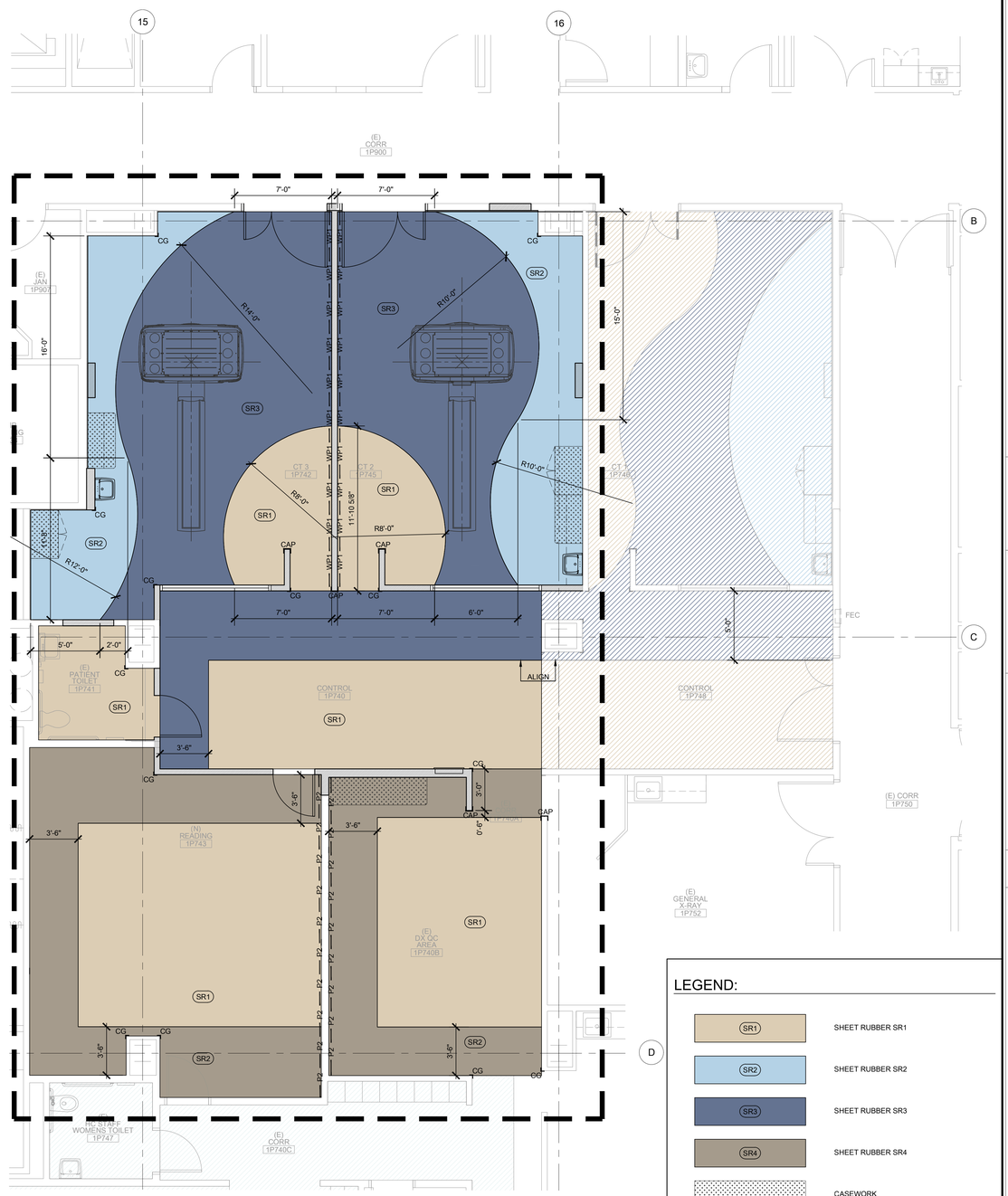
K:\Project\UCDMC\v232100 UCDHS SESP 1P74 1P45 CT Scanner Replacement\02_Design\Drawings\A811-v232100.dwg, 8/19/2024 10:00:39 AM, DWG To PDF - Lines Merge.pc3

ROOM FINISH SCHEDULE

	ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS				WAINSCOT		CEILING		REMARKS
					NORTH	EAST	SOUTH	WEST	MAT.	HGT.	MAT.	HGT.	
1ST FLR PAVILION	1P900	(E) CORRIDOR	(E)	(E)	(E)	(E)	(E)	(E)	(E)	2'-10"	(E)	(E) 9'-0"	PATCH & REPAIR / MATCH (E) FINISHES AS REQ'D.
	1P706	(E) MRI LOCKER	(E)	(E)	(E)	(E)	(E)	(E)	(E)	-	(E)	(E) 9'-0"	PATCH & REPAIR / MATCH (E) FINISHES AS REQ'D.
	1P715	(N) DRESSING	(E)	(E)	(E)	(E)	(E)	(E)	(E)	-	(E)	(E) 9'-0"	PATCH & REPAIR / MATCH (E) FINISHES AS REQ'D.
	1P740	CONTROL	SR1/SH2 SR3	RB1	P1	P1	P2	P1	WP1/ WP2	2'-10"/ 4'-6"	ACT1/ PWB	9'-0" MATCH (E)	SEE FINISH PLAN & INTERIOR ELEVS. F.A.I.
	1P740A	(E) CORRIDOR	(E)	(E)	-	P1	-	-	-	-	ACT1	9'-0" MATCH (E)	PATCH & REPAIR / MATCH (E) FINISHES AS REQ'D.
	1P740B	(E) DX/QC AREA	SR1/SR4	RB1	P1	P1	P1	P2	(E)	-	(E)	9'-0" MATCH (E)	SEE FINISH PLAN & INTERIOR ELEVS. F.A.I.; PATCH & REPAIR / MATCH (E) FINISHES AS REQ'D.
	1P741	(E) PATIENT TOILET	SR1	ICB1	P1	P1	P1	P1				(E) 8'-0"	
	1P742	CT 3	SR1/SH2 SR3	ICB1	P1	(E)	P1	P1	WP1/ WP2	2'-10"	ACT1	8'-0"	SEE FINISH PLAN & INTERIOR ELEVS. F.A.I.
	1P743	(E) READING	SR1/SR4	RB1	P1	P2	P1	P1	-	-	ACT1	9'-0" MATCH (E)	PATCH & REPAIR / MATCH (E) FINISHES AS REQ'D.
	1P745	CT 2	SR1/SH2 SR3	ICB1	P1	P1	P1	P1	WP1/ WP2	2'-10"	ACT1	8'-0"	SEE FINISH PLAN & INTERIOR ELEVS. F.A.I.

ROOM FINISH SCHEDULE LEGEND AND NOTES

SYMB	PRODUCT TYPE	MANUFACTURER	STYLE NAME	COLOR NAME/#	SIZE	REMARKS
FLOORING						
SR1	SHEET RUBBER	INTERFACE/NORA	NORAPLAN ENVIRONCARE	7051 SNOWBALL FIGHT		-
SR2	SHEET RUBBER	INTERFACE/NORA	NORAPLAN ENVIRONCARE	7044 EGG HUNT (LIGHT BLUE)		-
SR3	SHEET RUBBER	INTERFACE/NORA	NORAPLAN ENVIRONCARE	7045 ICE SKATING (DARKER BLUE)		-
SR4	SHEET RUBBER	INTERFACE/NORA	NORAPLAN ENVIRONCARE	7050 PETTING ZOO (TAUPE)		-
FLOOR BASE						
RB1	RUBBER BASE	ROPPE	6" COVED PINNACLE RUBBER BASE	P184 ALMOND	4" - 6" HIGH	MATCH (E) FINISHES & HEIGHT
ICB1	6" HIGH, INTEGRAL COVE BASE	INTERFACE/NORA	NORAPLAN ENVIRONCARE	TO MATCH ADJACENT FLOORING	6" HIGH	INTEGRAL FLASH BASE, SEE DTL. 4/A710F.A.I.
WALLS						
P1	PAINTED WALL BOARD	MATCH KELLY MOORE	YANG MIST	KM4576-1		PREVIOUS - MATCH (E) ICI EGRET
P2	PAINTED WALL BOARD	MATCH KELLY MOORE	LONDON SQUARE	KM5810		ACCENT COLOR USED ELSE WHERE IN SESP
WALL PROTECTION						
CAP	CORNER GUARD END CAP	C/S ACROVYN	PVC FREE ACROVYN 3000	#102 DESERT SAND		MATCH (E) FINISHES; SEE DTL. 30/-
CG	CORNER GUARD	C/S ACROVYN	PVC FREE ACROVYN 3000	#102 DESERT SAND		MATCH (E) FINISHES; SEE DTL. 29/-
WP1	WALL PANEL W/ BUMPER GUARDS	C/S ACROVYN	PVC FREE ACROVYN 3000	#102 DESERT SAND		MATCH (E) FINISHES; SEE DTL. 24 & 25/-
WP2	WALL PROTECTION PANEL	C/S ACROVYN	PVC FREE ACROVYN 3000	#102 DESERT SAND		
CASEWORK						
PL1	PLASTIC LAMINATE	WILSONART	MATTE -60	LIMBER MAPLE 10734		MATCH (E) FINISHES
SM1	SOLID SURFACE COUNTERTOP MATERIAL	CORIAN	SATIN FINISH	RAFFIA	1/2"	USED IN SESP MRI UPGRADES UCDH #9559380
CEILING						
ACT1	ACOUSTIC CEILING TILE	ARMSTRONG WORLD INDUSTRIES	CIRRUS TEGULAR 589	WHITE	24" x 24"	MATCH (E) FINISHES
PWB	PAINTED WALL BOARD	DUNN EDWARDS	YANG MIST	KM4576-1		MATCH KELLY MOORE



1 FLOOR FINISH PLAN
SCALE: 1/4" = 1'-0"

NORTH

LEGEND:

- SR1 — SHEET RUBBER SR1
- SR2 — SHEET RUBBER SR2
- SR3 — SHEET RUBBER SR3
- SR4 — SHEET RUBBER SR4
- CASEWORK
- P2 — P2 — P2 — P2 - ACCENT PAINT WALL
- WP1 — WP1 — WP1 — WALL BUMPERS
- CG — CORNER GUARD
- CAP — END CAP
- AREA OF WORK

GENERAL NOTES (CBC 1224.4.11):

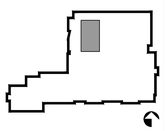
1. FLOOR FINISHES SHALL BE SMOOTH, WATERPROOF AND DURABLE.
2. THE MATERIAL AND TEXTURES OF BASES AND THE INSTALLATION THEREOF SHALL BE SUCH TO MINIMIZE DUST-CATCHING SURFACES, MOISTURE, INFILTRATION AND HARBORING OF VERMIN.
3. WALL BASES IN, OPERATING ROOMS, EMERGENCY OPERATING ROOMS, CAST ROOMS, SPECIAL PROCEDURE ROOMS AND OTHER AREAS WHICH ARE SUBJECT TO WET CLEANING METHODS SHALL BE INTEGRAL AND COVED WITH THE FLOOR, AND CONSTRUCTED WITHOUT VOIDS AT THE INTERSECTION OF FLOOR AND WALL SURFACES.
4. INTERIOR WALL FINISHES SHALL BE SMOOTH, WASHABLE AND DURABLE.
5. CEILING FINISHES SHALL BE PIN PERFORATED, FINE FISSURED, OR LIGHTLY TEXTURED IN COMPLIANCE WITH CBC TABLE 1224.1.

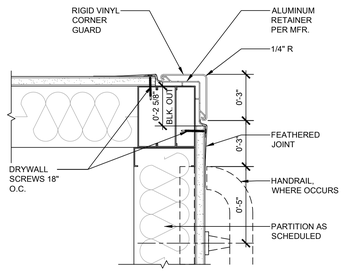
MINIMUM MATERIAL SPECIFICATIONS
(FOR INTERIOR FINISHES IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM DESIGNED IN ACCORDANCE WITH SECTION 903.1.1 OR 903.1.2 OF THE 2022 CBC)

FLOORING MATERIALS:
CLASS II OR BETTER MATERIALS COMPLYING WITH ASTM STANDARD E 648, AND HAVING A SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450 PER ASTM E662.

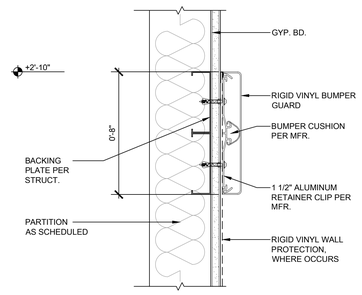
INTERIOR WALL AND CEILING FINISH MATERIALS:
INTERIOR WALL AND FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

KEYPLAN

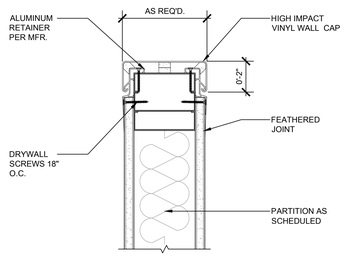




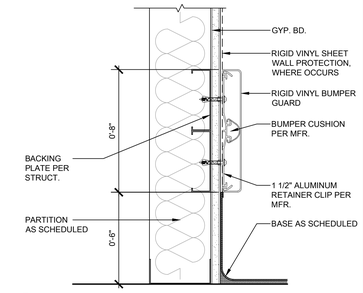
29 FLUSH CORNER GUARD
SCALE: 3" = 1'-0"



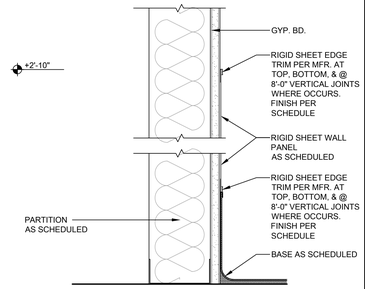
24 UPPER CRASH RAIL
SCALE: 3" = 1'-0"



30 WALL END CAP / GUARD
SCALE: 3" = 1'-0"



25 LOW CRASH RAIL
SCALE: 3" = 1'-0"



20 RIGID SHEET WALL PROTECTION
SCALE: 3" = 1'-0"

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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LICENSED ARCHITECT JOHN M. NACHT No. C-21109 EXP. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
CDPH NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: FINISH SCHEDULE & PLANS

ARCH \ ENGR	FD&C JOB NO.	SHEET NO.	
J. Flath	9557740	A811	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	AS SHOWN		
DESIGNED BY	DATE		
NLA	-		
DRAWN BY	CAD FILE	SHEET	OF
NLA	-	-	-

GE EQUIPMENT

CT 3 - RM 1P742 (GE REVOLUTION APEX ELITE CT SCAN)

A	GE SUPPLIED	D	AVAILABLE FROM GE (NOT SUPPLIED)	
B	GE SUPPLIED / CONTRACTOR INSTALLED	E	EXISTING / REINSTALLED	
C	CONTRACTOR / CUSTOMER SUPPLIED AND INSTALLED	-		

BY	ITEM #	DESCRIPTION	ANCHORAGE DETAILS	MAX HEAT OUTPUT (btu)	WEIGHT (lbs)
A	1	GANTRY - OSP-0394, MODEL # 5590000-23	1/S-501	27110	5901
A	2	NG-2000V TABLE - OSP-0394, MODEL # 5765282	2/S-501	-	1477
A	3	AUTO PATIENT POSITIONING DEPTH CAMERA	9/S-501	-	7
B	4	MAIN DISCONNECT PANEL (MDP)	6/S-501	-	90
A	5	PARTIAL UPS 14.4 KVA	8/S-501	3003	775
A	6	POWER DISTRIBUTION UNIT (NGPDU-91) - OSP-0394, MODEL # 2326492-91	3/S-501	1201	933
A	7	SYSTEM CABINET IV - OSP-0394, MODEL # 6164000	7/S-501	10577	410
A	8	ULRICH CT MOTION INJECTOR ON PEDESTAL	-	-	174
A	9	ULRICH CT MOTION INJECTOR CONTROL	-	-	9
A	10	OPEN CONSOLE	-	5118	106

MINIMUM OPENING FOR EQUIPMENT DELIVERY IS 46" x78"
CONTINGENT ON A 96" CORRIDOR WIDTH

CT 2 - RM 1P746 (GE REVOLUTION APEX ELITE CT SCAN)

A	GE SUPPLIED	D	AVAILABLE FROM GE (NOT SUPPLIED)	
B	GE SUPPLIED / CONTRACTOR INSTALLED	E	EXISTING / REINSTALLED	
C	CONTRACTOR / CUSTOMER SUPPLIED AND INSTALLED	-		

BY	ITEM #	DESCRIPTION	ANCHORAGE DETAILS	MAX HEAT OUTPUT (btu)	WEIGHT (lbs)
A	1	GANTRY - OSP-0394, MODEL # 5590000-23	1/S-501	27110	5901
A	2	NG-2000V TABLE - OSP-0394, MODEL # 5765282	2/S-501	-	1477
A	3	AUTO PATIENT POSITIONING DEPTH CAMERA	9/S-501	-	7
B	4	MAIN DISCONNECT PANEL (MDP)	6/S-501	-	90
A	5	PARTIAL UPS 14.4 KVA	8/S-501	3003	775
A	6	POWER DISTRIBUTION UNIT (NGPDU-91) - OSP-0394, MODEL # 2326492-91	3/S-501	1201	933
A	7	SYSTEM CABINET IV - OSP-0394, MODEL # 6164000	7/S-501	10577	410
A	8	ULRICH CT MOTION INJECTOR ON PEDESTAL	-	-	174
A	9	ULRICH CT MOTION INJECTOR CONTROL	-	-	9
A	10	OPEN CONSOLE	-	5118	106

MINIMUM OPENING FOR EQUIPMENT DELIVERY IS 46" x78"
CONTINGENT ON A 96" CORRIDOR WIDTH

ANCILLARY EQUIPMENT

ROOM #	ITEM I.D.	DESCRIPTION	MANUFACTURER	MOUNTING	FURNISHED BY	INSTALLED BY	Item Quantity	WEIGHT (lbs.)	DIMENSIONS (W" x D" x H")	STRUCT	ELEC	MECH./ PLUMB.	E POWER
CT Exam Room	1P742	ALL0000	Allowance: Patient Experience	03-Movable Non-Electrical	Contractor	Contractor	1						
CT Exam Room	1P742	APR0000	Apron: Lead	03-Movable Non-Electrical	Owner	Owner	2						
CT Exam Room	1P742	BRD0305	Board: Patient Transfer Device	AliMed, Inc.	03-Movable Non-Electrical	Owner	Owner	3						
CT Exam Room	1P742	BRK0555	Bracket: Patient Transfer Device, Wall Mount	AliMed, Inc.	01-Fixed Equipment	Owner	Contractor	1	8	32 x 1 x 5.5	12/S-602			
CT Exam Room	1P742	CLK0284	Clock: Analog, Wall	Grainger	01-Fixed Equipment	Owner	Owner	1	1.45	10 x 1.625 x 10				
CT Exam Room	1P742	CTX0171	CT Scanner: Multi-Slice, 64-320 Slice	GE Healthcare - Imaging Systems	01-Fixed Equipment	Owner	Vendor	1			1,2 & 9/ 5-501	X		
CT Exam Room	1P742	CWA0161	Cabinet, Warming: Dual, Freestanding	STERIS Corporation - Healthcare	02-Movable Electrical	Owner	Contractor	1	381	30 x 27.125 x 74.75	3/S- 502	X		
CT Exam Room	1P742	DIS0399	Disposal, Sharps: Wall Mount	Stericycle	01-Fixed Equipment	Owner	Contractor	1	4	13.6 x 7.8 x 7.1				
CT Control Room	1P742	DSP0153	Dispenser: Hand Sanitizer, Wall Mount	GOJO Industries	01-Fixed Equipment	Owner	Contractor	1	1	5.98 x 3.98 x 10.51				
CT Exam Room	1P742	DSP0153	Dispenser: Hand Sanitizer, Wall Mount	GOJO Industries	01-Fixed Equipment	Owner	Contractor	4	1	5.98 x 3.98 x 10.51				
CT Exam Room	1P742	DSP1039	Dispenser: Hand Sanitizer, Soap, Lotion Wall Mount	Ecolab Healthcare North America	01-Fixed Equipment	Owner	Contractor	1	2	6.12 x 3.97 x 11.1				
CT Exam Room	1P742	DSP-CFCED	Dispenser: Paper Towel, Surface Mount	Essity Professional Hygiene North America LLC - DO NOT USE, USE TORK USA	01-Fixed Equipment	Owner	Contractor	1		NA				
CT Exam Room	1P742	EQS-C26D8	Stand, Equipment: Monitor	Philips Healthcare - Monitoring Systems	03-Movable Non-Electrical	Owner	Owner	1						
CT Exam Room	1P742	FLW0304	Flowmeter: Oxygen	Genstar Technologies Company, Inc.	03-Movable Non-Electrical	Owner	Owner	2						
CT Exam Room	1P742	FLW0305	Flowmeter: Air	Genstar Technologies Company, Inc.	03-Movable Non-Electrical	Owner	Owner	2						
CT Exam Room	1P742	GLV0137	Dispenser, Glove: Triple Box	Bowman Dispensers	01-Fixed Equipment	Owner	Contractor	3	1.4	17.08 x 4.22 x 10.11				
CT Control Room	1P742	GLV0350	Dispenser, Glove: Triple Box	MarketLab, Inc	01-Fixed Equipment	Owner	Contractor	1	3	10.125 x 4.125 x 16				
CT Exam Room	1P742	HAM0115	Hamper: Linen	Rubbermaid Commercial Products	03-Movable Non-Electrical	Owner	Owner	1						
CT Exam Room	1P742	INJ0069	Injector, Contrast Media: Mobile	Ulrich Medical USA Inc.	02-Movable Electrical	Owner	Owner	1	174.08	23.39 x 25.39 x 45.08		X		
CT Exam Room	1P742	IVS0011	Stand, IV: Stainless Steel	Pedigo Products, Inc	03-Movable Non-Electrical	Owner	Owner	2						
CT Exam Room	1P742	MGS0027	Medical Gas System: Hose Reel	Hospital Systems, Inc.	01-Fixed Equipment	Owner	Contractor	2		13.5 x 8 x 4	27,28/ A652	X	X	X
CT Exam Room	1P742	MON0725	Monitor, Physiologic: Bedside	Philips Healthcare - Monitoring Systems	02-Movable Electrical	Owner	Owner	1	13	13 x 7.25 x 11.5		X		
CT Exam Room	1P742	MTR0498	Monitor, Video: 26 - 32 inch, Medical Grade	Sony Medical Systems	02-Movable Electrical	Owner	Vendor	1	26.1	27.75 x 3.125 x 18.875	5/S-501	X		
CT Exam Room	1P742	PRC1225	Cart, Procedure: Isolation	LogiQuip, LLC	03-Movable Non-Electrical	Owner	Owner	3						
CT Exam Room	1P742	RCK-B93F9	Rack: Apron, Wall Mount	MXR Imaging	01-Fixed Equipment	Owner	Contractor	1						
CT Exam Room	1P742	REG0486	Regulator: Suction, Intermittent/Continuous	Genstar Technologies Company, Inc.	03-Movable Non-Electrical	Owner	Owner	2						
CT Control Room	1P742	WST0081	Waste Can: Step-On	Rubbermaid Commercial Products	03-Movable Non-Electrical	Owner	Owner	1						
CT Exam Room	1P742	WST0406	Waste Can: Step-On	Rubbermaid Commercial Products	03-Movable Non-Electrical	Owner	Owner	2						
CT Exam Room	1P742	WST0751	Waste Can: Bio-Hazardous	Rubbermaid Commercial Products	03-Movable Non-Electrical	Owner	Owner	1						
CT Exam Room	1P745	ALL0000	Allowance: Patient Experience		03-Movable Non-Electrical	Contractor	Contractor	1						
CT Exam Room	1P745	APR0000	Apron: Lead		03-Movable Non-Electrical	Owner	Owner	2						
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CT Exam Room	1P745	CLK0284	Clock: Analog, Wall	Grainger	01-Fixed Equipment	Owner	Owner	1	1.45	10 x 1.625 x 10				
CT Exam Room	1P745	CTX0171	CT Scanner: Multi-Slice, 64-320 Slice	GE Healthcare - Imaging Systems	01-Fixed Equipment	Owner	Vendor	1			1,2 & 9/ 5-501	X		
CT Exam Room	1P745	CWA0161	Cabinet, Warming: Dual, Freestanding	STERIS Corporation - Healthcare	02-Movable Electrical	Owner	Contractor	1	381	30 x 27.125 x 74.75	3/S- 502	X		
CT Exam Room	1P745	DIS0399	Disposal, Sharps: Wall Mount	Stericycle	01-Fixed Equipment	Owner	Contractor	1	4	13.6 x 7.8 x 7.1				
CT Control Room	1P745	DSP0153	Dispenser: Hand Sanitizer, Wall Mount	GOJO Industries	01-Fixed Equipment	Owner	Contractor	1	1	5.98 x 3.98 x 10.51				
CT Exam Room	1P745	DSP0153	Dispenser: Hand Sanitizer, Wall Mount	GOJO Industries	01-Fixed Equipment	Owner	Contractor	4	1	5.98 x 3.98 x 10.51				
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CT Exam Room	1P745	FLW0304	Flowmeter: Oxygen	Genstar Technologies Company, Inc.	03-Movable Non-Electrical	Owner	Owner	2						
CT Exam Room	1P745	FLW0305	Flowmeter: Air	Genstar Technologies Company, Inc.	03-Movable Non-Electrical	Owner	Owner	2						
CT Exam Room	1P745	GLV0137	Dispenser, Glove: Triple Box	Bowman Dispensers	01-Fixed Equipment	Owner	Contractor	3	1.4	17.08 x 4.22 x 10.11				
CT Control Room	1P745	GLV0350	Dispenser, Glove: Triple Box	MarketLab, Inc	01-Fixed Equipment	Owner	Contractor	1	3	10.125 x 4.125 x 16				
CT Exam Room	1P745	HAM0115	Hamper: Linen	Rubbermaid Commercial Products	03-Movable Non-Electrical	Owner	Owner	1						
CT Exam Room	1P745	INJ0069	Injector, Contrast Media: Mobile	Ulrich Medical USA Inc.	02-Movable Electrical	Owner	Owner	1	174.08	23.39 x 25.39 x 45.08		X		
CT Exam Room	1P745	IVS0011	Stand, IV: Stainless Steel	Pedigo Products, Inc	03-Movable Non-Electrical	Owner	Owner	2						
CT Exam Room	1P745	MGS0027	Medical Gas System: Hose Reel	Hospital Systems, Inc.	01-Fixed Equipment	Owner	Contractor	2		13.5 x 8 x 4	27,28/ A652	X	X	X
CT Exam Room	1P745	MON0725	Monitor, Physiologic: Bedside	Philips Healthcare - Monitoring Systems	02-Movable Electrical	Owner	Owner	1	13	13 x 7.25 x 11.5		X		
CT Exam Room	1P745	MTR0498	Monitor, Video: 26 - 32 inch, Medical Grade	Sony Medical Systems	02-Movable Electrical	Owner	Vendor	1	26.1	27.75 x 3.125 x 18.875	5/S-501	X		
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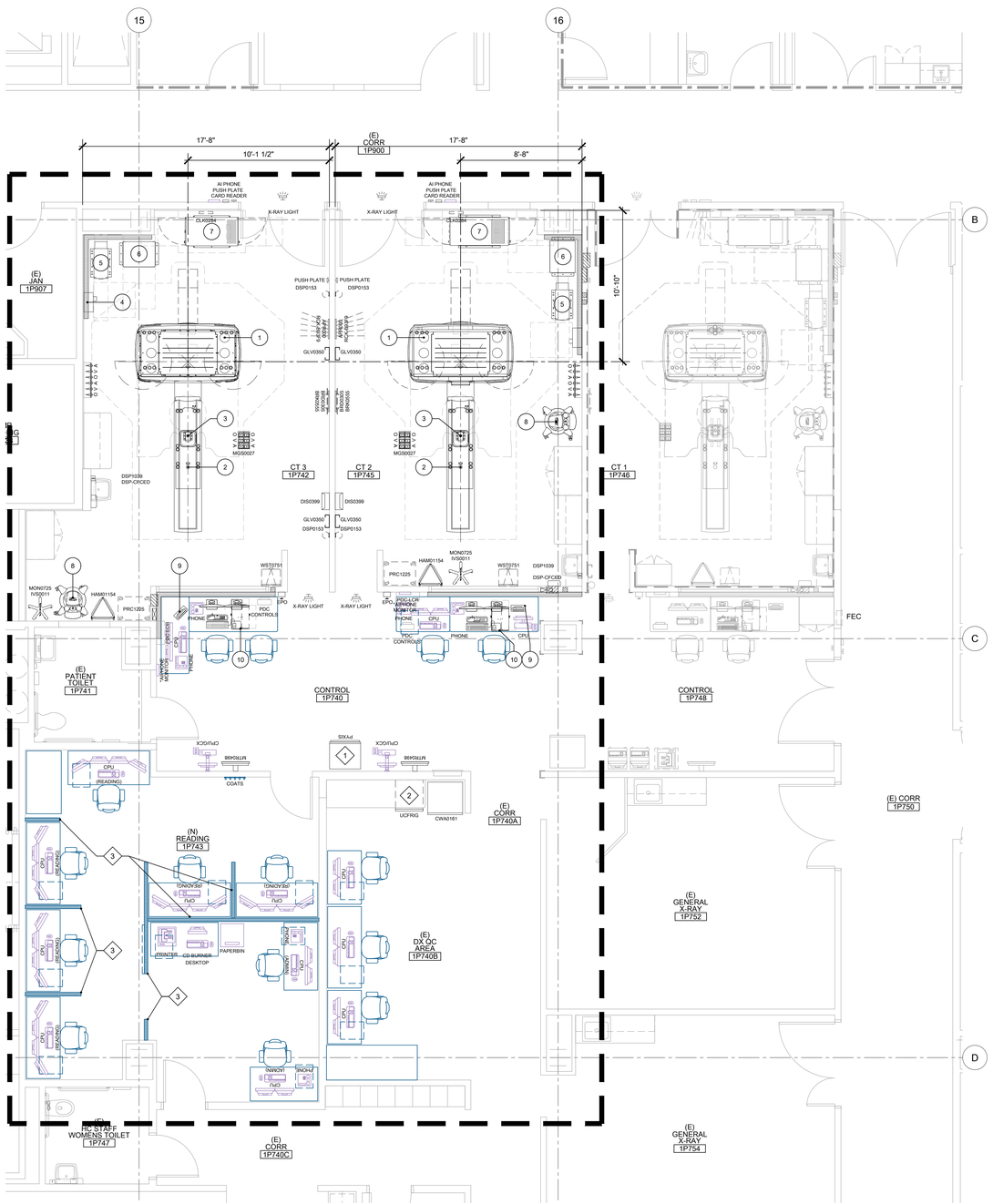
CT Exam Room	1P745	RCK-B93F9	Rack: Apron, Wall Mount	MXR Imaging	01-Fixed Equipment	Owner	Contractor	1						
CT Exam Room	1P745	REG0486	Regulator: Suction, Intermittent/Continuous	Genstar Technologies Company, Inc.	03-Movable Non-Electrical	Owner	Owner	2						
CT Control Room	1P745	WST0081	Waste Can: Step-On	Rubbermaid Commercial Products	03-Movable Non-Electrical	Owner	Owner	1						
CT Exam Room	1P745	WST0406	Waste Can: Step-On	Rubbermaid Commercial Products	03-Movable Non-Electrical	Owner	Owner	2						
CT Exam Room	1P745	WST0751	Waste Can: Bio-Hazardous	Rubbermaid Commercial Products	03-Movable Non-Electrical	Owner	Owner	1						



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

NORTH

EQUIPMENT PLAN KEYNOTES:

THESE KEYNOTES APPLY TO THIS SHEET ONLY.

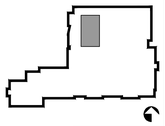
1. RELOCATED MED DISPENSER, SEE DTL. 14/A640.
2. RELOCATED UNDERCOUNTER REFRIGERATOR, O.F.C.I.
3. FURNITURE PANELS TO BE ANCHORED TO FLOOR. SCAN FLOOR AS REQ'D.

LEGEND:

UNIVERSITY I.T. ITEMS - O.F.O.I.

SYSTEMS FURNITURE, N.I.C. - O.F.V.I.

KEYPLAN



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Department of Health Care Access & Information
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DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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LICENSED ARCHITECT JOHN N. FLATH No. C-31109 REN. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	10/30/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO: 9557740
OSHPD NO: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: EQUIPMENT SCHEDULE & PLAN

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	9557740	A831
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: NLA	DATE: -	
DRAWN BY: NLA	CAD FILE: -	SHEET: - OF: -

PDC (PATIENT EXPERIENCE) EQUIPMENT LEGEND

REFER TO PDC DWGS. F.A.I.

CT 2 - RM 1P745

ITEM	COUNT	DESCRIPTION	PROVIDED BY	INSTALLED BY
Cat6	1	CAT-6 WALL PLATE FOR PAD	PDC	EC
CIT	8	CEILING IMAGE TILE (2 x 2 HD LED)	PDC	EC
LCR	1	LIGHTING CONTROL RACK	PDC	EC
LP6	9	LP6 LOW PROFILE 6" CAN LIGHT W/ SPREADER	PDC	EC
LPD	2	DIRECTIONAL LED CAN LIGHT	PDC	EC
PAD	1	TECHNOLOGIST SUITE CONTROLS	PDC	PDC
SLF	2	STRAIGHT COVE FIXTURE	PDC	EC

ADDITIONAL EQUIPMENT

ITEM	COUNT	DESCRIPTION	PROVIDED BY	INSTALLED BY
EO-e	1	115vac, 15A EMERGENCY DUPLEX OUTLET FOR SCR	EC	EC
EO-q	1	115vac, 15A QUAD OUTLET FOR PAD	EC	EC
EO-q	1	115vac, 20A QUAD OUTLET FOR SCR	EC	EC
S-oo	1	ON/OFF SWITCH	EC	EC

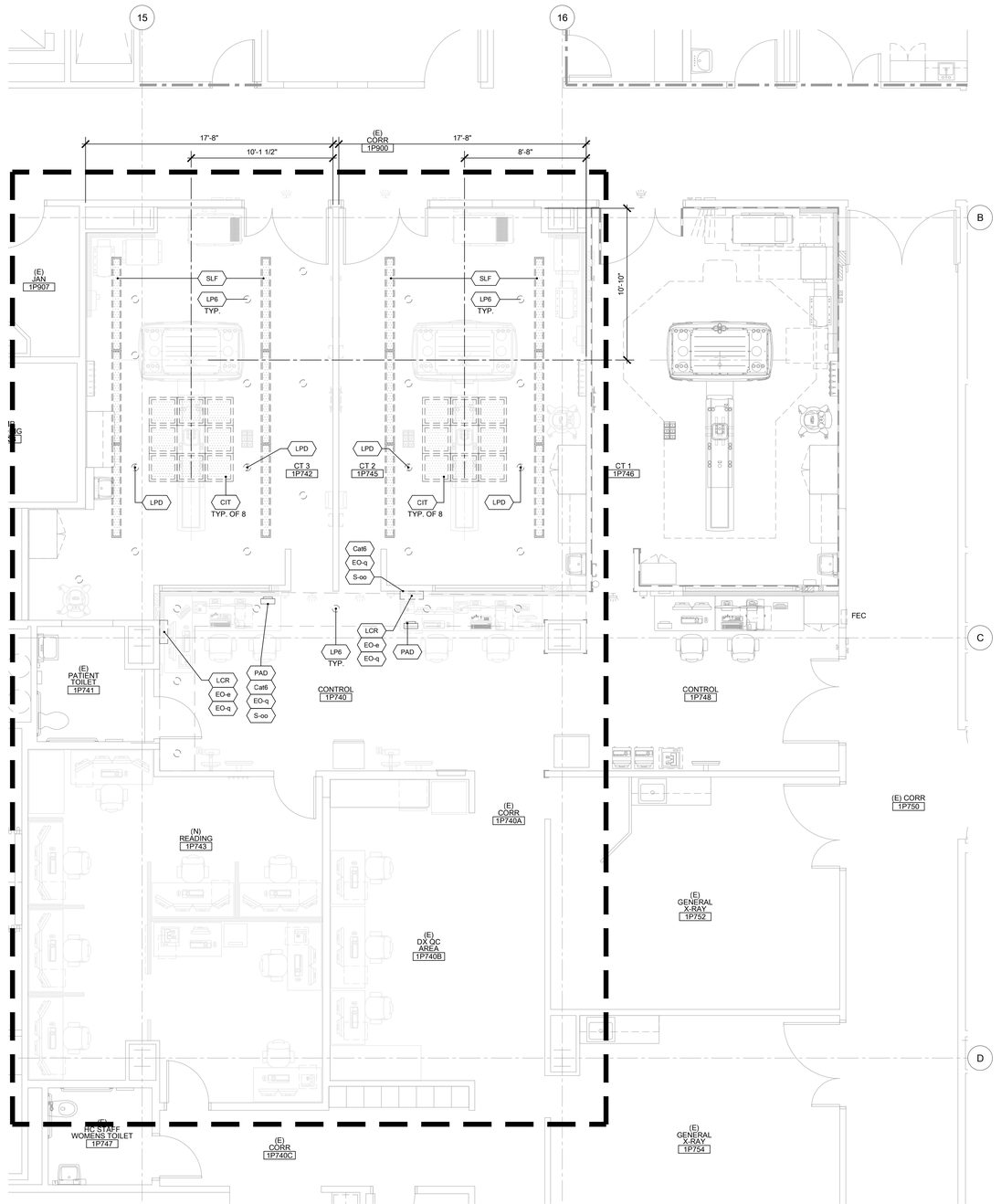
CT 3 - RM 1P742

ITEM	COUNT	DESCRIPTION	PROVIDED BY	INSTALLED BY
Cat6	1	CAT-6 WALL PLATE FOR PAD	PDC	EC
CIT	8	CEILING IMAGE TILE (2 x 2 HD LED)	PDC	EC
LCR	1	LIGHTING CONTROL RACK	PDC	EC
LP6	11	LP6 LOW PROFILE 6" CAN LIGHT W/ SPREADER	PDC	EC
LPD	2	DIRECTIONAL LED CAN LIGHT	PDC	EC
PAD	1	TECHNOLOGIST SUITE CONTROLS	PDC	PDC
SLF	2	STRAIGHT COVE FIXTURE	PDC	EC

ADDITIONAL EQUIPMENT

ITEM	COUNT	DESCRIPTION	PROVIDED BY	INSTALLED BY
EO-e	1	115vac, 15A EMERGENCY DUPLEX OUTLET FOR SCR	EC	EC
EO-q	1	115vac, 15A QUAD OUTLET FOR PAD	EC	EC
EO-q	1	115vac, 20A QUAD OUTLET FOR SCR	EC	EC
S-oo	1	ON/OFF SWITCH	EC	EC

PDC = PDC FACILITIES, INC.
GC = GENERAL CONTRACTOR
EC = ELECTRICAL CONTRACTOR
VEN = SYSTEM VENDOR



1 EQUIPMENT PLAN

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

NORTH

KEYPLAN

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

nacht&lewis
600 Q Street, Suite 100
Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

LICENSED ARCHITECT JOHN M. LEWIS No. C-21069 EXP. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPD NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PDC EQUIPMENT SCHEDULE & PLAN

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	9557740	A832	
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN		
DESIGNED BY: NLA	DATE: -		
DRAWN BY: NLA	CAD FILE: -	SHEET: -	OF: -

K:\Project\UCDMC\v232100 UCDHS SESP 1P74 1P45 CT Scanner Replacement\02_Design\Drawings\A832-v2321-00.dwg, 8/15/2024 9:57:55 AM, DWG To PDF - Lines Merge.pc3

GENERAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

GENERAL NOTES
100TN001

1. INTERPRETATION OF DRAWINGS & SPECIFICATIONS
   A. WHERE SPECIFICATIONS HAVE BEEN PREPARED FOR THIS PROJECT, THEY ARE ARRANGED IN SEVERAL SECTIONS, BUT SUCH SEPARATION SHALL NOT BE CONSIDERED AS THE LIMITS OF THE WORK REQUIRED OF ANY SEPARATE TRADE. THE TERMS AND CONDITIONS OF SUCH LIMITATIONS ARE WHOLLY BETWEEN THE CONTRACTOR AND THEIR SUBCONTRACTORS.
   B. IN GENERAL, THE WORKING DETAILS WILL INDICATE DIMENSIONS, POSITION AND KIND OF CONSTRUCTION, AND THE SPECIFICATIONS, QUALITIES AND METHODS. ANY WORK INDICATED ON THE WORKING DETAILS AND NOT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, SHALL BE FURNISHED AS THOUGH FULLY SET FORTH IN BOTH. WORK NOT PARTICULARLY DETAILED, MARKED OR SPECIFIED, SHALL IDENTICAL OR SIMILAR TO LIKE CASES OF CONSTRUCTION THAT ARE DETAILED, MARKED OR SPECIFIED. IF CONFLICTS OCCUR ON DRAWINGS AND/OR SPECIFICATIONS, THE MOST EXPENSIVE MATERIALS OR METHODS WILL PREVAIL.
   C. SHOULD AN ERROR APPEAR IN THE WORKING DETAILS OR SPECIFICATIONS OR IN WORK DONE BY OTHERS AFFECTING THIS WORK, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AT ONCE AND IN WRITING. IF THE CONTRACTOR PROCEEDS WITH THE WORK SO AFFECTED WITHOUT HAVING GIVEN SUCH WRITTEN NOTICE AND WITHOUT RECEIVING THE NECESSARY APPROVAL, DECISION OR INSTRUCTIONS IN WRITING FROM THE OWNER, THEN THE CONTRACTOR SHALL HAVE NO VALID CLAIM AGAINST THE OWNER, FOR THE COST OF SO PROCEEDING AND SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT. NO VERBAL APPROVAL, DECISION, OR INSTRUCTION SHALL BE VALID OR BE THE BASIS FOR ANY CLAIM AGAINST THE OWNER, ITS OFFICERS, EMPLOYEES OR AGENTS. THE FOREGOING INCLUDES TYPICAL ERRORS IN THE SPECIFICATIONS OR NOTATIONAL ERRORS IN THE WORKING DETAILS WHERE THE INTERPRETATION IS DOUBTFUL OR WHERE THE ERROR IS SUFFICIENTLY APPARENT AS TO PLACE A REASONABLY PRUDENT CONTRACTOR ON NOTICE THAT, SHOULD THE CONTRACTOR ELECT TO PROCEED, THEY ARE DOING SO AT THEIR OWN RISK.
2. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
3. SHOP DRAWING NOTE:
   A. WHEN NOT ADDRESSED BY DIVISION 1 OF THE SPECIFICATIONS, SUBMITTALS SHALL BE ELECTRONIC PDF FORMAT.
   B. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE STRUCTURAL ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL THE CONTRACTOR INTENDS TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS THE CONTRACTOR INTENDS TO USE ON A STAND ALONE SET OF DOCUMENTS. DUPLICATION OF DESIGN DOCUMENTS FOR THE PURPOSE OF SHOP DRAWINGS IS NOT ACCEPTABLE.
   C. PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER. SHOP DRAWING SUBMITTALS SHALL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, STRUCTURAL STEEL, REINFORCING STEEL, & GLUE-LAMINATED BEAMS.
   D. PRIOR TO SUBMISSION THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SHALL STAMP SUBMITTALS AS BEING "REVIEWED FOR CONFORMANCE".
   E. SHOP DRAWING SUBMITTALS PROCESSED BY THE STRUCTURAL ENGINEER ARE NOT CHANGE ORDERS.
   F. ANY DETAIL ON THE SHOP DRAWINGS THAT DEVIATES FROM THE CONTRACT DOCUMENTS SHALL CLEARLY BE MARKED WITH THE NOTE "THIS IS A CHANGE".
   G. SHOP DRAWINGS OR CALCULATIONS SUBMITTED FOR REVIEW THAT REQUIRE RESUBMITTAL FOR RE-REVIEW SHALL BE BILLED HOURLY FOR SUCH TIME TO THE GENERAL CONTRACTOR. RE-REVIEW WILL NOT PROCEED WITHOUT WRITTEN APPROVAL FROM THE GENERAL CONTRACTOR FOR ADDITIONAL ENGINEERING REVIEW SERVICES.
4. SAFETY NOTE:
   A. IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS, AS THEY APPLY TO THIS PROJECT, OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA LATEST EDITION, AND ALL OSHA REQUIREMENTS.
   B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED. SHORING INDICATIONS (LOCATION, DIRECTION, DURATION, ETC.) ARE ONLY SHOWN ON THE STRUCTURAL DRWGS WHEN REQUIRED TO IMPLEMENT THE DESIGN INTENT OF THE FINAL WORK PRODUCT. DETERMINATION WHETHER SHORING IS REQUIRED FOR TEMPORARY OR INTERMEDIATE CONDITIONS DURING CONSTRUCTION IS WHOLLY THE RESPONSIBILITY OF THE CONTRACTOR.
   C. THE OWNER AND THE STRUCTURAL ENGINEER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
5. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS OR EXISTING FIELD CONDITIONS. SUCH NOTIFICATION SHALL BE GIVEN IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. IN CASE OF A CONFLICT BETWEEN STRUCTURAL DRAWINGS AND SPECIFICATIONS THE MORE RESTRICTIVE CONDITION SHALL TAKE PRECEDENCE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN FOR THE LEAST RESTRICTIVE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PRIOR TO COMMENCING ANY WORK.
6. WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT. SHOULD THERE BE ANY QUESTION, CONTACT THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO PROCEEDING.
7. WHEN CONSTRUCTION ATTACHES TO OR IS WITHIN AN EXISTING BUILDING, A COMPLETE SET OF DRAWINGS OF THE EXISTING BUILDING SHALL BE KEPT ON THE JOB SITE. CONTRACTOR TO OBTAIN THESE DRAWINGS FROM THE OWNER (IF THEY ARE AVAILABLE).
8. CONTRACTOR SHALL PROVIDE AN ALLOWANCE EQUAL TO 2% OF THE BID FOR STRUCTURAL STEEL, MISC. IRON AND REINFORCING STEEL TO BE USED AT THE DISCRETION OF THE STRUCTURAL ENGINEER. UNUSED AMOUNT TO REVERT TO THE OWNER UPON COMPLETION OF THE JOB.
9. ANY SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE OR DETAILS SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER. SUCH REVIEW WILL BE BILLED ON A TIME AND MATERIALS BASIS TO THE GENERAL CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
10. DO NOT SCALE DRAWINGS. CONTACT THE ARCHITECT OR STRUCTURAL ENGINEER FOR ANY DIMENSIONS NOT SHOWN.
11. THESE DRAWINGS ARE NOT COMPLETE UNTIL REVIEWED AND ACCEPTED BY THE ENFORCEMENT AGENCY AND SIGNED BY THE STRUCTURAL ENGINEER.

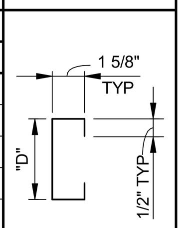
DESIGN CRITERIA
100TN002-19

1. CODES AND STANDARDS
   2022 CALIFORNIA BUILDING CODE (CBC w/ STATE OF CA AMENDMENTS)
   ASCE 7-16
   ACI 318-19
   AISC 360-16, 341-16, 358-16
   AISI S100-16 w/ S2-20, S240-20, S400-20
   TMS 402/602-16
   2018 NDS, 2021 SDPWS
2. LATERAL LOADS
   SEISMIC:
   SITE CLASS D
   S_S = 0.549 ; S_{DS} = 0.498
   S_1 = 0.248
   I_P = 1.5 PER ASCE 7-16 SECT 13.1.3
   RISK CATEGORY: IV
   SEISMIC DESIGN CATEGORY: D

COLD-FORMED METAL FRAMING
540SN001

1. GALVANIZED SHEET STEEL SHALL CONFORM TO ASTM A653, STRUCTURAL QUALITY, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MILS (18 GA) AND THINNER AND ASTM A653, STRUCTURAL QUALITY, WITH A MINIMUM YIELD STRENGTH OF 50 KSI FOR 54 MILS (16 GA) AND THICKER. HOT-ROLLED CARBON SHEET AND STRIP STEEL USED IN THE FABRICATION OF COLD-FORMED MEMBERS SHALL CONFORM TO ASTM A1011 WITH A RUST INHIBITIVE COATING. ALL CFS MEMBERS ARE TO BE COATED IN ACCORDANCE WITH THE OPTIONS SHOWN IN PARAGRAPH 4.3 AND TABLE 1 OF ASTM C955 AND SHALL HAVE A MINIMUM COATING PROTECTION LEVEL OF CP 60.
2. METAL STUDS AND JOISTS SHALL BE OF SIZE AND THICKNESS SHOWN ON DRAWINGS WITH THE MINIMUM EFFECTIVE SECTION PROPERTIES SHOWN IN THE TABLE(S).
3. MINIMUM THICKNESS SHOWN IN TABLE FOR THE THICKNESS SPECIFIED REPRESENTS 95% OF DESIGN THICKNESS PER AISI S240-15
4. METAL FRAMING SHALL BE PER ICC-ES NO. 3064P OR ICC-ES 4205. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AGENCY APPROVAL FOR ANY SUBSTITUTIONS.
5. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE-SHEET STEEL". WELDERS SHALL BE AWS CERTIFIED. WELDING RODS: E60XX MIN (43 MIL AND THINNER), E70XX MIN (54 MIL AND THICKER).
6. SMS SHALL BE PER ONE OF THE FOLLOWING:
   A. GRABBER CONSTRUCTION PRODUCTS INC PER ESR-1271
   B. PRIMESOUCE BUILDING PRODUCTS PER ESR-1408
   C. ITW BUILDEX PER ESR-1976
   D. ITW BUILDEX PER ESR-3223
   E. HILTI PER ESR-2196
   F. PORTEOUS FASTENER PER ESR-3231
   G. ELCO CONSTRUCTION PRODUCTS PER ESR-3294
   H. SIMPSON STRONG-TIE COMPANY PER ESR-3006
7. SMS MUST BE INSTALLED WITH THE FOLLOWING MINIMUM DIMENSIONAL LIMITATIONS: WHERE MULTIPLE FASTENERS ARE USED, SCREWS ARE TO HAVE A CENTER-TO-CENTER SPACING OF AT LEAST 3 TIMES THE NOMINAL DIAMETER (D). SCREWS ARE TO HAVE A CENTER-OF-SCREW TO EDGE-OF-STEEL DIMENSION OF AT LEAST 1.5 TIMES THE NOMINAL DIAMETER (D) OF THE SCREW.
8. ALL SCREWS ARE TO PROTRUDE A MINIMUM OF THREE FULL THREADS BEYOND THE CONNECTED PARTS, UNLESS OTHERWISE NOTED. WHERE THE CONNECTED PARTS ARE DIFFERENT THICKNESS, THE SCREW IS TO FIRST PENETRATE THE THINNER MEMBER, THEN PENETRATE THICKER PART, MEANING, THE SCREW HEAD IS IN CONTACT WITH THE THINNER MEMBER, UNLESS OTHERWISE NOTED.
9. TYPICAL METAL TRACK SHALL BE SAME GAUGE AS STUDS WHICH IT SUPPORTS, UNPUNCHED, WITH A FLANGE WIDTH OF 1 1/4 INCHES AND A DEPTH EQUAL TO THE NOMINAL STUD PLUS 2 TIMES THE TRACK THICKNESS PLUS THE RADIUS. NESTED TRACKS SHALL BE FABRICATED TO FILL THE OUTSIDE OF A TYPICAL METAL TRACK. DEEP LEG TRACKS SHALL HAVE A MINIMUM FLANGE WIDTH OF 2 INCHES. USE SLOTTED SLIP TRACKS WHERE SPECIFIED. SEE SECTIONS AND TYPICAL METAL STUD DETAILS.
10. METAL STUDS AND JOISTS SHALL NOT HAVE PUNCH-OUTS CLOSER THAN 10" CLEAR FROM THE END OF THE MEMBER OR AT INTERMEDIATE LATERAL BEARING POINTS OF THE MEMBER. METAL STUDS WHICH ARE PART OF BUILT-UP HEADER SECTIONS SHALL BE UNPUNCHED FULL LENGTH.

COLD-FORMED METAL FRAMING SECTION PROPERTIES - SSMA C STUDS & JOISTS - S162 SECTIONS [2,3]
540SN002

GAUGE/MIL	20/33		18/43		16/54		14/68		S STUDS & JOISTS
DESIGNATION	S162-33		S162-43		S162-54		S162-68		
MIN THICKNESS	0.0329		0.0428		0.0538		0.0677		
DEPTH "D"	Ix	Sx	Ix	Sx	Ix	Sx	Ix	Sx	
2 1/2"	0.235	0.180	0.302	0.240	0.370	0.284	0.450	0.357	
3 5/8"	0.551	0.268	0.710	0.372	0.873	0.444	1.069	0.574	
4"	0.692	0.299	0.892	0.417	1.098	0.498	1.346	0.648	
6"	1.793	0.577	2.316	0.767	2.860	0.916	3.525	1.164	
8"	3.384	0.710	4.500	1.019	5.600	1.229	7.070	1.663	
10"	-	-	7.523	1.302	9.391	1.572	11.978	2.154	
12"	-	-	-	-	14.298	1.914	18.390	2.645	

NOTES:
1. FOR COMPLETE SECTION DESIGNATIONS IN ACCORDANCE WITH SSMA OR SFIA STANDARDS, ADD MEMBER DEPTH TO FRONT OF INDICATED DESIGNATION. EXAMPLE: FOR 3 5/8" MEMBER WITH GAUGE/MIL OF 18/43, THE FULL DESIGNATION IS 362S162-43.
2. SECTION PROPERTIES SHOWN ARE EFFECTIVE PROPERTIES CONFORMING TO AISI A7.2 PER SSMA OR SFIA STANDARDS FOR MATERIAL STRENGTH NOTED IN COLD-FORMED METAL FRAMING NOTES.

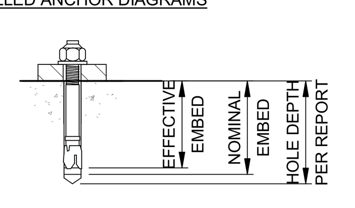
POWER-ACTUATED FASTENERS (SHOT PINS)
100SN016

1. THESE NOTES GOVERN ALL CONDITIONS CALLED OUT ON THE PLANS AS 'SHOT PINS' UNLESS SPECIFICALLY NOTED OTHERWISE.
2. ALL SHOT PINS SHALL BE X-U UNIVERSAL KNURLED SHANK FASTENERS WITH SHANK DIAMETER OF 0.157" AS MANUFACTURED BY HILTI INCORPORATED IN ACCORDANCE WITH ICC ESR-2269 AND THE CURRENT EDITION OF THE HILTI 'PRODUCT TECHNICAL GUIDE' OR CSI KNURLED SHANK FASTENERS w/ SHANK DIAMETER OF 0.157" AS MANUFACTURED BY DEWALT IN ACCORDANCE w/ ICC ESR-2024.
3. ALL SHOT PINS SHALL INCLUDE STANDARD HILTI STEEL WASHERS OR STANDARD DEWALT STEEL WASHERS.
4. SHOT PINS DRIVEN INTO STEEL BASE MATERIAL SHALL MAINTAIN A MINIMUM EDGE DISTANCE AT ALL STEEL ELEMENTS OF 1/2" AND MINIMUM FASTENER SPACING SHALL BE 1". LENGTH OF PIN SHALL BE AS REQUIRED TO PENETRATE THRU STEEL MEMBER UNO. AT 3/4" THICK STEEL, PENETRATION NEED NOT EXCEED 1/2".
5. SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL SHALL MAINTAIN A MINIMUM EDGE DISTANCE AT ALL CONCRETE ELEMENTS OF 3" AND MINIMUM FASTENER SPACING SHALL BE 4". PINS SHALL HAVE 1 1/4" PENETRATION UNO. MINIMUM CONCRETE THICKNESS SHALL BE 3 TIMES THE PENETRATION DEPTH. CONCRETE SHALL ATTAIN FULL DESIGN STRENGTH PRIOR TO INSTALLING SHOT PINS.
6. SHOT PINS DRIVEN INTO 3 1/4" MINIMUM LIGHT WEIGHT CONCRETE FILL OVER 3"x 20GA MINIMUM METAL DECK MAY BE INSTALLED FROM THE TOP OR FROM THE BOTTOM IN EITHER THE HIGH OR LOW FLUTE. PINS INSTALLED FROM THE TOP SHALL BE SPACED AS NOTED ABOVE FOR TYPICAL CONCRETE ELEMENTS. PINS INSTALLED FROM THE BOTTOM IN THE HIGH FLUTES SHALL BE INSTALLED WITHIN 1" OF FLUTE CENTER. PINS INSTALLED FROM THE BOTTOM IN THE LOW FLUTES SHALL BE INSTALLED WITHIN 1" OF THE FLUTE CENTER AND SHALL BE NO CLOSER THAN 1 1/8" TO THE EDGE OF THE LOW FLUTE. PINS INSTALLED FROM THE BOTTOM SHALL BE SPACED NO CLOSER THAN 5 1/2" PARALLEL TO THE FLUTES. PINS SHALL HAVE 1" PENETRATION INTO CONCRETE UNO. CONCRETE SHALL ATTAIN FULL DESIGN STRENGTH PRIOR TO INSTALLING SHOT PINS.
7. SHOT PIN INSTALLERS SHALL BE CERTIFIED BY HILTI AND HAVE A CURRENT HILTI ISSUED OPERATORS LICENSE OR CERTIFIED BY DEWALT AND HAVE A CURRENT DEWALT ISSUED OPERATORS LICENSE. SHOT PIN INSTALLATION SHALL MEET ALL OSHA REQUIREMENTS.
8. SHOT PINS USED TO ATTACH HANGER WIRES FOR SUSPENDED CEILINGS SHALL BE TESTED IN ACCORDANCE WITH OSHPD OPD-0002-13.

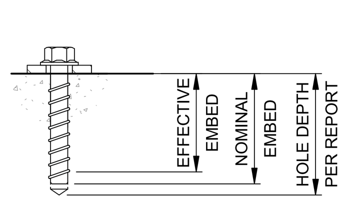
POST-INSTALLED ANCHORS
305TN001

1. FOR CONCRETE CONSTRUCTION, POST-INSTALLED ANCHORS SHALL BE ONE OF THE FOLLOWING:
   A. ADHESIVE ANCHORS FOR THRD ROD & REBAR:
      a. HILTI HIT-HY 200 PER ESR-3187
      b. HILTI HIT-RE500 V3 PER ESR-3814
      c. SIMPSON SET-XP PER ESR-2508
      d. SIMPSON SET-3G PER ESR-4057
      e. DEWALT/PURE ESR-3298
   B. EXPANSION ANCHORS:
      a. HILTI KB-TZ2 PER ESR-4266
      b. SIMPSON STRONG BOLT 2 PER ESR-3037
      c. DEWALT/POWER-STUD+ SD2 ESR-2502
   C. SCREW ANCHORS:
      a. HILTI KWIK HUS-EZ (KH-EZ) PER ESR-3027
      b. SIMPSON TITEN HD PER ESR-2713
      c. DEWALT/SCREWBOLT+ PER ESR-3889
2. FOR GROUT-FILLED MASONRY CONSTRUCTION, POST-INSTALLED ANCHORS SHALL BE ONE OF THE FOLLOWING:
   A. ADHESIVE ANCHORS FOR THRD ROD & REBAR:
      a. HILTI HIT-HY 270 PER ESR-4143
      b. SIMPSON SET-XP IAPMO UES ER-265
      c. DEWALT/AC 100+ GOLD ESR-3200
   B. EXPANSION ANCHORS:
      a. HILTI KB-TZ2 PER ESR-4561
      b. SIMPSON WEDGE-ALL PER IAPMO ER-240. (1)
      c. DEWALT/POWER-STUD+ SD1 ESR-2966
   C. SCREW ANCHORS:
      a. HILTI KWIK HUS-EZ (KH-EZ) PER ESR-3056
      b. SIMPSON TITEN HD PER ESR-1056
      c. DEWALT/SCREWBOLT+ PER ESR-4042
3. ANCHOR TYPE, SIZE & EMBEDMENT SHALL BE AS INDICATED IN DRAWINGS. POST-INSTALLED ANCHORS FOR REPAIR SHALL BE EVALUATED ON A CASE BY CASE BASIS. NOTIFY STRUCTURAL ENGINEER FOR REPAIRS.
4. ALL EMBEDMENT DEPTHS CALLED OUT IN DRAWINGS REFER TO EFFECTIVE EMBEDMENT UNLESS OTHERWISE NOTED. SEE DIAGRAM BELOW AND ICC REPORTS.
5. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN THE EVALUATION REPORT. PROVIDE MINIMUM EMBEDMENT PROVIDED IN ICC ESR REPORT UNLESS NOTED OTHERWISE.
6. PROVIDE SPECIAL INSPECTION AS INDICATED IN THE STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING.
7. WHEN INSTALLING POST-INSTALLED ANCHORS IN EXISTING CONCRETE OR MASONRY, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN. DO NOT INSTALL ANCHORS WITHIN 1 1/2" OF CMU HEAD JOINTS. DO NOT INSTALL ANCHORS IN PRESTRESSED CONCRETE ELEMENTS.
8. ANCHORS INSTALLED FROM THE BOTTOM INTO METAL DECK WITH CONCRETE SHALL BE INSTALLED IN THE CENTER OF THE LOW FLUTE OF THE DECKING UNLESS NOTED OTHERWISE IN EVALUATION REPORT. THE DECKING SHALL HAVE A MINIMUM THICKNESS OF 20 GAUGE. THE MINIMUM THICKNESS OF THE CONCRETE ABOVE THE HIGH FLUTE OF THE METAL DECK SHALL BE AS INDICATED IN THE EVALUATION REPORT. SEE EVALUATION REPORT FOR ADDITIONAL REQUIREMENTS, INCLUDING MINIMUM DIMENSIONS FOR FLUTE WIDTH AND DEPTH.
9. THE CONCRETE SHALL HAVE ATTAINED ITS MINIMUM DESIGN STRENGTH PRIOR TO INSTALLATION OF THE ANCHORS.
10. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF ANCHOR INSTALLATION PER ACI 318, CHAPTER 17.
11. INSTALLER CERTIFICATION AND INSPECTION IS REQUIRED FOR HORIZONTAL AND UPWARDLY INCLINED ADHESIVE ANCHORS SUBJECTED TO SUSTAINED TENSION LOADING IN ACCORDANCE WITH ACI 318, CHAPTER 17.
12. IF TEMPERATURE OF BASE MATERIAL AT TIME OF ADHESIVE ANCHOR INSTALLATION IS 45 DEGREES FARENHEIT OR LOWER, AN "ACRYLIC" OR COLD WEATHER ADHESIVE IS REQUIRED. USE DEWALT AC200+, SIMPSON AT-XP, OR HILTI HIT-HY200 WHEN THIS OCCURS.
13. THE TESTING OF THE ANCHORS SHALL BE DONE BY A QUALIFIED TESTING AGENCY AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE GOVERNING AGENCY AND ARCHITECT/STRUCTURAL ENGINEER. SEE NOTES ON THIS SHEET FOR TESTING CRITERIA.

INSTALLED ANCHOR DIAGRAMS



EXPANSION ANCHOR



SCREW ANCHOR

POST-INSTALLED ANCHOR TESTING CRITERIA
305TN002

1. EXPANSION ANCHOR TESTING SHALL COMPLY WITH INSTALLATION TORQUE VALUES PROVIDED IN MANUFACTURER'S EVALUATION REPORT. EPOXY AND SCREW ANCHOR TESTING SHALL COMPLY WITH TENSION TEST VALUES SPECIFIED IN DRAWINGS. TESTING FREQUENCY SHALL COMPLY WITH CBC SECTION 1910A.5.3.
2. APPLY PROOF TEST LOADS TO EXPANSION ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS AS THE ORIGINAL NUT USING A TORQUE WRENCH TO APPLY THE TEST LOAD.
3. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
4. TEST EQUIPMENT (INCLUDING TORQUE WRENCHES) IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
5. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
   A. HYDRAULIC RAM METHOD: THE ANCHOR SHALL HAVE NO OBSERVABLE MOVEMENT FOR A MINIMUM OF 15 SECONDS AT THE APPLICABLE TEST LOAD. FOR EXPANSION AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.
   B. TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:
      EXPANSION TYPE:
      - ONE-QUARTER (1/4) TURN OF THE NUT FOR 3/8"Ø SLEEVE ANCHORS.
      - ONE-HALF (1/2) TURN OF THE NUT FOR 1/4"Ø AND LARGER ANCHORS.
6. PROVIDE SPECIAL INSPECTION AS NOTED IN THE ICC REPORT.
7. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE AND INSTALLED BY THE SAME TRADE SHALL BE TESTED, UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY. ANCHORS PREVIOUSLY TESTED PRIOR TO FAILED TEST SHALL NOT BE RETESTED.
8. TORQUE EXPANSION ANCHORS TO THE VALUES SHOWN BELOW:

CONCRETE EXPANSION ANCHOR TORQUE TEST VALUE (FT-LB)

DIAMETER	HILTI KB-TZ2		SIMPSON STRONG BOLT 2		DEWALT POWER-STUD+ SD2	DEWALT POWER-STUD+ SD4 & SD6
	CARBON STEEL	STAINLESS STEEL	CARBON STEEL	STAINLESS STEEL	CARBON STEEL	STAINLESS STEEL
1/4"	4	6	4	4		6
3/8"	30	30	30	30	20	25
1/2"	50	40	60	65	40	40
5/8"	40	60	90	80	60	60
3/4"	110	125	150	150	110	110

STRUCTURAL STEEL
500SN001

1. FABRICATION, ERECTION AND MATERIALS SHALL CONFORM WITH THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS AND THE AISC CODE OF STANDARD PRACTICE, LATEST EDITIONS ADOPTED BY THE BUILDING CODE SPECIFIED IN THE DESIGN CRITERIA NOTES, UNO.
2. ALL HOT ROLLED STEEL SHAPES, PLATES AND BARS SHALL BE NEW STEEL CONFORMING TO ASTM A6, UNO IN THE STRUCTURAL DRAWINGS. STRUCTURAL STEEL SHALL BE AS FOLLOWS:
   A. WIDE FLANGE AND WT SHAPES: ASTM A992
   B. M- AND S- SHAPES: ASTM A36
   C. C- AND MC- SHAPES: ASTM A992
   D. L- SHAPES: ASTM A572 GRADE 50
   E. ROUND HSS: ASTM A500 GRADE C (Fy = 46 KSI)
   F. RECTANGULAR HSS: ASTM A500 GRADE C (Fy = 50 KSI)
   G. PIPE: ASTM A53, GRADE B (Fy = 35 KSI)
   H. BASE PLATES UP TO 4" THICK: ASTM A572 GRADE 50
   I. ALL OTHER PLATE MATERIAL: ASTM A572 GRADE 50, UNO
   J. BUILT UP COLUMNS: ASTM A572 GRADE 50
   K. PLATE GIRDERS: ASTM A572 GRADE 50
   L. CONNECTION MATERIAL
      a. COLUMN CONTINUITY PLATES AND DOUBLER PLATES: ASTM A572 GRADE 50
      b. BRACED FRAME GUSSET PLATES: ASTM A572 GRADE 50
3. ALL STRUCTURAL STEEL SHALL RECEIVE A MINIMUM OF ONE SHOP COAT OF RED PRIMER PAINT. DO NOT PAINT AREAS TO BE FIELD WELDED, FIREPROOFED, GALVANIZED, TO RECEIVE SLIP-CRITICAL HIGH STRENGTH BOLTS, OR TO BE EMBEDDED IN CONCRETE. PROVIDE ADDITIONAL PAINTING AS NOTED IN THE SPECIFICATIONS.
4. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS ARE PROVIDED TO ADEQUATELY BRACE THE STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL BASE PLATE AND SUPPORT CONDITIONS DURING ERECTION AND BRACING AS REQUIRED. SEE AISC AND OSHA REQUIREMENTS.
5. GROUT BELOW BASE PLATES SHALL BE NON-METALLIC, NON-SHRINK GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 8,000 PSI UNO. COLUMN BASE PLATES SHALL BE PROMPTLY GROUTED AFTER STEEL FRAME HAS BEEN PLUMBED AND PRIOR TO INSTALLATION OF METAL DECKING.
6. STRUCTURAL STEEL BELOW GRADE SHALL HAVE 3 INCHES MINIMUM OF CONCRETE COVER.
7. STRUCTURAL BOLTS AND THREADED FASTENERS
   A. BOLTED CONNECTIONS SHALL CONSIST OF UNFINISHED BOLTS CONFORMING TO ASTM F3125 GRADE A325 UNO.
   B. WHERE HIGH-STRENGTH BOLTS ARE SPECIFIED, BOLTS CONFORMING TO ASTM F3125 GRADE A325 OR GRADE A490 SHALL BE PROVIDED AS INDICATED. HIGH STRENGTH BOLTS IN SLIP-CRITICAL AND PRETENSION JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1852 FOR TWIST-OFF TYPE TENSION CONTROL BOLT PRETENSIONING OR BE PROVIDED WITH DIRECT TENSION INDICATOR WASHERS CONFORMING TO THE REQUIREMENTS OF ASTM F959.
   C. ANCHOR RODS CAST IN CONCRETE OR MASONRY SHALL BE HEADED BOLTS WITH CUT THREAD, FULL DIAMETER BODY STYLE CONFORMING TO ASTM F1554 GRADE 36, 55 (WELDABLE PER S1 SUPPLEMENTARY REQUIREMENTS), OR GRADE 105 AS INDICATED ON DRAWINGS. IN LIEU OF HEADED ANCHOR RODS, THREADED ROD CONFORMING TO THE ABOVE SPECIFICATIONS MAY BE USED WITH A SINGLE NUT WELDED TO THE ROD OR DOUBLE NUTS TIGHTENED TO PREVENT ROTATION. ANCHOR ROD PROJECTION ABOVE TOP OF FOUNDATION SHALL BE AS NOTED ON THE DRAWINGS.
   D. BOLTED CONNECTIONS SHALL HAVE WASHERS CONFORMING TO ASTM F436 UNO. WASHERS MAY BE OMITTED AT SNUG-TIGHTENED AND SLIP-CRITICAL CONNECTIONS, EXCEPT WHERE REQUIRED BY THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS, LATEST EDITION.
   E. BASE PLATES SHALL HAVE NUTS AND WASHERS AT TOP AND BOTTOM OF PLATE. WASHERS FOR BASE PLATES SHALL BE A36 SQUARE OR CIRCULAR PLATE UNLESS ASTM F844 WASHERS ARE PERMITTED. SEE BASE PLATE DETAILS FOR PLATE WASHER SIZE AND PERMISSIBLE WASHER TYPE.
   F. THREADED RODS SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE ON THE DRAWINGS.
   G. PINS: ALL PINS IN PIN CONNECTED MEMBERS SHALL CONFORM TO ASTM A36 OR ASTM A108 AS INDICATED ON THE DRAWINGS.
8. ADDITIONAL REQUIREMENTS FOR "SLIP-CRITICAL" BOLTED CONNECTIONS:
   A. "SLIP-CRITICAL" CONNECTIONS (A325-SC DESIGN VALUES WITH SPECIAL INSPECTION) ARE REQUIRED AT ALL MOMENT FRAME CONNECTIONS, BRACED FRAME CONNECTIONS, AT ALL CONNECTIONS ALONG CHORD LINES AND DRAG LINES (AS NOTED ON PLANS), AND UNO, AT ALL BOLTS IN OVERSIZED OR SLOTTED HOLES.
   B. THE SPECIAL INSPECTOR MUST BE PRESENT DURING THE INSTALLATION AND TIGHTENING OPERATION OF "SLIP-CRITICAL" CONNECTIONS.
9. PROVIDE 3/4" DIAMETER STITCH BOLTS AND RING FILLS, SPACED AT NOT MORE THAN 2'-0" ON CENTER FOR ALL DOUBLE ANGLE MEMBERS UNO.
10. AT WOOD TO STEEL PARALLEL CONTACT, BOLT WITH 1/2" DIAMETER BOLTS AT MAXIMUM 24"CC UNLESS NOTED OTHERWISE IN THE DRAWINGS.
11. BOLT HOLES SHALL BE AISC STANDARD HOLES UNLESS SPECIFIED OTHERWISE. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE.
12. WELDING SHALL BE DONE BY THE ELECTRIC ARC PROCESS IN ACCORDANCE WITH AMERICAN WELDING SOCIETY STANDARDS, USING ONLY CERTIFIED WELDERS. ALL GROOVE WELDS SHALL HAVE COMPLETE PENETRATION UNLESS NOTED OTHERWISE. ALL ELECTRODES FOR WELDING SHALL COMPLY WITH AWS D1.1 AND D1.8 AS APPLICABLE, E70 SERIES MINIMUM.
13. WELD LENGTHS SPECIFIED ON PLANS ARE THE NET EFFECTIVE LENGTHS REQUIRED.
14. MINIMUM FILLET WELDS: (T = THICKNESS OF THINNER PART JOINED)
    3/16" @ T < 1/2"
    1/4" @ T < 3/4"
    5/16" @ T > 3/4"
15. WELDING PROCEDURE SPECIFICATIONS (WPS) FOR SHOP AND FIELD PREQUALIFIED WELD JOINTS AND WELD JOINTS QUALIFIED BY TEST SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER AND THE OWNER'S TESTING LABORATORY PRIOR TO FABRICATION. ALL WELDING PROCEDURE ITEMS SUCH AS BASE METALS, WELDING PROCESSES, FILLER METALS AND JOINT DETAILS THAT MEET THE REQUIREMENTS OF AWS D1.1 SECTION 3 SHALL BE CONSIDERED AS PREQUALIFIED. ANY CHANGE OR SUBSTITUTION THAT IS BEYOND THE RANGE OR TOLERANCE OR REQUIREMENTS FOR PREQUALIFICATION SHALL BE QUALIFIED BY TEST PER AWS D1.1 SECTION 4 PART B. SUBMIT TEST REPORTS SHOWING SUCCESSFUL PASSAGE OF QUALIFICATION TESTS FOR ALL NON-PREQUALIFIED WELDING PROCEDURE SPECIFICATIONS.

ABBREVIATIONS
100SN003

(A) - OCCURS ABOVE
AB - ANCHOR BOLT
ABV - ABOVE
ADDL - ADDITIONAL
AHU - AIR HANDLING UNIT
ALT - ALTERNATE
APPROX - APPROXIMATE
ARCH - ARCHITECTURAL
(B) - OCCURS BELOW
BLDG - BUILDING
BLKG - BLOCKING
BLW - BELOW
BM - BEAM
B.O. - BOTTOM OF
BOF - BOTTOM OF FOOTING
BOTT - BOTTOM
BRCG - BRACING
BRG - BEARING
BTWN - BETWEEN
BYND - BEYOND
CC - CENTER TO CENTER
CG - CENTER OF GRAVITY
CJ - CONSTRUCTION JOINT
CJP - COMPLETE JOINT PENETRATION
CL - CENTERLINE
CLG - CEILING
CLR - CLEAR
CMU - CONCRETE MASONRY UNIT
COL - COLUMN
CONC - CONCRETE
CONN - CONNECTION
CONT - CONTINUOUS
CONTR - CONTRACTOR
COORD - COORDINATE
CSK - COUNTERSINK
DBL - DOUBLE
DF - DOUGLAS FIR
DIAG - DIAGONAL
DL - DEAD LOAD
DWG - DRAWING
(E) - EXISTING
EA - EACH
EF - EACH FACE OR EDGE FASTENER
EJ - EXPANSION JOINT
ELEV - ELEVATION
EN - EDGE NAILING
EOS - EDGE OF SLAB
EQ - EQUAL
EW - EACH WAY
FB - FACE OF BLOCK/BRICK OR FLAT BAR
FC - FACE OF CONCRETE
FDN - FOUNDATION
FF - FINISH FLOOR
FRMG - FRAMING
FRT - FIRE RETARDANT TREATED
FS - FACE OF STUD OR FAR SIDE
FTG - FOOTING
GA - GAUGE OR GAGE
GALV - GALVANIZED
GLB - GLUED LAMINATED BEAM
GR - GRADE
GYP - GYPSUM
HD - HOLDOWN
HDR - HEADER
HGR - HANGER
HK - HOOK
HORIZ - HORIZONTAL
HSB - HIGH STRENGTH BOLT
HSS - HOLLOW STRUCTURAL SECTION
HT - HEIGHT
JH - JOIST HANGER
LL - LIVE LOAD
LLH - LONG LEG HORIZONTAL
LLV - LONG LEG VERTICAL
LONGIT - LONGITUDINAL
LS - LAG SCREW
LW - LIGHTWEIGHT
MECH - MECHANICAL
MFR - MANUFACTURER
MI - MALLEABLE IRON
× - MARK
MTL - METAL
(N) - NEW
NIC - NOT IN CONTRACT
NS - NEAR SIDE
NTS - NOT TO SCALE
NW - NORMAL WEIGHT
O/ - OVER
OH - OPPOSITE HAND
OPNG - OPENING
OSB - ORIENTED STRAND BOARD
PC - PIECE
PERP - PERPENDICULAR
PJP - PARTIAL JOINT PENETRATION
PL - PLATE
PT - PRESSURE TREATED
PW - PUDDLE WELD
REINF - REINFORCING OR REINFORCEMENT
REQD - REQUIRED
RWD - REDWOOD
SC - SLIP CRITICAL
SCH - SCHEDULE
SEOR - STRUCTURAL ENGINEER OF RECORD
SHTG - SHEATHING
SIM - SIMILAR
SJ - SLAB CONTROL JOINT
SMS - SHEET METAL SCREW
SOG - SLAB-ON-GRADE
SP - STRUCTURAL PANEL
SPCG - SPACING
SQ - SQUARE
STD - STANDARD
STFNR - STIFFENER
STGRD - STAGGERED
STL - STEEL
STRUCT - STRUCTURAL
SW - SHEAR WALL
T&B - TOP & BOTTOM
T&G - TONGUE & GROOVE
THRD - THREADED
TN - TOE NAIL
T.O. - TOP OF
TOC - TOP OF CONCRETE (SLAB UNO)
TOF - TOP OF FOOTING OR TOP OF FRAMING
TOS - TOP OF STEEL
TOW - TOP OF WALL
TRANS - TRANSVERSE
TYP - TYPICAL
UNO - UNLESS NOTED OTHERWISE
VERT - VERTICAL
VIF - VERIFY IN FIELD
WF - WIDE FLANGE
WHS - WELDED HEADED STUD
WP - WORK POINT
WS - WOOD SCREW
WWF - WELDED WIRE FABRIC
XS - EXTRA STRONG
XXS - DOUBLE EXTRA STRONG
Ø - ROUND OR DIAMETER

STRUCTURAL SPECIAL INSPECTIONS AND TESTING

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING
110TN001

1. SPECIAL INSPECTIONS AND TESTING SHALL BE PROVIDED BY A TESTING AND INSPECTION AGENCY, EMPLOYED BY THE OWNER (OR OWNER'S AUTHORIZED AGENT), AND APPROVED BY THE BUILDING OFFICIAL TO PROVIDE SPECIAL INSPECTIONS AND TESTING FOR THE PARTICULAR TYPE OF CONSTRUCTION.
2. TABLES OF SPECIAL INSPECTIONS AND TESTING ARE DERIVED FROM THE STRUCTURAL PROVISIONS OF THE CBC AND REFERENCED STANDARDS AND ARE FOR REFERENCE ONLY. THE INCLUDED TABLES ARE PROVIDED FOR THE CONVENIENCE OF THE OWNER, TESTING AGENCY AND CONTRACTOR IN DEVELOPING THE SCOPE OF WORK FOR REQUIRED TESTING AND INSPECTION OF STRUCTURAL MATERIALS AND COMPONENTS. FINAL DEFINITION OF THIS SCOPE OF WORK IS TO BE DETERMINED BY THE TESTING AGENCY AND THE OWNER (OR OWNER'S AUTHORIZED AGENT).
3. FREQUENCY OF SPECIAL INSPECTIONS AND TESTING SHALL BE, AT A MINIMUM, AS NOTED FOR THE INDIVIDUAL ELEMENTS WITHIN THE TABLES BELOW. THE CONTRACTOR SHALL COORDINATE TIMING OF SPECIAL INSPECTIONS AND TESTING WITH THE SPECIAL INSPECTION AND TESTING AGENCY,
4. PRIOR TO THE START OF CONSTRUCTION, THE TESTING AND INSPECTION AGENCY SHALL PROVIDE DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING OF THE SPECIAL INSPECTORS WHO WILL PERFORM THE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION, IN ACCORDANCE WITH CBC SECTION 1704A.2.1.
5. THE TESTING AND INSPECTION AGENCY SHALL SUBMIT REPORTS OF SPECIAL INSPECTIONS AND TESTS TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER OF RECORD AND THE CONTRACTOR, PER CBC SECTION 1704A.2.4. THE REPORTS SHALL INDICATE WHETHER WORK INSPECTED OR TESTED CONFORMED TO THE APPROVED CONSTRUCTION DOCUMENTS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER OF RECORD.
6. SPECIAL INSPECTION AND TESTING RECORDS SHALL BE RETAINED BY THE CONTRACTOR ON SITE UNTIL COMPLETION OF CONSTRUCTION.
7. THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT TO THE BUILDING OFFICIAL ACKNOWLEDGING RESPONSIBILITY FOR CONSTRUCTION OF THE MAIN LATERAL-FORCE RESISTING SYSTEM PRIOR TO COMMENCEMENT OF THAT WORK AS REQUIRED BY CBC SECTION 1704A.4.
8. THE OWNER OR THE OWNER'S AUTHORIZED AGENT SHALL SUBMIT TO THE BUILDING OFFICIAL, A FINAL REPORT DOCUMENTING SPECIAL INSPECTIONS AND TESTS PER CBC SECTION 1704A.2.4, AND REPORTS AND CERTIFICATES PER CBC SECTION 1704A.5.
9. ALL SOILS AND FOUNDATION EXCAVATION INSPECTIONS SHALL BE BY THE GEOTECHNICAL ENGINEER OF RECORD, OR A GEOTECHNICAL FIRM HIRED BY THE OWNER PER CBC SECTION 1705A.6.
10. SPECIAL INSPECTION IS REQUIRED FOR ALL SHOP FABRICATED MEMBERS OR ASSEMBLIES UNLESS WAIVED PER THE EXCEPTIONS IN CBC SECTION 1704A.2.5.
11. DEFINITIONS:
    A. CONTINUOUS - SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS CONTINUOUSLY PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.
    B. PERIODIC - SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.
    C. QUALITY ASSURANCE (QA) - MONITORING AND INSPECTION TASKS PERFORMED BY AN AGENCY OR FIRM OTHER THAN THE FABRICATOR OR ERECTOR TO ENSURE THAT THE MATERIAL PROVIDED AND WORK PERFORMED BY THE FABRICATOR AND ERECTOR MEET THE REQUIREMENTS OF THE APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. QUALITY ASSURANCE INCLUDES THOSE TASKS DESIGNATED 'SPECIAL INSPECTION' BY THE APPLICABLE CODE.
    D. QUALITY CONTROL (QC) - CONTROLS AND INSPECTIONS IMPLEMENTED BY THE FABRICATOR OR ERECTOR, AS APPLICABLE, TO ENSURE THAT THE MATERIAL PROVIDED AND WORK PERFORMED MEET THE REQUIREMENTS OF THE APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
    E. OBSERVE (O) - OBSERVE THESE ITEMS ON A RANDOM BASIS (DAILY FOR LFRS). OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
    F. PERFORM (P) - PERFORM THOSE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.
    G. DOCUMENT (D) - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UP, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION REPORT.
12. SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED DURING CONSTRUCTION ON THE WORK SHOWN IN THE CONSTRUCTION DOCUMENTS AS REQUIRED BY CBC CHAPTER 17A, THE TABLES LISTED BELOW, AND THE JURISDICTION'S SPECIAL INSPECTION AND TESTING FORM. IF DISCREPANCIES ARE NOTED, CONTACT THE SEOR. ALL EXCEPTIONS INCLUDED IN CBC CHAPTER 17A ARE PERMITTED TO BE USED.
    - CONCRETE CONSTRUCTION (POST-INSTALLED ANCHORS)

CONCRETE CONSTRUCTION - POST-INSTALLED ANCHORS
REQUIRED SPECIAL INSPECTIONS AND TESTS
CBC TABLE 1705A.3
110TN302

TYPE		CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. INSPECT AND TEST ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. [a,b,c]				
	A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	x	-	ACI 318: 17.8.2.4, 26.7.2, 26.13.1, 26.13.3.2
	B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 1.A.	-	X	ACI 318: 17.8.2, 26.7.2, 26.13.1, 26.13.3.3

A. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK.

B. INSTALLATION OF ALL ADHESIVE ANCHORS IN HORIZONTAL AND UPWARDLY INCLINED POSITIONS SHALL BE PERFORMED BY AN ACI/CRSI CERTIFIED ADHESIVE ANCHOR INSTALLER, EXCEPT WHERE THE FACTORED DESIGN TENSION ON THE ANCHORS IS LESS THAN 100 LBS AND THOSE ANCHORS ARE CLEARLY NOTED ON THE APPROVED CONSTRUCTION DOCUMENTS OR WHERE THE ANCHORS ARE SHEAR DOWELS ACROSS COLD JOINTS IN SLABS ON GRADE WHERE THE SLAB IS NOT PART OF THE LATERAL FORCE-RESISTING SYSTEM.

C. SEE THE POST-INSTALLED ANCHOR NOTES FOR ADDITIONAL INFO.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

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LICENSED ARCHITECT JOHN M FLATH No. C-21560 REN. 12-31-25 STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER JASON A. PASSALACQUA No. 5382 STRUCTURAL STATE OF CALIFORNIA

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	HCAI BACKCHECK 01	11/01/2024

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
HCAI NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: GENERAL NOTES

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
JOHN F.	-	S-101
UCDMC PROJECT MANAGER: ZACH P.	SCALE: AS SHOWN	
DESIGNED BY: AKH	DATE: 07/01/2024	
DRAWN BY: AKH	CAD FILE: -	SHEET / OF

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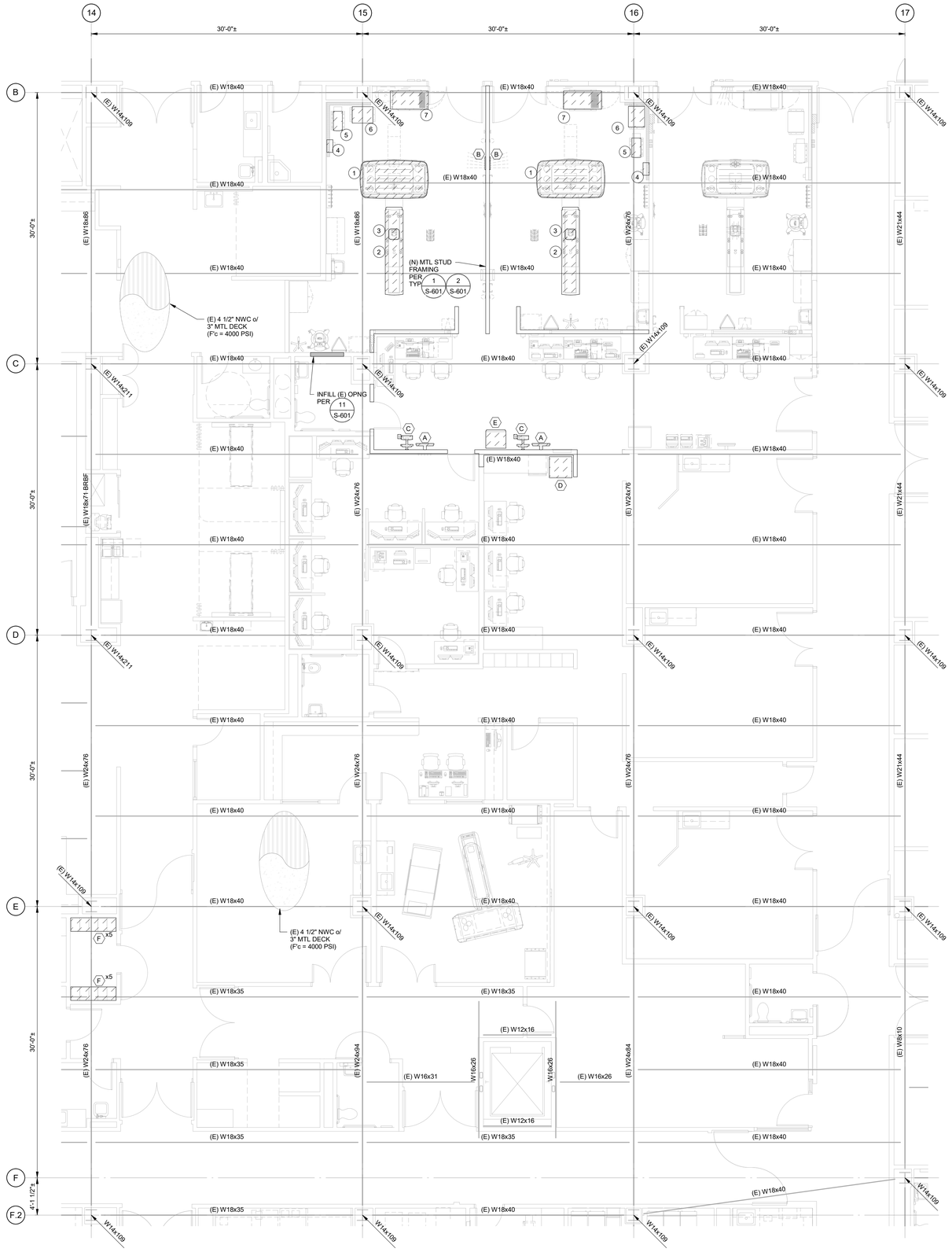
10/30/2024 2:49:08 PM



PARTIAL 1ST FLOOR FRAMING PLAN 3/16" = 1'-0"

A S-201

EQUIPMENT SCHEDULE

ID	DESCRIPTION	WT (LBS)	MOUNTING				CLASSIFICATION						ANCHORAGE DETAIL	COMMENTS
			WALL	FLOOR	COUNTERTOP	SUSPENDED	FIXED	MOVABLE	MOBILE	COUNTERTOP	TEMPORARY	INTERIM	OTHER	
1	GANTRY	5901		X			X							1/S-501	
2	PATIENT TABLE	2152		X			X							2/S-501	WT INCLUDES 675# PATIENT
3	AUTO PATIENT POSITIONING CAMERA	7				X	X							9/S-501	
4	MAIN DISCONNECT PANEL	90	X				X							6/S-501	
5	UPS	775		X			X							8/S-501	
6	POWER DISTRIBUTION UNIT	933		X			X							3/S-501	
7	SYSTEM CABINET	410		X			X							7/S-501	
A	MONITOR	38	X				X							5/S-501	WT INCLUDES TV & MOUNT
B	APRON HANGER	85	X				X							1/S-502	WT INCLUDES CONTENTS
C	GCX WALL MOUNT	64	X				X							2/S-502	WT INCLUDES TV & MOUNT
D	WARMING CABINET	740	X	X				X						3/S-502	WT INCLUDES CONTENTS
E	PYXIS	1050		X				X						14/A640	WT INCLUDES CONTENTS
F	LOCKERS	300	X	X			X							4/S-502	WT INCLUDES CONTENTS

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
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CONSULTANT LOGO

REV.	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

9557740 PROJECT NO.
S241219-34-00 BUILDING NO.
BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
1ST FLOOR FLOOR/WING
SESP 1P742 1P745 CT SCANNER REPLACEMENT PROJECT TITLE
SHEET TITLE: PARTIAL 1ST FLOOR FRAMING PLAN

ARCH'L/ENGR.	PDA'C JOB NO.	SHEET NO.
JOHN F.	-	S-201
CONS. PROJECT MANAGER	SCALE	
ZACH P.	AS SHOWN	
DRAWN BY	DATE	
AKH	07/01/2024	
CHECKED BY	CAD FILE	SHEET / OF
AKH	-	

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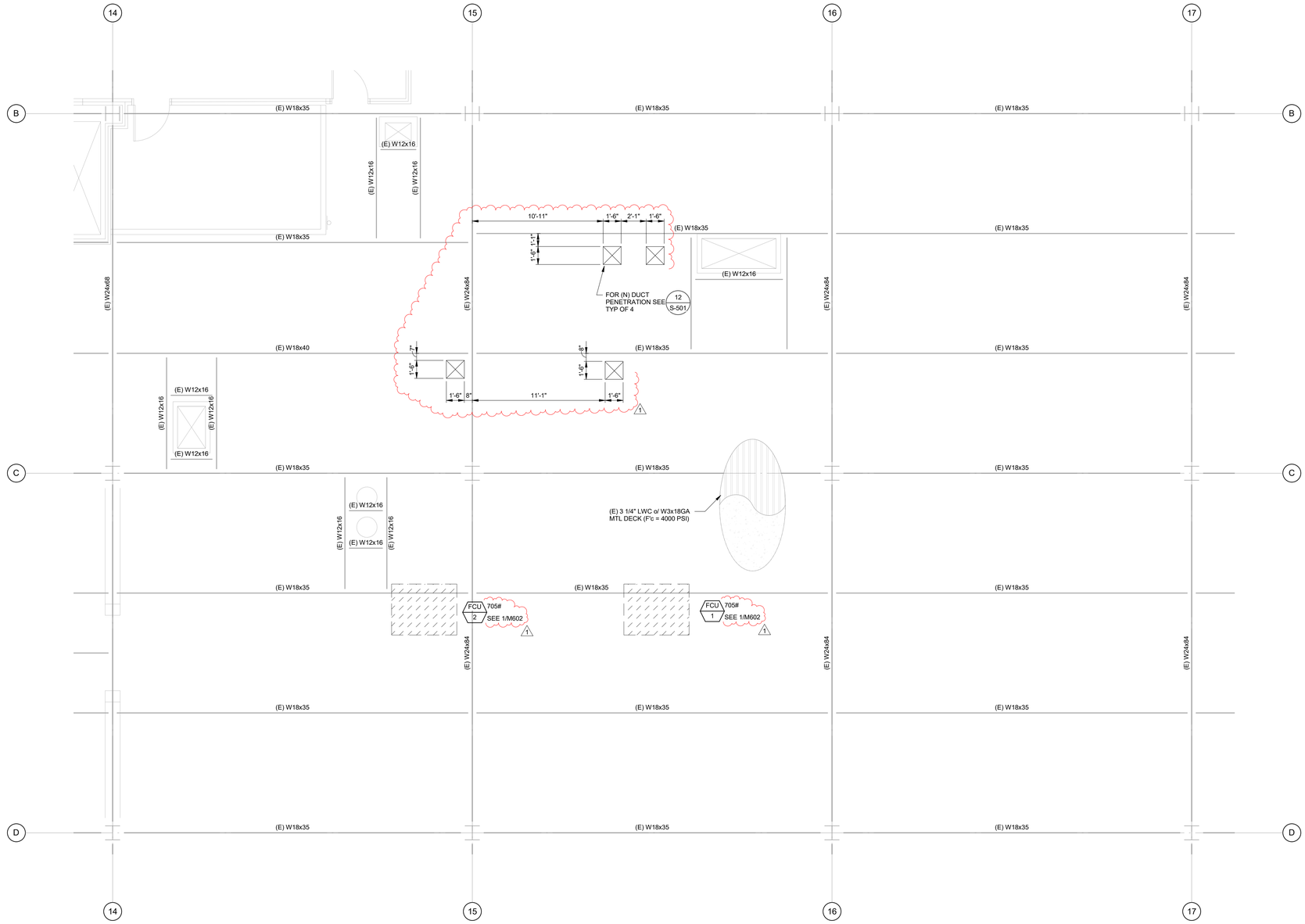

PARTIAL 2ND FLOOR FRAMING PLAN

1/4" = 1'-0"

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APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

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LICENSED ARCHITECT JOHN M FLANN C-21560 REN. 12-31-25 STATE OF CALIFORNIA

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916 443 0303

JASON A PASSALACQUA No. 5382 STRUCTURAL STATE OF CALIFORNIA

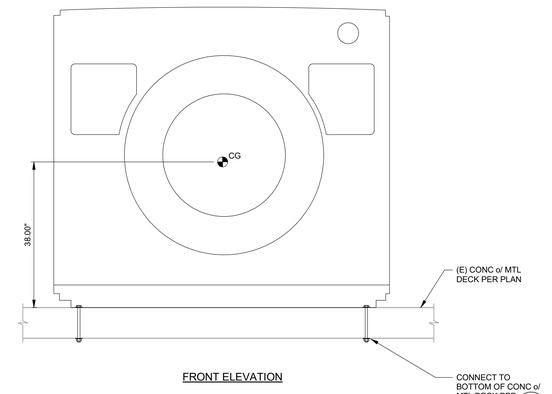
CONSULTANT LOGO:

REV.	REVISION DESCRIPTION	DATE
1	ADDENDUM #1	12/17/2024

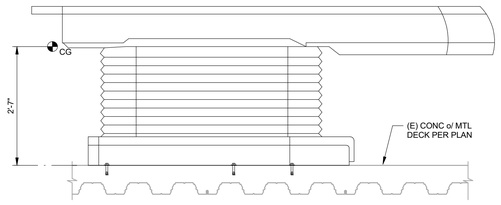
CONSTRUCTION DOCUMENTS

PROJECT NUMBER: 9557740
S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PARTIAL 2ND FLOOR FRAMING PLAN

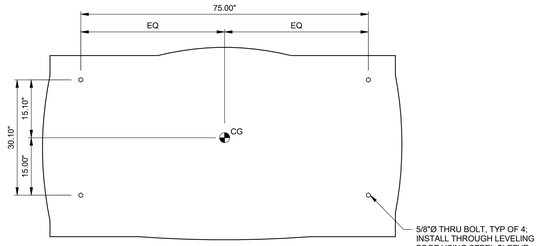
ARCH'S ENGR: JOHN F.	FD&C JOB NO.: -	SHEET NO.: S-202
CONS. PROJECT MANAGER: ZACH P.	SCALE: AS SHOWN	
DESIGNED BY: AKH	DATE: 07/01/2024	
DRAWN BY: AKH	CAD FILE: -	SHEET OF



FRONT ELEVATION



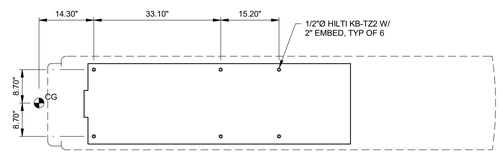
SIDE ELEVATION



PLAN VIEW

1 GE REVOLUTION APEX GANTRY
MAX WT = 5901#

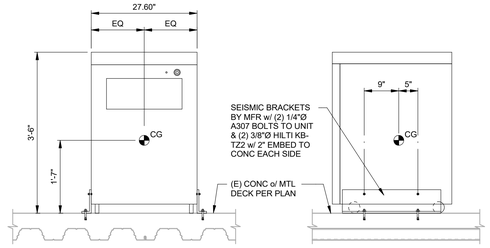
DETAIL 1 / S-501 — 3/4" = 1'-0"



PLAN AT BASE

2 PATIENT TABLE
MAX WT = 2152# (INCLUDING 675# PATIENT)

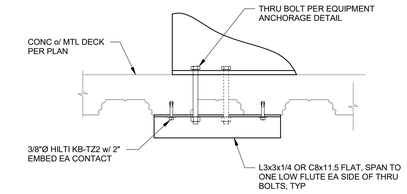
DETAIL 2 / S-501 — 3/4" = 1'-0"



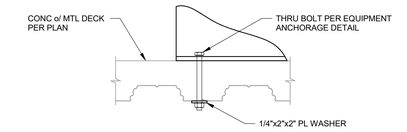
FRONT ELEVATION SIDE ELEVATION

3 POWER DISTRIBUTION UNIT
MAX WT = 933#

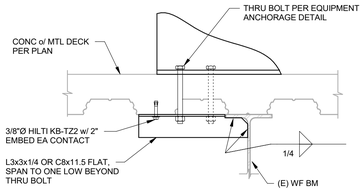
DETAIL 3 / S-501 — 3/4" = 1'-0"



TYPICAL CONNECTION

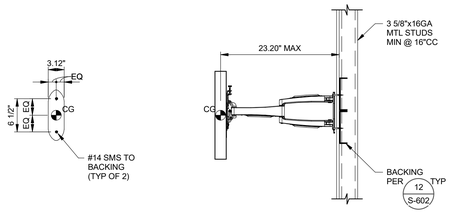


ALTERNATE CONNECTION AT LOW FLUTE



ALTERNATE CONNECTION ADJACENT TO WF BM

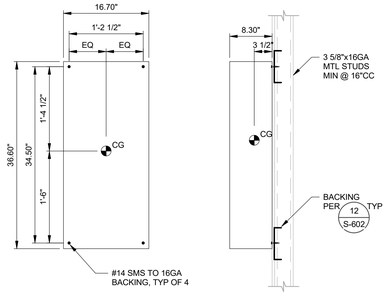
DETAIL 4 / S-501 — NO SCALE



FRONT ELEVATION SIDE ELEVATION

A PEERLESS SMARTMOUNT ARTICULATING WALL ARM
MAX WT = 38# (INCLUDING TV & MOUNT)
OPM-0212-13

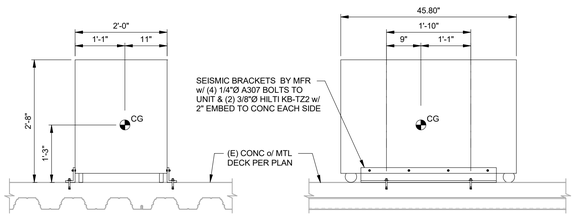
DETAIL 5 / S-501 — NO SCALE



FRONT ELEVATION SIDE ELEVATION

4 MAIN DISCONNECT CONTROL PANEL
MAX WT = 90#

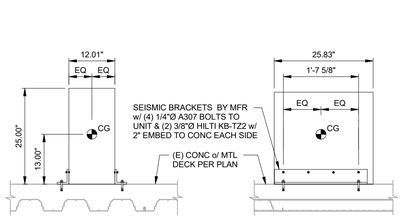
DETAIL 6 / S-501 — 1" = 1'-0"



FRONT ELEVATION SIDE ELEVATION

5 SYSTEM CABINET
MAX WT = 410#

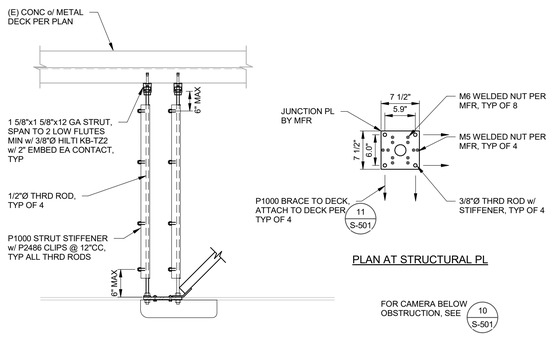
DETAIL 7 / S-501 — 3/4" = 1'-0"



FRONT ELEVATION SIDE ELEVATION

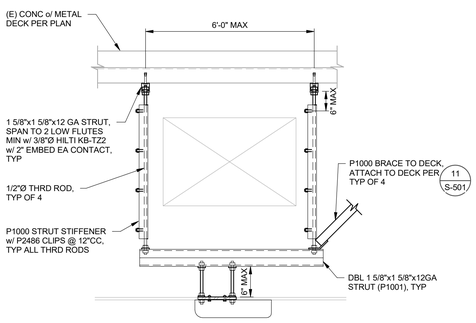
6 UPS
MAX WT = 775#

DETAIL 8 / S-501 — 3/4" = 1'-0"



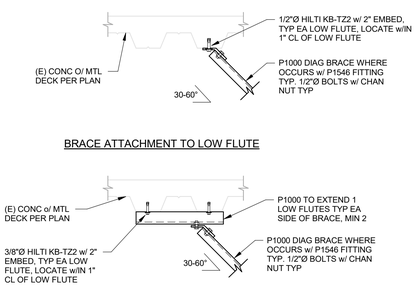
7 AUTO PATIENT POSITIONING CAMERA
MAX WT = 7 #

DETAIL 9 / S-501 — NO SCALE

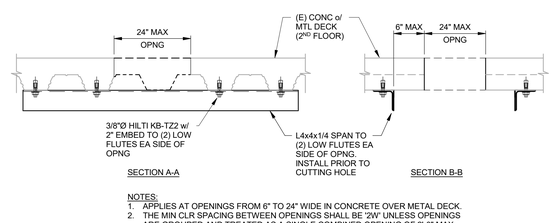


7 AUTO PATIENT POSITIONING CAMERA
MAX WT = 7 #

DETAIL 10 / S-501 — NO SCALE



DETAIL 11 / S-501 — NO SCALE



NOTES:
1. APPLIES AT OPENINGS FROM 6" TO 24" WIDE IN CONCRETE OVER METAL DECK.
2. THE MIN CLR SPACING BETWEEN OPENINGS SHALL BE '2W' UNLESS OPENINGS ARE GROUPED AND TREATED AS A SINGLE COMBINED OPENING OF 2'-0" MAX WIDTH.
3. ANGLE REINF MAY BE OMITTED ONE SIDE OF PENETRATIONS WHERE EDGE OF OPENING OCCURS w/IN 12" OF (E) WF BM

DETAIL 12 / S-501 — NO SCALE
OPENINGS 6" TO 24" IN 2ND FLOOR DECK

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Ray Sanchez

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916 443 0303

JASON A. PASSALACQUA No. 5382 STRUCTURAL STATE OF CALIFORNIA

CONSULTANT LOGO:

REV.	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCESSION NO. 9557740
PROJECT NO. S241219-34-00
BUILDING NO. BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING 1ST FLOOR
PROJECT TITLE SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE DETAILS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
JOHN F.	-	
CONS. PROJECT MANAGER	SCALE	S-501
ZACH P.	AS SHOWN	
REVIEWED BY	DATE	
AKH	07/01/2024	
DRAWN BY	CAD FILE	SHEET OF
AKH	-	

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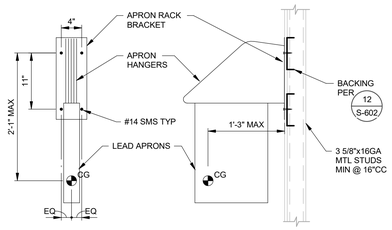
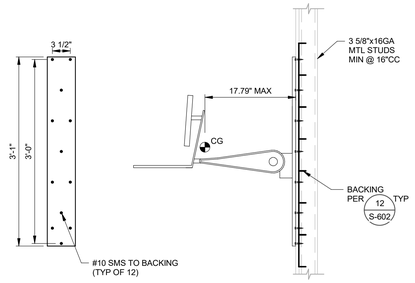


FRONT ELEVATION SIDE ELEVATION

Ⓑ APRON HANGER
MAX WT = 85#

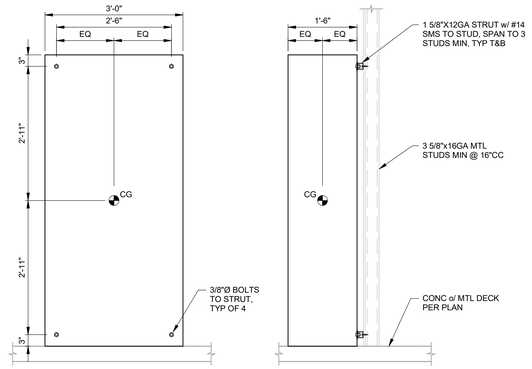
DETAIL 1 S-502 NO SCALE



FRONT ELEVATION SIDE ELEVATION

Ⓒ GCX WALL MOUNT
MAX WT = 64# (INCLUDING CONTENTS)

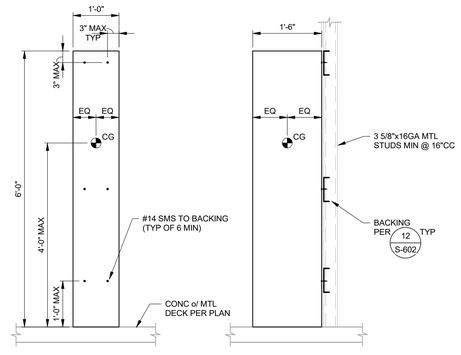
DETAIL 2 S-502 NO SCALE



FRONT ELEVATION SIDE ELEVATION

Ⓓ WARMING CABINET
MAX WT = 740# (INCLUDING CONTENTS)

DETAIL 3 S-502 NO SCALE



FRONT ELEVATION SIDE ELEVATION

Ⓕ LOCKERS
MAX WT = 300# (INCLUDING CONTENTS)

DETAIL 4 S-502 NO SCALE

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LICENSED PROFESSIONAL ENGINEER JASON A. PASSALACQUA No. 5382 STRUCTURAL STATE OF CALIFORNIA

CONSULTANT LOGO

REV.	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

9557740
PROJECT NUMBER
S241219-34-00
BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING
1ST FLOOR
PROJECT TITLE
SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE
DETAILS

ARCH \ ENGR	PD&C JOB NO.	SHEET NO.
JOHN F.	-	S-502
CONSULTANT MANAGER	SCALE	
ZACH P.	AS SHOWN	
PROJECT MGR	DATE	
AKH	07/01/2024	
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AKH	-	

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A S-601 — INTERIOR WALL OPENING FRAMING SCHEDULE

DEFLECTION LIMIT = L/120

"W"[11] MAX WIDTH	JAMBS	HEADER	SILL	HC4-8 SCREW SPCG 3 5/8" & 4" WALLS	HC4-8 SCREW SPCG 6" & 8" WALLS
4'-0"	J1[1,2]	H2	S1		
8'-0"	J2	H4	S2		
12'-0"	J3	HC4-8[3,8]	S3	8"CC	4"CC
16'-0"	J4	HC4-8[4,5,6,8]	S4	8"CC	4"CC

NOTES:
1. USE J2 MINIMUM AT DOOR OPENINGS.
2. USE J2 AT 4'-0" MAX OPNGS IN 20GA WALLS (ALL STUD DEPTHS), 8"x18GA WALLS AND 4"x14GA WALLS.
3. USE 18GA MIN HEADERS AT 12'-0" MAX OPNGS IN 8" WALLS.
4. USE 16GA MIN HEADERS AT 16'-0" MAX OPNGS IN 3 5/8" & 4" WALLS.
5. USE 14GA MIN HEADERS AT 16'-0" MAX OPNGS IN 6" & 8" WALLS UNO.
6. USE HC4-10 HEADERS AT 16'-0" MAX OPNGS IN 8"x14GA WALLS.
7. FOR JAMB, HEADER, AND SILL DETAILS, SEE SHEET **S-602**
8. "H4-8" INDICATES HEADER TYPE AND DEPTH OF VERTICAL STUD ELEMENTS INSIDE HEADER. "HC4-8" INDICATES COMPOSITE HEADER w/ ADDL SCREW REQUIREMENTS, SEE SCHEDULE **8.3/S-602**
9. FOR CONNECTION @ BASE OF WALL AT JAMBS SEE **7/S-601**
10. FOR CONNECTION @ TOP OF WALL AT JAMBS SEE **5/S-601**
11. 'W' WIDTH IS THE MAX WIDTH OF A SINGLE OPENING OR THE COMBINED WIDTH OF SIDE BY SIDE OPENINGS THAT SHARE A SINGLE JAMB STUD CONFIGURATION.
12. FOR HEADERS & SILLS, OPENINGS UP TO 1 1/4" MAX ARE ACCEPTABLE FOR CONDUIT. LOCATE OPENING AWAY FROM CLIPS & FLANGES. (2) HOLES MAX PER HEADER SPACED AT 8" MIN.

B S-601 — INTERIOR METAL STUD PARTITIONS

MAXIMUM HEIGHT FOR METAL STUDS WITH S_{DS} = 0.75, I_P = 1.5
DEFLECTION LIMIT L/120, NON-BEARING WITH DBL CABINETS OR EQUIP

16"CC SPACING

DEPTH	GAUGE	DESIGNATION[3]	MAX HEIGHT
3 5/8"	18	362S162-43	12'-0"
3 5/8"	16	362S162-54	12'-0"
3 5/8"	14	362S162-68	12'-0"
4"	18	400S162-43	12'-0"
4"	16	400S162-54	12'-0"
4"	14	400S162-68	12'-0"
6"	18	600S162-43	12'-0"
6"	16	600S162-54	12'-0"
6"	14	600S162-68	12'-0"
8"	18	800S162-43	12'-0"
8"	16	800S162-54	12'-0"
8"	14	800S162-68	12'-0"

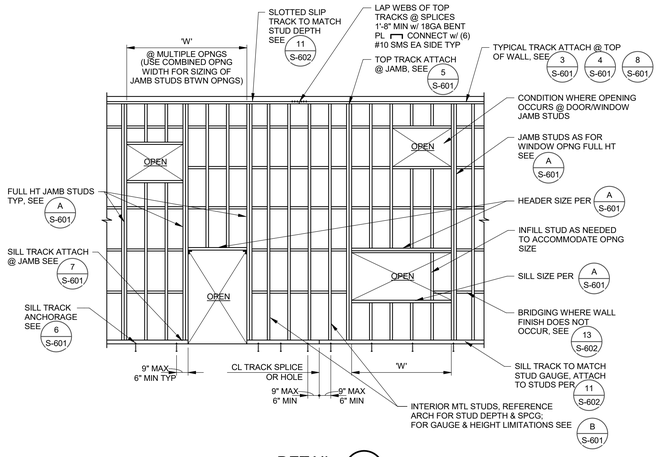
1

NOTES:
1. STUDS SHALL BE DEPTH AS INDICATED ON ARCH DRAWINGS AND GAUGE AS DETERMINED BY THIS SCHEDULE.
2. FOR TYPICAL WALL FRAMING CONDITIONS, SEE **1/S-601** **2/S-601**
3. DESIGNATION CONFORMS TO STEEL STUD MANUFACTURER'S ASSOCIATION STANDARDS.
4. FOR WALL SUPPORTED CABINET INSTALLATION, SEE **14/S-602**
5. THE MAX HEIGHTS NOTED IN THIS SCHEDULE ARE BASED ON THE USE OF SEISMIC COMPONENT LOAD F_P OR A LIVE LOAD OF 5PSF, WHICHEVER GOVERNS.

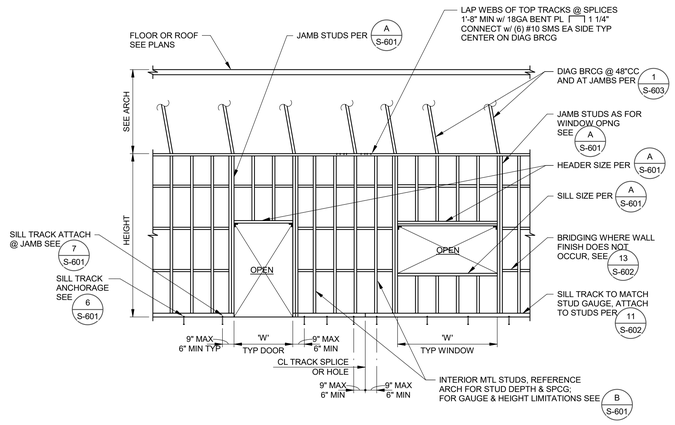
C S-601 — TRACK ATTACHMENT AT JAMB STUDS

JAMB TYPE	TRACK ATTACHMENT METHOD		
	SHOT PINS	SMS	1/2"Ø BOLTS
J1	1	1	1
J2	2	2	1
J3	3	3	1
J4	4	4	2

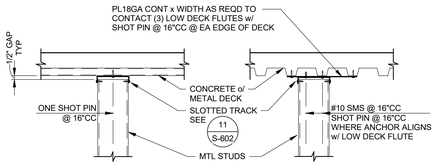
NOTES:
1. SCHEDULE INDICATES TRACK ATTACHMENTS REQUIRED WHERE JAMB STUDS OCCUR. SEE TYPICAL SILL AND TOP TRACK ATTACHMENT DETAILS FOR BASIC ATTACHMENT METHODS (I.E. SHOT PINS, SMS, BOLTS, ETC.) & CONDITIONS BEYOND JAMB STUDS.
2. LOCATE ALL REQUIRED ATTACHMENTS AS CLOSE TO JAMB STUDS AS POSSIBLE. MAINTAIN ALL FASTENER SPACING AND EDGE DISTANCE REQUIREMENTS. AT SHOT PINS, SEE TYPICAL NOTES. AT SMS, MAINTAIN 1.5 x DIAMETER MIN EDGE DISTANCE & SPACING. AT BOLTS, SPACE NO CLOSER THAN 12 DIAMETERS AND NO MORE THAN 9" FROM END OF TRACK.
3. BOLTS SHOULD HAVE 4" EFFECTIVE EMBED DEPTH (MIN.) IN LIEU OF BOLTS, 1/2"Ø HILTI KB-TZ2 BOLTS w/ 3 1/4" EFFECTIVE EMBED MAY BE USED.



DETAIL 1 S-601 — NO SCALE
FULL HEIGHT INTERIOR METAL STUD WALL



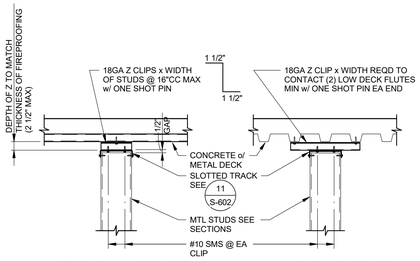
DETAIL 2 S-601 — NO SCALE
PARTIAL HEIGHT INT METAL STUD WALL



WALL PERPENDICULAR TO DECK — WALL PARALLEL TO DECK

NOTES:
1. WHERE WALL IS PARALLEL TO DECK, & WALL CL IS WITHIN 1 1/2" OF CL OF LOW DECK FLUTE, TOP TRACK MAY BE ATTACHED DIRECTLY TO DECK AS IN PERPENDICULAR COND & CONT PL MAY BE OMITTED.
2. SEE SHOT PIN NOTES FOR SPACING, EDGE DISTANCE & PLACEMENT REQUIREMENTS.
3. WHERE BARE METAL DECK OCCURS, ATTACH TRACK OR PL18GA TO DECK WITH #10 SMS @ 16" CC (2 SMS @ PL)
4. FOR COND @ JAMB STUDS SEE **5/S-601**

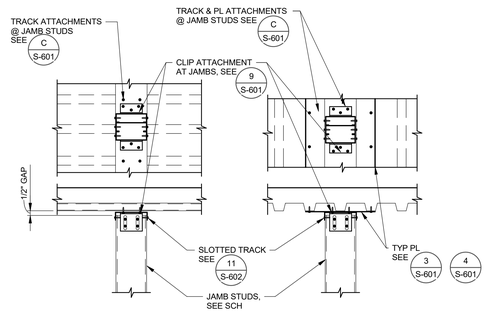
DETAIL 3 S-601 — NO SCALE
SLIP TRACK TO DECK w/ FILL w/o FIREPROOFING



WALL PERPENDICULAR TO DECK — WALL PARALLEL TO DECK

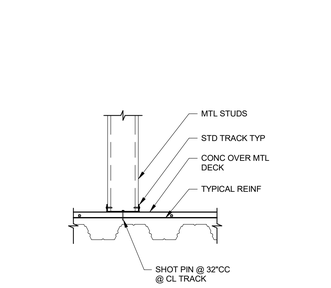
NOTES:
1. AT BARE METAL DECK, USE (2) #10 SMS @ EA CLIP.
2. PROVIDE Z CLIPS AS REQD FOR FASTENERS @ JAMB STUDS, SEE **C/S-601**

DETAIL 4 S-601 — NO SCALE
SLIP TRACK TO DECK w/ FILL w/ FIREPROOFING

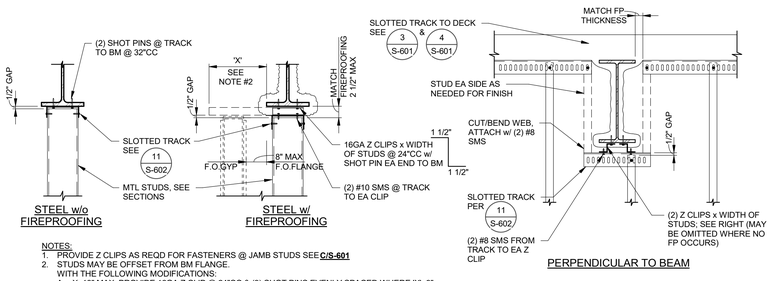


WALL PERPENDICULAR TO DECK — WALL PARALLEL TO DECK

DETAIL 5 S-601 — NO SCALE
JAMB STUD AT TOP TRACK

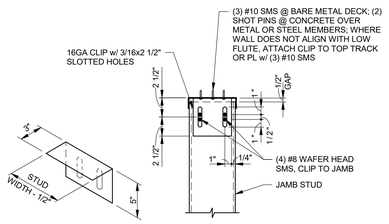


DETAIL 7 S-601 — NO SCALE
JAMB STUD AT SILL TRACK



NOTES:
1. PROVIDE Z CLIPS AS REQD FOR FASTENERS @ JAMB STUDS SEE **C/S-601**
2. STUDS MAY BE OFFSET FROM BM FLANGE. WITH THE FOLLOWING MODIFICATIONS:
   A. X=18" MAX, PROVIDE 16GA Z CLIP @ 24"CC & (3) SHOT PINS EVENLY SPACED WHERE "X">3".
3. NOTIFY THE SEOR PRIOR TO ATTACHING TO MOMENT FRAME BEAMS OUTSIDE OF THE PROTECTED ZONE. NO ATTACHMENTS SHALL BE MADE WITHIN PROTECTED ZONES OF MOMENT FRAME BEAMS.

DETAIL 8 S-601 — NO SCALE
SLIP TRACK TO WF BEAM

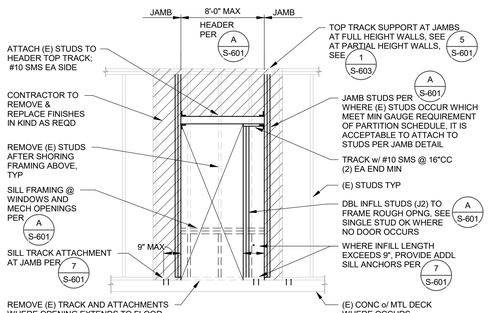


TYPICAL CONDITION

DETAIL 6 S-601 — NO SCALE
SILL TRACK TO METAL DECK w/ FILL

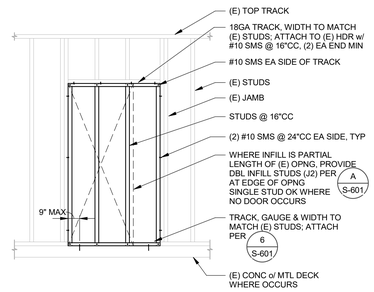
NOTES:
1. PROVIDE CLIP AT ALL EXTERIOR WALL JAMB STUDS AT SLOTTED TRACKS. PROVIDE CLIP AT ALL INTERIOR WALL DEFLECTION TRACKS WHERE OPENING WIDTH IS GREATER THAN 8'-0" WIDE.
2. CLIP TO OCCUR ONE SIDE OF J2 JAMBS, BOTH SIDES OF J3 & J4 JAMBS.

DETAIL 9 S-601 — NO SCALE
JAMB STUD CLIP AT SLIP TRACK



NOTE:
STUD FRAMING TO MATCH DEPTH OF (E) STUDS w/ MIN GAUGE PER INTERIOR METAL STUD PARTITION SCHEDULE

DETAIL 10 S-601 — NO SCALE
OPENING AT (E) WALL



NOTE:
STUD FRAMING TO MATCH DEPTH OF (E) STUDS w/ MIN GAUGE PER INTERIOR METAL STUD PARTITION SCHEDULE

DETAIL 11 S-601 — NO SCALE
OPENING INFILL

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION

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916 443 0303

JASON A. PASSALACQUA No. 5382 STRUCTURAL STATE OF CALIFORNIA

CONSULTANT LOGO

REV.	REVISION DESCRIPTION	DATE
1	PCA BACKCHECK 01	12/17/2024

CONSTRUCTION DOCUMENTS

9557740
S241219-34-00
BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
1ST FLOOR
SESP 1P742 1P745 CT SCANNER REPLACEMENT

SHEET TITLE: METAL STUD DETAILS

ARCH\LENGR.	FD&C JOB NO.	SHEET NO.
JOHN F.	-	S-601
PROJECT MANAGER	SCALE	
ZACH P.	AS SHOWN	
PLOTTED BY	DATE	
AKH	07/01/2024	
DRAWN BY	CAD FILE	SHEET OF
AKH	-	

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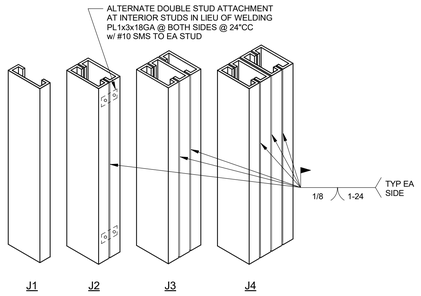
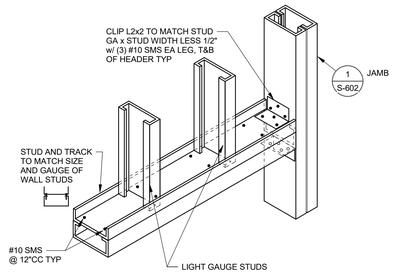
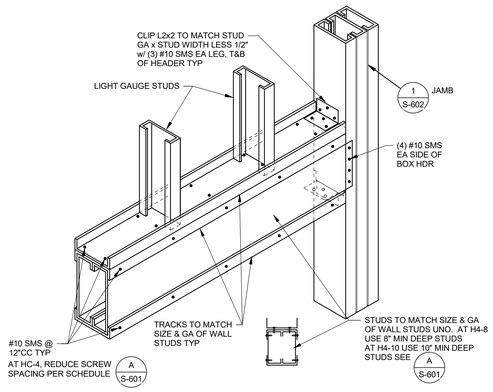


NOTE: JAMB STUDS TO MATCH SIZE AND GAUGE OF WALL STUDS.

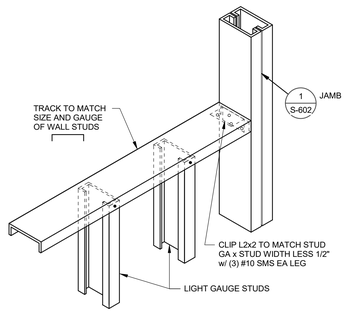
DETAIL JAMB 1 S-602 NO SCALE



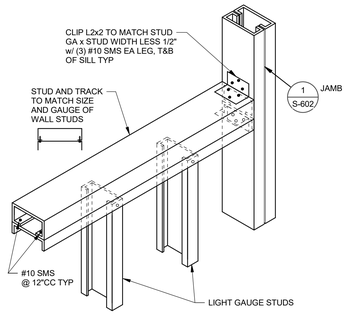
DETAIL H2 HEADER 2 S-602 NO SCALE



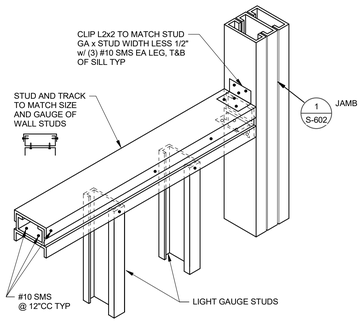
DETAIL H4/HC-4 HEADER 3 S-602 NO SCALE



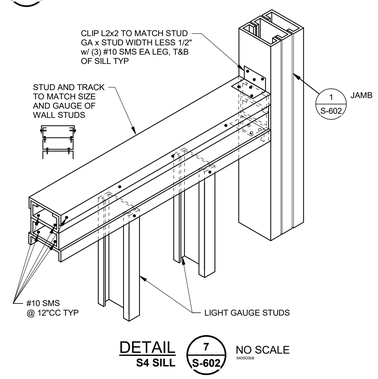
DETAIL S1 SILL 4 S-602 NO SCALE



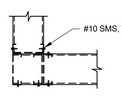
DETAIL S2 SILL 5 S-602 NO SCALE



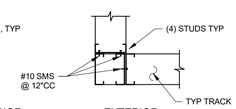
DETAIL S3 SILL 6 S-602 NO SCALE



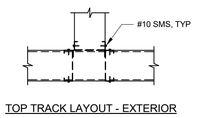
DETAIL S4 SILL 7 S-602 NO SCALE



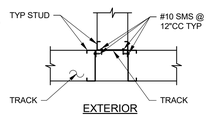
TOP TRACK LAYOUT - EXTERIOR



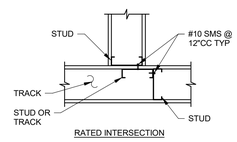
EXTERIOR



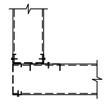
TOP TRACK LAYOUT - EXTERIOR



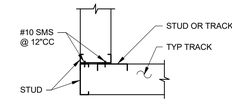
EXTERIOR



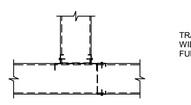
RATED INTERSECTION



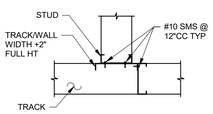
TOP TRACK LAYOUT - INTERIOR



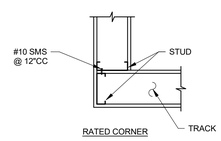
INTERIOR



TOP TRACK LAYOUT - INTERIOR



INTERIOR



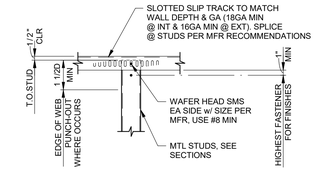
RATED CORNER

NOTE:
FOR WALL FINISH CONSTRUCTION SEE ARCH DRAWINGS

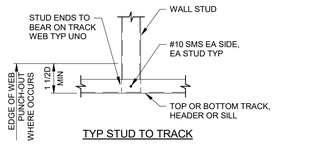
DETAIL WALL CORNER 8 S-602 NO SCALE

DETAIL TEE-INTERSECTION 9 S-602 NO SCALE

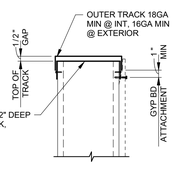
DETAIL FIRE-RATED WALL CORNERS 10 S-602 NO SCALE



TYP STUD TO SLIP TRACK



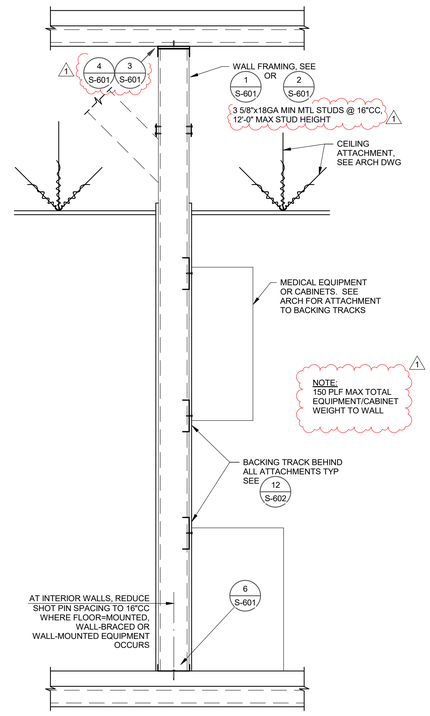
TYP STUD TO TRACK



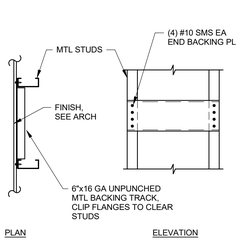
NESTED TRACK ALTERNATE

NOTES:
1. SEE OTHER DETAILS FOR ATTACHMENTS OF T&B TRACK TO STRUCTURE. SCREWS & SHOT PINS @ WEBS OF SLIP TRACKS SHALL BE LOCATED IN SLOTTED HOLES PROVIDED BY MFR.
2. FOR ADDL INFO @ FIRE RATED WALLS, SEE ARCH (FOR WALL TYPE, DETAILS ETC...) & MFR UL LISTING.
3. D = STUD DEPTH
4. WHERE SLOPE OF SUPPORTING STRUCTURE IS GREATER THAN 1:12, A NESTED TRACK ASSEMBLY SHALL BE USED.

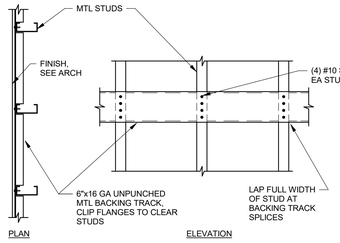
DETAIL STUD TO TRACK CONNECTION 11 S-602 NO SCALE



DETAIL EQUIPMENT/CABINETRY BACKING 14 S-602 NO SCALE



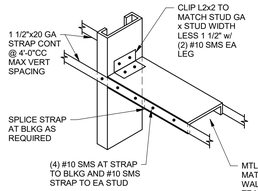
SINGLE BAY CONDITION



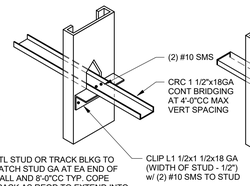
CONTINUOUS CONDITION

NOTE:
IN LIEU OF TRACK, THE FOLLOWING BACKING OPTIONS MAY BE USED. ATTACH TO STUDS AS NOTED ABOVE:
A. 6"X16GA FLAT STRAP FOR MAX LOADS OF 20 LBS/FT w/ A MAX CONCENTRATED LOAD OF 50 LBS. STRAP SHALL BE CONT OVER 3 STUDS MIN
B. 6"X16GA (600NS050-54) NOTCHED STUD BACKING BY SCAFCO OR APPROVED EQUAL

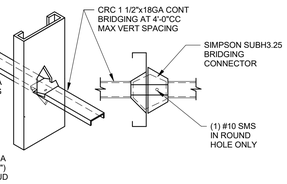
DETAIL BACKING ATTACHMENT 12 S-602 NO SCALE



STRAP BRIDGING
FOR ANY SIZE STUD



COLD ROLLED CHANNEL (CRC) BRIDGING
FOR 8" OR SMALLER STUDS



ALTERNATE BRIDGING CONNECTION
FOR 8" OR SMALLER STUDS

NOTES:
1. BRIDGING FOR 8" AND SMALLER STUDS MAY BE CONSTRUCTED OF COLD-ROLLED CHANNEL OR STRAPS AT CONTRACTOR'S OPTION UNLESS NOTED OTHERWISE.
2. WHERE FULL HEIGHT SHEATHING OR GYP BOARD OCCURS ON BOTH SIDES OF METAL STUD FRAMING, THE BRIDGING MAY BE OMITTED.
3. AT COND WHERE STRAP BRIDGING IS USED & WHERE WALL SHEATHING OR GYP BOARD OCCURS ON ONE SIDE OF WALL ONLY, STRAP MAY BE OMITTED ON SIDE OF WALL WHERE SHEATHING OR GYP OCCURS.

DETAIL STUD BRIDGING 13 S-602 NO SCALE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
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SACRAMENTO, CA 95811
916 443 0303

LICENSED PROFESSIONAL ENGINEER JASON A PASSALACQUA No. 5382 STRUCTURAL STATE OF CALIFORNIA

CONSULTANT LOGO

REV.	REVISION DESCRIPTION	DATE
1	ADDENDUM 01	12/17/2024

CONSTRUCTION DOCUMENTS

9557740
S241219-34-00
BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
1ST FLOOR
SESP 1P742 1P745 CT SCANNER REPLACEMENT

SHEET TITLE: METAL STUD DETAILS

ARCH \ ENGR	FD&C JOB NO.	SHEET NO.
JOHN F.	-	S-602
CONST. PROJECT MANAGER	SCALE	
ZACH P.	AS SHOWN	
DESIGNED BY	DATE	
AKH	07/01/2024	
DRAWN BY	CAD FILE	SHEET
AKH	-	

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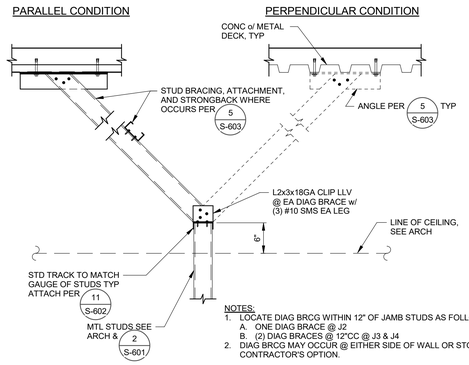
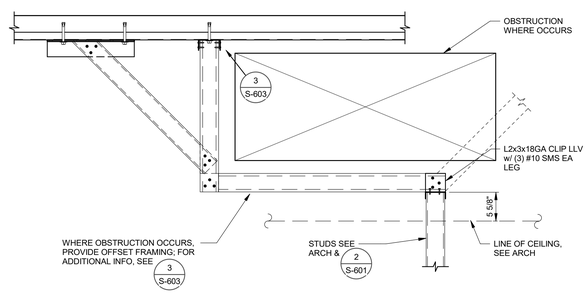
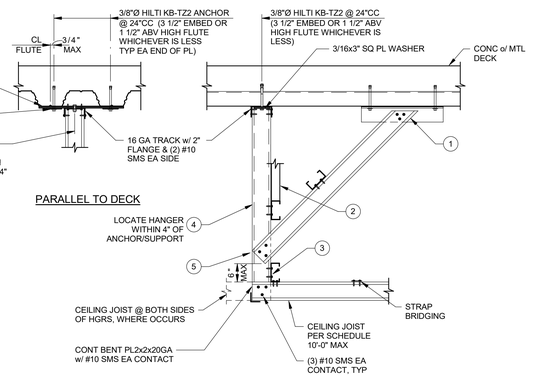


DETAIL 1 S-603 NO SCALE
BRACING AT PART HT PARTITION WALL



NOTE:
FOR INFORMATION NOT SHOWN OR NOTED, SEE **1/S-603**

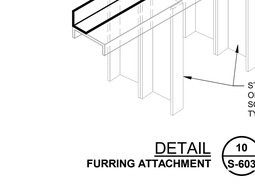
DETAIL 2 S-603 NO SCALE
OBSTRUCTION AT PART HT PARTITION WALL



NOTES:
1. TRANSVERSE DIAG BRACING & CONN PER **5/S-603** . BRACING NEED ONLY BE INSTALLED ON ONE LINE OF HANGER STUDS WHERE SOFFIT IS LESS THAN 10'-0" WIDE.
2. 3 5/8"x18 GA LONG BRACE @ 10'CC w/ (2) #10 SMS EA STUD WHERE SHEATHING IS NOT INSTALLED ON AT LEAST ONE SIDE OF HANGERS OR WHERE JOISTS OCCUR BOTH SIDES. BRACE SHALL BE SLOPED AT 45 DEGREES.
3. 3 5/8"x18 GA CONTINUOUS STRONGBACK. AT HANGER/JOIST INTERSECTIONS, ATTACH STRONGBACK TO HANGER & JOIST w/ (2)#10 SMS EA.
4. 3 5/8"x18 GA HANGER STUDS SPACED @, 16" CC TYP. PROVIDE BRIDGING AS IN **13/S-602** .
5. SEE **9/S-603** FOR BRACE ATTACHMENT AT STUD
6. FRAME OPENINGS IN VERTICAL FACE OF SOFFITS AS IN **A/S-601** MAXIMUM OPENING WIDTH = 4'-0"

TYPICAL HANGING SOFFIT @ CONC o/ MTL DECK

DETAIL 3 S-603 NO SCALE
FRAMED SOFFIT AT METAL DECK w/ FILL



NOTES:
1. 4"x14GA TRACK MAY BE USED IN LIEU OF L3x3x14GA.
2. STUD BRCG SHALL BE 3 5/8x20GA STUDS @ 48"CC TYP UNO. MAX SPAN LENGTH = 12'-0".
3. (4) #10 SMS TYP; (3) #10 SMS @ SOFFIT BRACING

PERPENDICULAR TO FLUTES

PARALLEL TO FLUTES

BRACE ATTACHMENT AT COMPOSITE DECK

DETAIL 5 S-603 NO SCALE
BRACING AT METAL DECK w/ FILL

NOTES:
1. PROVIDE Z CLIPS AS REQD FOR FASTENERS @ JAMB STUDS SEE **C/S-601**
2. FOR ADDITIONAL INFORMATION @ SUSPENDED SOFFITS SEE **3/S-603**
3. WELD CLIP TO BEAM AS SHOWN BELOW WHERE 'X'>3".
4. NOTIFY THE SEOR PRIOR TO ATTACHING TO MOMENT FRAME BEAMS OUTSIDE OF THE PROTECTED ZONE. NO ATTACHMENTS SHALL BE MADE WITHIN PROTECTED ZONES OF MOMENT FRAME BEAMS.

DETAIL 7 S-603 NO SCALE
SOFFIT TO WF BEAM

DETAIL 8 S-603 NO SCALE
STRONGBACK SPLICE

DETAIL 9 S-603 NO SCALE
BRACE ATTACHMENT AT STUD

DETAIL 10 S-603 NO SCALE
FURRING ATTACHMENT

DETAIL 4 S-603 NO SCALE
SINK CARRIER BACKING

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

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CONSULTANT LOGO

REV.	REVISION DESCRIPTION	DATE
1	TYPICAL BACKCHECK #1	7/01/2024

CONSTRUCTION DOCUMENTS

© 9557740 S241219-34-00 BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: METAL STUD DETAILS

ARCH / ENGR	PD&C JOB NO.	SHEET NO.
JOHN F.	-	S-603
CONSTRUCTION MANAGER	SCALE	
ZACH P.	AS SHOWN	
DESIGNED BY	DATE	
AKH	07/01/2024	
DRAWN BY	CAD FILE	SHEET OF
AKH	-	

10/30/2024 2:46:12 PM c:\revit\2023-0212.00_UCD SESP CT Phase 2_R22_Central_ahopkinsBUE.rvt

SHEET INDEX

M001	MECHANICAL LEGEND, NOTES AND SHEET INDEX
M002	MECHANICAL SCHEDULES
M111	PARTIAL 1ST FLOOR MECHANICAL AIR BALANCE PRECAUTIONS PLAN
M511	ENLARGED 1ST FLOOR MECHANICAL PLANS
M512	ENLARGED 2ND FLOOR MECHANICAL PLAN
M601	MECHANICAL DETAILS
M602	MECHANICAL DETAILS
M603	MECHANICAL DETAILS
M604	MECHANICAL DETAILS
M605	MECHANICAL DETAILS
M701	MECHANICAL CONTROLS

1

GENERAL NOTES

1. CONTRACTOR SHALL VISIT SITE TO REVIEW SCOPE OF WORK PRIOR TO SUBMISSION OF BID.
2. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT PLACEMENT OF NEW WORK. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE PROCEEDING WITH WORK. EXACT PLACEMENT SHALL BE COORDINATED BASED ON ACTUAL FIELD MEASUREMENTS AND CONDITIONS.
3. COORDINATE REQUIREMENTS OF NEW WORK WITH OTHER TRADES AND PROVIDE ALL NECESSARY APPURTENANCES AND INCIDENTAL LABOR, INCLUDING PARTS AND ACCESSORIES, CONNECTIONS, SYSTEM START-UP AND TESTING AS REQUIRED TO ACHIEVE A COMPLETE FULLY FUNCTIONING INSTALLATION READY FOR OPERATION.
4. PRIOR TO FABRICATION, CONTRACTOR SHALL PREPARE FULLY COORDINATED DETAILED SHOP DRAWINGS (DRAWN TO SCALE) OF ALL PROJECT WORK AND SUBMIT TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL INCLUDE DETAILED PLAN VIEW LAYOUTS (1/4" SCALE MINIMUM) SHOWING EQUIPMENT, DUCTWORK AND PIPING WITH DUCT AND PIPE SIZES AND ELEVATIONS ABOVE FINISHED FLOOR. COORDINATE WORK WITH OTHER TRADES AS REQUIRED TO ACHIEVE INTENDED ARCHITECTURAL ELEVATIONS.
5. AVOID ROUTING PIPING ABOVE ELECTRICAL EQUIPMENT AND CABLE TRAYS. WHERE INSTALLATION OF PIPING ABOVE ELECTRICAL EQUIPMENT OR CABLE TRAYS IS UNAVOIDABLE, INSTALL PIPING WITH A MINIMUM NUMBER OF JOINTS. JOINTS, FITTINGS, VALVES OR SIMILAR COMPONENTS SHALL BE LOCATED A MINIMUM OF 36 INCHES FROM EACH SIDE OF EQUIPMENT OR TRAY. PROVIDE DRIP PAN(S) WITH MOISTURE DETECTION ABOVE CRITICAL EQUIPMENT.
6. ALL WORK SHALL COMPLY WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 (2022 EDITION), INCLUDING THE CALIFORNIA BUILDING CODE (CBC), CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC), CALIFORNIA FIRE CODE (CFC), CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA ENERGY CODE AND CALIFORNIA ELECTRICAL CODE.
7. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE GENERAL CONDITIONS OF THE PRIME CONTRACT.
8. CONSTRUCTION SHALL BE ORGANIZED IN SUCH A MANNER AS TO MINIMIZE DISRUPTION TO FACILITY OPERATIONS AND DISTURBANCE OF OCCUPANTS. NOTIFY OWNER'S REPRESENTATIVE A MINIMUM OF 48 HOURS IN ADVANCE OF ANY REQUIRED SYSTEM SHUTDOWNS, DISTURBANCE OF OR ENCROACHMENT INTO OCCUPIED AREAS. PERFORM ACTIVITIES SUCH AS MASONRY DRILLING AND SAWCUTTING ONLY DURING DESIGNATED HOURS; DAMPEN NOISE AND VIBRATION TRANSMITTED TO OCCUPIED AREAS TO THE GREATEST EXTENT POSSIBLE. MAINTAIN EGRESS FROM OCCUPIED AREAS AT ALL TIMES. DO NOT OBSTRUCT OR OTHERWISE IMPEDE PEDESTRIAN OR VEHICULAR TRAFFICWAYS CRITICAL TO THE ONGOING OPERATION OF THE FACILITY.
9. CONTRACTOR SHALL COMPLY WITH THE FACILITY'S POLICIES AND PROCEDURES REGARDING CONTAINMENT /ISOLATION OF CONSTRUCTION AREAS AND ACTIVITIES THROUGHOUT CONSTRUCTION OF THE PROJECT. PROVIDE DUST PROTECTION, CONSTRUCTION BARRIERS, AND /OR FILTRATION ON HVAC SYSTEM INLETS AS REQUIRED TO PROTECT OCCUPIED AREAS AND AFFECTED HVAC SYSTEMS FROM CONTAMINATION BY AIRBORNE POLLUTANTS (INCLUDING DUST, SMOKE, FUMES AND ODORS) GENERATED BY CONSTRUCTION ACTIVITIES.
10. MEANS, METHODS AND TIMING OF WORK SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE INSOFAR AS THEY AFFECT FACILITY OPERATIONS. MEANS AND METHODS ARE STILL SUBJECT TO ACCEPTANCE BY THE AUTHORITY HAVING JURISDICTION AND MUST COMPLY WITH DESIGN AND CODE INTENT.
11. PRE-APPROVED PIPES, DUCTS, AND CONDUITS SEISMIC BRACING
    A. THE CONTRACTOR SHALL PROVIDE LAYOUT DRAWINGS OF THE SUPPORTS, ATTACHMENTS, AND BRACING SYSTEMS IN ACCORDANCE WITH THE SELECTED HCAI PRE-APPROVED SYSTEM AND SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE OF THE PROJECT FOR REVIEW TO VERIFY THAT THE DETAILS ARE IN CONFORMANCE WITH THE CODE REQUIREMENTS. THE LAYOUT DRAWINGS SHALL AS A MINIMUM SATISFY THE REQUIREMENTS OF ASCE 7 SECTION 13.6 AS MODIFIED BY THE CBC 2022 SECTION 1617A.
        a) THE STRUCTURAL ENGINEER OF RECORD (SEOR) SHALL VERIFY THAT THE SUPPORTING STRUCTURE IS ADEQUATE FOR THE FORCES IMPOSED ON IT BY THE SUPPORTS, ATTACHMENTS, AND BRACES INSTALLED IN ACCORDANCE WITH THE PRE-APPROVAL IN ADDITION TO ALL OTHER LOADS.
        b) THE SEOR SHALL FORWARD THE SUPPORTS, ATTACHMENTS, AND BRACING DRAWINGS (INCLUDING APPROVED AMENDED CONSTRUCTION DOCUMENTS FOR SUPPLEMENTARY FRAMING WHERE REQUIRED) TO THE DISCIPLINE IN RESPONSIBLE CHARGE WITH A NOTATION INDICATING THAT THE DRAWINGS HAVE BEEN REVIEWED AND ARE IN GENERAL CONFORMANCE WITH THE PRE-APPROVAL AND THE DESIGN OF THE PROJECT.
        c) A "SHOP DRAWING STAMP" MAY BE USED TO INDICATE COMPLIANCE WITH THIS REQUIREMENT.
        d) THE REGISTERED DESIGN PROFESSIONAL (RDP) OTHER THAN SEOR, MAY PROVIDE THE SHOP DRAWING STAMP FOR SMALL PROJECTS AT THE DISCRETION OF THE HCAI DISTRICT STRUCTURAL ENGINEER.
    B. THE SEOR SHALL DESIGN ANY SUPPLEMENTARY FRAMING THAT IS NEEDED TO RESIST THE LOADS, MAINTAIN STABILITY AND/OR IS REQUIRED FOR INSTALLATION OF PRE-APPROVED SYSTEM.
        a) THE SUPPLEMENTARY FRAMING SHALL BE SUBMITTED TO HCAI AS AN AMENDED CONSTRUCTION DOCUMENTS (ACD).
    C. THE LAYOUT DRAWINGS (WITH THE SHOP DRAWING STAMP) SHALL BE SUBMITTED TO HCAI TO REVIEW:
        a) STRUCTURE SUPPORTING THE DISTRIBUTION SYSTEM HAS ADEQUATE CAPACITY.
        b) SEISMIC DESIGN FORCES (FP) ARE IN ACCORDANCE WITH THE CBC 2022.
        c) VERIFY THAT SUBMITTAL IS WITHIN THE SCOPE OF HCAI PRE-APPROVAL OF MANUFACTURER'S CERTIFICATION (OPM).
12. REFER TO STRUCTURAL DRAWINGS FOR SEISMIC CRITERIA.
13. THE EQUIPMENT MANUFACTURERS AND MODELS SPECIFIED ON THE DRAWINGS SERVE AS THE BASIS OF DESIGN. NO SUBSTITUTIONS OF ANY EQUIPMENT ARE ALLOWED WITHOUT FIRST OBTAINING APPROVAL FROM THE OWNER'S REPRESENTATIVE. ANY PROPOSED SUBSTITUTIONS MUST BE FROM ONE OF THE ALTERNATE MANUFACTURERS LISTED IN THE SPECIFICATIONS; MUST MATCH THE PHYSICAL CONFIGURATION AND REQUIREMENTS OF THE SPECIFIED MODEL INCLUDING OVERALL DIMENSIONS, INLET AND OUTLET CONFIGURATION, REQUIRED CLEARANCES, ACCESS AND POWER REQUIREMENTS; AND MUST MEET SEISMIC CERTIFICATION REQUIREMENTS WHERE MANDATED BY THE AUTHORITY HAVING JURISDICTION PERFORMANCE FEATURES AND CONSTRUCTION OF ANY PROPOSED SUBSTITUTION SHALL MEET OR EXCEED THOSE SPECIFIED ON THE DRAWINGS AND IN THE SPECIFICATIONS. STRUCTURAL ENGINEERING CALCULATIONS FOR EQUIPMENT SUPPORT AND ANCHORAGE SHALL BE SUBMITTED BY THE CONTRACTOR AT THE TIME OF SUBMITTAL OF ANY SUBSTITUTION FOR REVIEW BY THE ARCHITECT, MECHANICAL AND STRUCTURAL ENGINEERS OF RECORD, AND HCAI FIELD PERSONNEL. SUBSTITUTIONS REQUIRING CHANGES TO THE CONTRACT DOCUMENTS BY MEANS OF A CHANGE ORDER ARE NOT ALLOWED.
14. WHERE EXISTING UTILITIES NOT SHOWN ON THE DRAWINGS ARE ENCOUNTERED, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY. SUPPORT AND PROTECT UTILITIES UNTIL PROVISIONS CAN BE MADE FOR RELOCATION OR OTHER SOLUTION.
15. CUTTING AND DEMOLITION WORK SHALL NOT COMPROMISE STRUCTURAL INTEGRITY OF THE EXISTING CONSTRUCTION OR DAMAGE PORTIONS OF EXISTING WORK TO REMAIN.
16. OWNER RESERVES THE RIGHT TO RETAIN ALL MATERIALS AND EQUIPMENT REMOVED FROM THE PROJECT. ANY ITEMS OR MATERIALS NOT DESIRED BY THE OWNER SHALL BE REMOVED FROM THE OWNER'S PROPERTY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
17. COORDINATE METHOD, ROUTE AND TIMING OF MATERIAL AND DEBRIS REMOVAL WITH OWNER'S REPRESENTATIVE PRIOR TO ANY REMOVAL.
18. PATCH AND REPAIR ANY DAMAGE TO WALLS, FLOORS, CEILINGS, CABINETS, HARDWARE, WINDOWS, FIXTURES, ETC. RESULTING FROM PROJECT WORK. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR DRYWALL AND FINISH PATCHWORK AND REPAIR REQUIREMENTS. MATCH EXISTING FINISHES AS CLOSELY AS POSSIBLE UNLESS NOTED OTHERWISE. PATCHES AND REPAIRS SHALL RESTORE FINISH TO "LIKE NEW" CONDITION.
19. SEAL AND PROTECT ALL PIPE, DUCT AND CONDUIT PENETRATIONS OF FLOORS, WALLS, CEILINGS AND ROOF. METHODS AND MATERIALS USED FOR TREATMENT OF PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE U.L. AND FIRE MARSHAL APPROVED.
20. ALL LOCATIONS FOR SAW-CUTTING OF CONCRETE SLABS, CORING OF CONCRETE SURFACES, DRILLING FOR ANCHOR BOLTS, ETC. SHALL BE COORDINATED WITH AND APPROVED BY A CALIFORNIA LICENSED STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
21. ALL ROOFING AND FLASHING ELEMENTS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ALL ROOFING AND FLASHING DETAILS.
22. CONTRACTOR MAY SUBSTITUTE NEW ROUND OR RECTANGULAR DUCT SHOWN ON PLANS WITH ROUND OR RECTANGULAR DUCT OF EQUIVALENT OR GREATER CROSS-SECTIONAL AREA. CONTRACTOR TO INDICATE ON SHOP DRAWING SUBMITTAL WHERE SUCH SUBSTITUTIONS OCCUR. CONTRACTOR TO BE RESPONSIBLE FOR RE-ENGINEERING ALL DUCTWORK SUPPORTS FOR SUBSTITUTED DUCTWORK.
23. CONTRACTOR SHALL COORDINATE FINAL THERMOSTAT LOCATIONS WITH OTHER TRADES, INCLUDING ARCHITECTURAL, ELECTRICAL AND FIRE ALARM.
24. CONTRACTOR SHALL LABEL ALL VALVES SEQUENTIALLY USING THE EXISTING FACILITY TAG INVENTORY LIST. USE METAL TAGS. TAGS SHALL TO BE 2" DIAMETER AND FABRICATED OF BRASS OR STAINLESS STEEL. TAGS SHALL BE ATTACHED WITH JACK CHAIN MADE FROM THE SAME MATERIAL.
25. MECHANICAL EQUIPMENT TAGS USED WITHIN THESE PROJECT DRAWINGS ARE GENERIC FOR PROJECT DOCUMENT DEVELOPMENT AND DESIGN TEAM COORDINATION. CONTRACTOR SHALL COORDINATE THE PREFERRED EQUIPMENT TAGS/NAMING WITH THE UNIVERSITY REPRESENTATIVE. UPDATED TAG/NAMING INFORMATION SHALL BE INCLUDED IN THE CONTRACTOR AS-BUILTS AND PROJECT RECORD DRAWINGS SUBMITTAL AT PROJECT COMPLETION.
26. ALL NEW WASTE PIPING SHALL BE SLOPED UNIFORMLY BETWEEN THE UPPER TERMINAL OF THE WASTE SYSTEM AND/OR SITE PIPING NOT LESS THAN ¼" PER FOOT, UNLESS OTHERWISE NOTED. WHERE SLOPES LESS THAN ¼" PER FOOT ARE INDICATED, THE NEW PIPING SHALL BE SLOPED TO ACHIEVE THE MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN INDICATED OR ALLOWED BY CODE.

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HCAI INTENT NOTE

THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2022 CBC. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2022 CBC, AMENDED CONSTRUCTION DOCUMENTS (ACDs) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY HCAI BEFORE PROCEEDING WITH THE WORK.

MECHANICAL LEGEND

ABBREVIATIONS

AC	ABOVE CEILING	HC	HEATING COIL	POD	POINT OF DISCONNECT
AFF	ABOVE FINISHED FLOOR	HEX	HEAT EXCHANGER	PRV	PRESSURE REDUCING VALVE
AHU	AIR HANDLING UNIT	HP	HORSEPOWER	PSI	POUNDS PER SQUARE INCH
ARCH	ARCHITECT	HPR	HIGH PRESSURE CONDENSATE RETURN	PSIG	POUNDS PER SQUARE INCH GAUGE
		HPS	HIGH PRESSURE STEAM, ABOVE 60 PSIG		
BHP	BRAKE HORSEPOWER	HRP	HEAT RECOVERY PUMP	RA	RETURN AIR
BOD	BOTTOM OF DUCT	HRR	HEAT RECOVERY RETURN	RF	RETURN FAN
BOP	BOTTOM OF PIPE	HRS	HEAT RECOVERY SUPPLY	RH	RELATIVE HUMIDITY
BTUH	BRITISH THERMAL UNIT PER HOUR	HVAC	HEATING VENTILATION & AIR CONDITIONING	RHC	REHEAT COIL
BV	BUTTERFLY VALVE	HWP	HEATING WATER PUMP	RM	ROOM
		HWR	HEATING WATER RETURN	RPM	REVOLUTIONS PER MINUTE
CA	COMPRESSED AIR	HWS	HEATING WATER SUPPLY	RTS	REFER TO SPECIFICATIONS
CAV	CONSTANT AIR VOLUME				
CD	CONDENSATE DRAIN	IWC	INCHES OF WATER COLUMN	SA	SUPPLY AIR
CFM	CUBIC FEET PER MINUTE			SCD	SECONDARY CONDENSATE DRAIN
CHWP	CHILLED WATER PUMP	KW	KILOWATTS	SCH	SCHEDULE
CHWR	CHILLED WATER RETURN			SD	SMOKE DETECTOR
CHWS	CHILLED WATER SUPPLY	LAT	LEAVING AIR TEMPERATURE	SF	SUPPLY FAN
CU	CONDENSING UNIT	LBS	POUNDS	SHT	SHEET
CWP	CONDENSER WATER PUMP	LP	LOW PRESSURE	SHWP	SECONDARY HOT WATER PUMP
CWR	CONDENSER WATER RETURN	LPR	LOW PRESSURE CONDENSATE RETURN	SM	SHEET METAL
CWS	CONDENSER WATER SUPPLY	LPS	LOW PRESSURE STEAM, 5-15 PSIG	SQ FT	SQUARE FOOT
		LWT	LEAVING WATER TEMPERATURE	SST	STAINLESS STEEL
DET	DETAIL				
DIA	DIAMETER	MAX	MAXIMUM	TE	TERMINAL EXHAUST
DN	DOWN	MBH	1,000 BRITISH THERMAL UNITS PER HOUR	TR	TERMINAL RETURN
DSD	DUCT SMOKE DETECTOR	MCC	MOTOR CONTROL CENTER	TS	TERMINAL SUPPLY
DWG	DRAWING	MD	MOTORIZED DAMPER	TSTAT	THERMOSTAT
		MFR	MANUFACTURER	TH	THERMOMETER
(E)	EXISTING	MIN	MINIMUM	TSP	TOTAL STATIC PRESSURE
(ER)	EXISTING RELOCATED	MISC	MISCELLANEOUS	TYP	TYPICAL
EA	EXHAUST AIR	MPR	MEDIUM PRESSURE CONDENSATE RETURN		
EAT	ENTERING AIR TEMPERATURE	MPS	MEDIUM PRESSURE STEAM, 16-59 PSIG	UF	UNDER FLOOR
EF	EXHAUST FAN	MVD	MANUAL VOLUME DAMPER	US	UNDER SLAB
ESP	EXTERNAL STATIC PRESSURE			UON	UNLESS OTHERWISE NOTED
EWT	ENTERING WATER TEMPERATURE	(N)	NEW		
		NC	NORMALLY CLOSED	V	VOLTS
FA	FROM ABOVE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	VAV	VARIABLE AIR VOLUME
FB	FROM BELOW	NIC	NOT IN CONTRACT	VD	VOLUME DAMPER
FCU	FAN COIL UNIT	NO	NORMALLY OPEN	VFD	VARIABLE FREQUENCY DRIVE
FD	FIRE DAMPER	NTS	NOT TO SCALE	VTR	VENT THROUGH ROOF
FLR	FLOOR				
FPM	FEET PER MINUTE	OA	OUTSIDE AIR	WB	WET BULB TEMPERATURE
FS	FLOW SWITCH	OC	ON CENTER	W/	WITH
FSD	FIRE SMOKE DAMPER			W/O	WITHOUT
FT	FEET	PF	PRE FILTER	WT	WEIGHT
		PH	PHASE		
GPH	GALLONS PER HOUR	PLBG	PLUMBING		
GPM	GALLONS PER MINUTE	POC	POINT OF CONNECTION		

DUCTWORK

CEILING GRILLE, DIFFUSER AND REGISTER

- 10x10 S1, 250f (TYP. 2) — NECK SIZE/ SUPPLY, CFM (NOTE)
- 10x10 R1, 250f (TYP. 2) — NECK SIZE/ RETURN, CFM (NOTE)
- 10x10 E1, 250f (TYP. 2) — NECK SIZE/EXHAUST, CFM (NOTE)

SIDEWALL GRILLE, DIFFUSER AND REGISTER

- 10x10 S1, 250f (TYP. 2) — NECK SIZE/ SUPPLY, CFM (NOTE)
- 10x10 R1, 250f (TYP. 2) — NECK SIZE/ RETURN, CFM (NOTE)
- 10x10 E1, 250f (TYP. 2) — NECK SIZE/EXHAUST, CFM (NOTE)

DAMPERS

- BACKDRAFT DAMPER
- VOLUME DAMPER, MANUAL
- FD — FIRE DAMPER
- FSD — FIRE SMOKE DAMPER
- MD — MOTORIZED DAMPER

DUCT AND DUCT FITTINGS

- NEW DUCT
- EXISTING DUCT
- DUCT TO BE DEMOLISHED
- 10"Ø — ROUND DUCT
- 10x10 — RECTANGULAR DUCT
- CAPPED DUCT
- 10x10L — ACOUSTICALLY LINED, OUTSIDE DIMENSIONS
- ROUND AIR DUCT RISE
- ROUND AIR DUCT DROP
- SUPPLY AIR DUCT RISE
- SUPPLY AIR DUCT DROP
- RETURN AIR DUCT RISE
- RETURN AIR DUCT DROP
- EXHAUST AIR DUCT RISE
- EXHAUST AIR DUCT DROP

DUCT AND DUCT FITTINGS CONT.

- TRANSITION (REDUCER) - RECTANGLE TO RECTANGLE
- TRANSITION - RECTANGLE TO ROUND
- MITERED 90° ELBOW WITH TURNING VANES
- RADIUSED 90° ELBOW (RECTANGLE OR ROUND)
- BRANCH TAKE-OFF - RECTANGLE MAIN WITH RECTANGULAR BRANCH
- BRANCH TAKE-OFF - ROUND MAIN WITH 45° ROUND BRANCH
- BRANCH TAKE-OFF - RECTANGLE MAIN WITH ROUND BRANCH
- BRANCH TAKE-OFF - ROUND MAIN WITH ROUND BRANCH
- DUCT SPLIT - RECTANGLE MAIN WITH RECTANGULAR BRANCHES
- DUCT SPLIT - ROUND MAIN WITH ROUND BRANCHES

PIPING

PIPES

- NEW PIPE
- EXISTING PIPE
- PIPE TO BE DEMOLISHED
- CD — CONDENSATE DRAIN
- CHWR — CHILLED WATER RETURN
- CHWS — CHILLED WATER SUPPLY
- CWR — CONDENSER WATER RETURN
- CWS — CONDENSER WATER SUPPLY
- FLOW DIRECTION
- HPR — HIGH PRESSURE CONDENSATE RETURN
- HPS — HIGH PRESSURE STEAM ABOVE 60 PSIG
- HRR — HEAT RECOVERY RETURN
- HRS — HEAT RECOVERY SUPPLY
- HWR — HEATING WATER RETURN
- HWS — HEATING WATER SUPPLY
- LPR — LOW PRESSURE CONDENSATE RETURN
- LPS — LOW PRESSURE STEAM 5-15 PSIG
- MPR — MEDIUM PRESSURE CONDENSATE RETURN
- MPS — MEDIUM PRESSURE STEAM 16-59 PSIG

PIPE FITTINGS

- PIPE RISE/ELBOW UP
- PIPE DROP/ELBOW DOWN
- PIPE RISE/DROP TOP CONNECTION
- PIPE RISE/DROP BOTTOM CONNECTION
- FLANGE CONNECTION
- UNION CONNECTION
- CAPPED PIPE
- REDUCER

VALVES

- ANGLE VALVE
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CONTROL VALVE 2-WAY
- CONTROL VALVE 3-WAY
- CHECK VALVE, DIRECTION
- FLOW CONTROL VALVE
- GATE VALVE
- GLOBE VALVE
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- SHUT-OFF VALVE
- SOLENOID VALVE
- STEAM TRAP

CONTROLS

- AUTOMATIC CONTROL DAMPER (OPPOSED BLADE)
- AUTOMATIC CONTROL DAMPER (PARALLEL BLADE)
- DPS — DIFFERENTIAL PRESSURE SWITCH
- DSD — DUCT SMOKE DETECTOR
- FS — FLOW SWITCH
- H — HUMIDISTAT
- PRESSURE GAUGE
- PS — PRESSURE SWITCH
- S — SWITCH
- T1 — TEMPERATURE SENSOR
- THERMOMETER
- VFD — VARIABLE FREQUENCY DRIVE
- T — THERMOSTAT WITH Z-1 ZONE

GENERAL

- 1 — NEW WORK SHEET NOTE
- 1 — DEMOLITION SHEET NOTE
- AIR BALANCE TAG
- 1 — REVISION DELTA
- EQ / 1 — EQUIPMENT TYPE, EQUIPMENT NUMBER
- 1 / M1 — DETAIL NUMBER, SHEET NUMBER
- N — NORTH ARROW
- SEISMIC OPM TAG
- 2.5S-C2.20 — PRE-APPROVED OPM-0043-13 DETAIL OR SHEET DETAIL NUMBER
- PIPE MATERIAL: S-STEEL, C-CAST, CU-COPPER
- PIPE SIZE
- LOCATION OF BRACE IN PLAN

1

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

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R&A Job Number: 9UA14323
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CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	BACKCHECK 1	11/1/24

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPH NO.:
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: MECHANICAL LEGEND, NOTES & SHEET INDEX

ARCH./ENGR. J. Flath\S. Crosby	FD&C JOB NO. 9557740	SHEET NO. M001
UCDMC PROJECT MANAGER Z. Price	SCALE AS SHOWN	
DESIGNED BY SSC	DATE 08/09/24	
DRAWN BY MGE/MJR	CAD FILE -	SHEET - / OF -

DIFFUSER AND GRILLE SCHEDULE

TAG	MANUFACTURER	MODEL NO.	TYPE	DESCRIPTION	BORDER	FINISH	OBD	NOTES:
S1	TITUS	MCD	SUPPLY	MODULAR CORE	LAY-IN	WHITE	NO	(1) (2)
R1	TITUS	PAR	RETURN	PERFORATED	LAY-IN	WHITE	NO	(1)
E1	TITUS	PAR	EXHAUST	PERFORATED	LAY-IN	WHITE	NO	(1)

NOTES:

(1) NECK SIZES AS SHOWN.

(2) ALL DIFFUSERS USE 4-WAY BLOW UNLESS OTHERWISE INDICATED BY BLOW ARROWS.

CAV AIR TERMINAL SCHEDULE

TAG	INLET SIZE	COOLING CFM	HEATING CFM	OUTLET WxH	COIL SIZE WxH	AIRSIDE DELTA P	HEATING GPM	WATER SIDE DELTA P	NO. ROWS	INLET SIZE	NOTES:
CAV-1	10"	500	500	14 x 12.5	14x12.5	1.0	1.5	.5	2	1/2	(1) (2) (4)
CAV-2	12"	1,000	N/A	14 x 12.5	N/A	N/A	N/A	N/A	N/A	N/A	(1) (3) (4) 1

NOTES:

(1) "TITUS" MODEL DESV HCAI SEISMIC CERTIFICATIONS OSP-0352 1

(2) HEATING WATER INLET TEMP. 180° LEAVING TEMP. 40°.

(3) CAV BOX WITH NO COIL.

(4) ELECTRICAL SUPPLY TO THE CONTROLS SHALL BE CONNECTED TO ESSENTIAL POWER. 1

REHEAT COIL SCHEDULE

TAG	MANF. MODEL	MANF. MODEL	COIL SIZE WxH	CFM	AIRSIDE DELTA P	HEATING MBH	EAT (°F)	LAT (°F)	HEATING GPM	WATER SIDE DELTA P FT. H2O	NO. ROWS	WEIGHT (LBS)	NOTES:
RHC-1	GREENHECK	HW58S01A13	18X20	1990	24	53	60	85	3.1	5	1	19	(1) (2) (3) (4)
RHC-2	GREENHECK		18X20	1990	24	53	60	85	3.1	5	1	19	(1) (2) (3) (4) 1

NOTES:

(1) HEATING WATER 180/145°F

(2) DDC CONTROLLER, REHEAT COIL VALVE AND ROOM SENSOR PROVIDED BY CONTROLS CONTRACTOR, SEE DETAIL 1/M002.

(3) SEE DETAIL 2/M603 FOR SUPPORT DETAIL.

(4) ELECTRICAL SUPPLY TO THE CONTROLS SHALL BE CONNECTED TO ESSENTIAL POWER. 1

CHILLED WATER FAN COIL UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NO.	SYS. TOTAL CAP. (MBH)	SYS. SENS. CAP. (MBH)	WATER REQUIREMENTS			UNIT ELECTRICAL DATA				CFM	EXT. STATIC (IN. W.C.)	UNIT OPER. WEIGHT (LBS.)	NOTES
					GPM	WPD (F.W.C.)	EWT/LWT °F	VOLTS	PHASE	FLA	HP				
FCU 1	PRICE	BCH 40	62.7	53.6	10.4	2.92	42°/54°	115	1	25.60	(1) X2	1,990	1.7	705	(1) (2) (3) (4) (5)
FCU 2	PRICE	BCH 40	62.7	53.6	10.4	2.92	42°/54°	115	1	25.60	(1) X2	1,990	1.7	705	(1) (2) (3) (4) (5)

NOTES:

(1) COOLING CAPACITY BASED UPON EAT 71.5°F DB, 58.2°F WB & 42°F EWT INTO COOLING COIL.

(2) CHILLED WATER CONTROL VALVE SHALL BE 2-WAY MODULATING, SEE CONTROL VALVE SCHEDULE.

(3) PROVIDE WITH 2" MERV 6, 35% PLEATED FILTERS, PER CMC 408.2.4. OSA FOR FCU'S IS SERVED FROM (AHU-11) AND IS A 100% OSA UNIT WITH 30% PRE-FILTERS AND 90% FINAL FILTERS, REFER TO PARTIAL AIR BALANCE SCHEDULE BELOW FOR ADDITIONAL INFORMATION. 1

(4) UNIT SHALL BE CONNECTED TO EMERGENCY POWER, AND SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR UNIT SHUT-DOWN, REFER TO ELECTRICAL AND FIRE ALARM SYSTEM PLANS FOR ADDITIONAL INFO.

(5) UNIT SUPPLIED SHALL COMPLY WITH HCAI SEISMIC CIRTIFICATION OSP-0378.

PARTIAL AIR BALANCE SCHEDULE (AHU-11, EF-12 & FCU-1 & 2)

ROOM NAME	2022 CMC				2022 CMC CODE CALCULATIONS						DESIGN AIR FLOW			
	TABLE 4A EQUIVALENT	AREA SQ.FT.	CLG. HT. FT.	VOLUME CU.FT.	REL. PRESS	ALL ROOM EXHAUST	AC/HR	TOTAL CFM	OA. AC/HR	OA CFM	SA CFM	RA CFM	EA CFM	TA CFM
CT Scan Room – 1P742	CT SCAN	507	8	4056	NR	NR	6	406	2	135	1,990	1,490	500	0
CT Scan Room – 1P745	CT SCAN	479	8	3832	NR	NR	6	383	2	128	1,990	1,490	500	0
Control Area – 1P740	CT SCAN	392	9	3528	NR	NR	6	353	2	118	500	0	475	-25
(E) Patient Toilet Room – 1P741	TOILET ROOM	62	8.5	527	Negative	YES	10	88	NR		90	0	115	+25
Reading Room 1P743 1	NO TABLE 4-A EQUIVALENT; VENTILATION PER ASHRAE 62.1	482	9	4338	NR	NR	0	0	0	41	435	0	435	0
(E) DX QC Work Area – 1P740B	NO TABLE 4-A EQUIVALENT; VENTILATION PER ASHRAE 62.1	322	9	2898	NR	NR	0	0	0	27	255	0	255	0
										TOTAL	5,260	2,980	2,280	0

1 AIR BALANCE SCHEDULE NOTES:
EQUIPMENT IS LOCATED IN MEZZANINE MECHANICAL ROOM, ON 2ND FLOOR. EXISTING AHU-11 & EF-12 ARE CONSTANT VOLUME W/ VFD MOTORS. SUPPLIED POWER IS FROM EMERGENCY POWER BRANCH CIRCUIT.(TYP). AHU IS 100% OUTSIDE AIR UNIT WITH 30% PRE FILTERS & 90% FINAL FILTERS SECTION. AHU-11 SUPPLIES OSA TO NEW FAN COIL UNITS 1 & 2 SERVING CT ROOMS. FOR FILTRATION AT FCU'S SEE FAN COIL UNIT SCHEDULE. AREA'S SERVED BY EQUIPMENT HAS FULL COVERAGE SMOKE DETECTION SYSTEM. EXISTING AHU & EF ARE TIED INTO EXISTING FIRE ALARM SYSTEM FOR AUTOMATIC SHUT-DOWN. NEW FCU-1 & 2 SHALL ALSO BE TIED INTO THE FIRE ALARM SYSTEM FOR

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LICENSED ARCHITECT JOHN M FLATH No. C-21560 REN. 12-31-25 STATE OF CALIFORNIA

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PM: SSC Designer / Drafter: AM/MJR

REGISTERED PROFESSIONAL ENGINEER No. M33282 Exp.12/31/25 MECHANICAL STATE OF CALIFORNIA

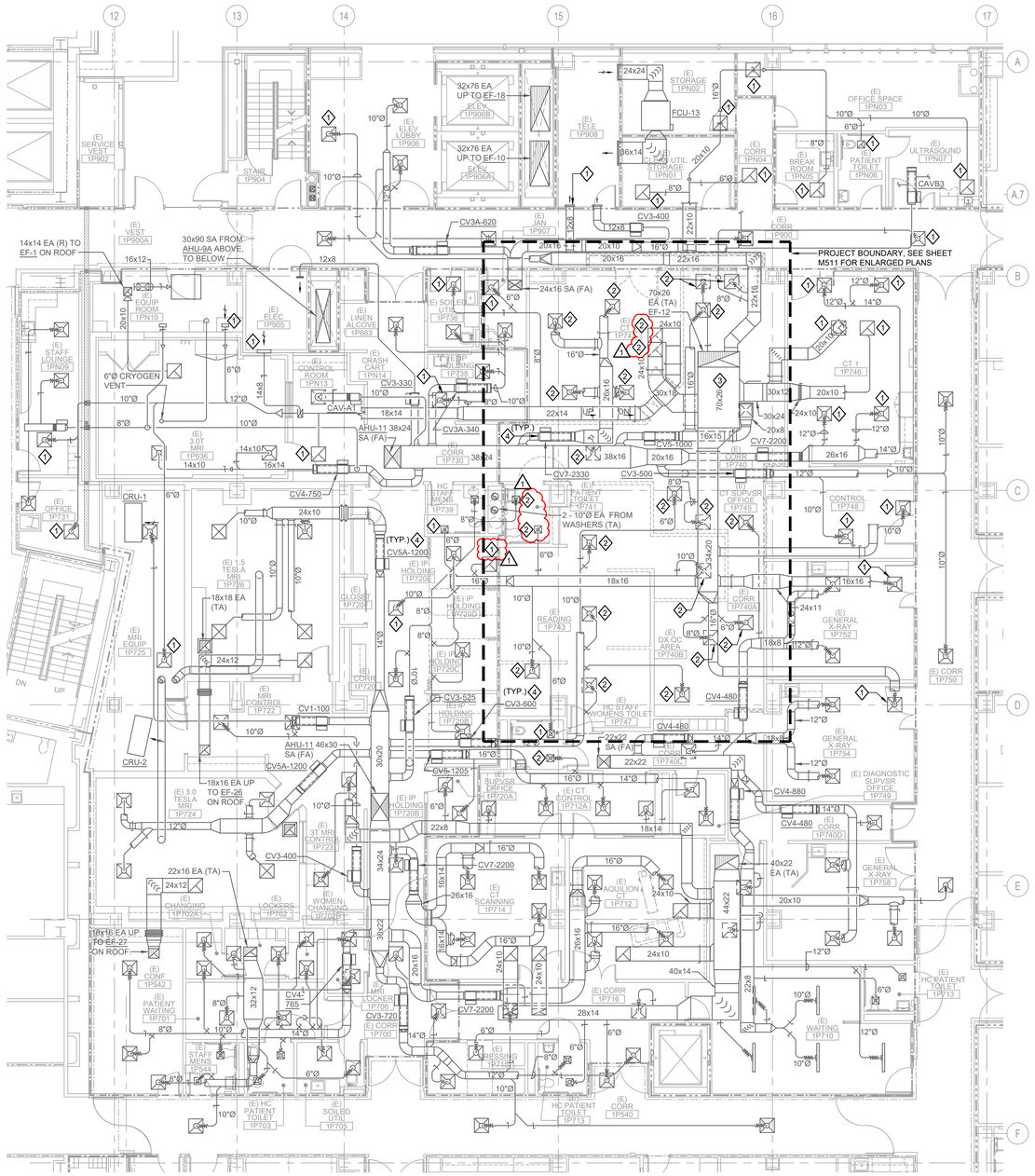
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	BACKCHECK 1	11/1/24

CONSTRUCTION DOCUMENTS

ACCUITY NO.: 9557740
OSHPH NO.:
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: MECHANICAL SCHEDULES

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath\S. Crosby	9557740	M002	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	AS SHOWN		
DESIGNED BY	DATE		
SSC	08/09/24		
DRAWN BY	CAD FILE	SHEET	OF
MGE/MJR	-	-	-



1 PARTIAL 1ST FLOOR MECHANICAL AIR BALANCE PRECAUTIONS PLAN
SCALE: 1/8" = 1'-0"

INTENT NOTE

THE INTENT OF MEASURES DESCRIBED IN THE AIR BALANCE PLAN IS THAT THE MODIFICATIONS WITHIN THE PROJECT BOUNDARIES DO NOT IMPACT AIRFLOW TO SPACES OUTSIDE THE PROJECT BOUNDARIES. (OSHPD CAN 2-102.6 NARRATIVE (UPDATED AUGUST 3, 2021) 1

AIR BALANCE NOTES

1. THE PROJECT WORK WILL AFFECT AIR SYSTEMS AHU-11 & EF-12. PRIOR TO STARTING ANY WORK, PRE-MEASURE AIRFLOW AT ALL INDICATED LOCATIONS (GRILLES, DIFFUSERS, DUCT TRAVERSE, ETC.). SUBMIT PRE-CONSTRUCTION AIR BALANCE REPORT WITH ALL PRE-MEASURED VALUES.

   FOR AREAS OUTSIDE THE PROJECT BOUNDARY THAT ARE FOUND TO BE OBVIOUSLY DEFICIENT, I.E. ZERO AIR FLOW, THE CONTRACTOR SHALL INFORM THE UNIVERSITY'S REPRESENTATIVE AND MEOR. 1

2. PRIOR TO STARTING WORK IN THE PROJECT AREA, PROVIDE HVAC PRECAUTIONS AS DIRECTED BY THE FACILITY; E.G. PROVIDE 30% FILTERS AT ALL RA AND EA GRILLES OPEN TO THE WORK AREA, OR SHUT OFF AIR AND SEAL ALL SA, RA AND EA DIFFUSERS/GRILLES OPEN TO THE WORK AREA.

3. WHERE DUCTWORK IS DEMOLISHED AND EXISTING DUCT REMAINS, SEAL OPEN ENDS OF REMAINING DUCTWORK UNTIL NEW WORK CAN BE CONNECTED. WHEN COMPLETION OF NEW WORK IN AN AREA MAY BE DELAYED, SEAL OPEN ENDS OF DUCTWORK UNTIL WORK CAN BE COMPLETED. PROTECT NEW DIFFUSERS AND GRILLES AFTER INSTALLATION UNTIL ALL CONSTRUCTION WORK THAT MAY GENERATE DUST WITHIN THE AREA IS COMPLETED.

4. AFTER ANY WORK THAT WOULD IMPACT THE AIR FLOW AT A PRE-MEASURED LOCATION, VERIFY THE AIR FLOW AND ADJUST AS REQUIRED TO THE PRE-MEASURED VALUE.

5. AT END OF NEW CONSTRUCTION, BALANCE AIR FLOW AT THE INDICATED LOCATIONS TO THE FINAL BALANCE AIR FLOW.

6. FINAL BALANCES FOR PRECEDING COMPLETED PHASES ARE TO BE MAINTAINED THROUGHOUT SUBSEQUENT PHASES AND FINAL AIR BALANCE.

7. AT END OF NEW CONSTRUCTION, UNLESS A FINAL BALANCE AIR FLOW IS INDICATED FOR THE PRE-MEASURED LOCATION, VERIFY AIR FLOWS AT ALL PRE-MEASURED LOCATIONS AND ADJUST AS REQUIRED TO THE PRE-MEASURED VALUE.

AIR BALANCE SHEET NOTES

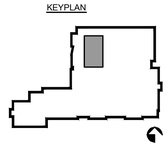
1 PRE-MEASURE AIR FLOW AT THIS LOCATION PRIOR TO BEGINNING WORK AND MAINTAIN AT THE PRE-MEASURED VALUE THROUGHOUT THE PROJECT WORK, INCLUDING FINAL BALANCE. (OSHPD CAN 2-102.6 NARRATIVE 15, 2021) 2

2 PRE-MEASURE AIR FLOW AT THIS LOCATION PRIOR TO BEGINNING WORK.

3 70x26 EXHAUST DUCT PROVIDES 20,000 CFM FLOW CAPACITY AT 0.08" FRICTION LOSS PER 100'. AIR BALANCE PRECAUTIONS ARE NOT REQUIRED PAST THIS POINT TOWARDS SYSTEM FAN. (OSHPD CAN 2-102.6 NARRATIVE 15, 2021) 2

4 SUPPLY AIR DISTRIBUTION IS CONSTANT AIR VOLUME WITH PRESSURE INDEPENDENT CAV TERMINAL UNITS. THE SUPPLY AIR TERMINAL UNITS WILL COMPENSATE TO CHANGES TO UPSTREAM AIR FLOW.

KEYPLAN



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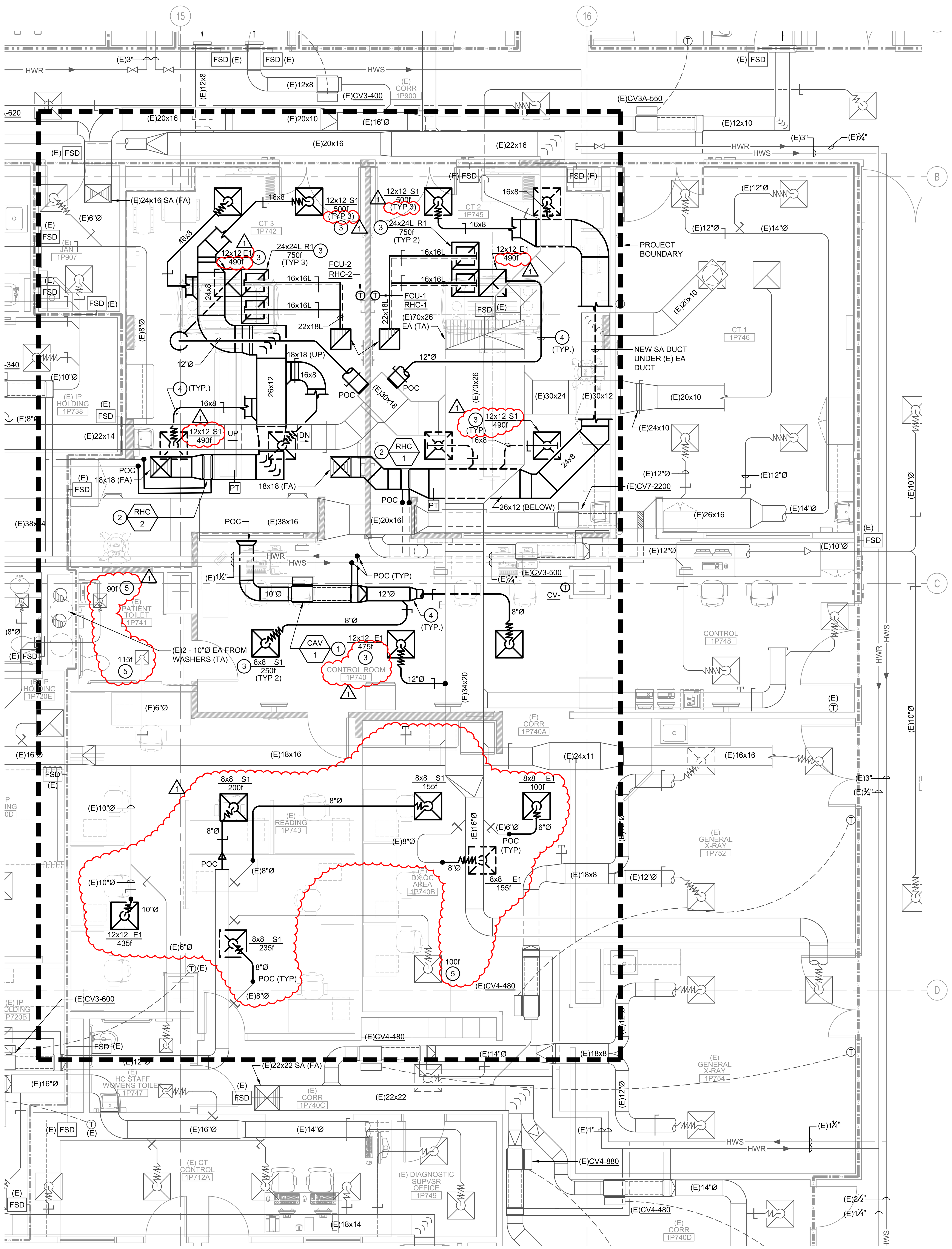
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	BACKCHECK 1	11/1/24

CONSTRUCTION DOCUMENTS

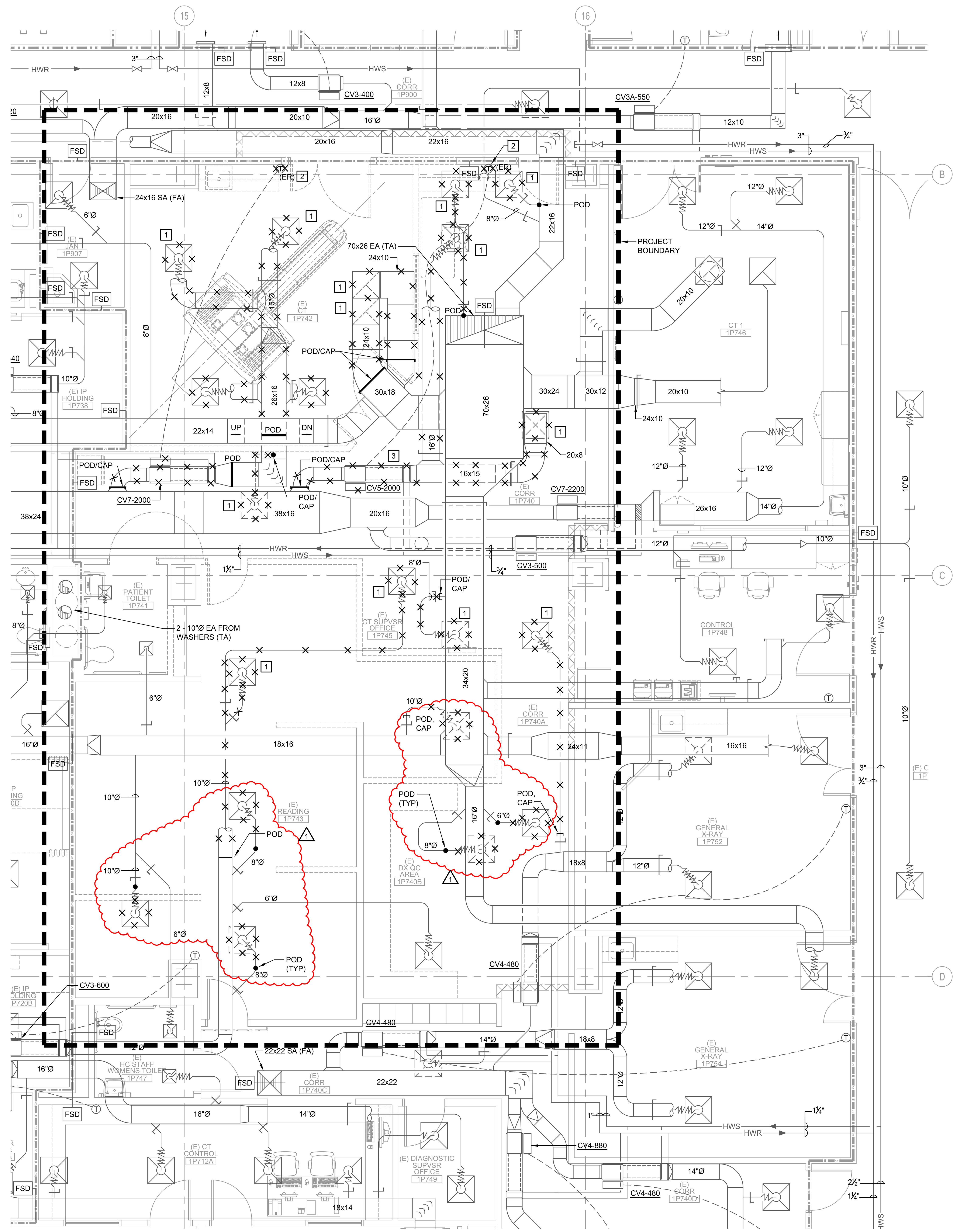
ACCOUNT NO.: 9557740
OSHPD NO.:
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PARTIAL 1ST FLOOR MECHANICAL AIR BALANCE PRECAUTIONS PLAN

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath\S. Crosby	9557740	M111
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: SSC	DATE: 08/09/24	
DRAWN BY: MGE/MJR	CAD FILE: -	SHEET: - OF: -



2 ENLARGED FIRST FLOOR MECHANICAL NEW WORK PLAN

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



1 ENLARGED FIRST FLOOR MECHANICAL DEMOLITION PLAN

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

NEW WORK SHEET NOTES

1. REFER TO DETAIL 3/M603 FOR CAV MOUNTING DETAIL.
2. REFER TO DETAIL 3/M602 FOR HEATING COIL PIPING DETAIL.
3. REFER TO DETAIL 1/M601 FOR DIFFUSER/GRILLE MOUNTING DETAIL.
4. REFER TO DETAIL 3/M601 FOR DUCT MOUNTING DETAIL.
5. BALANCE EXISTING GRILLES TO CFM'S SHOWN, REFER TO AIR BALANCE SCHEDULE ON SHEET M-002.

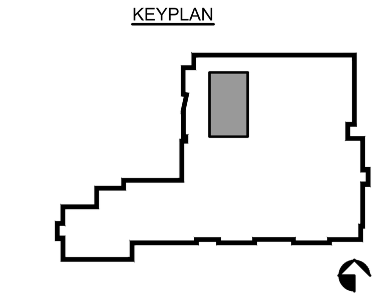
DEMOLITION SHEET NOTES

1. REMOVE EXISTING GRILLE/DIFFUSER, DUCTWORK AND ASSOCIATED COMPONENTS.
2. EXISTING THERMOSTAT TO BE REMOVED AND RETAINED FOR REINSTALLATION AT NEW LOCATION, PER NEW WORK PLAN.
3. REMOVE EXISTING CONSTANT AIR VOLUME TERMINAL UNIT, DUCTWORK AND ASSOCIATED COMPONENTS.

WALL LEGEND

- (E) WALL
- (E) LEAD LINED WALL
- (E) 1 HR. FIRE RATED BARRIER
- (E) 1 HR. OCCUPANCY SEPARATION
- (E) 2 HR. FIRE BARRIER
- (E) 2 HR. HORIZONTAL EXIT / SMOKE BARRIER
- (E) PLAN ITEMS TO BE REMOVED
- PARTITION
- 1 HR. FIRE RATED BARRIER
- TEMP. CONSTRUCTION BARRIER

KEYPLAN



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1	BACKCHECK 1	11/1/24

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPH NO.:
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: ENLARGED 1ST FLOOR MECHANICAL PLANS

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath\S. Crosby	9557740	M511	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	AS SHOWN		
DESIGNED BY	DATE		
SSC	08/09/24		
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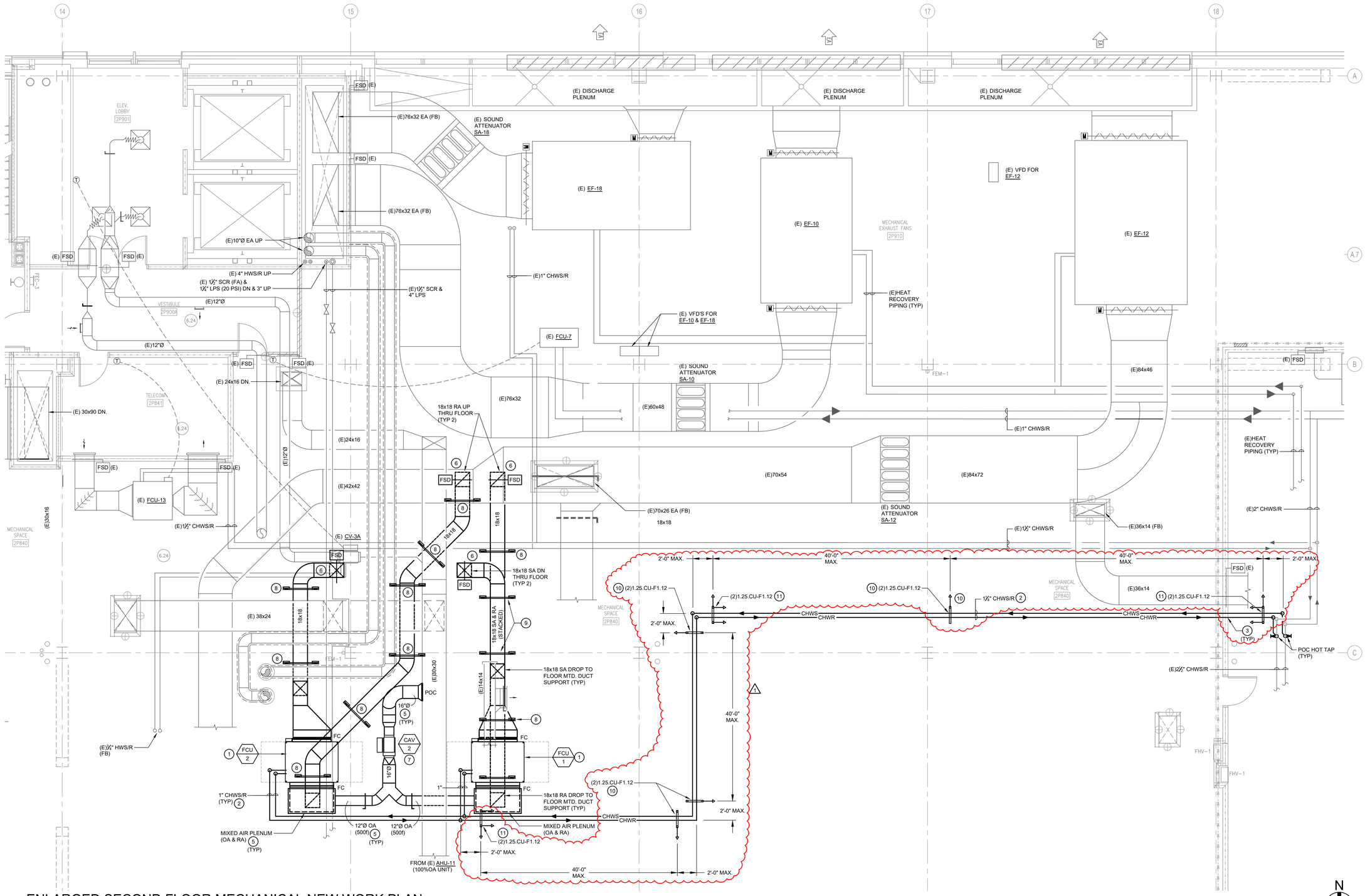


1 ENLARGED SECOND FLOOR MECHANICAL NEW WORK PLAN

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

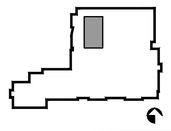
NEW WORK SHEET NOTES

1. FOR FAN COIL UNIT MOUNTING DETAIL SEE 1/M602.
2. INSTALL NEW CHILLED WATER LINES OVERHEAD WITHIN INTERSTITIAL MECHANICAL SPACE TO NEW FAN COIL UNITS, FCU-1 & FCU-2. CHILLED WATER LINES SHALL NOT BE ROUTED ABOVE EQUIPMENT OR CABLE TRAYS. IF UNAVOIDABLE, DRIP PANS SHALL BE INSTALLED WITH DRAINS EXTENDED TO A VISIBLE LOCATION. FOR NON BRACED INTERMEDIATE SUPPORTS OR NON SEISMIC OPTIONS, SEE 5/M602. REFER TO PLAN AND SHEET NOTES 10 & 11 FOR BRACED SUPPORT LOCATIONS. 1
3. FOR PIPE PENETRATIONS THROUGH RATED WALLS, SEE FIRE RATED THROUGH PENETRATION DETAILS ON SHEET M603.
4. FOR CHILLED WATER COIL PIPING DIAGRAM, SEE 2/M602.
5. FOR NON-SEISMIC HANGING DUCT OR PLENUM SUPPORT, REFER TO OPTIONAL DETAIL 3/M601.
6. SAW-CUT NEW FLOOR PENETRATION TO ALLOW NEW DUCT THRU FLOOR. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. PRIOR TO SAW CUTTING CONTRACTOR SHALL OBTAIN APPROVAL FROM STRUCTURAL ENGINEER. PROVIDE AND INSTALL FIRE/SMOKE DAMPER AT PENETRATION PER DETAIL 4/M602.
7. FOR CAV MOUNTING DETAIL SEE 3/M603.
8. FOR FLOOR MOUNTED DUCT SUPPORT AT THIS LOCATION SEE SINGLE DUCT SUPPORT OPTION 1 PER DETAIL 4/M601.
9. FOR FLOOR MOUNTED STACKED DUCT SUPPORT AT THIS LOCATION SEE SUPPORT OPTION 2 PER 4/M601. 2
10. INSTALL PIPE SUPPORT WITH TRANSVERSE BRACING AT THIS LOCATION, PER DETAILS SHOWN ON SHEET M604 & M605.
11. INSTALL PIPE SUPPORT WITH TRANSVERSE AND LONGITUDINAL BRACING AT THIS LOCATION, PER DETAILS SHOWN ON SHEET M604 & M605.

WALL LEGEND

- (E) WALL
- (E) LEAD LINED WALL
- (E) 1 HR. FIRE RATED BARRIER
- (E) 1 HR. OCCUPANCY SEPARATION
- (E) 2 HR. FIRE BARRIER
- (E) 2 HR. HORIZONTAL EXIT / SMOKE BARRIER
- (E) PLAN ITEMS TO BE REMOVED
- PARTITION
- 1 HR. FIRE RATED BARRIER
- TEMP. CONSTRUCTION BARRIER

KEYPLAN



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CONSULTANT LOGO:

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OSHPH NO.:
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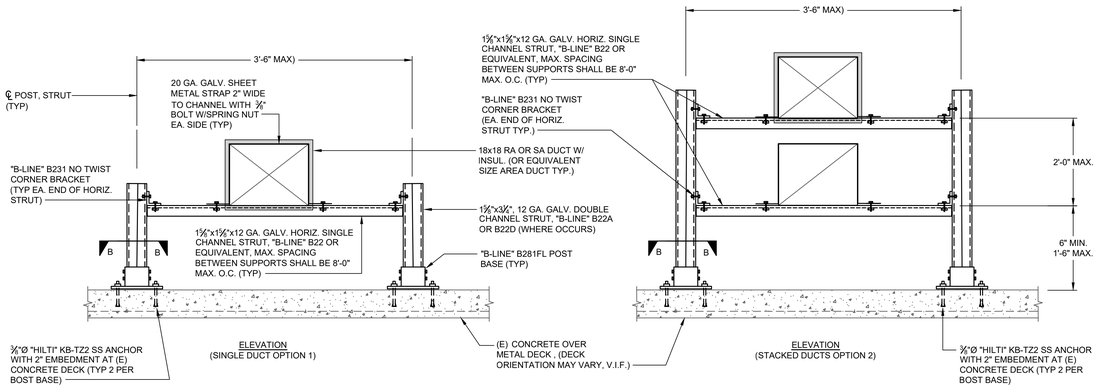
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: ENLARGED 2ND FLOOR MECHANICAL PLAN

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath\S. Crosby	9557740	M512
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: SSC	DATE: 08/09/24	
DRAWN BY: MGE/MJR	CAD FILE: -	SHEET: - OF: -



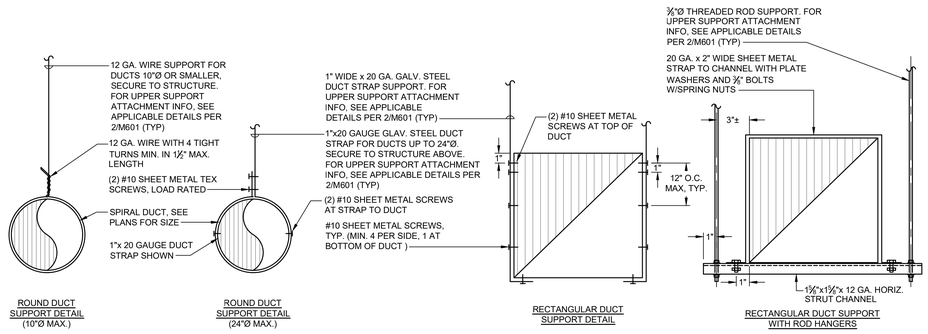
NOTES:

1. MATERIAL:
   A. PRE-FABRICATED STEEL STRUTS AND CONNECTORS:
   ASTM A-653 SS GRADE 33 GALVANIZED, AS MANUFACTURED BY COOPER B-LINE OR EQUAL. OTHER STRUT BRANDS MAY BE USED ONLY WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD. FITTINGS SHALL BE HOT ROLLED, PICKLED AND OILED STEEL CONFORMING TO ASTM A-575, A-576, A-636 OR A-636 AND ASTM A1011 SS GRADE 33. CHANNEL NUTS SHALL BE STAMPED OR FORMED STEEL BAR STOCK, CASE HARDENED, CONFORMING TO ASTM 1011 SS GRADE 33. ALL STRUT CONNECTORS SHALL BE GALVANIZED.

2. PROVIDE DUCT SUPPORTS WITHIN 3 FEET OF CHANGES IN DUCT DIRECTION AND SUPPORT SPACING AT 8'-0" MAX. O.C., SEE MECHANICAL PLAN FOR RECOMMENDED SUPPORT LOCATIONS.

4 FLOOR MOUNTED DUCT SUPPORT DETAILS

SCALE: NONE



NOTES:

1. NO BRACING REQUIRED: ALL DUCTWORK SHALL FALL UNDER ONE OF THE EXCEPTIONS LISTED UNDER CBC SECTION 1617A.1.25) TOTAL WEIGHT OF DUCTWORK SUPPORTED BY TRAPEZE ASSEMBLIES SHALL BE LESS THAN 10 LBS/FT. 1b.) SUPPORTS FROM STRUCTURE 12" OR LESS. 2. PROVISION MADE TO AVOID IMPACT FROM ADJACENT DUCTS AND CROSS SECTIONAL AREA OF DUCTWORK IS 6 SQ/FT OR LESS.

2. MAX. LOAD SHALL NOT EXCEED 50 LBS PER SUPPORT AT 10'-0" O.C. (FOR RECTANGULAR DUCT) OR 100 LBS FOR ROUND DUCT WITH SINGLE HANGER AT 10'-0" O.C.

3. DOUBLE NUTS REQUIRED AT TOP & BOTTOM OF HANGER RODS (TYP).

4. ALL SUPPORT MATERIALS SHALL BE GALVANIZED. NO SLOTTED STRUT ALLOWED.

5. FOR INFORMATION NOT SHOWN REFER TO "OPM 0043-13" (TYP).

3 DUCT SUPPORT DETAIL

SCALE: NONE

NOTES:

1. INSTALLATION, INSPECTION AND TESTING OF POST-INSTALLED ANCHORS SHALL BE PER STRUCTURAL REQUIREMENTS, SEE STRUCTURAL DRAWINGS.

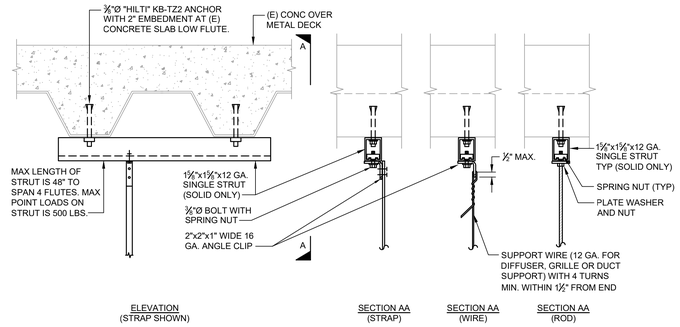
2. MAXIMUM WEIGHT OF DISTRIBUTED SYSTEMS NOT TO EXCEED 5 LBS PER LINER FOOT, MAX WEIGHT OF SUSPENDED COMPONENTS NOT TO EXCEED 20 LBS.

3. ALL HANGERS MAY BE INSTALLED UP TO 5 DEGREES OUT-OF-PLUMB.

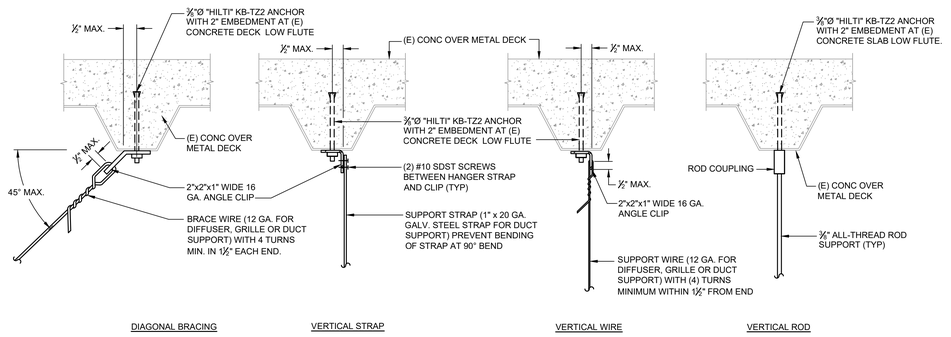
4. WHERE ATTACHING STRUT TO DECK, STRUT MAYBE ROTATED 90 DEG. IN PLAN TO RUN PARALLEL WITH THE DECK FLUTES (+\-1" FROM CENTERLINE OF LOW DECK FLUTES; NO RESTRICTION FOR ALIGNMENT WITH FLUTES) AND MAY BE ANCHORED TO A SINGLE LOW FLUTE.

5. WHERE ATTACHING STRUT TO DECK LOW FLUTES, STRUT MAYBE ROTATED +/- 45 DEG. MAX. IN PLAN.

6. PATCH FIREPROOFING, WHERE REMOVAL IS REQUIRED TYP. (MATCH EXISTING).

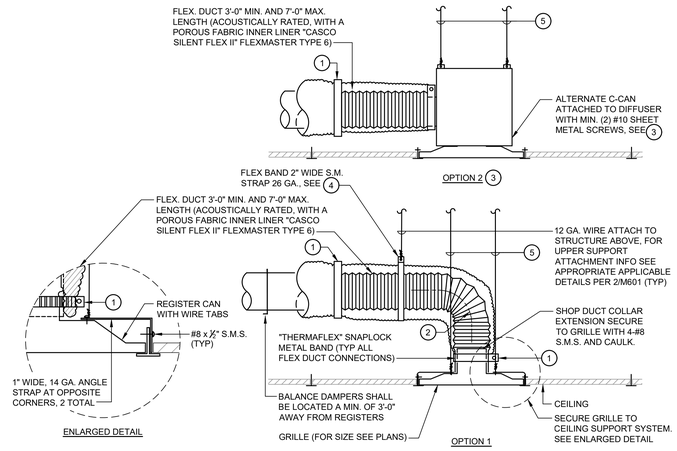


OPTIONAL VERTICAL STRAP, WIRE OR ROD



2 UPPER ATTACHMENTS - CONCRETE OVER METAL DECK

SCALE: NONE



NOTES:

1. SLIDE CORE AT LEAST 1" OVER COLLAR. TAPE AND CLAMP CORE. PULL JACKET AND INSULATION OVER CORE, TAPE AND CLAMP OVER ENTIRE ASSEMBLY.

2. MINIMUM CENTER LINE RADIUS ON FLEXIBLE DUCTS ARE 1.5 X FLEXIBLE DUCT DIAMETER (NOT LESS THAN 1.0 WHEN THE MINIMUM RADIUS CANNOT BE ACHIEVED.)

3. OPTION 2 USING C-CAN WITH ROUND COLLAR TO BE USED ONLY WHEN SPACE LIMITATION WILL NOT ALLOW FOR FLEX DUCT TO MAKE A FULL RADIUS 90° BEND INTO TOP OF STANDARD GRILLE.

4. MAXIMUM HANGER SPACING 48" O.C., MAXIMUM SAG BETWEEN HANGERS IS ½" PER FOOT, 2" MAXIMUM.

5. (2) 12 GA. SLACK WIRE HANGERS FOR AIR TERMINAL DEVICES THAT WEIGH LESS THAN 56 LBS. PLACE ON DIAGONALLY OPPOSITE CORNERS. FOR UPPER SUPPORT ATTACHMENT INFO SEE APPROPRIATE APPLICABLE DETAILS PER 2/M601 (TYP).

1 DIFFUSER/GRILLE MOUNTING DETAIL

SCALE: NONE (LAY-IN T-BAR CEILING)

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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600 Q Street, Suite 100
Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

REGISTERED ARCHITECT JOSEPH W. LEWIS No. C-21569 EXP. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
[916]734-7054

R&A ENGINEERING SOLUTIONS INC
Mechanical Consultants
601 University Avenue, Suite 255, Sacramento, CA 95825
Tel. (916) 920-5985 Fax. (916) 920-9239
R&A Job Number: SUA14323
PM: SSC Designer / Drafter: AM/MJR

REGISTERED PROFESSIONAL ENGINEER STEVEN S. CROSBY No. M33082 Exp.12/31/26 MECHANICAL STATE OF CALIFORNIA

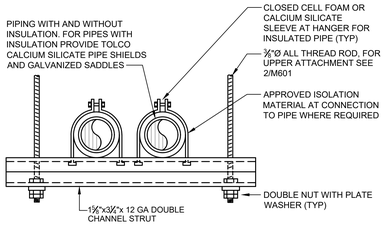
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

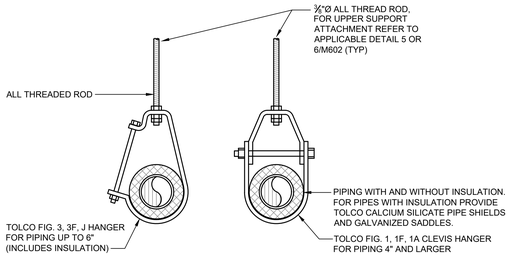
CONSTRUCTION DOCUMENTS

ACCOUNT NO: 9557740
OSHPD NO: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: MECHANICAL DETAILS

ARCH\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath\S. Crosby	9557740	M601
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: SSC	DATE: 08/09/24	
DRAWN BY: MGE/MJR	CAD FILE: -	SHEET: - OF: -



OPTION 2



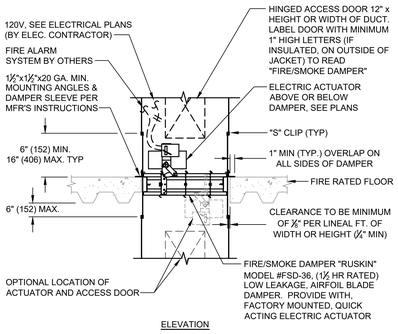
OPTION 1

NOTES:

1. NO BRACING REQUIRED, REFER TO CBC 1617A1.26 ;
   A. TRAPEZE ASSEMBLIES WITH ⅜" OR ½" DIA. ROD HANGERS NOT EXCEEDING 12" IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE, DO NOT SUPPORT PIPING WITH lp GREATER THAN 1.0, AND NO SINGLE PIPE EXCEEDS 2" DIA. AND TOTAL WEIGHT SUPPORTED BY SINGLE TRAPEZE IS 100 LBS OR LESS.
   B. PROVISION MADE TO AVOID IMPACT WITH STRUCTURAL OR NON-STRUCTURAL COMPONENTS OR TO PROTECT THE PIPING IN THE EVENT OF SUCH IMPACT, THE PIPE IS SUPPORTED BY INDIVIDUAL ROD HANGER ⅜" OR ½" DIA. WHERE EACH HANGER IN THE PIPE RUN IS 12" OR LESS IN LENGTH FROM THE PIPE SUPPORT POINT TO THE CONNECTION AT THE SUPPORTING STRUCTURE, AND THE TOTAL WEIGHT SUPPORTED BY ANY SINGLE ROD IS 50 LBS OR LESS. IN ADDITION REFER TO OPM 0043 SHEET A10.5 FOR PIPE SIZE AND SERVICE PIPE LIMITATIONS.
2. WHERE BRACING IS REQUIRED: REFER TO OPM-0043 AND DEFERRED APPROVAL DOCUMENT: PROVIDE GRAVITY SUPPORTS BETWEEN BRACED SUPPORTS TO MEET SUPPORT SPACING REQUIREMENTS. ALL SUPPORT SPACING REQUIREMENTS SHALL COMPLY WITH CMC TABLE 313.3 AND CMC 1109.6 REQUIREMENTS. ALL HANGERS MAY BE INSTALLED UP TO 5 DEGREES OUT OF PLUMB.
3. COORDINATE WITH ELECTRICAL AND CONTROLS CONTRACTOR FOR SUPPORT OF CONDUITS WITHIN TRAPEZE HANGERS.
4. DOUBLE NUTS REQUIRED AT TOP & BOTTOM OF HANGER RODS (TYP).
5. ALL SUPPORT MATERIALS SHALL BE GALVANIZED. NO SLOTTED STRUT ALLOWED.
6. FOR INFORMATION NOT SHOWN REFER TO "OPM 0043-13" (TYP).

5 NON-SEISMIC PIPE HANGER SUPPORT DETAILS

SCALE: NONE



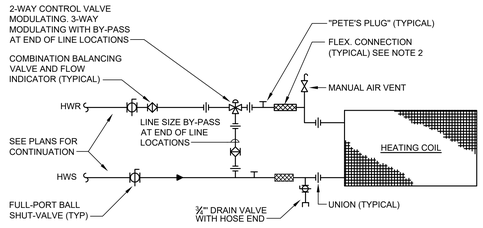
ELEVATION

NOTES:

1. FIRE/SMOKE DAMPER SHALL BE CALIFORNIA STATE FIRE MARSHAL (CSFM) APPROVED AND INSTALLED STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS. INSTALLATION INSTRUCTIONS AND CSFM LISTINGS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.
2. DETAIL IS FOR REFERENCE ONLY. INSTALL PER MANUFACTURERS SUPPLEMENTAL INSTALLATION INSTRUCTIONS, FOR CONCRETE FLOOR OVER METAL DECK.
3. DAMPER CSFM LISTING NO. 3235-0245:0124. 1½-HOUR UL555 & UL555S LEAKAGE RATING CLASS 2.
4. ACCESS DOOR SHALL BE LOCATED TO PROVIDE MAINTENANCE AND TESTING REQUIREMENTS FOR ACTUATOR AND ALLOW VISUAL INSPECTION OF DAMPER. LOCATION SHALL BE CONVENIENT FOR MAINTENANCE ACCESS.
5. ARCHITECT TO PROVIDE MINIMUM 16"x16" RATED ACCESS DOOR IN CEILING, NEAR ACTUATOR TO ALLOW FOR MAINTENANCE AND TESTING.

4 HORIZONTAL FIRE/ SMOKE DAMPER DETAIL

SCALE: NONE

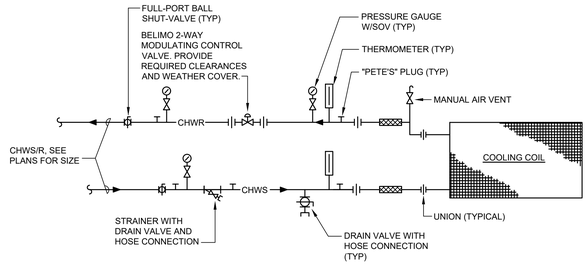


NOTES:

1. ALL VALVES AND FITTINGS SHALL BE LINE SIZE UNLESS OTHERWISE NOTED ON PLANS. SEE PLANS FOR BRANCH LINE SIZES. ALL ABOVE CEILING DRAINS, VENTS AND VALVES MUSE BE ACCESSIBLE FOR MAINTENANCE AND OPERATION.
2. PROVISIONS SHALL BE MADE FOR EXPANSION, CONTRACTION AND STRUCTURAL SETTLEMENT. [OSHPD 1, 1R, 2, 4 AND 5 PIPE CONNECTIONS LESS THAN 2½" SHALL HAVE FLEXIBLE CONNECTORS OR (3) 90° OFFSETS IN CLOSE PROXIMITY OF CONNECTION PER CMC 1210.2]
3. PROVIDE STRAIGHT SECTION OF PIPE DOWNSTREAM AND UPSTREAM OF TCV, MIN. 5 PIPE DIAMETER IN LENGTH OR AS DIRECTED BY VALVE MFR.

3 HEATING COIL REHEAT COIL PIPING DIAGRAM

SCALE: NONE

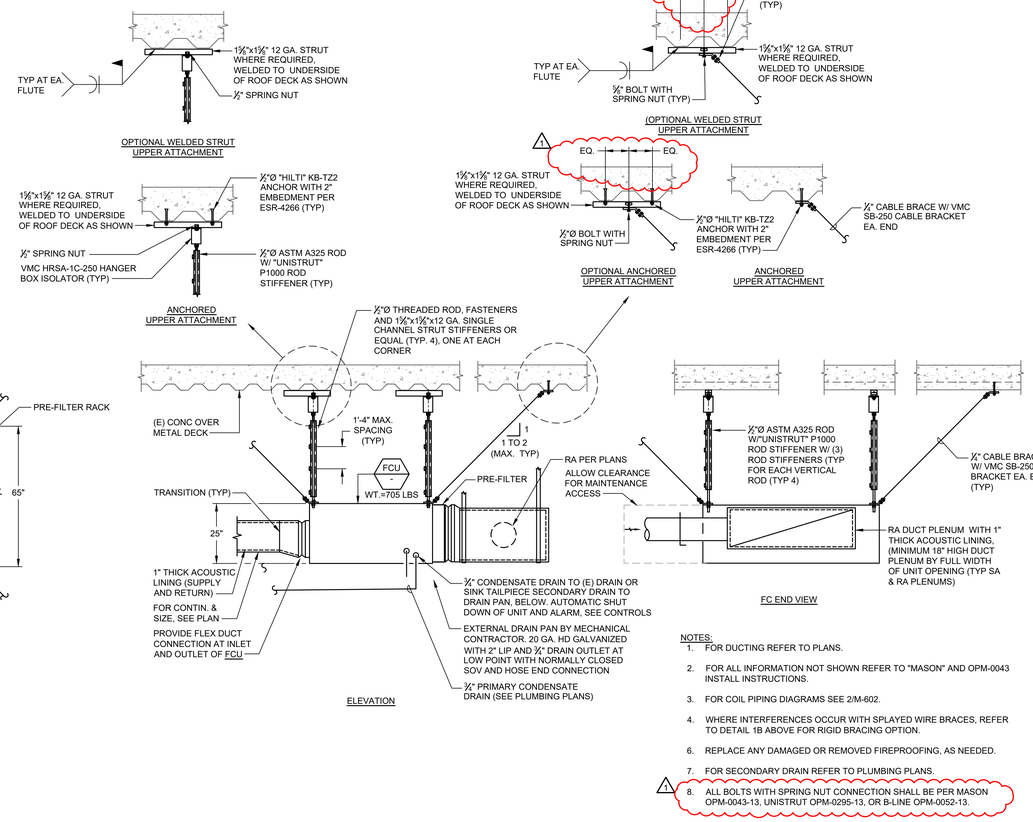


NOTES:

1. ALL VALVES AND FITTINGS SHALL BE LINE SIZE UNLESS OTHERWISE NOTED ON PLANS. SEE PLANS FOR BRANCH LINE SIZES. ALL ABOVE CEILING DRAINS, VENTS AND VALVES MUSE BE ACCESSIBLE FOR MAINTENANCE AND OPERATION.
2. PROVISIONS SHALL BE MADE FOR EXPANSION, CONTRACTION AND STRUCTURAL SETTLEMENT. [OSHPD 1, 1R, 2, 4 AND 5 PIPE CONNECTIONS LESS THAN 2½" SHALL HAVE FLEXIBLE CONNECTORS OR (3) 90° OFFSETS IN CLOSE PROXIMITY OF CONNECTION PER CMC 1210.2]
3. PROVIDE STRAIGHT SECTION OF PIPE DOWNSTREAM AND UPSTREAM OF TCV, MIN. 5 PIPE DIAMETER IN LENGTH OR AS DIRECTED BY VALVE MFR.
4. PROVE SEPARATE SHUT OFF VALVES IN FRONT OF COIL KITS, ON BOTH THE SUPPLY AND RETURN LINES.

2 FCU CHILLED WATER COIL PIPING DIAGRAM

SCALE: NONE



NOTES:

1. FOR DUCTING REFER TO PLANS.
2. FOR ALL INFORMATION NOT SHOWN REFER TO "MASON" AND OPM-0043 INSTALL INSTRUCTIONS.
3. FOR COIL PIPING DIAGRAMS SEE 2/M-602.
4. WHERE INTERFERENCES OCCUR WITH SPLAYED WIRE BRACES, REFER TO DETAIL 1B ABOVE FOR RIGID BRACING OPTION.
6. REPLACE ANY DAMAGED OR REMOVED FIREPROOFING, AS NEEDED.
7. FOR SECONDARY DRAIN REFER TO PLUMBING PLANS.
8. ALL BOLTS WITH SPRING NUT CONNECTION SHALL BE PER MASON OPM-0043-13, UNISTRUT OPM-0295-13, OR B-LINE OPM-0052-13.

1 FAN COIL UNIT (FCU-1 & 2) MOUNTING DETAIL

SCALE: NONE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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LICENSED ARCHITECT JOHN M. LAHR C-21560 REN. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
Facilities Design & Construction
4800 2nd Avenue Suite 2010
Sacramento, California 95817
(916)734-7054

R&A ENGINEERING SOLUTIONS Inc
Mechanical Consultants
601 University Avenue, Suite 255, Sacramento, CA 95825
Tel. (916) 920-5985 Fax. (916) 920-9239
R&A Job Number: NJA14323
PM: SSC Designer / Drafter: AM/MJR

MECHANICAL No. M33282 Exp.12/31/25 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

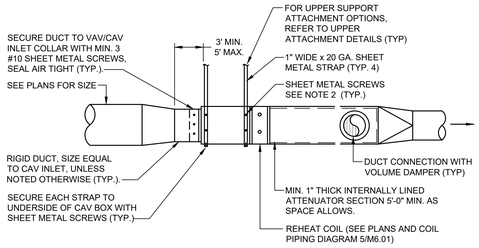
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	BACKCHECK 1	11/1/24

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPH NO.:
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: MECHANICAL DETAILS

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath\S. Crosby	9557740	M602	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	AS SHOWN		
DESIGNED BY	DATE		
SSC	08/09/24		
DRAWN BY	CAD FILE	SHEET	OF
MGE/MJR	-	-	-



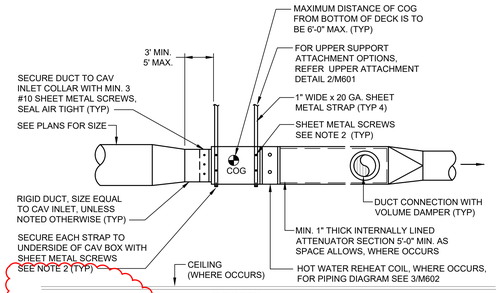
ELEVATION

NOTES:

1. VAV BOX W/COIL: WEIGHT IS LESS THAN 75 LBS. THEREFORE NO BRACING REQUIRED, REFER TO CBC 1705A.13.3.1 (9).
2. SECURE STRAP TO BOX WITH SHEET METAL SCREWS (2) ON EACH SIDE AND (1) ON BOTTOM (TYP), SEAL WITH DUCT SEALANT. NO POP RIVETS ALLOWED.
3. MAINTAIN ALL REQUIRED CLEARANCES AND ACCESS IN FRONT OF VAV CONTROL PANELS. NO PIPES, SPRINKLERS, CONDUITS, ETC. SHALL BE INSTALLED WITHIN THIS ZONE. COORDINATE CAREFULLY WITH OTHER TRADES AND UNIT MFR.

FIRE-STOP / MEMBRANE PENETRATION DETAILS GENERAL NOTE

WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS ARE FOR REFERENCE ONLY. THROUGH-PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR OSHPD REVIEW AND APPROVAL PRIOR TO INSTALLATION.



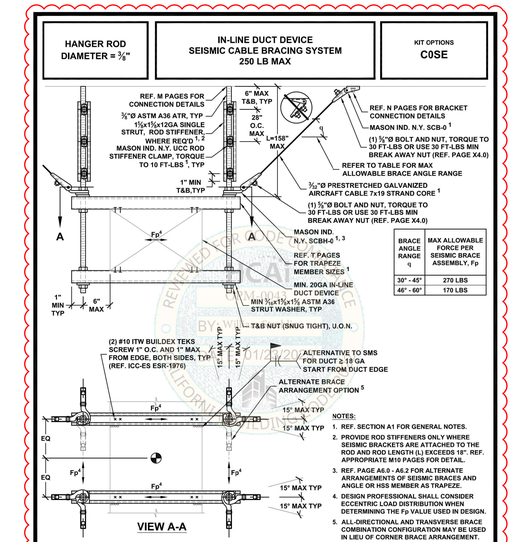
ELEVATION

NOTES:

1. CAV BOX ATTACHMENTS: PROVIDE FLEXIBLE CONNECTIONS FOR PIPES AND CONDUITS, FOR COIL PIPING DETAIL SEE 3/M602. BOX W/COIL: WEIGHT IS LESS THAN 75 LBS. THEREFORE NO BRACING REQUIRED, REFER TO CBC 1705A.13.3.1 (9).
2. CAV BOXES 75 LBS OR LESS WITH COIL (WHERE OCCURS): SECURE STRAP TO BOX WITH SHEET METAL SCREWS, 2 ON EACH SIDE AND 1 ON BOTTOM (TYPICAL), SEAL WITH DUCT SEALANT. NO POP RIVETS ALLOWED.
3. FOR CAV BOXES WITH COIL (WHERE OCCURS) OVER 75 LBS: INSTALL PER OPM# 0043-13, SEE DETAIL 2/M603.
4. MAINTAIN ALL REQUIRED CLEARANCES AND ACCESS IN FRONT OF CAV CONTROL PANELS. NO PIPES, SPRINKLERS, CONDUITS, ETC. SHALL BE INSTALLED WITHIN THIS ZONE. COORDINATE CAREFULLY WITH OTHER TRADES AND UNIT MANUFACTURER.

TERMINAL UNIT (CAV OR VAV) CONFIGURATION DETAIL

3 SCALE: NONE



BRACE ANGLE RANGE q	MAX ALLOWABLE FORCE PER SEISMIC BRACE ASSEMBLY, Fp
30° - 45°	270 LBS
46° - 60°	170 LBS

NOTES:

1. REF. SECTION A1 FOR GENERAL NOTES.
2. PROVIDE ROD STIFFENERS ONLY WHERE SEISMIC BRACKETS ARE ATTACHED TO THE ROD AND ROD LENGTH (L) EXCEEDS 18". REF. APPROPRIATE M10 PAGES FOR DETAIL.
3. REF. PAGE A6.0 - A6.2 FOR ALTERNATE ARRANGEMENTS OF SEISMIC BRACES AND ANGLE OR HSS MEMBER AS TRAPEZE.
4. DESIGN PROFESSIONAL SHALL CONSIDER ECCENTRIC LOAD DISTRIBUTION WHEN DETERMINING THE Fp VALUE USED IN DESIGN.
5. ALL-DIRECTIONAL AND TRANSVERSE BRACE COMBINATION CONFIGURATION MAY BE USED IN LIEU OF CORNER BRACE ARRANGEMENT.

MASON WEST
1601 E. Miraloma Ave. Placentia, CA 92870
TEL (714) 630 - 0701, www.masonwest.com

Jiefu "Jeff" Zhang, SE
California SE No. S5270

PAGE D10.11

1/23/2023 OPM-0043: Reviewed for Code Compliance by William Staehlin 343 of 792

CAV TERMINAL UNIT OR REHEAT COIL MOUNTING DETAIL

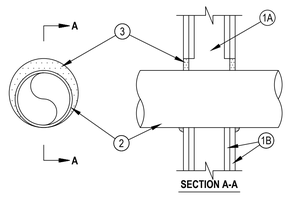
2 SCALE: NONE

System No. W-L-1054

WL 1054

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings —1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings —1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.

Hilti Firestop Systems

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Page: 1 of 2

System No. W-L-1054

WL 1054

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

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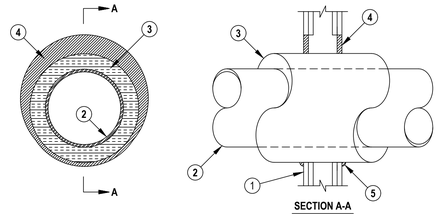
Page: 2 of 2

System No. W-L-5029

WL 5029

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)	F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)
T Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)	FT Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
L Rating At Ambient — 4 CFM/Sq Ft	FH Ratings — 1, 2 and 3 Hr (See Items 1, 2 and 4)
L Rating At 400 F — Less Than 1 CFM/Sq Ft	FTH Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
	L Rating At Ambient — 4 CFM/Sq Ft
	L Rating At 400 F — Less Than 1 CFM/Sq Ft



1. Wall Assembly — The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm). The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).
   D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).

Hilti Firestop Systems

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Page: 1 of 2

System No. W-L-5029

WL 5029

3. Pipe Covering* — Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).
   See Pipe and Equipment Covering — Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
   The hourly T, FT, FTH Ratings of the firestop system are 1/2 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1 hr. For 3 hr rated walls, the hourly T, FT and FTH Ratings when copper penetrants are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).
3A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Rating shall be as specified in item 3 above.
   See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

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Page: 2 of 2

METAL PIPE PENTRATION DETAIL OPTIONS THROUGH GYSUM WALL ASSEMBLY - 2HR RATED WALL

1 SCALE: NONE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

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LICENSED ARCHITECT JOHN M LEWIS No. C-21560 EXP. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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Facilities Design & Construction
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(916)734-7056

R&A ENGINEERING SOLUTIONS, Inc.
Mechanical Consultants
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Tel. (916) 920-5985 Fax. (916) 920-9239
R&A Job Number: NJA14323
PM: SSC Designer / Drafter: AM/MJR

MECHANICAL No. M33082 Exp.12/31/25 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	BACKCHECK 1	11/1/24

CONSTRUCTION DOCUMENTS

ACCUITY NO. 9557740
OSHPP NO.:
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: MECHANICAL DETAILS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath\S. Crosby	9557740	M603
UCDMC PROJECT MANAGER	SCALE	
Z. Price	AS SHOWN	
DESIGNED BY	DATE	
SSC	08/09/24	
DRAWN BY	CAD FILE	SHEET OF
MGE/MJR	-	- -

PIPING GENERAL NOTES

1) This OSHPD Preapproval of Manufacturer's Certification (OPM) is based on the 2013 CBC. The demand (design forces) for use with this OPM shall be based on the 2013 CBC.

2) Per ASCE 7-10, Section 13.3.1, restraints and their anchorages must be capable of restraining horizontal, F_p, and vertical, F_{PV}, seismic accelerations as follows.

$$F_p = (0.7)\frac{0.4a_p S_{DS} W_p}{R_p/I_p}\left(1+2\frac{z}{h}\right) \quad \text{(ASD)} \quad \text{(ASCE 7-10 EQ 13.3-1)}$$

is not required to be taken greater than $(0.7)1.6S_{DS}I_pW_p$ (ASD) (ASCE 7-10 EQ 13.3-2)
shall not be taken less than $(0.7)0.3S_{DS}I_pW_p$ (ASD) (ASCE 7-10 EQ 13.3-3)

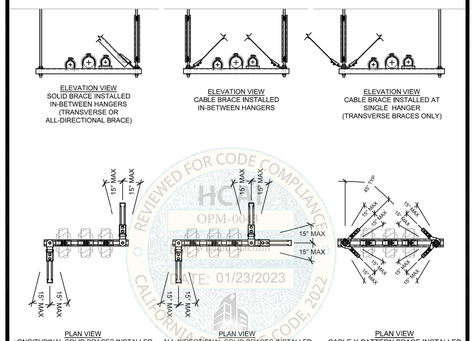
$$F_{PV} = (0.7)0.2S_{DS}W_p \quad \text{(ASD)}$$

Where:
- S_{DS} = short period spectral acceleration - up to 2.5g. Values of S_{DS} indicated in the general notes of the structural drawing take precedence over those calculated per ASCE 7-10, 11.4.4.
- W_p = component (or tributary length of pipe) operating weight (lbs/ft).
- I_p = component importance factor
  - = 1.5 for OSHPD 1 & 4 in accordance with 2013 CBC, Section 1616A.1.17 and for OSHPD 2 & 3, where required by ASCE 7, Section 13.1.3.
  - = 1.0 for OSHPD 2 & 3, when permitted by ASCE 7, Section 13.1.3.
- a_p = component amplification factor (Ref. ASCE 7-10, Table 13.6-1)
  - = 1.0 for gravity waste, vent and drain cast iron plumbing pipe.
  - = 2.5 for all other piping and tubing.
- R_p = component response modification factor (Ref. ASCE 7-10, Table 13.6-1)
  - = 2.5 for gravity, waste, vent and drain cast iron plumbing pipe.
  - = 3.0 for piping and tubing constructed of low-deformability materials such as cast iron, glass, and nonductile plastics.
  - = 4.5 for piping and tubing not in accordance with ASME B31, including in-line components, constructed of high- or limited-deformability materials, with joints made by threading, bonding, compression couplings, or grooved couplings.
  - = 6.0 for piping in accordance with ASME B31, including in-line components, constructed of high- or limited-deformability materials, with joints made by threading, bonding, compression couplings, or grooved couplings.
  - = 9.0 for piping and tubing not in accordance with ASME B31, including in-line components, constructed of high-deformability materials, with joints made by welding or brazing.
  - = 12.0 for piping in accordance with ASME B31, including in-line components with joints made by welding or brazing.

  NOTE: Per ASCE 7-10, Section 13.4.1, do not use an Rp factor greater than 6.0 when calculating Fp and Fpv for design of the attachment.
- z = height in structure of point of component with respect to base (ft).
- h = average roof height of structure with respect to base (ft).

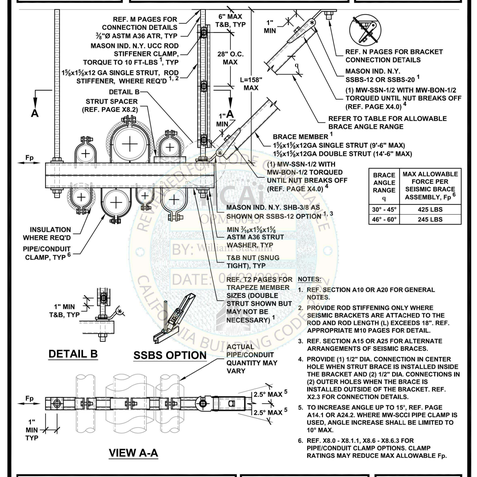
3) For systems anchored to concrete only, the anchorage to concrete overstrength factor, Ω₀, must be applied. Sections M & N provide alternate allowable load tables with and without Ω₀ applied. For cases where Ω₀ is applicable, use the appropriate tables in Sections M & N so it is not necessary to apply this factor when calculating F_p and F_{PV}. Ω₀ is not applicable if a yielding steel element is considered in the load path. Refer to ACI 318-11 Appendix D, Section D.3.3.4.3 or ACI 318-14 Chapter 17, Section 17.2.3.4.3 for a list of qualifying conditions. The Registered Design Professional (RDP) shall use the allowable vertical loads under overstrength factor Ω₀ = 2.0 unless the vertical support complies with one of the qualifying conditions.

ALTERNATE ARRANGEMENT OF SEISMIC BRACES FOR PIPING ON TRAPEZE



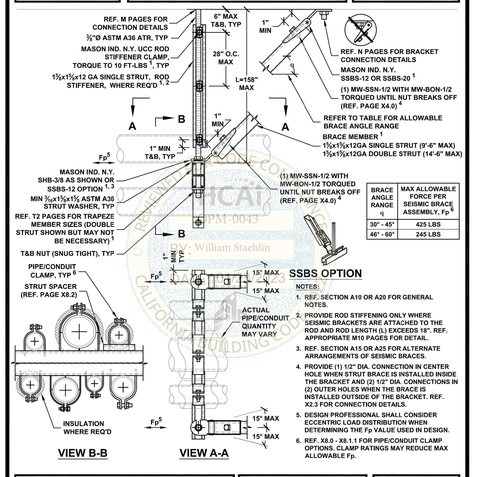
NOTES:
1) REFER TO APPROPRIATE DETAIL F PAGES FOR DIMENSIONS AND NOTATIONS NOT SHOWN.

HANGER ROD DIAMETER = ⅜" | **PIPING/CONDUIT TRANSVERSE TRAPEZE SEISMIC SOLID BRACING SYSTEM 30 PLF MAX** | **KIT OPTIONS: TS12T, TS1220T, TSH312T, TSH320T**



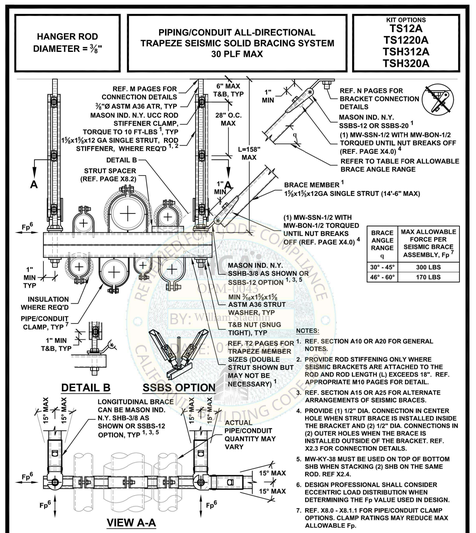
BRACE ANGLE RANGE q	MAX ALLOWABLE FORCE PER SEISMIC BRACE ASSEMBLY, F_p [2]
30° - 45°	425 LBS
46° - 60°	245 LBS

HANGER ROD DIAMETER = ⅜" | **PIPING/CONDUIT LONGITUDINAL TRAPEZE SEISMIC SOLID BRACING SYSTEM 30 PLF MAX** | **KIT OPTIONS: TS12L, TS1220L, TSH312L, TSH320L**



BRACE ANGLE RANGE q	MAX ALLOWABLE FORCE PER SEISMIC BRACE ASSEMBLY, F_p [2]
30° - 45°	425 LBS
46° - 60°	245 LBS

HANGER ROD DIAMETER = ⅜" | **PIPING/CONDUIT ALL-DIRECTIONAL TRAPEZE SEISMIC SOLID BRACING SYSTEM 30 PLF MAX** | **KIT OPTIONS: TS12A, TS1220A, TSH312A, TSH320A**



BRACE ANGLE RANGE q	MAX ALLOWABLE FORCE PER SEISMIC BRACE ASSEMBLY, F_p [2]
30° - 45°	300 LBS
46° - 60°	170 LBS

HANGER DESIGNATION, ATTACHMENT AND SECTION NOTES

PIPE OR CONDUIT SIZE	HANGER ROD SIZE: DESIGNATION	HANGER ROD SIZE: DIAMETER (INCH)
UP TO 2"	38	⅜
2½" TO 3"	50	½
4" TO 5"	63	⅝
6" TO 18"	75	¾
19" TO 12"	88	⅞
14" TO 18"	100	1
20" TO 24"	125	1¼

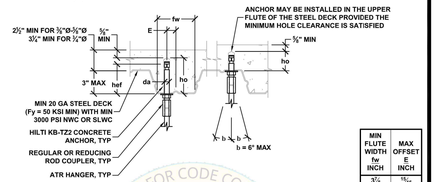
LEGEND (HANGER ATTACHMENT TYPE)
- ### X — DENOTES ATR HANGER SIZE
- ### X — DENOTES VERTICAL LOAD RATING

DISTRIBUTION SYSTEM: PIPE/CONDUIT	DUCTWORK	CABLE TRAY	HANGER ROD SIZE: DESIGNATION	HANGER ROD SIZE: DIAMETER (INCH)
30 LBS/FT	30 LBS/FT	20 LBS/FT	38	⅜
60 LBS/FT	60 LBS/FT	45 LBS/FT	50	½
100 LBS/FT	100 LBS/FT	85 LBS/FT	63	⅝
300 LBS/FT			75	¾
500 LBS/FT			100	1
500 LBS/FT			125	1¼

VERTICAL LOAD RATING: DESIGNATION	MAXIMUM ALLOWABLE LOAD (LBS)
A	75
B	125
C	175
D	250
E	350
F	450
G	575
H	700
J	850
K	1000
L	1250
M	1600
N	2000
P	2500
Q	3500
R	5000
S	7500
T	11000

NOTES:
1 - "M" SERIES PAGES ARE COMPRISED OF HANGER ANCHORAGE CAPACITIES FOR VARIOUS TYPES OF ANCHORAGE CONDITIONS AT SEISMIC BRACE LOCATIONS ONLY. EACH HANGER ATTACHMENT TYPE IS DESIGNATED BY A SET OF NUMBERS AND A LETTER. THE NUMBERS REPRESENTS THE HANGER ROD SIZE (FOUND IN THE HANGER ROD SIZE TABLE) AND THE LETTER REPRESENTS THE MAXIMUM ALLOWABLE LOAD (FOUND IN THE VERTICAL LOAD RATING TABLE).
EXAMPLE: 38H REPRESENTS HANGER ROD SIZE OF ⅜"Ø WITH A MAXIMUM ALLOWABLE VERTICAL LOAD RATING OF 700 LBS.
2 - HANGER ANCHORAGE ATTACHMENTS TO STRUCTURE MAY BE USED WITH ANY ONE OF "M" SERIES PAGES, PROVIDED HANGER ATTACHMENT SIZE IS APPROPRIATE FOR THE APPLICATION AND THE ALLOWABLE VERTICAL LOAD CAPACITY IS MET.
3 - STRUCTURAL ENGINEER OF RECORD TO VERIFY ADEQUACY OF THE STRUCTURE FROM LOADING IMPOSED BY VERTICAL HANGER ATTACHMENT.
4 - WHERE ROD STIFFENER IS REQUIRED, SEE M10.12.
5 - NOT USED.
6 - HANGER ROD MAY BE INSTALLED UP TO 6 DEGREES FROM PERPENDICULAR TO CONCRETE SURFACE.
7 - WHEN CONCRETE ANCHORS ARE INSTALLED AT THE BOTTOM OF THE CONCRETE FILLED METAL DECK, MINIMUM END DISTANCE AND SPACING REQUIREMENTS ARE ALONG FLUTE LENGTH ONLY.
8 - SEE X7.0 AND X7.1 FOR STRUT MEMBER DATA. FOR CONDITIONS WHERE HOLES THROUGH STRUT MEMBERS ARE REQ'D, HOLES SHALL BE STD SIZE HOLES, TYP. U.N.O. WHERE PUNCHED STRUT OR HOLES ARE REQ'D, MIN. SPACING, EDGE, AND END DISTANCES SHALL BE MAINTAINED AS REQ'D PER DETAIL.
9 - ALL-THREAD RODS MUST BE MADE OF A36, A307 (GRADE A OR B), OR F1554 GR36 STEEL. ROD COUPLERS MUST CONFORM TO ASTM A563 STEEL WITH A MINIMUM OF 59 KSI TENSILE STRENGTH. MINIMUM ENGAGEMENT INTO ROD COUPLER MUST BE EQUAL TO THE ATR DIAMETER. ATR HANGER IS PERMITTED FOR COMPRESSION AND TENSION LOADING CONDITIONS ONLY; NO SHEAR LOADING.
10 - ALL CONCRETE FLAT SLABS, WALLS, AND BEAMS MUST HAVE A MINIMUM OF #4 BAR OR GREATER BETWEEN THE ANCHOR AND THE EDGE OF CONCRETE.
11 - DESIGN IS CONTROLLED BY SEISMIC FORCES. NON-SEISMIC FORCES SUCH AS GRAVITY ARE OUTSIDE THE SCOPE OF THIS OPM.
12 - POST-INSTALLED ANCHORS MAY BE INSTALLED A MINIMUM OF 3 BOLT DIAMETERS AWAY FROM ABANDONED HOLES, AND A MINIMUM OF 1.5 BOLT DIAMETERS AWAY FROM DRYPACK MORTAR FILLED HOLES. DRYPACK MORTAR SHALL HAVE A COMPRESSIVE STRENGTH EQUAL OR GREATER THAN THE CONCRETE STRENGTH IN WHICH IT IS BEING USED.
13 - THE HANGER ROD AT SEISMIC BRACE LOCATIONS IS SUBJECTED TO GRAVITY LOADS AS WELL AS LATERAL AND VERTICAL SEISMIC LOADS AND HAS BEEN DESIGNED FOR SUCH COMBINED LOADING IN COMPLIANCE WITH THE CALIFORNIA BUILDING CODE, CALIFORNIA OSHPD AND STANDARD STRUCTURAL STEEL PRACTICES AND ARE NOT SUBJECT TO THE HANGER ROD DIAMETERS DESIGNED FOR GRAVITY LOADS ONLY THAT MAY BE OUTLINED IN PROJECT SPECIFICATIONS, CODE DOCUMENTS, TRADE GUIDELINES, ETC. IN ORDER TO ENSURE THE DELIVERY OF SEISMIC BRACE COMPONENTS THAT MATCH FIELD ERECTED HANGERS, ALL HANGER RODS FOR INDIVIDUAL PIPES AND TRAPEZED SYSTEMS AT SEISMIC BRACE LOCATIONS SHOULD ADHERE TO THE TABLES ABOVE.
14 - PER CBC SECTION 1905A.1.9, CONCRETE COMPRESSIVE STRENGTH, f'_c, SHALL BE LIMITED TO 8,000 PSI MAX, BUT MAY BE INCREASED SUBJECT TO OSHPD REVIEW AND APPROVAL ON A PROJECT BY PROJECT BASIS.

HANGER ATTACHMENT TO CONCRETE FILLED METAL DECK WITH (1) HILTI KB-TZ2 CARBON STEEL CONCRETE ANCHOR

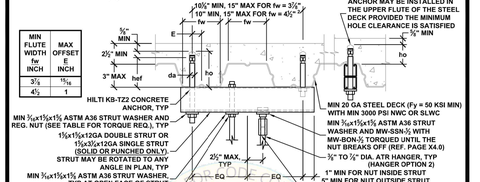


MIN FLUTE WIDTH fw INCH	MAX OFFSET E INCH
3⅛	1⅛
4½	1

HANGER ATTACHMENT TYPE	ALLOWABLE VERTICAL LOAD Ta [1] LBS	MIN ATR HANGER DIA. INCH	HILTI KB-TZ2 CONCRETE ANCHOR (ICC ESR-4266) SPECIAL INSPECTION REQ'D: DIA. da INCH	MIN EFF. EMBED hef INCH	MIN HOLE DEPTH ho INCH	MIN SPACING Smin INCH	MIN END DIST. Cmin INCH	TORQUE REQ'D FT-LBS
38A TO 38J	980	⅜	½	2½	3¼	MAX OF: 3"hef OR 1.5"FLUTE WIDTH	3¼	30
38A TO 38L	1340	⅜						
50A TO 50L	1340	½	½	2½	3¼		3¼	50
63A TO 63L	1340	½						
38A TO 38L	1370	⅜	½	3¼	4⅛		4⅛	50
50A TO 50L	1370	½						
63A TO 63L	1370	½						
50A TO 50M	1610	½	⅝	2¾	3¾		4⅛	40
63A TO 63M	1610	⅝						
75A TO 75M	1610	¾						
50A TO 50M	1800	½	⅝	4	4¾		6	40
63A TO 63M	1800	⅝						
75A TO 75M	1800	¾						
63A TO 63L	1530	⅝	¾	3¼	4⅛		5⅛	110
75A TO 75L	1530	¾						
88A TO 88L	1530	⅞						

SEE DETAIL M0.00 FOR SECTION NOTES
[1] ALLOWABLE LOADS HAVE BEEN INCREASED BY A FACTOR OF 1.2 FOR LOAD COMBINATIONS INCLUDING OVERSTRENGTH, Ω_0, PER ASCE 7-10 SEC. 12.4.3.3 OR ASCE 7-16 SEC. 2.4.5.

HANGER ATTACHMENT TO CONCRETE FILLED METAL DECK WITH (2) HILTI KB-TZ2 CARBON STEEL CONCRETE ANCHORS



MIN FLUTE WIDTH fw INCH	MAX OFFSET E INCH
3⅛	1⅛
4½	1

HANGER ATTACHMENT TYPE	STEEL COMPONENT ALLOWABLE VERTICAL LOAD Ta LBS	HANGER ATTACHMENT TYPE	CONCRETE ANCHOR ALLOWABLE VERTICAL LOAD Tac [1] LBS	ATR HANGER DIA. INCH	HILTI KB-TZ2 CONCRETE ANCHOR (ICC ESR-4266) SPECIAL INSPECTION REQ'D: DIA. da INCH	MIN EFF. EMBED. hef INCH	MIN HOLE DEPTH ho INCH	MIN SPACING Smin INCH	MIN END DIST. Cmin INCH	TORQUE REQ'D FT-LBS
38A TO 38N	2400	38A TO 38L	1310	⅜	½	2½	3¼	MAX OF: 3"hef OR 1.5"FLUTE WIDTH	3¼	30
50A TO 50P	2620	50A TO 50L	1310	½						
63A TO 63P	2620	63A TO 63L	1310	⅝	½	2½	3¼		3¼	50
75A TO 75P	2620	75A TO 75L	1310	¾						
88A TO 88P	2620	88A TO 88L	1310	⅞						
38A TO 38N	2400	38A TO 38M	1830	⅜	½	3¼	4¼		4⅛	50
50A TO 50P	2620	50A TO 50M	1830	½						
63A TO 63P	2620	63A TO 63M	1830	⅝						
75A TO 75P	2620	75A TO 75M	1830	¾						
88A TO 88P	2620	88A TO 88M	1830	⅞						
38A TO 38N	2400	38A TO 38N	2400	⅜	½	4	4¾	MAX OF: 3"hef OR 1.5"FLUTE WIDTH	6	40
50A TO 50P	2620	50A TO 50N	2400	½						
63A TO 63P	2620	63A TO 63N	2400	⅝						
75A TO 75P	2620	75A TO 75N	2400	¾						
88A TO 88P	2620	88A TO 88N	2400	⅞						

SEE DETAIL M0.00 FOR SECTION NOTES
[1] ALLOWABLE LOADS HAVE BEEN INCREASED BY A FACTOR OF 1.2 FOR LOAD COMBINATIONS INCLUDING OVERSTRENGTH, Ω_0, PER ASCE 7-10 SEC. 12.4.3.3 OR ASCE 7-16 SEC. 2.4.5.
[2] WHEN THE BOLT CENTERLINE DISTANCE EXCEEDS 15⅞" FOR fw = 3⅝" OR 14" FOR fw = 4½", THE STRUT MUST BE ROTATED TO COMPLY TO THE DETAIL.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

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R&A ENGINEERING SOLUTIONS Inc
Mechanical Consultants
801 University Avenue, Suite 205, Sacramento, CA 95825
Tel. (916) 920-5905 Fax. (916) 920-9239
R&A Job Number: NJA14323
PM: SSC Designer / Drafter: AM/MJR
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	BACKCHECK 1	11/1/24

CONSTRUCTION DOCUMENTS

PROJECT NO.: 9557740
OSHPH NO.:
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: MECHANICAL DETAILS

ARCH \ ENGR	FD&C JOB NO.	SHEET NO.
J. Flath\S. Crosby	9557740	M604
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	NEW SHEET
DESIGNED BY: SSC	DATE: 08/09/24	
DRAWN BY: MGE/MJR	CAD FILE: -	SHEET: - OF: -

BRACE BRACKET DESIGNATION, ATTACHMENT AND SECTION NOTES

BRACE ANCHOR SIZE	
DESIGNATION	DIAMETER (INCH)
38	⅜
50	½
63	⅝
75	¾
88	⅞
100	1
125	1¼

HORIZONTAL LOAD RATING	
DESIGNATION	MAXIMUM ALLOWABLE LOAD (LBS)
A	75
B	125
C	175
D	250
E	350
F	450
G	575
H	700
J	850
K	1000
L	1250
M	1600
N	2000
P	2500
Q	3500
R	5000
S	7500
T	11000

NOTES:

1 - "N" SERIES PAGES ARE COMPRISED OF SEISMIC BRACE BRACKET ANCHORAGE CAPACITIES FOR VARIOUS TYPES OF ANCHORAGE CONDITIONS. EACH BRACE BRACKET ATTACHMENT TYPE IS DESIGNATED BY A SET OF NUMBERS AND A LETTER. THE NUMBERS REPRESENTS THE BRACE BRACKET ATTACHMENT SIZE (FOUND IN THE BRACE ANCHOR SIZE TABLE) AND THE LETTER REPRESENTS THE MAXIMUM ALLOWABLE HORIZONTAL LOAD CAPACITY (FOUND IN THE HORIZONTAL LOAD RATING TABLE).

LEGEND (HANGER ATTACHMENT TYPE)

X
DENOTES BRACKET ANCHOR SIZE

X
DENOTES HORIZONTAL LOAD RATING

EXAMPLE: 63L REPRESENTS BRACE BRACKET ANCHOR SIZE OF ⅝"Ø WITH A MAXIMUM HORIZONTAL LOAD RATING OF 1,250 LBS.

2 - BRACE BRACKET ANCHORAGE ATTACHMENTS TO STRUCTURE MAY BE USED WITH ANY ONE OF "N" SERIES PAGES, PROVIDED BRACE BRACKET ATTACHMENT SIZE IS APPROPRIATE FOR THE APPLICATION AND THE ALLOWABLE HORIZONTAL LOAD CAPACITY IS MET.

3 - STRUCTURAL ENGINEER OF RECORD TO VERIFY ADEQUACY OF THE STRUCTURE FOR THE TABULATED LOADS.

4 - NOT USED.

5 - WHEN CONCRETE ANCHORS ARE INSTALLED AT THE BOTTOM OF THE CONCRETE FILLED METAL DECK, MINIMUM END DISTANCE AND SPACING REQUIREMENTS ARE ALONG FLUTE LENGTH ONLY.

6 - SEE X7.0 AND X7.1 FOR STRUT MEMBER DATA.

7 - ALL CONCRETE FLAT SLABS, WALLS, AND BEAMS MUST HAVE A MINIMUM OF #4 BAR OR GREATER BETWEEN THE ANCHOR AND THE EDGE OF CONCRETE.

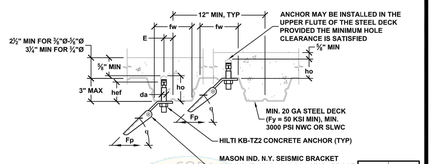
8 - ON PAGES N1.XX AND N2.XX, THE DESIGN PROFESSIONAL SHALL USE THE ALLOWABLE LATERAL LOADS UNDER OVERSTRENGTH FACTOR Ω_0 =2.0 UNLESS THE LATERAL SUPPORT COMPLIES WITH ONE OF THE CONDITIONS LISTED IN ACI 318-14 CHAPTER 17, SECTION 17.2.3.4.3.

9 - POST-INSTALLED ANCHORS MAY BE INSTALLED A MINIMUM OF 3 BOLT DIAMETERS AWAY FROM ABANDONED HOLES, AND A MINIMUM OF 1.5 BOLT DIAMETERS FROM DRYPACK MORTAR FILLED HOLES. DRYPACK MORTAR SHALL HAVE A COMPRESSIVE STRENGTH EQUAL TO OR GREATER THAN THE CONCRETE STRENGTH IN WHICH IT IS BEING USED.

10 - ALL-THREAD RODS MUST BE MADE OF A36, A307 (GRADE A OR B), OF F1554 GR36 STEEL. ROD COUPLERS MUST CONFORM TO ASTM A563 STEEL WITH A MINIMUM OF 58 KSI TENSILE STRENGTH. MINIMUM ENGAGEMENT IN ROD COUPLER MUST BE EQUAL TO THE ATR DIAMETER.

11 - PER CBC SECTION 1905A.1.9, CONCRETE COMPRESSIVE STRENGTH, f'c, SHALL BE LIMITED TO 8,000 PSI MAX, BUT MAY BE INCREASED SUBJECT TO OSHPD REVIEW AND APPROVAL ON A PROJECT BY PROJECT BASIS.

SEISMIC BRACKET ATTACHMENT TO CONCRETE FILLED METAL DECK WITH (1) HILTI KB-TZ2 CARBON STEEL CONCRETE ANCHOR

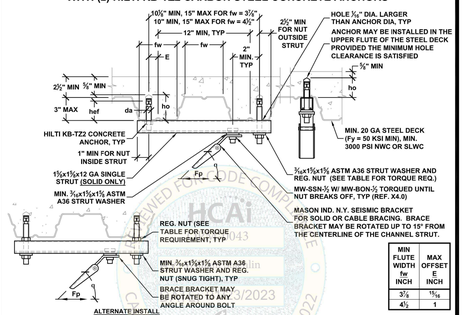


MIN FLUTE WIDTH fw INCH	MAX OFFSET E INCH
3"	15/16
4½	1

BRACE BRACKET ATTACHMENT TYPE	ALLOWABLE LATERAL LOAD Fp LBS	Ω_0 = 2.0† BRACE BRACKET ATTACHMENT TYPE	Ω_0 = 2.0† ALLOWABLE LATERAL LOAD Fp LBS	HILTI KB-TZ2 CONCRETE ANCHOR (ICC ESR-4266) SPECIAL INSPECTION REQ'D MAX BRACE RANGE q	DIA. da INCH	MIN. EFF. EMBED. hef INCH	MIN. HOLE DEPTH ho INCH	MIN. SPACING Smin INCH	MIN. END DIST. Cmin INCH	TORQUE REQ'D FT-LBS
38A TO 38D	320	38A TO 38D	320	30°- 45°	⅜	2½	3½	MAX OF: 3"hef OR 1.5"FLUTE WIDTH	3½	30
38A TO 38C	200	38A TO 38C	200	46°- 60°						
50A TO 50F	450	50A TO 50F	450	30°- 45°	½	2½	3½		3½	50
50A TO 50D	270	50A TO 50D	270	46°- 60°						
50A TO 50F	490	50A TO 50F	490	30°- 45°	½	3¼	4¼		4⅛	50
50A TO 50D	290	50A TO 50D	290	46°- 60°						
63A TO 63F	540	63A TO 63F	540	30°- 45°	⅝	2¾	3½		4⅛	40
63A TO 63D	330	63A TO 63D	330	46°- 60°						
63A TO 63G	620	63A TO 63G	620	30°- 45°	⅝	4	4¾		6	40
63A TO 63E	370	63A TO 63E	370	46°- 60°						
75A TO 75G	600	75A TO 75G	600	30°- 45°	¾	3¼	4½		5⅝	110
75A TO 75D	340	75A TO 75D	340	46°- 60°						

SEE DETAIL N0.00 FOR SECTION NOTES
†OVERSTRENGTH FACTOR AS REQUIRED FOR ANCHORAGE TO CONCRETE.

SEISMIC BRACKET ATTACHMENT TO CONCRETE FILLED METAL DECK WITH (2) HILTI KB-TZ2 CARBON STEEL CONCRETE ANCHORS

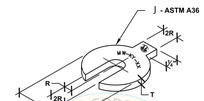


MIN FLUTE WIDTH fw INCH	MAX OFFSET E INCH
3"	15/16
4½	1

BRACE BRACKET ATTACHMENT TYPE	ALLOWABLE LATERAL LOAD Fp LBS	Ω_0 = 2.0† BRACE BRACKET ATTACHMENT TYPE	Ω_0 = 2.0† ALLOWABLE LATERAL LOAD Fp LBS	HILTI KB-TZ2 CONCRETE ANCHOR (ICC ESR-4266) SPECIAL INSPECTION REQ'D MAX BRACE RANGE q	DIA. da INCH	MIN. EFF. EMBED. hef INCH	MIN. HOLE DEPTH ho INCH	MIN. SPACING Smin INCH	MIN. END DIST. Cmin INCH	TORQUE REQ'D FT-LBS
50A TO 50G	620	50A TO 50E	380	30°- 45°	⅜	2½	3½	MAX OF: 3"hef OR 1.5"FLUTE WIDTH	3½	30
50A TO 50F	450	50A TO 50D	270	46°- 60°						
50A TO 50G	620	50A TO 50F	570	30°- 45°	½	3¼	4¼		4⅛	50
50A TO 50F	530	50A TO 50E	400	46°- 60°						
50A TO 50G	620	50A TO 50G	620	30°- 45°	⅝	4	4¾		6	40
50A TO 50F	530	50A TO 50F	510	46°- 60°						

SEE DETAIL N0.00 FOR SECTION NOTES
†OVERSTRENGTH FACTOR AS REQUIRED FOR ANCHORAGE TO CONCRETE.

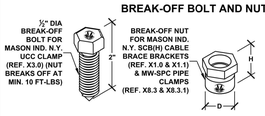
MW-KY SHB KEY



MW-KY DIMENSIONS

SIZE	R	D	T
38	3/16	15/16	3/16
50	1/4	15/16	3/8
63	5/16	1 1/8	3/8
75	3/8	1 1/8	1/2

BREAK-OFF BOLT AND NUT HARDWARE

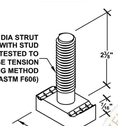


MW-SCB-BON DIMENSIONS

SIZE	D	H	FOR USE WITH	MINIMUM NUT BREAK-OFF TORQUE
5/8	15/16"	31/32"	SCB(H)-0.1	30 FT-LBS
3/4	1 1/8"	31/32"	SCB(H)-2	45 FT-LBS

MATERIAL:
AISI 12L14 CARBON STEEL
(F_y = 60 KSI (MIN), F_t =78 KSI (MIN))

MW-UCC-BOB



MW-SCB-BON & MW-SPC-BON

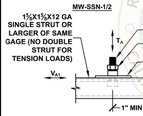
MATERIAL:
1020 MILD STEEL
(SPEC. GB 700 GRADE Q235B) UNLESS OTHERWISE NOTED.

MW-SPC-BON DIMENSIONS

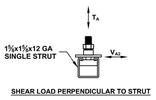
SIZE	D	H	FOR USE WITH	MINIMUM NUT BREAK-OFF TORQUE
3/8	9/16"	31/32"	SPC-13,15,20	20 FT-LBS
1/2	15/16"	31/32"	SPC-25,30,40,50	45 FT-LBS
5/8	15/16"	31/32"	SPC-60,80	75 FT-LBS
3/4	1 1/16"	1"	SPC-100,120	100 FT-LBS

NOTE: 47 EMBLEM STAMPED ON HEAD OF MW-SSN-1/2

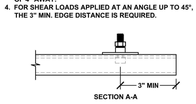
MW-SSN-1/2



SHEAR LOAD PARALLEL TO STRUT



SHEAR LOAD PERPENDICULAR TO STRUT



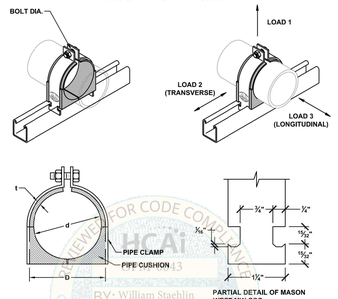
SECTION A-A

MW-SSN-1/2 & MW-BON-1/2 RATINGS (ASD)

TENSION, (T_A)	SHEAR, (V_{AV})	SHEAR, (V_{AT})
2620 LBS	1630 LBS	810 LBS

NOTE:
1. RATING ARE FOR (1) ATTACHMENT ONLY. CONDITIONS WITH MULTIPLE ATTACHMENTS WERE NOT TESTED.
2. COMBINED TENSION AND SHEAR LOADS SHALL BE CHECKED FOR UNITY, $T/T_A + V_{AV}/V_{AV} + V_{AT}/V_{AT} \leq 1.0$
3. ONLY (1) MW-SSN-1/2 SHALL OCCUR WITHIN SPAN S AND ANY ADJACENT MW-SSN-1/2 SHALL BE A MINIMUM OF 4" AWAY.
4. FOR SHEAR LOADS APPLIED AT AN ANGLE UP TO 45°, THE 3" MIN. EDGE DISTANCE IS REQUIRED.

MASON WEST MW-SCC



PARTIAL DETAIL OF MASON WEST MW-SCC

MATERIAL:
CLAMP: HOT ROLLED MILD STEEL, ASTM A1011SS GR 33
CUSHION: THERMOPLASTIC ELASTOMER ASTM D4274/ES139 A50000
BOLT: ASTM A307, GRADE A

COPPER PIPE (TYPE K OR L)								DESIGN LOADS (ASD)			
PART #	NOM. PIPE SIZE (IN)	d (IN)	D (IN)	t (IN)	STRAP GA.	BOLT (IN)	BOLT TORQUE (FT-LB)	MAX LOAD 1 (LBS)	MAX LOAD 2 (LBS)	MAX LOAD 3 (LBS)
SCC-13	1¼	1.375	1.66	.1425	12	5/16	11	2380	130	210
SCC-15	1½	1.625	1.9	.1375	12	5/16	11	2290	170	170
SCC-20	2	2.125	2.375	.125	11	5/16	11	2570	190	240
SCC-25	2½	2.625	2.875	.125	11	5/16	11	2850	180	200
SCC-30	3	3.125	3.5	.1875	11	5/16	11	3130	210	280
SCC-40	4	4.125	4.5	.1875	11	⅜	20	3210	270	360
SCC-50	5	5.125	5.625	.1875	11	⅜	20	3290	300	300
SCC-60	6	6.125	6.625	.1875	11	⅜	20	3370	360	360

1 - FOR PIPING SUSPENDED FROM STRUT, REFER TO PAGE X8.1.1 FOR COMBINED MAX VERTICAL AND LATERAL LOADS.
2 - LOAD 2 AND LOAD 3 MAY BE ROTATED UP TO 15° MAX FROM THE REFERENCED LOAD DIRECTION IN PLAN.

MASON WEST MW-SCC

MAXIMUM ALLOWABLE LOADS FOR MASON WEST MW-SCC PIPE CLAMPS FOR WATER FILLED COPPER PIPING [3]

PART #	NOM. PIPE SIZE (INCH)	MAX SUPPORT SPACING (FT)	DESIGN LOADS (ASD) [1,2,4] COMBINED MAX VERTICAL AND LATERAL LOAD [3] LOAD 1 (LBS)	LOAD 2 Fp (LBS)	COMBINED MAX VERTICAL AND LATERAL LOAD [3] LOAD 1 (LBS)	LOAD 3 Fp (LBS)	COMBINED MAX VERTICAL AND LATERAL LOAD FOR ALL-DIRECTIONAL BRACING LOAD 1 (LBS)	LOAD 2 or LOAD 3 Fp (LBS)
SCC-13	1¼	7	30	130	30	210	30	100
SCC-15	1½	8	40	160	40	170	40	110
SCC-20	2	8	50	180	50	240	50	130
SCC-25	2½	9	80	180	80	190	80	120
SCC-30	3	10	110	200	110	270	110	150
SCC-40	4	10	180	250	180	330	180	180
SCC-50	5	10	260	270	260	270	260	170
SCC-60	6	10	350	320	350	320	350	200

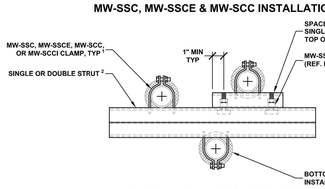
1 - REFER TO PAGE X8.1 FOR LOAD DIRECTION, IDENTIFICATION, AND BALANCE OF INFORMATION.
2 - THE COMBINED MAX VERTICAL AND LATERAL LOADS SHOWN ABOVE ARE APPLICABLE FOR PIPING/CONDUIT SUSPENDED FROM STRUT, WHERE PIPE CLAMPS RESIST PULLOUT.
3 - THE LATERAL LOADS (Fp) SHOWN ABOVE CONSIDER LOADING AT 15 DEGREES MAX FROM THE REFERENCED LOAD DIRECTION.
4- THE COMBINED MAX VERTICAL AND LATERAL LOADS MAY BE ADJUSTED FOR SPECIFIC GRAVITY SUPPORT SPACING IF THE FOLLOWING IS SATISFIED. REFER TO PAGE X8.1 FOR MAX LOAD 1, 2, AND 3:

$T(MAX\ LOAD\ 1) + L_T(MAX\ LOAD\ 2) + L_L(MAX\ LOAD\ 3) \leq 1.0$

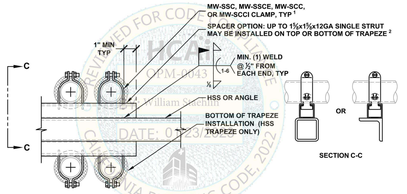
T = GRAVITY LOAD \ VERTICAL SEISMIC LOAD.
L_T = MAX TRANSVERSE LATERAL LOAD.
L_L = MAX LONGITUDINAL LATERAL LOAD.

5 - FOR VAPOR FILLED COPPER PIPE, THE REGISTERED DESIGN PROFESSIONAL (RDP) SHALL CALCULATE THE COMBINED CLAMP CAPACITIES USING THE FORMULAS IN FOOTNOTE 4.

MW-SSC, MW-SSCE & MW-SCC INSTALLATION



STRUT TRAPEZE INSTALLATION



STEEL TRAPEZE INSTALLATION

1. MASON WEST MW-SSC, MW-SSCE, MW-SCC, OR MW-SCCI PIPE CLAMPS CAN BE USED WITH THE FOLLOWING STRUT MEMBERS (REF. PAGE X7.0 & X7.1 FOR STRUT MEMBER DATA) :
   - 1 - 1⅝x1⅝x12GA SINGLE STRUT
   - 2 - 1⅝x1⅝x12GA DOUBLE STRUT
   - 3 - 1⅝x1⅝x12GA SINGLE STRUT
   - 4 - 1⅝x1⅝x12GA DOUBLE STRUT
   - 5 - 1⅝x1⅝x12GA SINGLE STRUT
2. STRUT MEMBERS MAY BE PROVIDED WITH PUNCHED OR SLOTTED HOLES. (REF. PAGE X7.1)
3. MASON WEST MW-SSN-1/2 STRUT NUTS WITH MW-BON-1/2 NUTS MAY BE REPLACED WITH ½" STRUT NUTS AND BOLTS IF TORQUED TO 50 FT-LBS.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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600 Q Street, Suite 100
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916.329.4000

LICENSED ARCHITECT JOHN M. LEWIS No. C-21560 REN. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2nd Avenue Suite 3010
Sacramento, California 95817
(916)734-7056

R&A ENGINEERING SOLUTIONS Inc
Mechanical Consultants
601 University Avenue, Suite 255, Sacramento, CA 95825
Tel. (916) 920-5965 Fax. (916) 920-9239
R&A Job Number: NJA14323
PM: SSC Designer / Drafter: AM/MJR

REGISTERED PROFESSIONAL ENGINEER No. M33282 Exp.12/31/25 MECHANICAL STATE OF CALIFORNIA

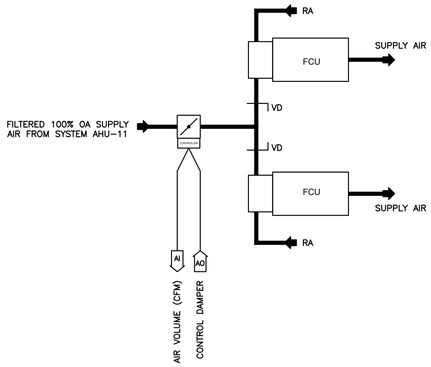
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	BACKCHECK 1	11/1/24

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPH NO.:
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: MECHANICAL DETAILS

ARCH \ ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath\S. Crosby	9557740	M605 (1) NEW SHEET
UCDMC PROJECT MANAGER	SCALE	
Z. Price	AS SHOWN	
DESIGNED BY	DATE	
SSC	08/09/24	
DRAWN BY	CAD FILE	SHEET / OF
MGE/MJR	-	- / -



CONSTANT VOLUME VENTILATION AIR TERMINAL

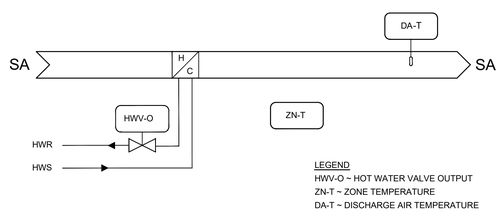
THIS SYSTEM INCLUDES A CONSTANT VOLUME BOX WITH A CONTROLLER AND AIR FLOW SENSOR TO MAINTAIN CONSTANT SUPPLY VENTILATION AIR TO TWO FAN COIL UNITS. TERMINAL UNIT IS TO OPERATE IN A PRESSURE INDEPENDENT CONSTANT VOLUME MODE.

ALARMS: VENTILATION AIR FLOW ABOVE OR BELOW SET POINT BY 5% - DELAY = 5 MINUTES

ALL SET POINTS AND SETTINGS ARE TO BE ADJUSTABLE

4 CONSTANT VOLUME SUPPLY AIR CONTROL DIAGRAM

SCALE: NONE (CAV FOR ROOM VENTILATION FROM 100% OA SYSTEM AHU-11)



LEGEND
HWV-O ~ HOT WATER VALVE OUTPUT
ZN-T ~ ZONE TEMPERATURE
DA-T ~ DISCHARGE AIR TEMPERATURE

SEQUENCE OF OPERATION

THIS SYSTEM INCLUDES A REHEAT COIL, REHEAT CONTROL VALVE, CONTROLLER AND A SUPPLY AIR TEMPERATURE AND ROOM SENSOR. THERE IS NO AIR FLOW CONTROL.

THE DDC CONTROLLER WILL MEASURE ZONE TEMPERATURE AND MODULATE THE HOT WATER CONTROL VALVE TO MAINTAIN ZONE TEMPERATURE.

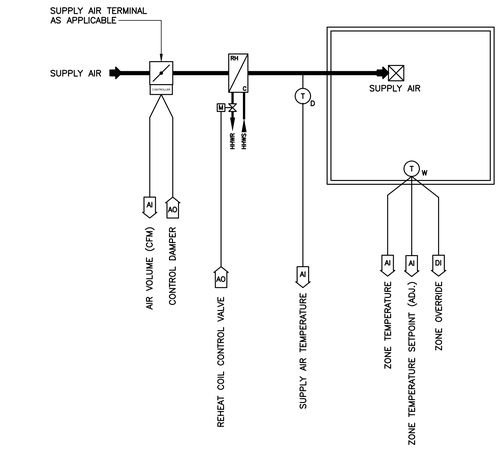
THE DDC CONTROLLER WILL MONITOR DISCHARGE AIR TEMPERATURE.

UPDATE BMS WITH NEW ZONE GRAPHICS.

REFER TO 1/M701 FOR ADDITIONAL INFORMATION.

3 REHEAT COIL CONTROL

SCALE: NONE (HEATING COILS DOWNSTREAM OF FAN COILS)



TYPICAL CONSTANT AIR VOLUME TERMINAL WITH REHEAT COIL

THIS SYSTEM INCLUDES A CONSTANT VOLUME BOX WITH A REHEAT COIL, REHEAT CONTROL VALVE, CONTROLLER AND A SUPPLY AIR TEMPERATURE AND ROOM SENSOR. TERMINAL UNIT IS TO OPERATE IN A PRESSURE INDEPENDENT CONSTANT VOLUME MODE.

REHEAT VALVE CONTROL

REHEAT COIL VALVE SHALL MODULATE TO MAINTAIN A SPACE TEMPERATURE HEATING SET POINT OF 70 DEGREES WITH A 2 DEGREE THROTTLING RANGE. INDIVIDUAL SET POINTS SHALL BE PROGRAMMED FOR EACH REHEAT ZONE.

COOLING REQUESTS

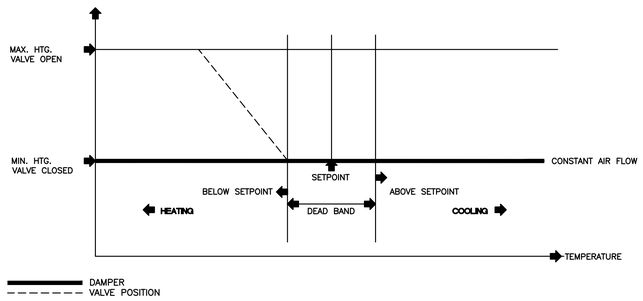
FOR THE PURPOSE OF REPORTING "NEED COOL" REQUESTS TO THE AHU, THE SPACE COOLING SET POINT SHALL BE 74 DEGREES, WITH A 2 DEGREE THROTTLING RANGE. INDIVIDUAL SET POINTS SHALL BE PROGRAMMED FOR EACH REHEAT ZONE.

ALARMS

WHEN OPERATING, SUPPLY AIR TEMPERATURE ABOVE 115 OR BELOW 50 - DELAY = 10 MINUTES

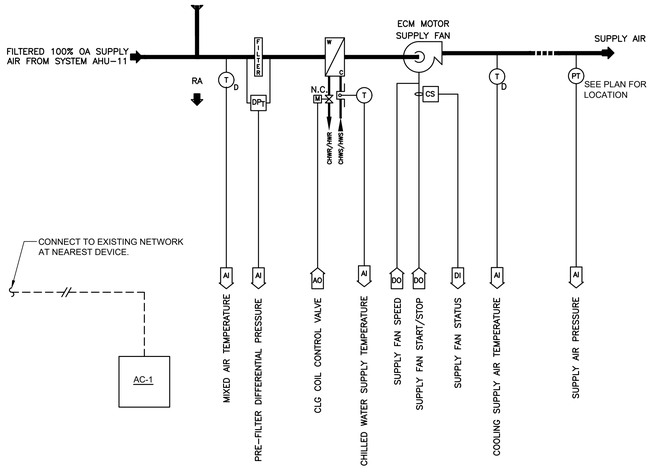
ZONE AIR TEMPERATURE--LOW 60; HIGH 85 START DELAY=600 DELAY = 10 MINUTES

ALL SET POINTS AND SETTINGS ARE TO BE ADJUSTABLE



2 ZONE TEMPERATURE CONTROL DIAGRAM

SCALE: NONE (CAV TERMINAL WITH REHEAT COIL)



OPERATION

THE FAN COIL UNIT (FCU) SHALL OPERATE CONTINUOUSLY TO MAINTAIN COOLING SET POINTS. THE BMS SHALL PROVE THE SUPPLY FAN OPERATION AND USE ITS RESPECTIVE STATUS INDICATION TO ACCUMULATE RUNTIME. UPON A FAILURE OF THE SUPPLY FAN, THE EMS SHALL GENERATE AN ALARM.

THE CHILLED WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE SET POINT OF 74 DEG.

A DIFFERENTIAL PRESSURE SENSOR SHALL BE MOUNTED ACROSS FILTER AND PROVIDE AN ANALOG INPUT TO THE BMS. IN A DIRTY FILTER SITUATION (2 X THE CLEAN DIFFERENTIAL PRESSURE - ADJUSTABLE), AN ALARM SHALL BE ANNUNCIATED AT THE OPERATOR'S CONSOLE.

A DUCT MOUNTED PRESSURE TRANSMITTER SHALL BE USED FOR FAN STATIC PRESSURE CONTROL. SEE PLANS FOR PRESSURE SENSOR LOCATION.

ALARMS

SUPPLY AIR TEMPERATURE ABOVE OR BELOW SET POINT BY 10 DEGREES - DELAY = 10 MINUTES.

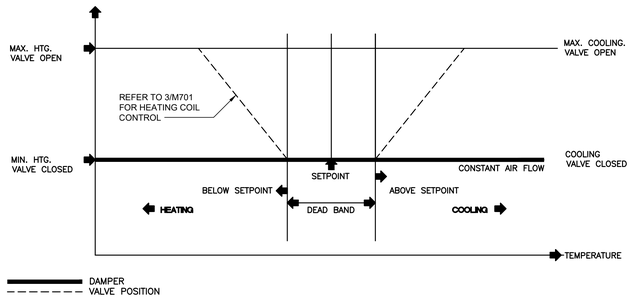
ZONE AIR TEMPERATURE-- +/- 3 DEGREES (ADJUSTABLE) FROM SET POINT = 10 MINUTES

SUPPLY FAN STATUS - NOT PROVEN - MODE 60 SECONDS, DELAY 60 SECONDS

FILTER--GREATER THAN 2X THE CLEAN DIFFERENTIAL PRESSURE.

DUCT STATIC PRESSURE FALLS BELOW STATIC PRESSURE SET POINT BY 0.1"

ALL SET POINTS AND SETTINGS ARE TO BE ADJUSTABLE



1 CHILLED WATER FAN COIL UNIT (FCU) CONTROL

SCALE: NONE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
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Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
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REGISTERED PROFESSIONAL ENGINEER STEPHEN S. CROSBY No. M33282 Exp.12/31/25 MECHANICAL STATE OF CALIFORNIA

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPD NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: MECHANICAL CONTROLS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath\S. Crosby	9557740	M701
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: SSC	DATE: 08/09/24	
DRAWN BY: MGE/MJR	CAD FILE: -	SHEET: - OF: -

SHEET INDEX

P001	PLUMBING LEGEND, NOTES AND SHEET INDEX
P002	PLUMBING SCHEDULES
P511	ENLARGED 1ST FLOOR PLUMBING PLANS
P512	ENLARGED 2ND FLOOR PLUMBING PLAN
P601	PLUMBING DETAILS
P602	PLUMBING DETAILS

GENERAL NOTES

1. CONTRACTOR SHALL VISIT SITE TO REVIEW SCOPE OF WORK PRIOR TO SUBMISSION OF BID.
2. DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT PLACEMENT OF NEW WORK. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE PROCEEDING WITH WORK. EXACT PLACEMENT SHALL BE COORDINATED BASED ON ACTUAL FIELD MEASUREMENTS AND CONDITIONS.
3. COORDINATE REQUIREMENTS OF NEW WORK WITH OTHER TRADES AND PROVIDE ALL NECESSARY APPURTENANCES AND INCIDENTAL LABOR, INCLUDING PARTS AND ACCESSORIES, CONNECTIONS, SYSTEM START-UP AND TESTING AS REQUIRED TO ACHIEVE A COMPLETE FULLY FUNCTIONING INSTALLATION READY FOR OPERATION.
4. PRIOR TO FABRICATION, CONTRACTOR SHALL PREPARE FULLY COORDINATED DETAILED SHOP DRAWINGS (DRAWN TO SCALE) OF ALL PROJECT WORK AND SUBMIT TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL. SHOP DRAWINGS SHALL INCLUDE DETAILED PLAN VIEW LAYOUTS (1/4" SCALE MINIMUM) SHOWING EQUIPMENT, DUCTWORK AND PIPING WITH DUCT AND PIPE SIZES AND ELEVATIONS ABOVE FINISHED FLOOR. COORDINATE WORK WITH OTHER TRADES AS REQUIRED TO ACHIEVE INTENDED ARCHITECTURAL ELEVATIONS.
5. AVOID ROUTING PIPING ABOVE ELECTRICAL EQUIPMENT AND CABLE TRAYS. WHERE INSTALLATION OF PIPING ABOVE ELECTRICAL EQUIPMENT OR CABLE TRAYS IS UNAVOIDABLE, INSTALL PIPING WITH A MINIMUM NUMBER OF JOINTS. JOINTS, FITTINGS, VALVES OR SIMILAR COMPONENTS SHALL BE LOCATED A MINIMUM OF 36 INCHES FROM EACH SIDE OF EQUIPMENT OR TRAY. PROVIDE DRIP PAN(S) WITH MOISTURE DETECTION ABOVE CRITICAL EQUIPMENT.
6. ALL WORK SHALL COMPLY WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 (2022 EDITION), INCLUDING THE CALIFORNIA BUILDING CODE (CBC), CALIFORNIA MECHANICAL CODE (CMC), CALIFORNIA PLUMBING CODE (CPC), CALIFORNIA FIRE CODE (CFC), CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA ENERGY CODE AND CALIFORNIA ELECTRICAL CODE.
7. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE GENERAL CONDITIONS OF THE PRIME CONTRACT.
8. CONSTRUCTION SHALL BE ORGANIZED IN SUCH A MANNER AS TO MINIMIZE DISRUPTION TO FACILITY OPERATIONS AND DISTURBANCE OF OCCUPANTS. NOTIFY OWNER'S REPRESENTATIVE A MINIMUM OF 48 HOURS IN ADVANCE OF ANY REQUIRED SYSTEM SHUTDOWNS, DISTURBANCE OF OR ENCROACHMENT INTO OCCUPIED AREAS. PERFORM ACTIVITIES SUCH AS MASONRY DRILLING AND SAWCUTTING ONLY DURING DESIGNATED HOURS; DAMPEN NOISE AND VIBRATION TRANSMITTED TO OCCUPIED AREAS TO THE GREATEST EXTENT POSSIBLE. MAINTAIN EGRESS FROM OCCUPIED AREAS AT ALL TIMES. DO NOT OBSTRUCT OR OTHERWISE IMPEDE PEDESTRIAN OR VEHICULAR TRAFFICWAYS CRITICAL TO THE ONGOING OPERATION OF THE FACILITY.
9. CONTRACTOR SHALL COMPLY WITH THE FACILITY'S POLICIES AND PROCEDURES REGARDING CONTAINMENT /ISOLATION OF CONSTRUCTION AREAS AND ACTIVITIES THROUGHOUT CONSTRUCTION OF THE PROJECT. PROVIDE DUST PROTECTION, CONSTRUCTION BARRIERS, AND /OR FILTRATION ON HVAC SYSTEM INLETS AS REQUIRED TO PROTECT OCCUPIED AREAS AND AFFECTED HVAC SYSTEMS FROM CONTAMINATION BY AIRBORNE POLLUTANTS (INCLUDING DUST, SMOKE, FUMES AND ODORS) GENERATED BY CONSTRUCTION ACTIVITIES.
10. MEANS, METHODS AND TIMING OF WORK SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE INSOFAR AS THEY AFFECT FACILITY OPERATIONS. MEANS AND METHODS ARE STILL SUBJECT TO ACCEPTANCE BY THE AUTHORITY HAVING JURISDICTION AND MUST COMPLY WITH DESIGN AND CODE INTENT.
11. PRE-APPROVED PIPES, DUCTS, AND CONDUITS SEISMIC BRACING
    A. THE CONTRACTOR SHALL PROVIDE LAYOUT DRAWINGS OF THE SUPPORTS, ATTACHMENTS, AND BRACING SYSTEMS IN ACCORDANCE WITH THE SELECTED HCAI PRE-APPROVED SYSTEM AND SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE OF THE PROJECT FOR REVIEW TO VERIFY THAT THE DETAILS ARE IN CONFORMANCE WITH THE CODE REQUIREMENTS. THE LAYOUT DRAWINGS SHALL AS A MINIMUM SATISFY THE REQUIREMENTS OF ASCE 7 SECTION 13.6 AS MODIFIED BY THE CBC 2022 SECTION 1617A.
        a) THE STRUCTURAL ENGINEER OF RECORD (SEOR) SHALL VERIFY THAT THE SUPPORTING STRUCTURE IS ADEQUATE FOR THE FORCES IMPOSED ON IT BY THE SUPPORTS, ATTACHMENTS, AND BRACES INSTALLED IN ACCORDANCE WITH THE PRE-APPROVAL IN ADDITION TO ALL OTHER LOADS.
        b) THE SEOR SHALL FORWARD THE SUPPORTS, ATTACHMENTS, AND BRACING DRAWINGS (INCLUDING APPROVED AMENDED CONSTRUCTION DOCUMENTS FOR SUPPLEMENTARY FRAMING WHERE REQUIRED) TO THE DISCIPLINE IN RESPONSIBLE CHARGE WITH A NOTATION INDICATING THAT THE DRAWINGS HAVE BEEN REVIEWED AND ARE IN GENERAL CONFORMANCE WITH THE PRE-APPROVAL AND THE DESIGN OF THE PROJECT.
        c) A "SHOP DRAWING STAMP" MAY BE USED TO INDICATE COMPLIANCE WITH THIS REQUIREMENT.
        d) THE REGISTERED DESIGN PROFESSIONAL (RDP) OTHER THAN SEOR, MAY PROVIDE THE SHOP DRAWING STAMP FOR SMALL PROJECTS AT THE DISCRETION OF THE HCAI DISTRICT STRUCTURAL ENGINEER.
    B. THE SEOR SHALL DESIGN ANY SUPPLEMENTARY FRAMING THAT IS NEEDED TO RESIST THE LOADS, MAINTAIN STABILITY AND/OR IS REQUIRED FOR INSTALLATION OF PRE-APPROVED SYSTEM.
        a) THE SUPPLEMENTARY FRAMING SHALL BE SUBMITTED TO HCAI AS AN AMENDED CONSTRUCTION DOCUMENTS (ACD).
    C. THE LAYOUT DRAWINGS (WITH THE SHOP DRAWING STAMP) SHALL BE SUBMITTED TO HCAI TO REVIEW:
        a) STRUCTURE SUPPORTING THE DISTRIBUTION SYSTEM HAS ADEQUATE CAPACITY.
        b) SEISMIC DESIGN FORCES (FP) ARE IN ACCORDANCE WITH THE CBC 2022.
        c) VERIFY THAT SUBMITTAL IS WITHIN THE SCOPE OF HCAI PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM).
12. REFER TO STRUCTURAL DRAWINGS FOR SEISMIC CRITERIA.
13. THE EQUIPMENT MANUFACTURERS AND MODELS SPECIFIED ON THE DRAWINGS SERVE AS THE BASIS OF DESIGN. NO SUBSTITUTIONS OF ANY EQUIPMENT ARE ALLOWED WITHOUT FIRST OBTAINING APPROVAL FROM THE OWNER'S REPRESENTATIVE. ANY PROPOSED SUBSTITUTIONS MUST BE FROM ONE OF THE ALTERNATE MANUFACTURERS LISTED IN THE SPECIFICATIONS; MUST MATCH THE PHYSICAL CONFIGURATION AND REQUIREMENTS OF THE SPECIFIED MODEL INCLUDING OVERALL DIMENSIONS, INLET AND OUTLET CONFIGURATION, REQUIRED CLEARANCES, ACCESS AND POWER REQUIREMENTS; AND MUST MEET SEISMIC CERTIFICATION REQUIREMENTS WHERE MANDATED BY THE AUTHORITY HAVING JURISDICTION. PERFORMANCE FEATURES AND CONSTRUCTION OF ANY PROPOSED SUBSTITUTION SHALL MEET OR EXCEED THOSE SPECIFIED ON THE DRAWINGS AND IN THE SPECIFICATIONS. STRUCTURAL ENGINEERING CALCULATIONS FOR EQUIPMENT SUPPORT AND ANCHORAGE SHALL BE SUBMITTED BY THE CONTRACTOR AT THE TIME OF SUBMITTAL OF ANY SUBSTITUTION FOR REVIEW BY THE ARCHITECT, MECHANICAL AND STRUCTURAL ENGINEERS OF RECORD, AND HCAI FIELD PERSONNEL. SUBSTITUTIONS REQUIRING CHANGES TO THE CONTRACT DOCUMENTS BY MEANS OF A CHANGE ORDER ARE NOT ALLOWED.
14. WHERE EXISTING UTILITIES NOT SHOWN ON THE DRAWINGS ARE ENCOUNTERED, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY. SUPPORT AND PROTECT UTILITIES UNTIL PROVISIONS CAN BE MADE FOR RELOCATION OR OTHER SOLUTION.
15. CUTTING AND DEMOLITION WORK SHALL NOT COMPROMISE STRUCTURAL INTEGRITY OF THE EXISTING CONSTRUCTION OR DAMAGE PORTIONS OF EXISTING WORK TO REMAIN.
16. OWNER RESERVES THE RIGHT TO RETAIN ALL MATERIALS AND EQUIPMENT REMOVED FROM THE PROJECT. ANY ITEMS OR MATERIALS NOT DESIRED BY THE OWNER SHALL BE REMOVED FROM THE OWNER'S PROPERTY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
17. COORDINATE METHOD, ROUTE AND TIMING OF MATERIAL AND DEBRIS REMOVAL WITH OWNER'S REPRESENTATIVE PRIOR TO ANY REMOVAL.
18. PATCH AND REPAIR ANY DAMAGE TO WALLS, FLOORS, CEILINGS, CABINETS, HARDWARE, WINDOWS, FIXTURES, ETC. RESULTING FROM PROJECT WORK. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR DRYWALL AND FINISH PATCHWORK AND REPAIR REQUIREMENTS. MATCH EXISTING FINISHES AS CLOSELY AS POSSIBLE UNLESS NOTED OTHERWISE. PATCHES AND REPAIRS SHALL RESTORE FINISH TO "LIKE NEW" CONDITION.
19. SEAL AND PROTECT ALL PIPE, DUCT AND CONDUIT PENETRATIONS OF FLOORS, WALLS, CEILINGS AND ROOF. METHODS AND MATERIALS USED FOR TREATMENT OF PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE U.L. AND FIRE MARSHAL APPROVED.
20. ALL LOCATIONS FOR SAW-CUTTING OF CONCRETE SLABS, CORING OF CONCRETE SURFACES, DRILLING FOR ANCHOR BOLTS, ETC. SHALL BE COORDINATED WITH AND APPROVED BY A CALIFORNIA LICENSED STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
21. ALL ROOFING AND FLASHING ELEMENTS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ALL ROOFING AND FLASHING DETAILS.
22. CONTRACTOR SHALL LABEL ALL NEW VALVES SEQUENTIALLY USING THE EXISTING FACILITY TAG INVENTORY LIST. USE METAL TAGS. TAGS SHALL TO BE 2" DIAMETER AND FABRICATED OF BRASS OR STAINLESS STEEL. TAGS SHALL BE ATTACHED WITH JACK CHAIN MADE FROM THE SAME MATERIAL.
23. PLUMBING EQUIPMENT TAGS USED WITHIN THESE PROJECT DRAWINGS ARE GENERIC FOR PROJECT DOCUMENT DEVELOPMENT AND DESIGN TEAM COORDINATION. CONTRACTOR SHALL COORDINATE THE PREFERRED EQUIPMENT TAGS/NAMING WITH THE UNIVERSITY REPRESENTATIVE. UPDATED TAG/NAMING INFORMATION SHALL BE INCLUDED IN THE CONTRACTOR AS-BUILTS AND PROJECT RECORD DRAWINGS SUBMITTAL AT PROJECT COMPLETION.
24. ALL NEW WASTE PIPING SHALL BE SLOPED UNIFORMLY BETWEEN THE UPPER TERMINAL OF THE WASTE SYSTEM AND/OR SITE PIPING NOT LESS THAN ¼" PER FOOT, UNLESS OTHERWISE NOTED. WHERE SLOPES LESS THAN ¼" PER FOOT ARE INDICATED, THE NEW PIPING SHALL BE SLOPED TO ACHIEVE THE MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN INDICATED OR ALLOWED BY CODE.

HCAI INTENT NOTE

THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO RECONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE 2022 CBC. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE 2022 CBC, AMENDED CONSTRUCTION DOCUMENTS (ACDs) DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY HCAI BEFORE PROCEEDING WITH THE WORK.

MEDICAL GAS SYSTEM NOTES

THE MEDICAL GAS SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 99, 2021 EDITION. MEDICAL GAS OUTLETS SHALL CONFORM TO CBC TABLE 1224.4.6.1. THE INSTALLATION OR MODIFICATION SHALL BE PERFORMED BY PERSONS ASSE 6010 CERTIFIED. ANY MEDICAL GAS PIPING SYSTEM BREACHED BY PROJECT WORK MUST BE TESTED AND RE-CERTIFIED PER NFPA 99.

PLUMBING LEGEND

ABBREVIATIONS

AC	ABOVE CEILING
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECT
AV	ACID VENT
AVTR	ACID VENT THRU ROOF
AW	ACID WASTE
BG	BELOW GRADE
BFP	BACKFLOW PREVENTER
BOP	BOTTOM OF PIPE
BV	BALANCING VALVE
CA	COMPRESSED AIR
CAP	CAPACITY
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CKV	CHECK VALVE
CLG	CEILING
CO	CLEAN OUT
CSK	CLINIC SINK
CV	CONTROL VALVE
D	DRAIN
DCW	DOMESTIC COLD WATER
DET	DETAIL
DF	DRINKING FOUNTAIN
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DI	DEIONIZED WATER
DN	DOWN
DWG	DRAWING
(E)	EXISTING
(ER)	EXISTING RELOCATED
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
FA	FROM ABOVE
FB	FROM BELOW
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FLR	FLOOR
FPM	FEET PER MINUTE
FSH	FIRE SPRINKLER HEAD
FSK	FLOOR SINK
FP	FIRE PROTECTION
FSP	FIRE SPRINKLER PIPE
FT	FEET
G	NATURAL GAS
GCO	GRADE CLEAN OUT
GLV	GLOBE VALVE
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
HB	HOSE BIBB
HPG	HIGH PRESSURE NATURAL GAS
ICW	INDUSTRIAL COLD WATER
ID	INSIDE DIAMETER
IW	INDIRECT WASTE
LA	LABORATORY AIR
LAV	LAVATORY
LBS	POUNDS
LP	LOW PRESSURE
MA	MEDICAL AIR
MAX	MAXIMUM
MFR	MANUFACTURER
MPG	MEDIUM PRESSURE NATURAL GAS
MIN	MINIMUM
MISC	MISCELLANEOUS
(N)	NEW
N2	NITROGEN
N2O	NITROUS OXIDE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
O2	OXYGEN
OC	ON CENTER
OFD	OVERFLOW DRAIN
OFL	OVERFLOW LEADER
PCD	PUMPED CONDENSATE DRAIN
PG	PRESSURE GAUGE
PLBG	PLUMBING
POC	POINT OF CONNECTION
POD	POINT OF DISCONNECT
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RD	ROOF DRAIN
RM	ROOM
RO	REVERSE OSMOSIS WATER
RWL	RAINWATER LEADER
SCD	SECONDARY CONDENSATE DRAIN
SCH	SCHEDULE
SD	STORM DRAIN
SH	SHOWER
SHT	SHEET
SK	SINK
SM	SHEET METAL
SOV	SHUT OFF VALVE
SQ FT	SQUARE FOOT
SS	SANITARY SEWER
SST	STAINLESS STEEL
STD	STANDARD
TH	THERMOMETER
TYP	TYPICAL
UF	UNDER FLOOR
US	UNDER SLAB
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UR	URINAL
US	UNDER SLAB
V	SANITARY VENT
VAC	MEDICAL VACUUM
VR	VENT RISER
VTR	VENT THRU ROOF
W/	WITH
W/O	WITHOUT
W	SANITARY WASTE
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WD	WASTE DROP
WH	WATER HEATER
WHA	WATER HAMMER ARRESTER
WSP	WET STANDPIPE

PLUMBING

PLUMBING

NEW PIPE
EXISTING PIPE
PIPE TO BE DEMOLISHED
DOMESTIC COLD WATER - DCW
DOMESTIC HOT WATER - DHW
DOMESTIC HOT WATER RETURN - DHWR
VENT - V
SANITARY WASTE - W
FLOW DIRECTION
DEIONIZED WATER
NATURAL GAS, LOW PRESSURE
INDUSTRIAL COLD WATER
NATURAL GAS, MEDIUM PRESSURE
OVERFLOW LEADER
REVERSE OSMOSIS WATER
RAINWATER LEADER
SOFT WATER
CLEANOUT
FLEX CONNECTOR
FLOOR CLEANOUT
FLOOR DRAIN
FLOOR SINK
HOSE BIBB
OVERFLOW DRAIN
ROOF DRAIN
STRAINER
WALL CLEANOUT
WATER HAMMER ARRESTER

PIPE FITTINGS

PIPE RISE/ELBOW UP
PIPE DROP/ELBOW DOWN
PIPE RISE/DROP TOP CONNECTION
PIPE RISE/DROP BOTTOM CONNECTION
FLANGE CONNECTION
UNION CONNECTION
CAPPED PIPE
REDUCER

VALVES

ANGLE VALVE
BACK FLOW PREVENTER
BALANCE VALVE
BALL VALVE
BUTTERFLY VALVE
CONTROL VALVE 2-WAY
CONTROL VALVE 3-WAY
CHECK VALVE, DIRECTION
GAS COCK
GATE VALVE
GLOBE VALVE
PRESSURE REDUCING VALVE
PRESSURE RELIEF VALVE
SHUT-OFF VALVE
SOLENOID VALVE
STEAM TRAP

MEDICAL GAS

LOX — LIQUID OXYGEN
MA — MEDICAL AIR

MEDICAL GAS CONT.

VAC — MEDICAL VACUUM
N2 — NITROGEN
N2O — NITROUS OXIDE
O2 — OXYGEN
PS — PRESSURE SWITCH
AA-1 — AREA ALARM PANEL
ZVB-1 — ZONE VALVE BOX

MEDICAL GAS OUTLETS

VAC-1 — VACUUM OUTLET
MA-1 — MEDICAL AIR OUTLET
O2-1 — OXYGEN OUTLET

GENERAL

(1) NEW WORK SHEET NOTE
[1] DEMOLITION SHEET NOTE
⟨1⟩ PHOTO SHEET NOTE
1 REVISION DELTA
EQ / 1 EQUIPMENT TYPE / EQUIPMENT NUMBER
1 / M1 DETAIL NUMBER / SHEET NUMBER
1 / M1 SECTION NUMBER / SHEET NUMBER
N NORTH ARROW

SEQUENCE OF CONSTRUCTION NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A DETAILED METHOD OF PROCEDURE (MOP) TO THE UNIVERSITY REPRESENTATIVE, OSHPD FIELD STAFF AND THE MECHANICAL ENGINEER (MEOR) FOR THEIR REVIEW AND APPROVAL.
2. THE CONTRACTOR'S METHOD OF PROCEDURE (MOP) SHALL INCORPORATE AND STRICTLY ADHERE TO THE PHASING OF CONSTRUCTION BASED ON THE ARCHITECTURAL PHASING PLANS.
3. ALL WORK TO BE PERFORMED AS DETAILED WITHIN THE CONSTRUCTION DOCUMENTS. GENERALLY WORK SHALL BE PERFORMED DURING OFF-HOURS, SHALL BE COORDINATED WITH UNIVERSITY PERSONNEL AND SHALL BE SEQUENCED AS NEEDED TO LIMIT OR MINIMIZE DISRUPTIONS TO FACILITY OPERATIONS. CONTRACTORS SHALL INCLUDE IN THEIR BID ALL TEMPORARY SUPPORTS & CONNECTIONS, AS WELL AS STAGING AND COORDINATION BETWEEN DISCIPLINES & UNIVERSITY PERSONNEL. THE COORDINATION WITH UNIVERSITY PERSONNEL OF ANY SHUTDOWNS FOR TIE-INS TO EXISTING UTILITIES AS WELL AS THE PROCUREMENT OF TEMPORARY VACUUM CANISTERS, AND OXYGEN (O2) AND MEDICAL AIR (MA) CYLINDERS DURING THE INTERIM AS NECESSARY. 1

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
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Office of Statewide Hospital Planning & Development
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REGISTERED PROFESSIONAL ENGINEER No. M33082 Exp.12/31/25 MECHANICAL STATE OF CALIFORNIA

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	BACKCHECK 1	11/1/24

CONSTRUCTION DOCUMENTS

PROJECT NO.: 9557740
OSHPH NO.:
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PLUMBING LEGEND, NOTES & SHEET INDEX

ARCH \ ENGR: J. Flath\S. Crosby	FD&C JOB NO.: 9557740	SHEET NO.: P001	
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN		
DESIGNED BY: SSC	DATE: 08/09/24		
DRAWN BY: MGE/MJR	CAD FILE: -	SHEET: -	OF: -

(ER)MED GAS COMBINATION ZONE VALVE BOX & AREA ALARM PANEL

TAG NO.	AREA SERVED / LOCATION	MANUFACTURER & MODEL	MEDICAL GAS VALVE SIZE						REMARKS
			VAC	O2	MA	N2O	N2	CO2	
ZVB/AA-1.4	(E) CORRIDOR 1P740	"BEACON MEDAES" MODEL AZVB3-AAB	1¼"	¾"	½"	-	-	-	

NOTES:

1. ALARM INPUT POWER 100 TO 250 VAC 50 / 60 Hz, 1 AMP INPUT RATING. DRY/SLAVE CONTACTS MODULES FOR MA. UNIT SHALL BE PROVIDED WITH EMERGENCY BACK-UP POWER CIRCUIT TO MAINTAIN NORMAL OPERATION DURING PERIODS OF POWER OUTAGES. (REFER TO DIVISION 26 FOR POWER).
2. (ER) PANEL HAS THE FOLLOWING: TOUCH SCREEN DIGITAL DISPLAY, AUDIBLE HORN & VISUAL INDICATOR ALARMS, FULL-PORT BALL VALVES, PRE-INSTALLED AREA ALARM SENSORS WITHIN THE BOX ON THE PATIENT SIDE AND VALVE PURGE PORTS.
3. (ER) PANEL SHALL BE LABELED AS PER THE FACILITY STANDARDS AND INDICATE THE AREA SERVED.
4. (ER) ZONE VALVE BOXE & AREA ALARM PANEL SHALL BE MOUNTED AT 66" ABOVE FINISHED FLOOR TO THE TOP OF THE PANEL. REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATIONS AND MOUNTING HEIGHT.

MEDICAL GAS OUTLET SCHEDULE

TAG NO.	DESCRIPTION	MANUFACTURER & MODEL	MINIMUM PIPE SIZE	CONNECTION SIZE	REMARKS
O2-1	WALL OUTLET (DISS KEY STYLE)	"BEACON MEDAES" SERIES 'B' 121100-00	¾"	⅜"	
VAC-1	WALL OUTLET (DISS KEY STYLE)	"BEACON MEDAES" SERIES 'B' 121103-00	1"	⅜"	
MA-1	WALL OUTLET (DISS KEY STYLE)	"BEACON MEDAES" SERIES 'B' 121102-00	¾"	⅜"	
O2-2	CEILING OUTLET (DISS KEY STYLE)	"BEACON MEDAES" SERIES 'B' 4107 2092 69	¾"	⅜"	
VAC-2	CEILING OUTLET (DISS KEY STYLE)	"BEACON MEDAES" SERIES 'B' 4107 2092 71	1"	⅜"	
MA-2	CEILING OUTLET (DISS KEY STYLE)	"BEACON MEDAES" SERIES 'B' 4107 2092 71	¾"	⅜"	

NOTES:

1. WALL MOUNTED, QUICK CONNECT FRONT ASSEMBLY OUTLET WITH U.S. COLOR CODE. REFER TO DETAIL 2/P6.1 AND ARCHITECTURAL DRAWINGS FOR FINAL MOUNTING LOCATION & HEIGHT.
2. PROVIDE BLANK SLIDE FOR WALL MOUNTED VACUUM BOTTLE RACK.
3. CONTRACTOR SHALL VERIFY AND MATCH FACILITY WALL OUTLET CONNECTION STYLE.
4. REFER TO ARCHITECTURAL PLANS FOR FINAL OUTLET LOCATIONS AND MOUNTING HEIGHTS.

PLUMBING PIPE MATERIAL SCHEDULE

THE FOLLOWING LIST OF PIPE MATERIALS IS SOLELY INTENDED AS A GENERAL OVERVIEW OF SYSTEM TYPES & MATERIAL REQUIREMENTS THEREIN. THE CONTRACTOR SHALL CLOSELY COORDINATE WITH THE CONTRACT DOCUMENTS TO VERIFY ALL PROJECT SPECIFIC SYSTEMS AS WELL AS DIVISION 22 SPECIFICATIONS FOR GENERAL CONDITIONS & CONSTRUCTION REQUIREMENTS.

DESCRIPTION	SYMBOL	LOCATION	SIZE	MATERIAL TYPE	JOINT	INSULATION
DRAIN AND WASTE PIPE. (WASTE , SANITARY WASTE, STORM DRAIN, RAINWATER LEADER & OVERFLOW PIPING)	-	ABOVE GROUND	ALL	NO HUB CAST IRON CONFORMING TO ASTM A888 AND CISPI 301 OR DWV COPPER PIPE AND FITTINGS CONFORMING TO ASTM B306 AND ASME B16.23 AND B16.29	NO HUB PIPE CONFORMING TO ASTM A888 AND CISPI 301. COUPLINGS CONFORMING TO ASTM 1277 AND CISPI 310 WITH STAINLESS STEEL BANDS. HEALTHCARE PROJECTS AND / OR OVER CRITICAL & SENSITIVE AREAS (AS DEFINED BY CMC SECTION 322.0) SHALL MEET THE REQUIREMENTS OF FM1680, SD CLASS 1 AND ASTM C1540 OR DWV COPPER PIPE AND FITTINGS SOLDERED AND CONFORMING TO ASTM B32	WHERE APPLICABLE. SEE NOTES.
SANITARY VENT	V	ABOVE GROUND	2-1/2" AND SMALLER	CAST IRON SOIL PIPE & FITTINGS CONFORMING TO ASTM A888 AND CISPI 301 OR DWV COPPER PIPE AND FITTINGS CONFORMING TO ASTM B306 AND ASME B16.23 AND B16.29	NO HUB COUPLING OR DWV COPPER PIPE AND FITTINGS SOLDERED AND CONFORMING TO ASTM B32	NONE
DOMESTIC WATER PIPE (TEMPERED WATER, TEMPERED WATER RETURN, HOT WATER, HOT WATER RETURN & COLD WATER)	-	ABOVE GROUND	1-1/4" AND SMALLER	ASTM B88, TYPE L COPPER TUBING, HARD-TEMPER WITH WROUGHT COPPER FITTINGS.	LEAD FREE SOLDER	WHERE APPLICABLE. SEE NOTES.
DOMESTIC WATER PIPE (TEMPERED WATER, TEMPERED WATER RETURN, HOT WATER, HOT WATER RETURN & COLD WATER)	-	ABOVE GROUND	1-1/2" AND LARGER	ASTM B88, TYPE L COPPER TUBING, HARD-TEMPER WITH WROUGHT COPPER FITTINGS.	BRAZED	WHERE APPLICABLE. SEE NOTES.
CONDENSATE DRAIN	CD	ABOVE GROUND (INSIDE BUILDINGS)	ALL	ASTM B88, TYPE L COPPER TUBING AND FITTINGS.	BRAZED	WHERE APPLICABLE. SEE NOTES.
CONDENSATE DRAIN	CD	ABOVE GROUND (OUTSIDE BUILDINGS)	ALL	ASTM B88, TYPE L COPPER TUBING AND FITTINGS, CAST IRON DRAIN PIPE & FITTINGS OR SCHEDULE 40 GALVANIZED STEEL PIPE AND CAST IRON DRAIN OR VENT FITTINGS	BRAZED OR LEAD-FREE SOLDER	NONE
MEDICAL GAS (CARBON DIOXIDE, OXYGEN, MEDICAL AIR, HIGH-PRESSURE MEDICAL COMPRESSED AIR, NITROUS OXIDE, NITROGEN & VACUUM)	-	ABOVE GROUND	1 1/4" AND SMALLER	ASTM B819 - TYPE L , SEAMLESS, DRAWN TEMPER, MEDICAL GAS TUBE THAT HAS BEEN FACTORY CLEANED, PURGED AND SEALED FOR OXYGEN SERVICE.	BRAZED	NONE

NOTES

1. TYPE DWV COPPER TUBING OR NO-HUB CAST IRON PIPE AND FITTING MAY BE USED FOR CONCEALED RAINWATER LEADERS. WHERE NO-HUB PIPING IS USED, THE FITTINGS AND COUPLINGS SHALL MATCH THOSE USED FOR WASTE PIPING.
2. ALL DOMESTIC WATER MALE AND FEMALE ADAPTERS OF ANY SIZE SHALL BE SOLDERED IN LIEU OF BRAZING.
3. INSULATION FOR DOMESTIC HOT AND TEMPERED WATER SHALL BE IN COMPLIANCE WITH THE CALIFORNIA ENERGY CODE, SECTION 120.3 AND TABLE 120.3-A FOR HOT WATER PIPING 105-140 F. R-VALUE OF R-7.7 FIBERGLASS WITH ASJ-SSL JACKET FOR PIPING LESS THAN 1" DIAMETER AND R-VALUE OF R-12.5 FIBERGLASS WITH ASJ-SSL JACKET FOR PIPING 1" TO 1.5" DIAMETER.
4. EXPOSED INSULATED PIPING WITHIN THE BUILDING SHALL HAVE A ZESTON 2000 25/50, PROTO LO-SMOKE, OR EQUAL, PVC JACKET AND FITTING COVER INSTALLED OVER THE INSULATION, APPLIED PER MANUFACTURERS INSTRUCTIONS.
5. PROVIDE PVC JACKETING COLOR CODED TO VCO STANDARDS OR PREFERENCES FOR ALL EXPOSED INSULATED LINES IN OCCUPIED SPACES AND IN MECHANICAL ROOMS.
6. PROVIDE LABELING OF ALL INSULATED AND NON-INSULATED PIPING. LABELS TO BE AT 20 FOOT INTERVALS AND A MINIMUM OF ONE PER ROOM. PROVIDE DIRECTIONAL ARROWS OF FLOW AND LABEL ADJACENT TO AND SHUT-OFF VALVE DESCRIBING CONTENT.
7. PIPE, TUBE AND FITTINGS USED IN POTABLE WATER SYSTEMS INTENDED TO SUPPLY DRINKING WATER SHALL MEET THE REQUIREMENTS OF NSF-61, "DRINKING WATER SYSTEMS COMPONENTS - HEALTH EFFECTS"
8. PIPE, PIPE OR PLUMBING FITTINGS, FIXTURES, SOLDER AND FLUX INSTALLED IN A SYSTEM PROVIDING WATER FOR HUMAN CONSUMPTION SHALL COMPLY WITH LEAD FREE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCT SUBMITTAL INFORMATION PROVING COMPLIANCE WITH LEAD FREE REQUIREMENTS.
9. HCAI APPROVED LOKRING TECHNOLOGY CONNECTORS ARE ACCEPTABLE FOR USE WHEN CONNECTING NEW MEDICAL GAS PIPING TO EXISTING UP TO AND INCLUDING 2" PIPE SIZE.

PLUMBING FIXTURE SPECIFICATION & CONNECTION SCHEDULE

TAG	DESCRIPTION & LOCATION	BRANCH PIPING				MAKE & MODEL NO.	REMARKS
		W	V	DCW	DHW		
HWS-1	HANDWASH SINK (CT 2, 1P745 & CT 3, 1P742)	2"	1½"	½"	½"	"AMERICAN STANDARD" MURRO MODEL 0958.908EC	WALL MOUNTED HAND WASH SINK, 21 ½" x 20 ½" VITREOUS CHINA, LESS OVERFLOW WITH ACRYLIC SHROUD, CONCEALED ARM SUPPORT AND FLAT GRID STRAINER. PROVIDE "CHICAGO FAUCET" MODEL 116.103.AB.1 GOOSENECK SENSOR OPERATED FAUCET, 1.0 GPM NON-AERATING LAMINAR FLOW OUTLET, HARD-WIRED POWER SUPPLY (SEE DIVISION 26 FOR POWER). FAUCET SHALL BE PROVIDED WITH "CHICAGO FAUCET", AC POWER SUPPLY TRANSFORMER (120V TO 12 VAC), AND CONNECTING WIRE AND BE PAIRED WITH MODEL 116.589.AB.1 DECK MOUNTED, ADA COMPLIANT 4" WRIST BLADE MANUAL MIXING VALVE AND COVER PLATE.

NOTES:

1. REFER TO DIVISION 22 SPECIFICATIONS FOR ADDITIONAL INFORMATION & ITEMS NOT OTHERWISE SHOWN OR NOTED.
2. PIPE, PIPE OR PLUMBING FITTINGS, FIXTURES, SOLDER AND FLUX INSTALLED IN A SYSTEM PROVIDING WATER FOR HUMAN CONSUMPTION SHALL COMPLY WITH LEAD FREE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY CODE SECTION 116875. PROVIDE PRODUCT SUBMITTAL INFORMATION PROVING COMPLIANCE WITH LEAD FREE REQUIREMENTS.
3. FOR EACH CONNECTION TO FAUCETS, STOPS, HOSE BIBBS, ETC. EACH FIXTURE, EXCEPT HOSE BIBBS, SHALL HAVE A STOP VALVE INSTALLED ON THE WATER SUPPLY LINES TO PERMIT REPAIRS WITHOUT SHUTTING OFF WATER MAINS. PROVIDE ALL WATER SUPPLIES TO FIXTURES WITH COMPRESSION SHUT-OFF STOPS AND INLETS. PROVIDE LOCK SHIELD-LOOSE KEY HANDLE FOR EACH STOP.
4. PROVIDE FIXTURES NOT HAVING INTEGRAL TRAPS WITH P-TRAP OF CHROMIUM-PLATED 17 GAUGE CAST BRASS, WITH 17 GAUGE SEAMLESS WALL RETURN, CONNECTED TO CONCEALED WASTE IN WALL AND SANITARY FITTINGS. PROVIDE IAPMO APPROVAL FOR TRAP, AND PROVIDE LESS TRAP SCREW CLEANOUT.
5. INSULATE ALL EXPOSED WASTE PIPING AND DOMESTIC WATER SUPPLIES BELOW CBC ACCESSIBLE FIXTURES WITH CODE COMPLIANT MOLDED "CLOSED-CELL" VINYL COVERS. COVERS SHALL BE INSTALLED USING VANDAL RESISTANT FASTENERS AND MUST BE REMOVABLE. COVERS SHALL MEET FLAME SPREAD RATING NOT TO EXCEED 25 AND SMOKE DENSITY NOT TO EXCEED 50 WHEN TESTED IN ACCORDANCE WITH ASTM E-84, AND SHALL COMPLY WITH THE REQUIREMENTS OF CALIFORNIA CODE OF REGULATIONS, TITLE 24. "TRUEBRO" - LAV GUARD2 MODEL 103E-Z, "PLUMBEREX" - HANDY SHIELD (OR APPROVED EQUAL).
6. ALL SINKS AND URINALS SHALL BE PROVIDED WITH CLEANOUTS IN COMPLIANCE WITH THE CALIFORNIA PLUMBING CODE.
7. FAUCETS SHALL NOT BE EQUIPPED WITH AN AERATOR BUT MAY BE EQUIPPED WITH A NON-AERATING LAMINAR FLOW DEVICE AS PER HCAI REQUIREMENT AND THE 2022 CALIFORNIA PLUMBING CODE - SECTION 210.0 (c).
8. ALL ELECTRONIC SENSOR OPERATED FAUCETS & FLUSH VALVES SHALL BE CAPABLE OF FUNCTIONING AFTER LOSS OF NORMAL POWER IN COMPLIANCE WITH HCAI REQUIREMENT AND THE 2022 CALIFORNIA PLUMBING CODE - SECTION 210 (b) & 413.2. (REFER TO DIVISION 26 FOR POWER AND CRITICAL BRANCH CIRCUIT)
9. REFER TO ARCHITECTURAL PLANS FOR FINAL LOCATION AND MOUNTING HEIGHT OF CBC ACCESSIBLE FIXTURES.
10. WALL HUNG FIXTURES (UNLESS OTHERWISE NOTED) SHALL BE MOUNTED AT THE HEIGHT INDICATED ON THE ARCHITECTURAL DRAWINGS AND SHALL BE PROVIDED WITH IN-WALL SUPPORT CARRIER WITH THE FEET OF THE SUPPORT SECURELY ANCHORED TO THE FLOOR IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. PROVIDE CAST IRON SUPPORTS OF GRAPHITIC GRAY IRON, DUCTILE IRON OR MALLEABLE IRON. PROVIDE PRODUCT BY ONE OF THE FOLLOWING: "MIFAB", "WATTS", "JAY R. SMITH" AND "ZURN".
    a. LAVATORIES & HANDWASH SINKS: FLOOR MOUNTED, ADJUSTABLE WITH CONCEALED ARM SUPPORTS - "MIFAB", MODEL MC-41-HCAI, (OR APPROVED EQUAL).

    NOTE: PENDING THE REVIEW & APPROVAL OF THE PROJECT ARCHITECT & ENGINEER OF RECORD AND WHERE AN IN-WALL SUPPORT CARRIER ISN'T POSSIBLE A BACKING PLATE, ADJUSTABLE WITH CONCEALED ARM SUPPORTS COMPATIBLE WITH THE SPECIFIED FIXTURE -JAY R. SMITH SERIES 0722 (OR APPROVED EQUAL) MAY BE USED. 1

CONDENSATE LIFT PUMP SCHEDULE

SYMBOL	DESCRIPTION
CP 1	"LITTLE GIANT", MODEL VCCA-20UL DRAIN PUMP WITH OVERFLOW DETECTION SWITCH. SIZED FOR 10 GALLONS PER HOUR (GPH) DISCHARGE AT 18 FT. HEAD AT 8.6 PSI. ⅜" BARBED ¼ TURN RELEASE, TWIST-OFF LOCKING DISCHARGE ADAPTER WITH BUILT-IN CHECK VALVE. UNIT INCLUDES A 6 FT. ELECTRICAL CORD. ELECTRICAL DATA: 115 VOLT, 60 HZ., 1.5 FLA, 93 WATTS TOTAL FULL WEIGHT: 5.4 LBS.

PLUMBING SPECIALTIES

TAG	DESCRIPTION	MANUFACTURER	MODEL NUMBER	REMARKS
WCO	WALL CLEANOUT	MIFAB	C1460-RD	LINE SIZED NO-HUB CAST IRON STACK CLEANOUT WITH RECESSED THREADED PLUG AND ROUND, SMOOTH, STAINLESS STEEL ACCESS COVER WITH 3 1/2" ANCHOR SCREW.

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Ray Sanchez

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PM: SSC Designer / Drafter: AM/MJR

REGISTERED PROFESSIONAL ENGINEER No. M33282 Exp.12/31/25 MECHANICAL STATE OF CALIFORNIA

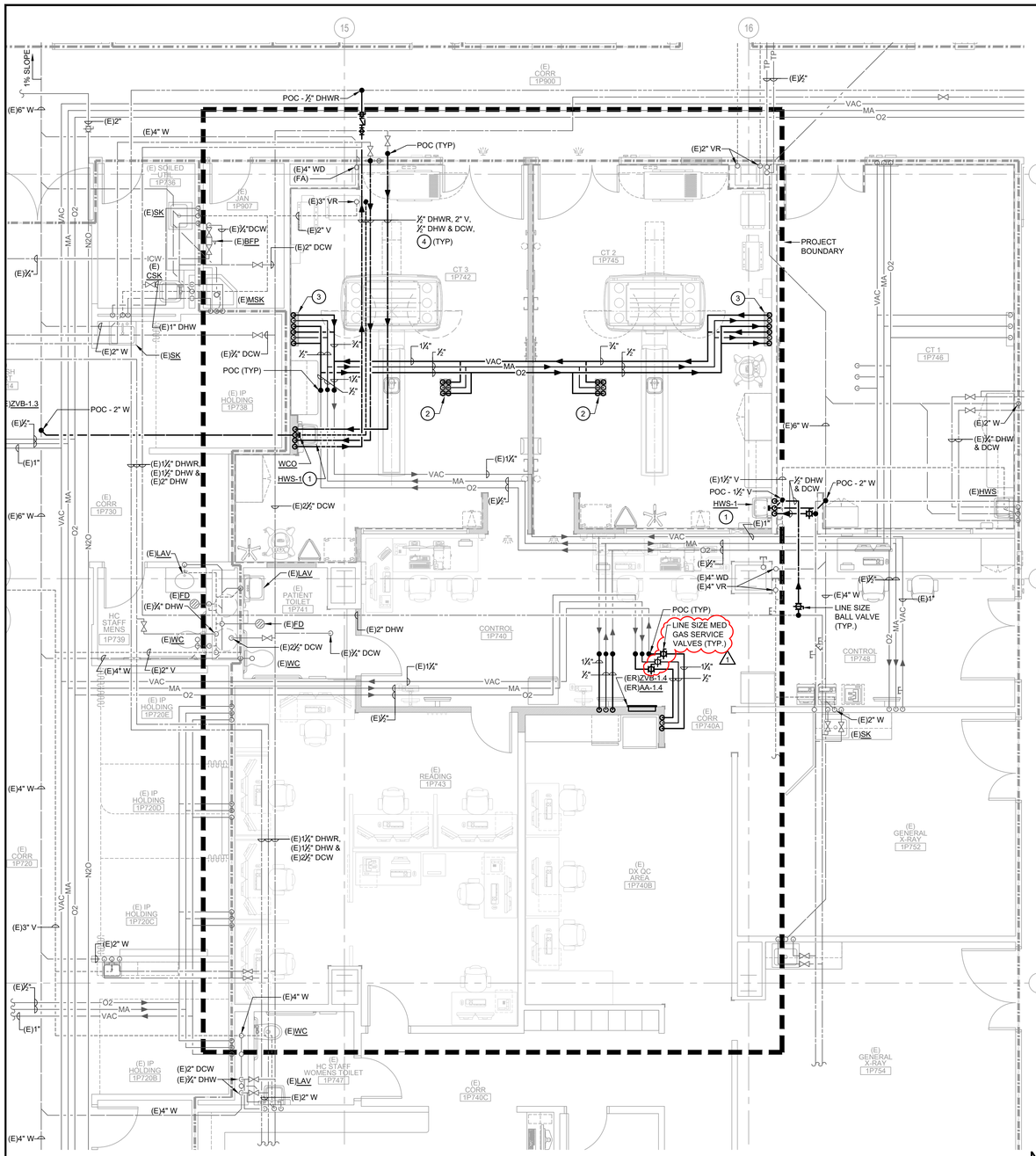
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	BACKCHECK 1	11/1/24

CONSTRUCTION DOCUMENTS

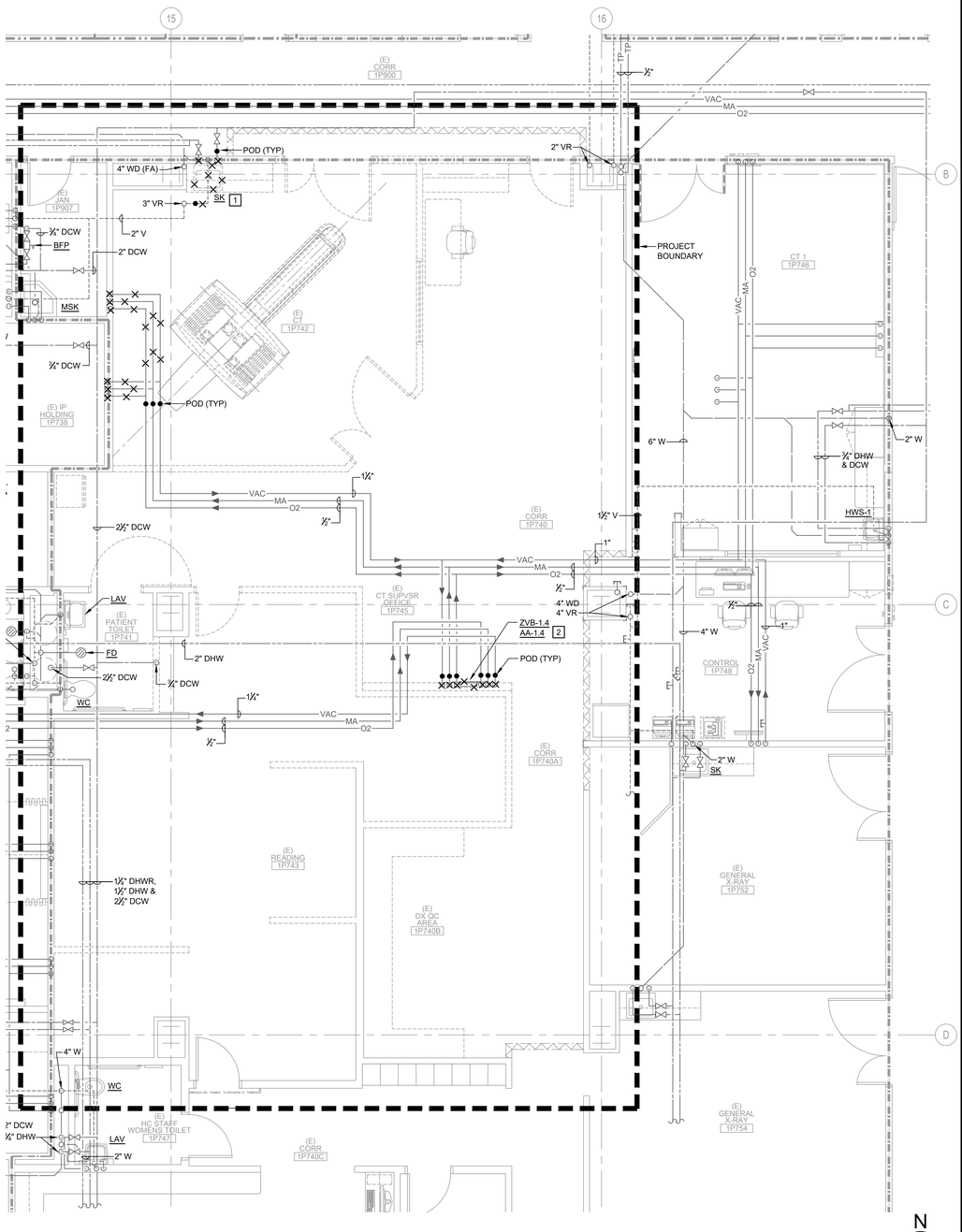
PROJECT NO: 9557740
OSHPH NO:
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PLUMBING SCHEDULES

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath\S. Crosby	9557740	P002
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: SSC	DATE: 08/09/24	
DRAWN BY: MGE/MJR	CAD FILE: -	SHEET: - OF: -



2 ENLARGED FIRST FLOOR PLUMBING NEW WORK PLAN

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



1 ENLARGED FIRST FLOOR PLUMBING DEMOLITION PLAN

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

NEW WORK SHEET NOTES

1. PROVIDE NEW FIXTURE, MOUNTING HARDWARE INCLUDING IN-WALL CARRIER (IF APPLICABLE), PIPE EXTENSIONS AND TRANSITIONS TO ALLOW CONNECTION OF NEW FIXTURES TO EXISTING UTILITIES. PIPING SHALL BE BEHIND FINISHED SURFACES TO ACCOMMODATE NEW FIXTURE INSTALLATION. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO COMMENCING WORK. SEE DETAIL 3/M-601 FOR MOUNTING DETAIL.
2. PROVIDE (2) ¾" VAC, (2) ½" MA & (2) ½" O2 TO CEILING OUTLETS. FOR PIPE SUPPORT DETAILS SEE DETAILS 2 & 3/P-602 (TYP).
3. PROVIDE (2) ¾" VAC, (2) ½" MA & (2) ½" O2 DOWN TO WALL OUTLETS. FOR WALL OUTLET DETAIL SEE 2/P-601.
4. EXTEND PLUMBING UTILITIES TO NEW FIXTURE. FOR PIPE SUPPORT DETAILS - SEE 2 & 3/P-602.

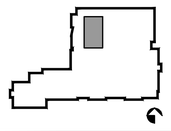
DEMOLITION SHEET NOTES

1. REMOVE PLUMBING FIXTURE AND ALL RELATED SUPPORTS AND MOUNTING HARDWARE INCLUDING IN-WALL CARRIERS (IF APPLICABLE). CUT AND PREPARE PIPING WHERE NEW FIXTURE IS TO BE INSTALLED. WHERE NO NEW FIXTURE IS TO BE INSTALLED. CUT, CAP AND PLUG WASTE & VENT PIPING TO BEYOND FINISHED SURFACES. DEMOLISH DCW, DHW & DHWR NOT BEING RE-USED BACK TO THE NEAREST ACTIVE BRANCH LINE ALONG WITH CONNECTION TEES AND ELIMINATE ALL DEAD-LEGS. REFER TO ARCHITECTURAL PLANS & SPECIFICATIONS FOR DEMOLITION SCOPE OF WORK.
2. EXISTING MED GAS ZONE VALVE BOX AND AREA ALARM PANELS INCLUDING PRESSURE SENSORS SHALL BE REMOVED AND RETAINED FOR RELOCATION AND REINSTALLATION AS PER NEW WORK PLAN. MED GAS LINES SHALL BE PREPARED FOR CONNECTION TO NEW. PRIOR DEMOLITION CONTRACTOR SHALL COORDINATE WITH FACILITY AND MEDICAL AIR CERTIFIER FOR REWORK REQUIRED AND DEVELOP A METHOD OF PROCEDURE (MOP). PRIOR TO ANY SHUTDOWN, CONTRACTOR SHALL ALSO COORDINATE WITH CDPH (CALIFORNIA DEPARTMENT OF PUBLIC HEALTH) AS REQUIRED. FACILITY PERSONNEL SHALL PROCURE TEMPORARY VACUUM CANISTERS AND O2 & MA CYLINDERS AS NEEDED TO FACILITATE REWORK PER (MOP). CONTRACTOR SHALL MINIMIZE ANY SHUTDOWN AND INTERIM CANISTER AND CYLINDER USE WHEREVER POSSIBLE. FOR ADDITIONAL INFO REFER TO NEW WORK PLAN 2/P-511.

WALL LEGEND

- (E) WALL
- (E) LEAD LINED WALL
- (E) 1 HR. FIRE RATED BARRIER
- (E) 1 HR. OCCUPANCY SEPARATION
- (E) 2 HR. FIRE BARRIER
- (E) 2 HR. HORIZONTAL EXIT / SMOKE BARRIER
- (E) PLAN ITEMS TO BE REMOVED
- PARTITION
- 1 HR. FIRE RATED BARRIER
- TEMP. CONSTRUCTION BARRIER

KEYPLAN



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PM: SSC Designer / Drafter: AM/MJR

REGISTERED PROFESSIONAL ENGINEER No. M33282 Exp.12/31/25 MECHANICAL STATE OF CALIFORNIA

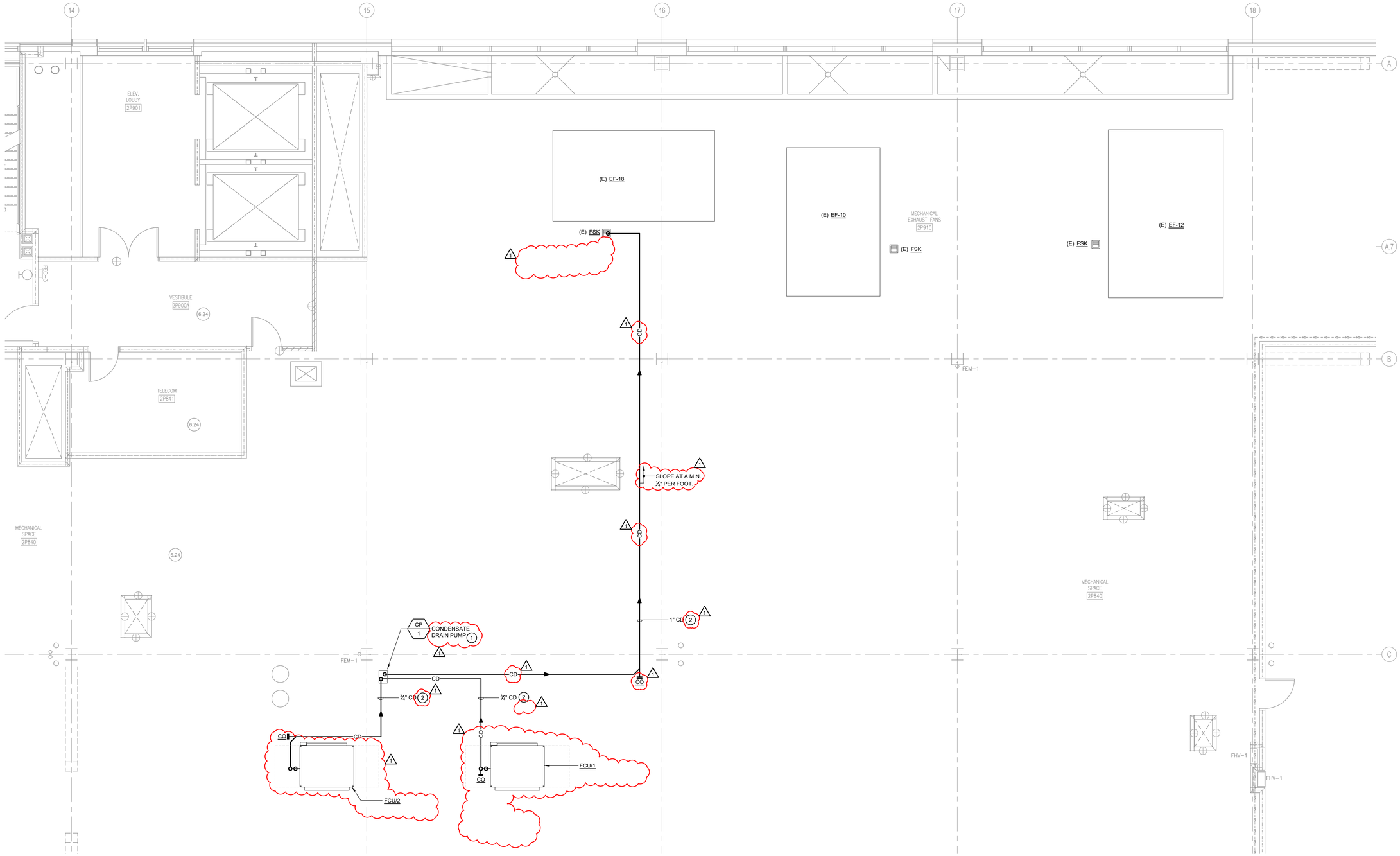
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	BACKCHECK 1	11/1/24

CONSTRUCTION DOCUMENTS

ACCOUNT NO: 9557740
OSHPPH NO:
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: ENLARGED 1ST FLOOR PLUMBING PLANS

ARCH \ ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath\S. Crosby	9557740	P511
UCDMC PROJECT MANAGER	SCALE	
Z. Price	AS SHOWN	
DESIGNED BY	DATE	
SSC	08/09/24	
DRAWN BY	CAD FILE	SHEET / OF
MGE/MJR	-	- / -



1 ENLARGED SECOND FLOOR PLUMBING NEW WORK PLAN

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

GENERAL NOTES

1. HVAC UNITS ARE SHOWN FOR THE COORDINATION OF PLUMBING UTILITIES ONLY. FOR CONTINUATION REFER MECHANICAL PLAN, 1/M512.
2. CONDENSATE DRAIN LINES (CD) SHALL CONNECT TO UNIT WITH A LINE SIZE UNION. MINIMUM 4" DEEP 'P'-TRAP AND A PLUGGED TEE / CLEANOUT (CO) AT ALL OFFSETS.

NEW WORK SHEET NOTES

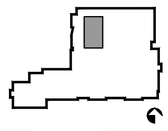
1. CONDENSATE DRAIN LINES (CD) FROM HVAC FAN COIL UNITS (FCU) SHALL ROUTE TO AND TERMINATE AT CONDENSATE DRAIN PUMP; (CP/1). DISCHARGE LINE FROM PUMP SHALL RISE, THEN GRAVITY SLOPE AT A MINIMUM ¼" PER FOOT TO EXISTING FLOOR SINK (FSK) AND TERMINATE WITH A TURNED DOWN ELL WHILE MAINTAINING A MINIMUM 1" AIR GAP.

   CONDENSATE DRAIN PUMP SHALL BE PROVIDED WITH A STAINLESS STEEL PAN AND MOUNTED TO FLOOR. SEE DETAIL 2/P602.
2. FOR PIPE SUPPORT DETAILS SEE 6/P601.

WALL LEGEND

	(E) WALL		(E) PLAN ITEMS TO BE REMOVED
	(E) LEAD LINED WALL		PARTITION
	(E) 1 HR. FIRE RATED BARRIER		1 HR. FIRE RATED BARRIER
	(E) 1 HR. OCCUPANCY SEPARATION		TEMP. CONSTRUCTION BARRIER
	(E) 2 HR. FIRE BARRIER		
	(E) 2 HR. HORIZONTAL EXIT / SMOKE BARRIER		

KEYPLAN



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FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: ENLARGED 2ND FLOOR PLUMBING PLAN

ARCH./ENGR. J. Flath\S. Crosby	FD&C JOB NO. 9557740		SHEET NO. P512
UCDMC PROJECT MANAGER Z. Price	SCALE AS SHOWN		
DESIGNED BY SSC	DATE 08/09/24		
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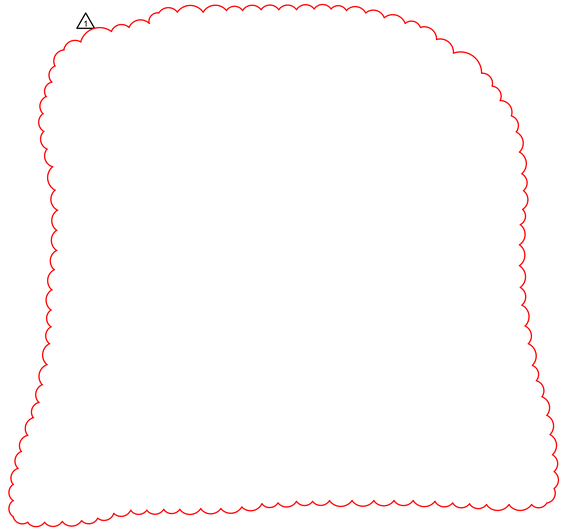
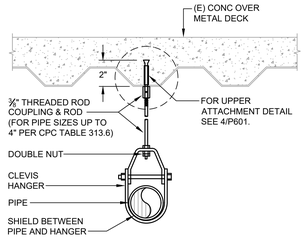




PLUMBING PIPE GRAVITY - (CAST IRON HUBLESS)					
	WASTE/RAINWATER		VENT		
DIAMETER	LB/FT	MAX. SPACING (SEE NOTE 2)	LB/FT	MAX. SPACING (SEE NOTE 2)	SEISMIC REQUIRED
1½"	6.40	-	2.9	-	NO
2"	8.80	-	3.8	-	NO
3"	13.70	-	5.4	-	NO

MEDICAL GASES - COPPER (TYPE L)				
Diameter	LB/FT	MAX. SPACING (FT)	NON-HCAI SEISMIC REQ'D	HCAI SEISMIC REQ'D
½"	0.28	6	NO	NO
¾"	0.45	6	NO	NO
1"	0.65	6	NO	NO

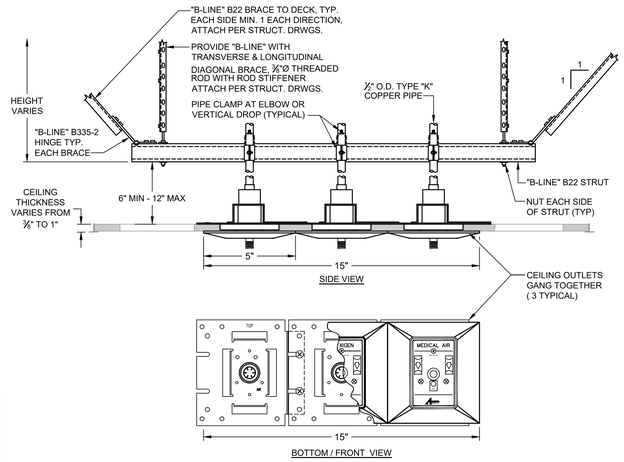
DOMESTIC WATER - COPPER (TYPE L)			
Diameter	LB/FT W/INSUL.	MAX. SPACING (FT)	SEISMIC REQUIRED
½"	.99	6	NO
¾"	1.36	6	NO
1"	1.80	6	NO

NOTES:

1. DETAIL SHOWN IS FOR GRAVITY SUPPORT OF PLUMBING UTILITY PIPING WITH SIZES NOTED, ANCHOR INSTALLATION SHALL COMPLY WITH OPM-0043-13 PAGE M2.20. FOR SEISMIC REQUIREMENTS REFER TO OPM-0043-13. NOTE THAT THERE ARE SPECIFIC EXCEPTIONS WHERE SEISMIC BRACING IS NOT REQUIRED, SUCH AS WHEN PIPE WEIGHT IS LESS THAN 5 LBS/LINEAR FOOT OR WHEN PIPE IS SUPPORTED WITHIN 12" OF STRUCTURE. REFER TO OPM FOR SPECIFIC INSTRUCTIONS. WHERE SEISMIC IS REQUIRED PROVIDE SEISMIC BRACING AND ROD STIFFENERS PER OPM. PIPING WITH NON-HAZARDOUS CONTENT WHICH WEIGH LESS THAN OR EQUAL TO 5 LBS/FT SUCH AS MEDICAL VACUUM OR COMPRESSED AIR ARE EXEMPT FOR SEISMIC DESIGN.
2. ALL SUPPORT SPACING AND BRACING REQUIREMENTS SHALL COMPLY WITH CPC TABLE 313.3.
3. PIPING WITH NON-HAZARDOUS CONTEXTS WHICH WEIGH LESS THAN OR EQUAL TO 5 LBS/FT SUCH AS MEDICAL VACUUM OR COMPRESSED AIR ARE EXEMPT FOR SEISMIC DESIGN.

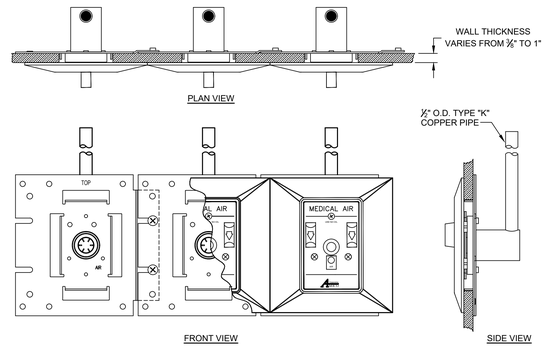
5 NON-SEISMIC PIPE HANGER SUPPORT DETAILS

SCALE: NONE



3 MEDICAL GAS CEILING OUTLET DETAIL

SCALE: NONE

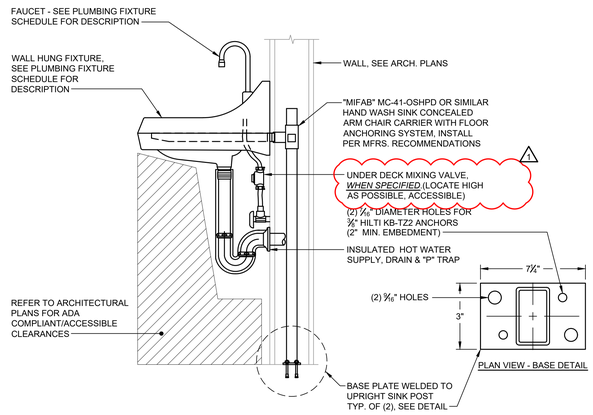


NOTE:

MAXIMUM 3 OUTLETS MAY BE GANGED TOGETHER WITHOUT ADDITIONAL SUPPORT.

2 MEDICAL GAS WALL OUTLET DETAIL

SCALE: NONE

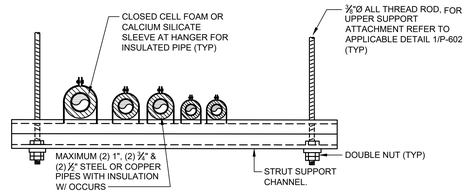


NOTE:

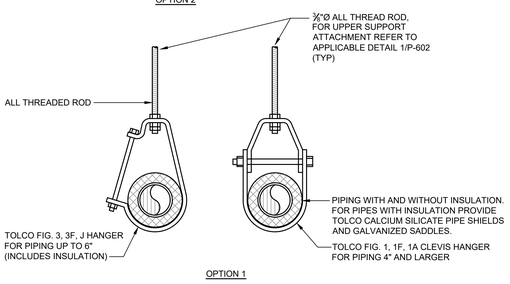
WALL HUNG LAVATORY INSTALLATION TO COMPLY WITH CBC 2022 FIG.11B-306.3. COORDINATE W/ ARCHITECTURAL PLANS.

1 HAND WASH SINK INSTALLATION DETAIL (ADA)

SCALE: NONE



OPTION 2



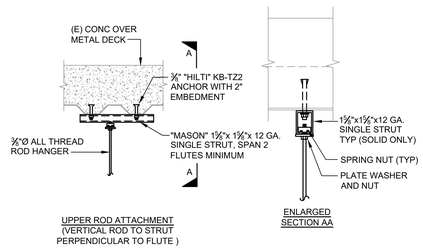
OPTION 1

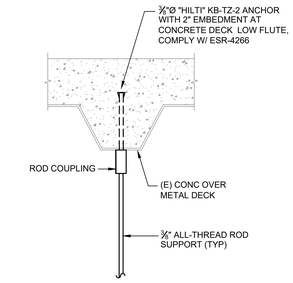
NOTES:

1. DOUBLE NUT ALL HANGERS AT BOTTOM OF HANGER RODS.
2. COORDINATE WITH ELECTRICAL AND CONTROLS CONTRACTOR FOR SUPPORT OF CONDUITS WITHIN TRAPEZE HANGERS. MAX. 100 LBS PER TRAPEZE HANGER [CBC 1617A.1.26].
3. ALL SUPPORT SPACING REQUIREMENTS SHALL COMPLY WITH CMC TABLE 313.3 AND CMC 1109.6 REQUIREMENTS AND PER TABLES IN DETAIL 5/P601.
4. ALL HANGERS MAY BE INSTALLED UP TO 5 DEGREES OUT OF PLUMB.
5. MAX. 50 LBS PER SINGLE HANGER [CBC 1617A.1.26].
6. MAX. HANGER ROD LENGTH SHALL BE 5'-0" (TYP). ROD HANGERS LENGTHS USED SHALL BE INSTALLED TO AVOID IMPACT WITH OTHER STRUCTURAL OR NONSTRUCTURAL COMPONENTS OR PRECAUTIONS SHALL BE MADE TO PROTECT PIPING IN EVENT OF SUCH IMPACT. [CBC 1617A.1.26 A.]

6 NON-SEISMIC PIPE HANGER SUPPORT DETAILS

SCALE: NONE





NOTES:

1. 124 LBS. MAX LOAD PER SUPPORT LOCATION.
2. INSTALLATION, INSPECTION AND TESTING OF POST-INSTALLED ANCHORS SHALL BE PER STRUCTURAL REQUIREMENTS, SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
3. MIN. SPACING FROM ANY OTHER ADJACENT HANGER, SPLAY OR SUPPORT ROD SHALL BE 12".

4 VERTICAL UPPER ATTACHMENT DETAIL

SCALE: NONE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

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R&A Job Number: NJA14323
PM: SSC Designer / Drafter: AM/MJR

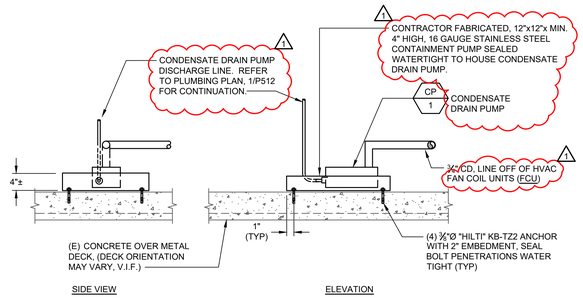
CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	BACKCHECK 1	11/1/24

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740 (OSHPH NO.)
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PLUMBING DETAILS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath\S. Crosby	9557740	P601
UCDMC PROJECT MANAGER	SCALE	
Z. Price	AS SHOWN	
DESIGNED BY	DATE	
SSC	08/09/24	
DRAWN BY	CAD FILE	SHEET / OF
MGE/MJR	-	- / -



2 CONDENSATE LIFT PUMP MOUNTING DETAIL
SCALE: NONE

FIRE-STOP / MEMBRANE PENETRATION DETAILS GENERAL NOTE

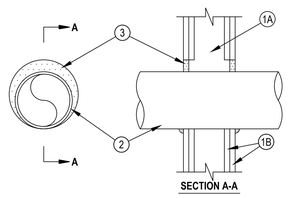
WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS ARE FOR REFERENCE ONLY. THROUGH-PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR OSHPD REVIEW AND APPROVAL PRIOR TO INSTALLATION.

WL 1054

System No. W-L-1054

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft



1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. October 14, 2015

WL 1054

System No. W-L-1054

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

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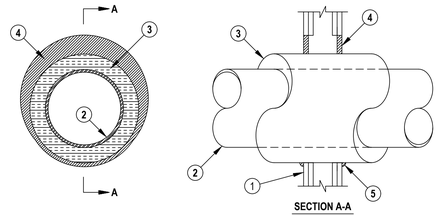
WL 5029

System No. W-L-5029

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)	F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)
T Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)	FT Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
L Rating At Ambient — 4 CFM/Sq Ft	FH Ratings — 1, 2 and 3 Hr (See Items 1, 2 and 4)
L Rating At 400 F — Less Than 1 CFM/Sq Ft	FTH Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
	L Rating At Ambient — 4 CFM/Sq Ft
	L Rating At 400 F — Less Than 1 CFM/Sq Ft



1. Wall Assembly — The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm). The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).
   D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).

Hilti Firestop Systems

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WL 5029

System No. W-L-5029

3. Pipe Covering* — Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).
   See Pipe and Equipment Covering — Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
   The hourly T, FT, FTH Ratings of the firestop system are 1/2 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1 hr. For 3 hr rated walls, the hourly T, FT and FTH Ratings when copper penetrants are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).
3A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Rating shall be as specified in item 3 above.
   See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

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1 METAL PIPE PENTRATION DETAIL OPTIONS THROUGH GYSUM WALL ASSEMBLY - 2HR RATED WALL
SCALE: NONE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

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LICENSED ARCHITECT JOHN M FLATH No. C-21560 REN. 12-31-25 STATE OF CALIFORNIA

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R&A Job Number: NJA14323
PM: SSC Designer / Drafter: AM/MJR

REGISTERED PROFESSIONAL ENGINEER Steven S. Crosby No. M33282 Exp.12/31/25 MECHANICAL STATE OF CALIFORNIA

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE
1	BACKCHECK 1	11/1/24

CONSTRUCTION DOCUMENTS

ACCOUNT NO: 9557740
OSHPH NO:
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PLUMBING DETAILS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath\S. Crosby	9557740	P602	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	AS SHOWN		
DESIGNED BY	DATE		
SSC	08/09/24		
DRAWN BY	CAD FILE	SHEET	OF
MGE/MJR	-	-	-

FIRE ALARM NOTES

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF CALIFORNIA ELECTRICAL CODE AND SECTION 907 OF THE CALIFORNIA BUILDING CODE TITLE 24 PART 2.
2. THESE DRAWINGS CONSTITUTE A "DEFERRED APPROVAL SUBMITTAL."
3. THE LOCATION OF THE AUTOMATIC FIRE ALARM SYSTEM DETECTORS, MANUAL STATIONS, AUDIBLE DEVICES AND RELATED EQUIPMENT AS SHOWN ON PLANS ARE ONLY FOR REFERENCE AND DO NOT CONSTITUTE SHOP DRAWINGS WHICH ARE REQUIRED FOR REVIEW AND APPROVAL.
4. FIRE PROTECTIVE SIGNALING EQUIPMENT: INSTALLATION OF FIRE PROTECTIVE SIGNALING SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING STATE OF CALIFORNIA FIRE MARSHAL LISTING NUMBER FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN TO AND REVIEWED BY THE ARCHITECT/ENGINEER. UPON RECEIPT OF REVIEWED SUBMITTALS FROM THE ARCHITECT/ENGINEER, THE ELECTRICAL TRADE SHALL SUBMIT TO AND OBTAIN WRITTEN APPROVAL OF FIRE ALARM SYSTEM AND COMPONENTS FROM THE FIRE MARSHAL.
5. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING FIRE AGENCY.
6. CONTRACTOR SHALL INSTALL A COMPLETE ADDITION TO THE EXISTING BUILDING FIRE ALARM SYSTEM, INCLUDING ALL NECESSARY EQUIPMENT, RACEWAYS AND WIRING IN COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS. ALL WIRING SHALL BE INSTALLED IN DEDICATED FIRE ALARM CONDUITS AND BOXES.
7. SMOKE DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL, EXCEPT WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR PROTECTION DURING CONSTRUCTION.

LIGHTING CONTROLS SYMBOLS

SYMBOL	DESCRIPTION
S	EXISTING SINGLE POLE TOGGLE SWITCH.
D	WIRELESS LINE POWERED, 0-10V DIMMING CONTROL W/ ON/OFF SWITCH. WALL MOUNTED. nLIGHT AIR SWITCH #rPODLA DX RD G2
D	WIRELESS LINE POWERED, 0-10V DIMMING CONTROL W/ ON/OFF SWITCH. WALL MOUNTED. nLIGHT AIR SWITCH #rPODLA DX WH G2
OS	AUTOMATIC "ON/OFF" CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. nLIGHT #nCM PDT 9

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION
FSD	FIRE/SMOKE DAMPER, N.I.E.S. DIVISION 26 CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH WITH INTERNAL PILOT LIGHT AND CONNECT AS REQUIRED TO FIRE/SMOKE DAMPER.
S	FIRE ALARM PHOTO ELECTRIC SMOKE DETECTOR.
	FIRE ALARM WALL MOUNTED STROBE LIGHT. PROVIDE 4 11/16" SQUARE X 2 1/2" DEEP BOX W/ 1-DEVICE RING AND PLATE. STUB 1" CONDUIT INTO ACCESSIBLE CEILING SPACE.

POWER DISTRIBUTION SYMBOLS

SYMBOL	DESCRIPTION
$ XXA	1-POLE 1-PHASE MOTOR RATED DISCONNECT SWITCH. AMPERAGE ADJACENT INDICATES AMPERE RATING OF SWITCH. SWITCH SHALL BE RATED 600V MAXIMUM FOR ALL SYSTEMS. MOUNT AT +48" AFF TO TOP OF BOX.
	BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED.
XXA/XP/XXT	RECESSED THERMAL MAGNETIC CIRCUIT BREAKER W/ FLUSH MOUNTED WALL ENCLOSURE. NUMBER ADJACENT INDICATES AMPERE RATING OF ENCLOSURE / POLES / BREAKER RATING.

STANDARD ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
- -	EQUIPMENT DESIGNATION.
XX	NUMBERED NOTE.
- -	ENLARGED PLAN OR DETAIL CALL-OUT.
T	TRANSFORMER.
	CIRCUIT BREAKER.

RACEWAY SYMBOLS

SYMBOL	DESCRIPTION
	RACEWAY INSTALLED IN CEILING OR WALL. ROUTE EXPOSED IN ALL UNFINISHED AREAS.
	RACEWAY INSTALLED BELOW FINISHED FLOOR OR GRADE.
X	EXISTING CONDUIT RUN TO BE ABANDONED. CONDUIT ABOVE THE FLOOR AND BELOW THE STRUCTURE ABOVE SHALL BE REMOVED. CONDUCTORS SHALL BE REMOVED.
	EXISTING CONDUIT RUN, VERIFY ROUTING ON THE JOB.
	REMOVE (E) WIRE, PULL IN NEW WIRES, #12 AWG UNLESS NOTED.
	BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION INDICATES A 2 #12 AWG CIRCUIT WITH 1 #12 AWG GROUND.
	STRAIGHT CROSS-LINES IN BRANCH CIRCUIT RACEWAY INDICATE NUMBER OF #12 AWG WIRES IN A CIRCUIT. SHORT LINES INDICATE UNGROUNDED CONDUCTORS. LONG LINES INDICATE NEUTRAL CONDUCTORS. WIRES SHOWN ARE IN ADDITION TO 1 #12 AWG GROUNDING CONDUCTOR.
#10	BRANCH CIRCUIT WITH GROUNDING WIRE LARGER THAN #12 AWG. NUMBER ADJACENT TO CURVED CROSS-LINE INDICATES WIRE SIZE.
#10	BRANCH CIRCUIT RACEWAY WITH WIRE OTHER THAN #12 AWG. NUMBER ADJACENT TO STRAIGHT OR CURVED CROSS-LINES INDICATES WIRE SIZE. UNGROUNDED AND NEUTRAL CONDUCTORS SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.
	FLEX CONDUIT.

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION
	RECESSED MOUNTED LUMINAIRE.
	RECESSED DOWNLIGHT LUMINAIRE.
	WALL MOUNTED LUMINAIRE.
	CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN W/ DIRECTIONAL ARROWS NOTED ON PLANS. WORD 'EXIT' TO BE LOCATED IN SHADED FACE(S)
	LUMINAIRE SHADING INDICATES LUMINAIRE CONNECTED TO EMERGENCY OR BATTERY POWER SOURCE.
W	WARNING LIGHT. PROVIDE 4 11/16" SQUARE X 2 1/8" DEEP BOX W/ 1-DEVICE RING AND PLATE. FOR WALL MOUNTED DEVICES, STUB 1" CONDUIT INTO ACCESSIBLE CEILING SPACE.

WIRING DEVICE SYMBOLS

SYMBOL	DESCRIPTION
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE. CONNECT TO EMERGENCY POWER SOURCE.
	20 AMP 125V 3W DOUBLE DUPLEX CONVENIENCE RECEPTACLE.
	20 AMP 125V 3W DOUBLE DUPLEX CONVENIENCE RECEPTACLE. CONNECT TO EMERGENCY POWER SOURCE.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE W/ GROUND FAULT INTERRUPTER.
	20 AMP 125V 3W DUPLEX CONVENIENCE RECEPTACLE W/ GROUND FAULT INTERRUPTER. CONNECT TO EMERGENCY POWER SOURCE.
J	JUNCTION BOX, SIZE AND TYPE AS INDICATED OR REQUIRED.
XXA/XP/XXF	FUSED DISCONNECT SWITCH W/ CLASS 'R' DUAL ELEMENT FUSES, SIZED PER EQUIPMENT NAME PLATE RATING. NUMBER ADJACENT INDICATES AMPERE RATING OF SWITCH / POLES / FUSE RATING. REFER TO PLANS FOR ACTUAL RATINGS. FUSE SIZE INDICATED ON PLANS IS USED AS THE BASIS OF DESIGN. FINAL FUSE SIZE INSTALLED SHALL BE CONFIRMED ON THE FIELD AGAINST EQUIPMENT NAMEPLATE RATING. MOUNT AT +48" AFF TO TOP OF DISCONNECT.
XXA/XP/XXT	ENCLOSED THERMAL MAGNETIC CIRCUIT BREAKER DISCONNECT. NUMBER ADJACENT INDICATES AMPERE RATING OF SWITCH / POLES / TRIP RATING. REFER TO PLANS FOR ACTUAL RATINGS. MOUNT AT +48" AFF TO TOP OF DISCONNECT.
E	EMERGENCY POWER OFF. PROVIDE 4 11/16" SQUARE X 2 1/8" DEEP BOX W/ 1-DEVICE RING AND PLATE. MOUNT AT +44" AFF TO TOP OF BOX. STI #SS2039PO-EN OR #SS2079PO-EN
SUBSCRIPTS: c	DEVICE SUBSCRIPTS DESIGNATE THE FOLLOWING: = ABOVE COUNTER MOUNTED AT +42" TO CENTER OF BOX
P	PUSH PLATE, PROVIDED UNDER ANOTHER DIVISION, MOUNTED +42" AFF TO CENTER OF BOX, CONNECT TO AUTO DOOR OPERATOR AS REQUIRED. PROVIDE 5" SQUARE X 2 7/8" DEEP BOX W/ 1-DEVICE RING AND PLATE. STUB 1 1/4" CONDUIT WITH 90 DEGREE BEND INTO ACCESSIBLE CEILING SPACE, TERMINATE W/ INSULATING BUSHING.

ABBREVIATIONS

1PH, 3PH	1 PHASE, 3 PHASE
1P, 2P, 3P	1 POLE, 2 POLE, 3 POLE
3W, 4W	3 WIRE, 4 WIRE
(D)	DEMO, DEMOLISH
(E)	EXISTING
(ER)	EXISTING RELOCATED
(N)	NEW
(R)	RELOCATE
-A-	
A, AMPS	AMPERES
AC	ALTERNATING CURRENT
AF	FRAME RATING IN AMPERES
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AL, ALUM	ALUMINUM
ATS	AUTO TRANSFER SWITCH
AT	TRIP RATING IN AMPERES
AWG	AMERICAN WIRE GAUGE
-B-	
BTR	BUILDING TELECOM ROOM
-C-	
C	CONDUIT
CB,C/B	CIRCUIT BREAKER
CEC	CALIFORNIA ELECTRICAL CODE
CT	CURRENT TRANSFORMER
CU	COPPER
-D-	
DC	DIRECT CURRENT
-E-	
EA	EACH
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
-F-	
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FLA	FULL LOAD AMPS
FT	FOOT OR FEET
-G-	
G, GND	GROUND
GA	GAUGE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
-H-	
HOA	HAND-OFF-AUTO
HP	HORSE POWER
-J-	
J-BOX	JUNCTION BOX
-K-	
KVA	ONE THOUSAND VOLT-AMPS
KW	ONE THOUSAND WATTS
-L-	
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
-M-	
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MT	EMPTY CONDUIT W/ PULL-LINE
-N-	
NC	NORMALLY CLOSED
NCTC	NURSE CALL TERMINAL CABINET
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
NIES	NOT INCLUDED IN ELECTRICAL SCOPE
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
-O-	
OCP	OVER-CURRENT PROTECTION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
-P-	
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE CONDUIT
-R-	
RLA	RUNNING LOAD AMP
RSC	RIGID STEEL CONDUIT
-S-	
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SST	SOLID STATE TRIP
-T-	
TER	TELECOM EQUIPMENT ROOM
TR	TELECOM ROOM
TM	THERMAL MAGNETIC
TTB	TERMINAL BACKBOARD
-U-	
UG	UNDERGROUND
UL	UNDERWRITERS LAB.
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
-V-	
V	VOLTS
VA	VOLT-AMPS
VAC	VOLTS ALTERNATE CURRENT
-W-	
W	WATTS
WCR	WITHSTAND & CLOSING RATING
WP	WEATHERPROOF
-X-	
XFMR	TRANSFORMER
XFER	TRANSFER SWITCH

GENERAL ELECTRICAL NOTES

1. WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS SHOWN IN THE DETAILS ARE FOR REFERENCE ONLY. THROUGH- PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR HCAI FLSO REVIEW AND APPROVAL PRIOR TO INSTALLATION.
2. ALL ELECTRICAL EQUIPMENT TO BE INSTALLED OR PERMANENTLY CONNECTED (HARDWIRED) SHALL BE LISTED, LABELED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) PER CEC 110.2.
3. ALL EQUIPMENT SHALL BE USED IN ACCORDANCE WITH LISTING PER CEC 110.3B.

SHEET INDEX

SHEET	DESCRIPTION
E0.01	ABBREVIATIONS, SYMBOLS, SCHEDULE, & SHEET INDEX
E1.01	OVERALL FIRST FLOOR PLAN - ELECTRICAL
E2.01	ENLARGED FIRST FLOOR PLAN - DEMO & NEW POWER
E2.02	ENLARGED FIRST FLOOR PLAN - DEMO & NEW LIGHTING
E2.03	ENLARGED SECOND FLOOR PLAN - NEW POWER
E3.01	(E) PARTIAL ONE LINE DIAGRAM
E4.01	PANEL SCHEDULES & PANEL LOAD SUMMARY
E4.02	PANEL SCHEDULES & COORDINATION STUDY
E5.01	GE VENDOR DRAWINGS
E5.02	GE VENDOR DRAWINGS
E6.01	PDC LIGHTING VENDOR DRAWINGS - CT ROOM #2
E6.02	PDC LIGHTING VENDOR DRAWINGS - CT ROOM #3
E6.03	PDC LIGHTING VENDOR DRAWINGS - DETAILS
E6.04	PDC LIGHTING VENDOR DRAWINGS - DETAILS
E7.01	DETAILS
E7.02	DETAILS
E7.03	DETAILS
E7.04	DETAILS
E7.05	DETAILS
E7.06	DETAILS
E7.07	DETAILS

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER/CATALOG	DESCRIPTION	MOUNTING	TYPE	VOLTS	WATTS	REMARKS
A	LITHONIA LIGHTING 2BLT4 40L ADSMT EZ1 LP835 NLTAIR2 RES7PDT	2X4 LED TROFFER; 4,000 LUMENS; 80 CRI; 3500K CCT	RECESSED	LED	UNV	32	
B5	MARK ARCHITECTURAL LIGHTING SL6L LOP 5FT RLP FL 80CRI 35K 400LMF MIN1 277 NLTAIR2 PDT	5' SLOT 6 LED LINEAR; 400 LUMENS; 80 CRI; 3500K CCT	RECESSED	LED	277	20	
C	LITHONIA LIGHTING 2BLT2 20L ADSMT EZ1 LP835 NLTAIR2 RES7PDT	2X2 LED TROFFER; 2,000 LUMENS; 80 CRI; 3500K CCT	RECESSED	LED	UNV	16	

MECHANICAL SCHEDULE

DESCRIPTION	VOLTAGE/PHASE	EQUIPMENT	WATTS	MOCP	FLA	REMARKS
FCU-1	120/1	CHILLED WATER FAN COIL	-	-	25.6	
FCU-2	120/1	CHILLED WATER FAN COIL	-	-	25.6	
CP-1	120/1	CONDENSATE LIFT PUMP	93	-	1.5	UNIT INCLUDES 6 FT. ELECTRICAL CORD

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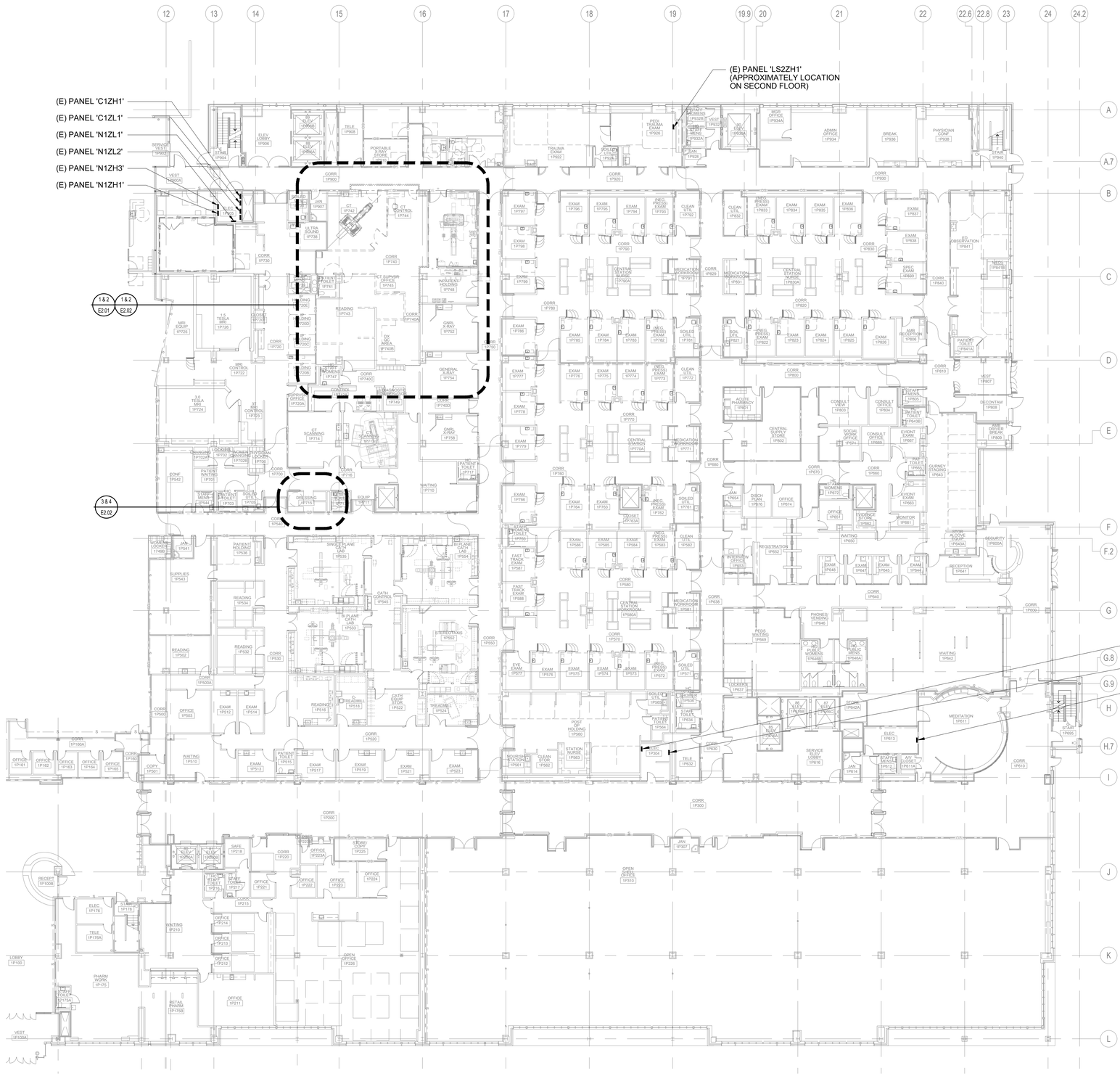
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PROJECT NO: 9557740
DSH# NO: S241219-34-00
BLD/DNC: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: ABBREVIATIONS, SYMBOLS, SCHEDULE, & SHEET INDEX

ARCH.\ENGR. J. Flath	FD&C JOB NO. -	SHEET NO. E0.01	
UCDMC PROJECT MANAGER Z. Price	SCALE AS SHOWN		
DESIGNED BY J. Luong	DATE -		
DRAWN BY J. Luong	CAD FILE -	SHEET	OF



1 OVERALL FIRST FLOOR PLAN - ELECTRICAL
1/16" = 1'-0"

NORTH

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SHEET TITLE: OVERALL FIRST FLOOR PLAN - ELECTRICAL

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	-	E1.01	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	AS SHOWN		
DESIGNED BY	DATE		
J. Luong	-		
DRAWN BY	CAD FILE	SHEET	OF
J. Luong	-		

NUMBERED NOTES

21. PULL IN (2) NEW NEUTRAL CONDUCTORS IN (E) 3/4" CONDUIT AS INDICATED.

NUMBERED NOTES

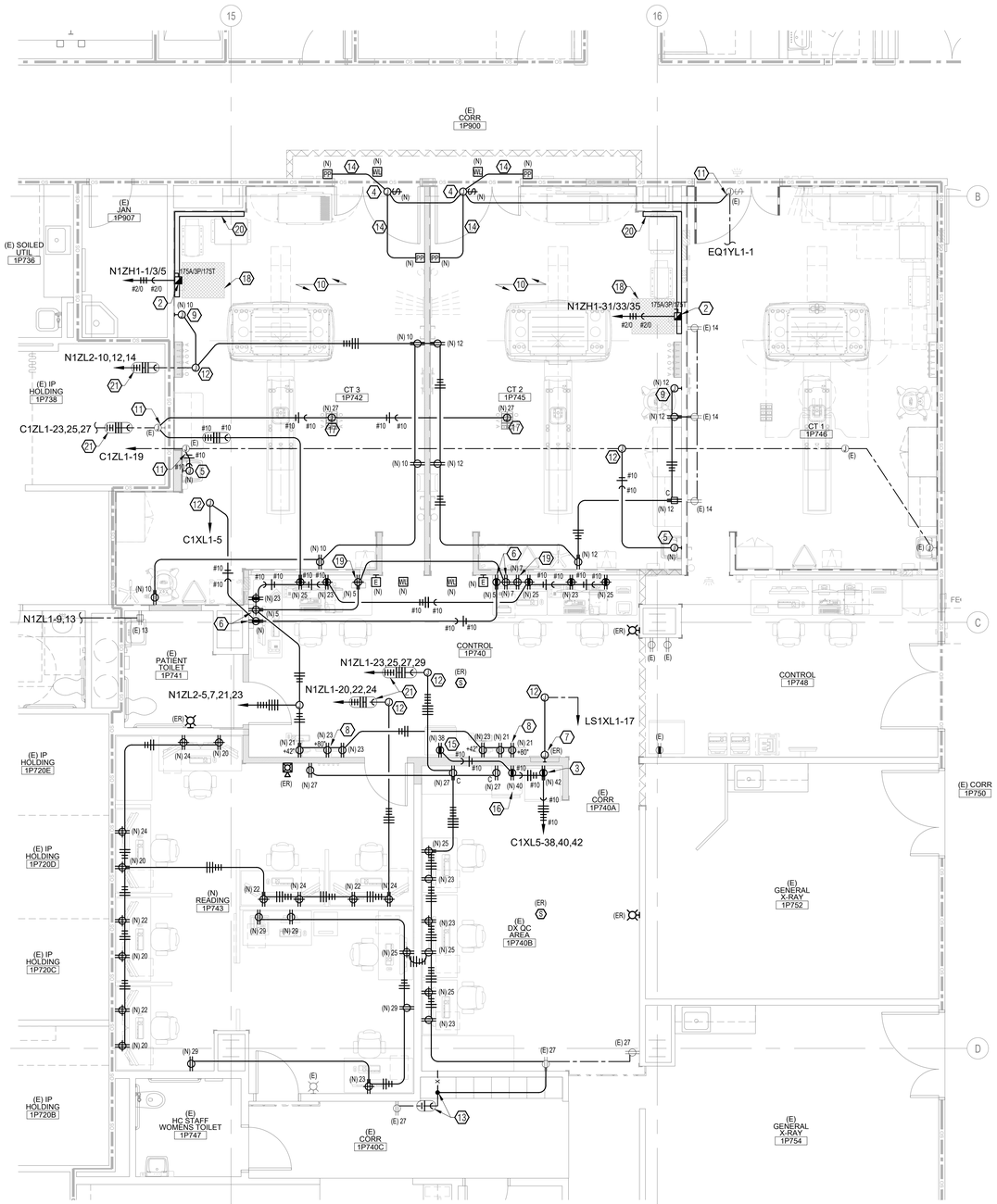
11. EXTEND (E) CIRCUIT TO (N) DEVICES AS INDICATED.
12. PROVIDE (N) J-BOX TO INTERCEPT AND EXTEND (E) CIRCUIT TO (N) DEVICE AS INDICATED.
13. INTERCEPT AND EXTEND (E) CONDUIT AS REQUIRED. PULL IN (N) CONDUCTORS AS INDICATED.
14. PROVIDE 1" MT FOR AUTO DOOR CONTROL WIRING. COORDINATE WITH AUTO DOOR MANUFACTURER REQUIREMENT.
15. PYXIS, 120V, 3 AMP.
16. UNDER COUNTER REFRIGERATOR, 120V, 966 WATTS.
17. J-BOX ABOVE CEILING SPACE FOR MEDICAL GAS SYSTEM HOSE REEL. COORDINATE WITH VENDOR FOR MOUNTING REQUIREMENT.
18. HATCHED AREA INDICATED WORKING CLEARANCE.
19. RECEPTACLE FOR PDC EQUIPMENT 'PAD'. REFER TO PDC LIGHTING VENDOR DRAWING FOR ADDITIONAL INFORMATION.
20. (N) 10"X3.5" SURFACE WALL DUCT WITH MINIMUM 2 DIVIDERS. REFER TO GE VENDOR DRAWING FOR MORE INFORMATION.

NUMBERED NOTES

1. (E) 125A/3P BREAKER DISCONNECT SHALL BE REMOVED.
2. (N) 175A/3P BREAKER DISCONNECT SHALL BE PROVIDED. REFER TO GE VENDOR DRAWING FOR ADDITIONAL INFORMATION.
3. (N) WARMING CABINET, 120V, 7.0 AMP.
4. AUTO DOOR OPERATOR, 120V. 2.5 AMP. CONNECT TO (E) FIRE ALARM SYSTEM AS REQUIRED TO DE-ENERGIZE POWER DURING FIRE ALARM EVENT.
5. SINK SENSOR, 120V, 50 WATT.
6. RECEPTACLE FOR PDC EQUIPMENT 'LCR'. REFER TO PDC LIGHTING VENDOR DRAWING FOR ADDITIONAL INFORMATION. MOUNT AT +82" AFF.
7. (ER) MED GAS ALARM PANEL. COORDINATE LOCATION WITH MECHANICAL DRAWINGS.
8. SLAVE MONITOR, 120V, 50 WATTS.
9. ENERGY MONITORING SYSTEM. COORDINATE WITH FACILITY FOR MORE INFORMATION AND LOCATION.
10. REFER TO GE VENDOR DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS FOR CT SCAN EQUIPMENT CONDUITS.

SHEET NOTES

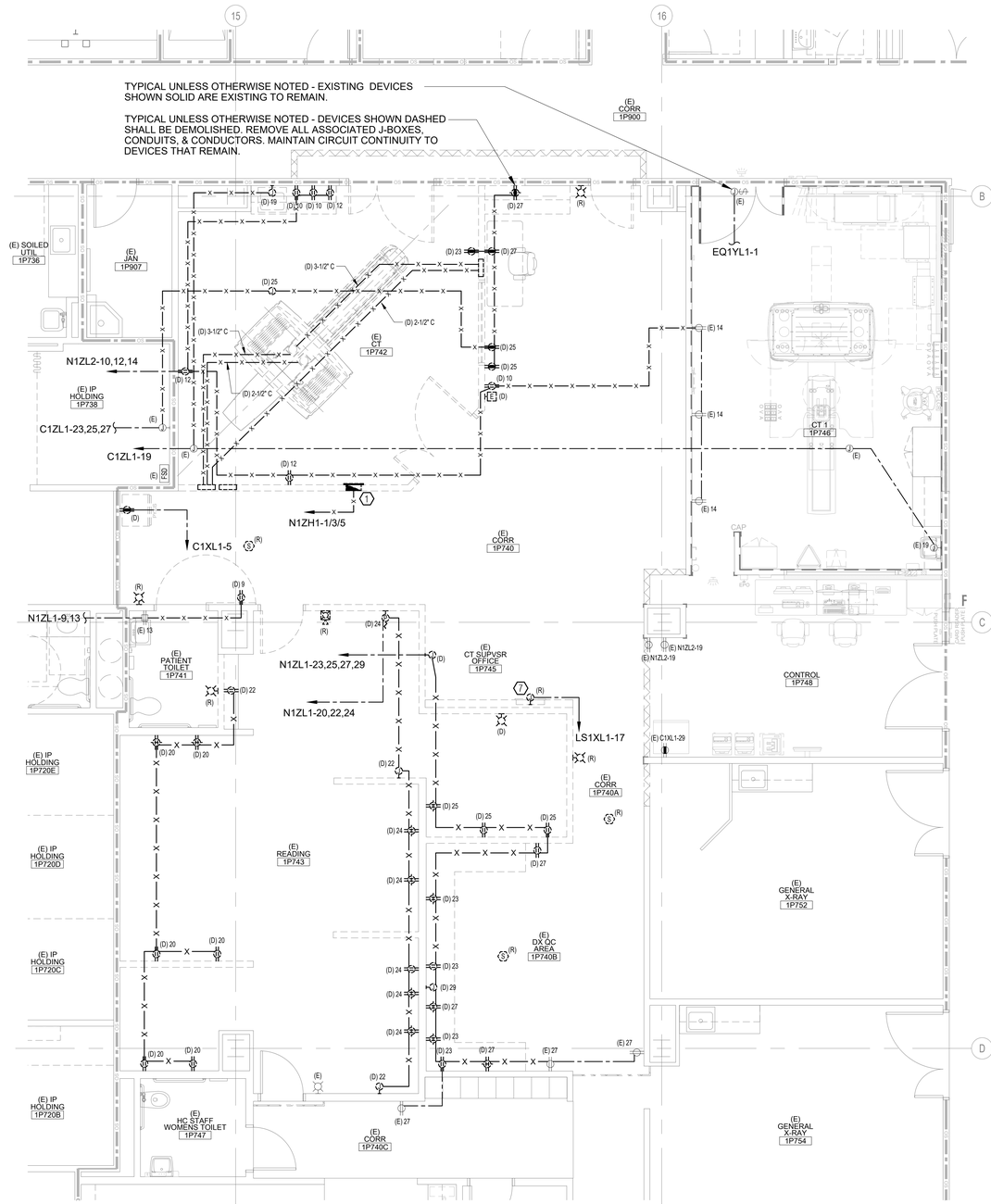
1. SEE OVERALL FLOOR PLAN(S) FOR (E) PANEL LOCATION(S).
2. DIMENSIONS INDICATED ON PLANS ARE TO THE CENTER OF THE BOX, ABOVE FINISHED FLOOR. COORDINATE FINAL MOUNTING HEIGHT WITH THE ARCHITECTURAL DRAWINGS.
3. LOCATIONS AND MOUNTING HEIGHTS OF WALL MOUNTED WIRING DEVICES SUCH AS POWER RECEPTACLES, DATA OUTLETS, SWITCHES, DIMMERS, ETC., ARE TO BE ULTIMATELY COORDINATED W/ ARCHITECTURAL DRAWINGS.
4. ALL FIRE ALARM DEVICES (NEW AND EXISTING RELOCATED) SHALL CONNECTS TO EXISTING FIRE ALARM SYSTEM AS REQUIRED.



2 ENLARGED FIRST FLOOR PLAN - NEW POWER
1/4" = 1'-0"

TYPICAL UNLESS OTHERWISE NOTED - EXISTING DEVICES SHOWN SOLID ARE EXISTING TO REMAIN.

TYPICAL UNLESS OTHERWISE NOTED - DEVICES SHOWN DASHED SHALL BE DEMOLISHED. REMOVE ALL ASSOCIATED J-BOXES, CONDUITS, & CONDUCTORS. MAINTAIN CIRCUIT CONTINUITY TO DEVICES THAT REMAIN.



1 ENLARGED FIRST FLOOR PLAN - DEMO POWER
1/4" = 1'-0"

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08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPD NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: ENLARGED FIRST FLOOR PLAN - DEMO & NEW POWER

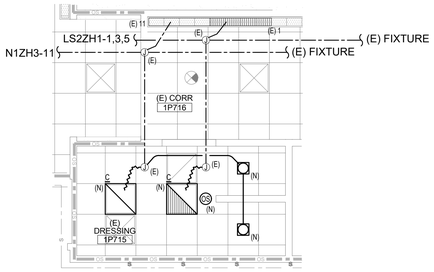
ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	E2.01
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: J. Luong	DATE: -	
DRAWN BY: J. Luong	CAD FILE: -	SHEET / OF

NUMBERED NOTES

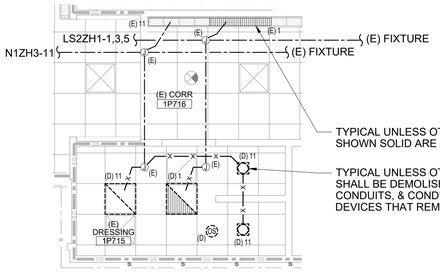
1. (E) LIGHTING CONTROL SHALL RECONNECT TO (E) LUMINAIRE AS REQUIRED.
2. REFER TO PDC LIGHTING VENDOR DRAWINGS FOR MORE INFORMATION AND WIRING REQUIREMENT FOR CT ROOM.
3. EXTEND (E) CIRCUIT TO (N) DEVICES AS INDICATED.
4. (N) J-BOX TO INTERCEPT AND EXTEND (E) CIRCUIT TO (N) DEVICE AS INDICATED.

SHEET NOTES

1. SEE OVERALL FLOOR PLAN(S) FOR (E) PANEL LOCATION(S).
2. DIMENSIONS INDICATED ON PLANS ARE TO THE CENTER OF THE BOX, ABOVE FINISHED FLOOR. COORDINATE FINAL MOUNTING HEIGHT WITH THE ARCHITECTURAL DRAWINGS.
3. LOCATIONS AND MOUNTING HEIGHTS OF WALL MOUNTED WIRING DEVICES SUCH AS POWER RECEPTACLES, DATA OUTLETS, SWITCHES, DIMMERS, ETC., ARE TO BE ULTIMATELY COORDINATED W/ ARCHITECTURAL DRAWINGS.



4 ENLARGED FIRST FLOOR PLAN - NEW LIGHTING
1/4" = 1'-0"



3 ENLARGED FIRST FLOOR PLAN - DEMO LIGHTING
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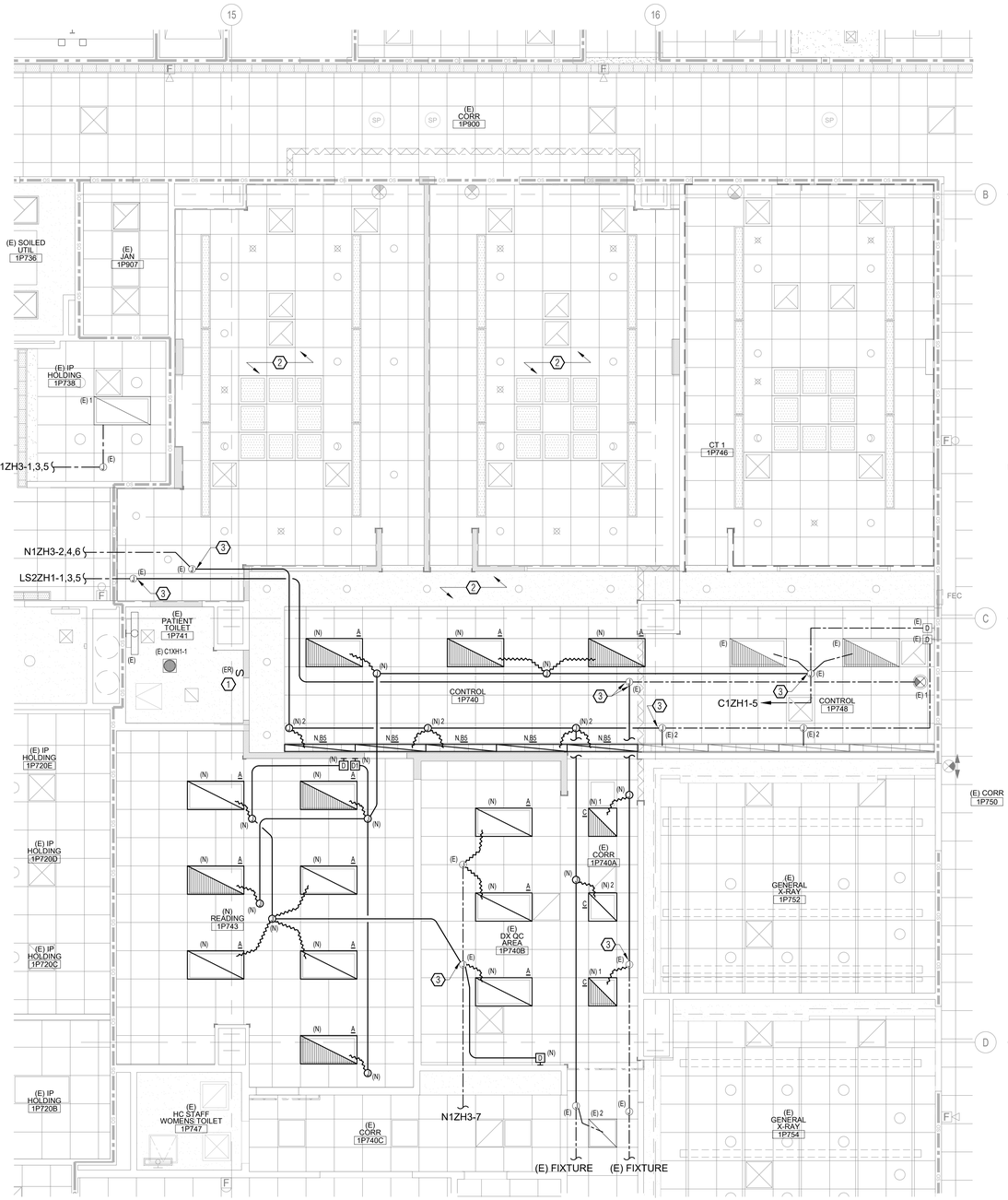

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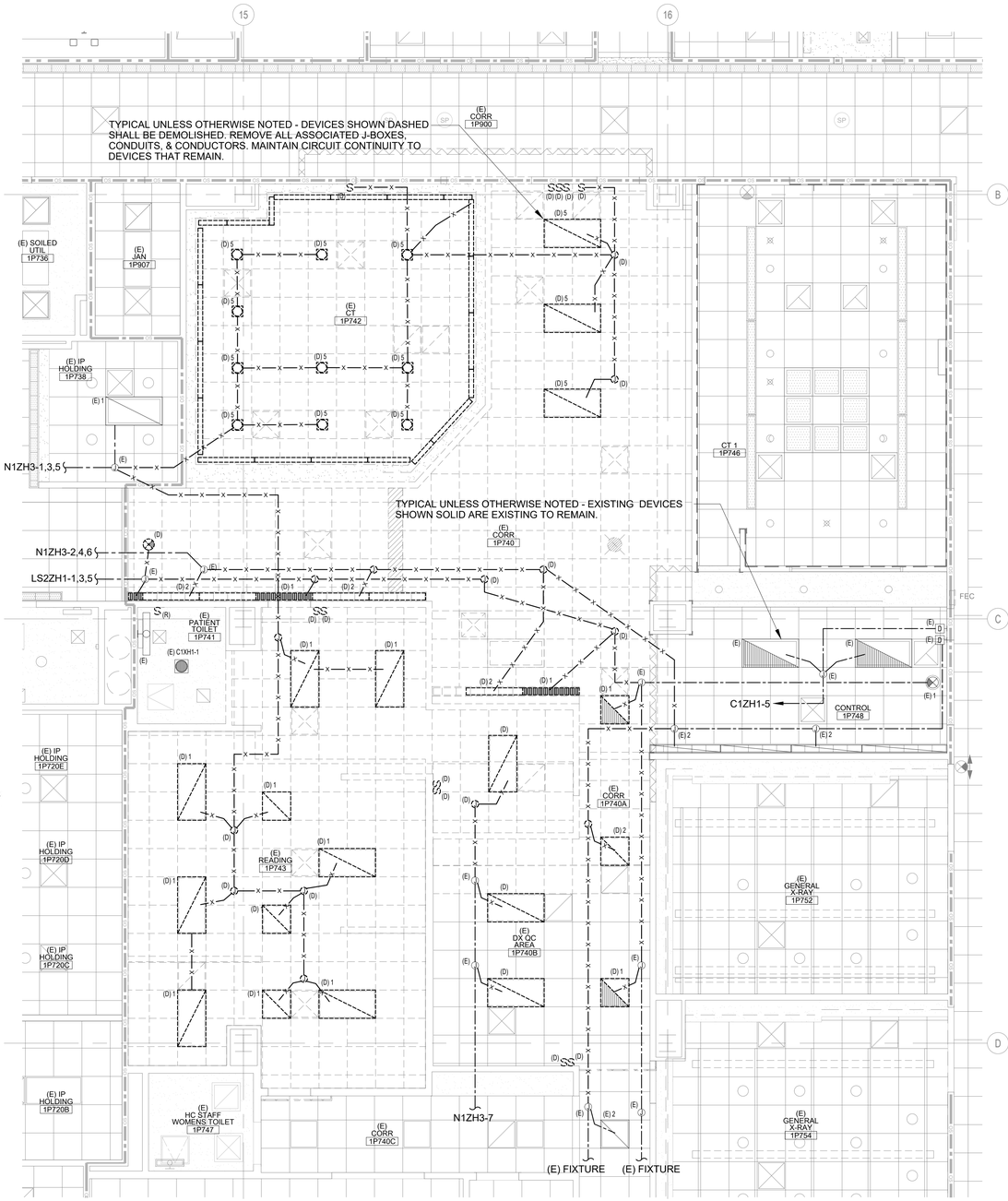

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REV	REVISION DESCRIPTION	DATE

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SHEET TITLE: ENLARGED FIRST FLOOR PLAN - DEMO & NEW LIGHTING

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	E2.02
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: J. Luong	DATE: -	
DRAWN BY: J. Luong	CAD FILE: -	SHEET / OF

NUMBERED NOTES

1. EXTEND (E) CIRCUIT TO (N) DEVICES AS INDICATED.
2. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION, DETAIL, AND EXACT LOCATION.
3. REFER TO PLUMBING DRAWINGS FOR MORE INFORMATION, DETAIL, AND EXACT LOCATION.
4. RECIRCUIT HOMERUN FROM CIRCUIT EQ2XL1-32 TO CIRCUIT EQ2ZL2-26 AS REQUIRED. UPDATE EXISTING JUNCTION BOX LABELS AS REQUIRED.
5. MOUNT RECEPTACLE ON COLUMN.

1 ENLARGED SECOND FLOOR PLAN - NEW POWER
1/8" = 1'-0"

NORTH

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

nacht&lewis
600 Q Street, Suite 100
Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

LICENSED ARCHITECT JOHN M. FLATH No. C-31049 EXP. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

EDGE
Project Number KD44
Contact JOHNNY
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

LICENSED ARCHITECT JOHN M. FLATH No. C-31049 EXP. 12-31-25 STATE OF CALIFORNIA
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPD NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: ENLARGED SECOND FLOOR PLAN - NEW POWER

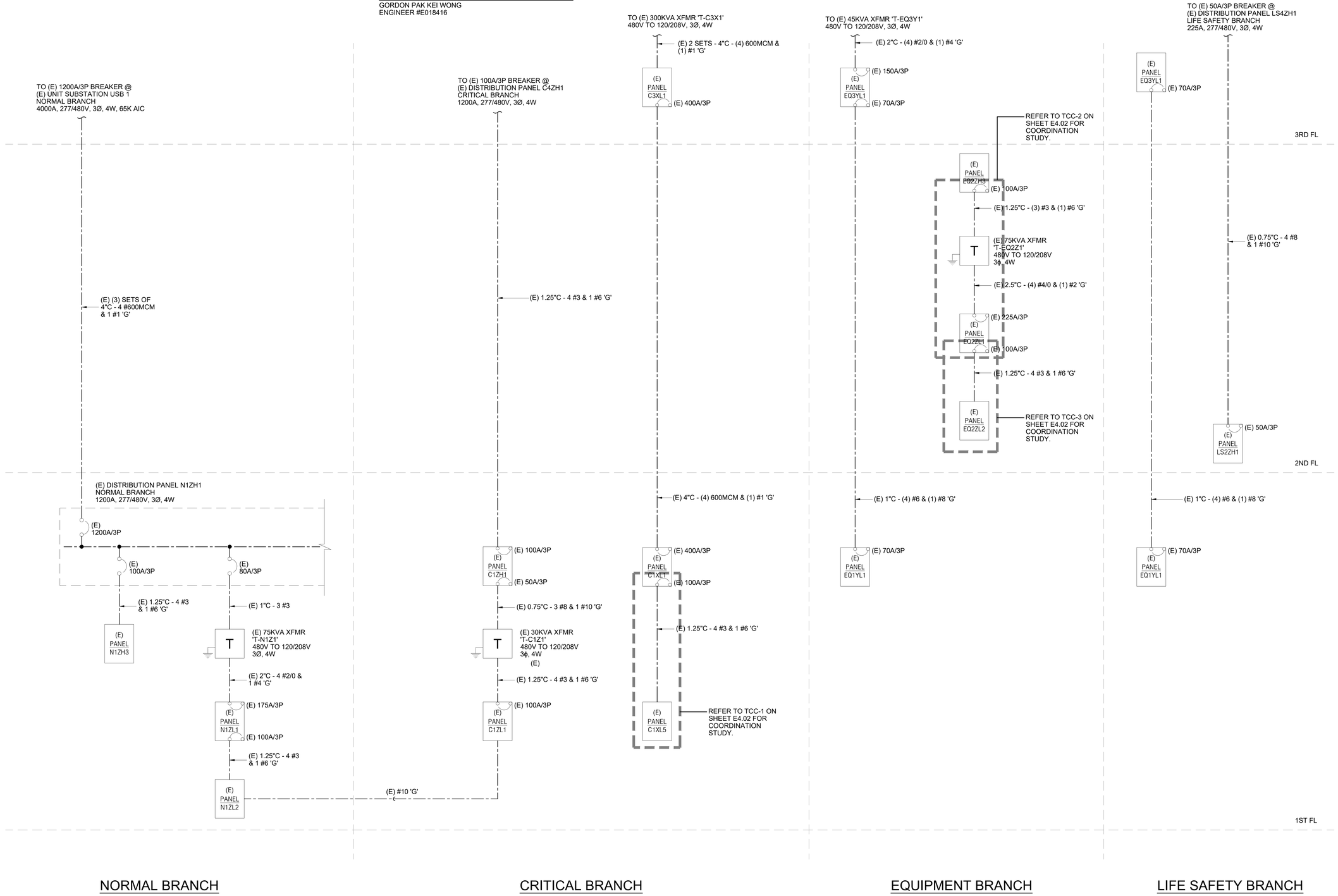
ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	-	E2.03	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	AS SHOWN		
DESIGNED BY	DATE		
J. Luong	-		
DRAWN BY	CAD FILE	SHEET	OF
J. Luong	-		

LEVEL II NOTE:

THE FEEDER AND OVER-CURRENT PROTECTION FOR THE EXISTING LEVEL II PANELS INDICATED BELOW HAVE BEEN CHECKED BY THE ELECTRICAL ENGINEER AND SUFFICIENT LOAD CAPACITY EXISTS AT THIS POINT IN THE ELECTRICAL DISTRIBUTION SYSTEM.

SUBSTATION: 'USB 1'
DISTRIBUTION PANELS: 'C4ZH1'
PANELS: 'C3XL1','EQ2ZH3', AND 'EQ3YL1'

GORDON PAK KEI WONG
ENGINEER #E018416



NORMAL BRANCH | CRITICAL BRANCH | EQUIPMENT BRANCH | LIFE SAFETY BRANCH

1 PARTIAL ONE LINE DIAGRAM
NO SCALE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

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LICENSED ARCHITECT JOHN M. FLATH No. C-31049 EXP. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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EDGE
Project Number KD44
Contact JOHNNY
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

GORDON PAK KEI WONG No. E 018416 ELECTRICAL STATE OF CALIFORNIA
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCESS #: 9557740
OSHPD #: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: (E) PARTIAL ONE LINE DIAGRAM

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	E3.01
UCDMC PROJECT MANAGER	SCALE	
Z. Price	AS SHOWN	
DESIGNED BY	DATE	
J. Luong	-	
DRAWN BY	CAD FILE	SHEET / OF
J. Luong	-	

(E) PANEL C1ZH1

SECTION: 1 OF 1 | SERVING: CRITICAL | BUS RATING: 100 AMP | X MAIN BREAKER: 100 AMP | MAIN LUGS ONLY | FED-THRU LUGS | THREE PHASE 4-WIRE | VOLTAGE 480Y/277
LOCATION: RM | PANEL A.I.C.: EXISTING | MOUNTING: FLUSH / X SURFACE

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
BATHROOM	0.50				20	1	1	A	2	1	20	2.10				CATH LAB
LIGHTING 1.5T MRI 1P724 & 1P726	1.50				20	1	3	B	4	1	20					SPARE
LTG 1P740/1P748/1P743	**0.25**				**20**	**1**	**5**	C	6	1	20					SPARE
SPACE							7	A	8							SPACE
SPACE							9	B	10							SPACE
SPACE							11	C	12							SPACE
SPACE							13	A	14							SPACE
SPACE							15	B	16							SPACE
SPACE							17	C	18							SPACE
SPACE							19	A	20							SPACE
SPACE							21	B	22							SPACE
SPACE							23	C	24							SPACE
SPACE							25	A	26							SPACE
SPACE							27	B	28							SPACE
SPACE							29	C	30							SPACE
SPACE							31	A	32							SPACE
SPACE							33	B	34							SPACE
SPACE							35	C	36							SPACE
	0.00	8.10	0.00	2.92	-	-	37	A	38	-	-	0.23	0.46	0.00	1.80	
XFMR T-C1Z1	0.00	7.28	0.00	2.70	3	50	39	B	40	3	50	0.23	0.46	0.00	1.80	XFMR T-T1Z1
	0.70	5.16	0.00	4.00	-	-	41	C	42	-	-	0.23	0.46	0.00	1.80	
TOTALS ---------->	2.95	20.54	0.00	9.62								2.79	1.38	0.00	5.40	<-------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 7.18 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10,000VA, & 50% FOR REMAINDER: 15.96 KVA
TOTAL NONCONTINUOUS LOAD: 15.02 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD: 38.16 KVA | CONNECTED KVA TOTAL/PHASE: A 16.11 | B 13.97 | C 12.60 | MINIMUM FEEDER CAPACITY 38.16 KVA 45.89 AMP

(E) PANEL C1ZL1

SECTION 1 OF 1 | SERVING CRITICAL | BUS RATING: 100 AMP | X MAIN BREAKER 100 AMP | MAIN LUGS ONLY | FED-THRU LUGS | THREE PHASE 4-WIRE | VOLTAGE 208/120Y
LOCATION: ELEC RM 1P663A | PANEL A.I.C.: EXISTING | MOUNTING: FLUSH / X SURFACE

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
RECEPTACLE					20	1	1	A	2	1	20					HEADWALL RECEPT
RECEPT/PC					20	1	3	B	4	1	20					HEADWALL RECEPT
WARMING CABINET					20	1	5	C	6	1	20					HEADWALL RECEPT
MEDSTATION/PC					20	1	7	A	8	1	20					HEADWALL RECEPT
RECEPT 1P748					20	1	9	B	10	1	20					WARMING CABINET
HEADWALL RECEPT					20	1	11	C	12	1	20					PC/SHUNT TRIP
RECEPT/PRT					20	1	13	A	14	1	20					PC/SHUNT TRIP
ICC14					20	1	15	B	16	1	20					RECEPT/INJ02/INJ03
MEDM01/MEDM02 REF08/REF09					20	1	17	C	18	1	20					RECEPT/PC/PRT/DOOR HDW
PLBG FIXTURE/DOOR HDW				**0.26**	**20**	**1**	**19**	A	20	1	20					XCELERA WORKST (CATH LAB)
PEDESTAL INJECTOR (CATH)					20	1	21	B	22	1	20					INTERVNTL HDW (CATH)
RECEPTS RM 1P668 & 1P740		**1.08**			**20**	**1**	**23**	C	24	1	20					IVUS (CATH LAB)
RECEPTS RM 1P668 & 1P740		**1.08**			**20**	**1**	**25**	A	26	1	20					PEDESTAL INJECTOR (CATH)
DOOR HDW & HOSE REEL 1P742&1P745		**0.36**		**0.05**	**20**	**1**	**27**	B	28	1	20					MRI 1P636 RECEPT
INTERVNTL HDW (CATH)					20	1	29	C	30	1	20					RECEPTACLE
RECEPT (8) 1P663A,1PN12,1PN14					20	1	31	A	32	1	20					RECEPT/PC/PRT/DOOR HDW
IVUS (CATH LAB)					20	1	33	B	34	1	20					RECEPT/PC
CATH PROCEDURE					20	1	35	C	36	1	20					CAMERAS/DOOR HDW
XCELERA WORST (CATH LAB)					20	1	37	A	38	1	20					PYXIS 1P720
CAMERAS					20	1	39	B	40	1	20					RECEPT RM 1P714
CAMERAS					20	1	41	C	42	1	20					1PN12 MRI ANESTHESIA MACHINE
TOTALS ---------->	0.00	2.52	0.00	0.31								0.00	0.00	0.00	0.00	<-------- TOTALS

REFER TO PANEL LOAD SUMMARY

(E) PANEL C1XL1

SECTION 1 OF 1 | SERVING CRITICAL | BUS RATING: 400 AMP | X MAIN BREAKER: 400 AMP | MAIN LUGS ONLY | FED-THRU LUGS | THREE PHASE 4-WIRE | VOLTAGE 208Y/120
LOCATION: ELEC RM 1P304 | PANEL A.I.C.: EXISTING | MOUNTING: FLUSH / X SURFACE

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
ECHOCARD 1P524					20	1	1	A	2	1	20					ECHOCARD 1P523
ECHOCARD 1P522					20	1	3	B	4	2	50					LASER
PDC LTG CTRL RACK RM 1P740	**0.36**				**20**	**1**	**5**	C	6	-	-					-
RECEPTACLE/DEFIB/PC					20	1	7	A	8	-	-					-
RECEPTACLE/DOOR HDWR					20	1	9	B	10	3	100					PANEL C1XL5
CAMERA					20	1	11	C	12	-	-					-
RECEPTACLE/PC/BEDE01/EKG					20	1	13	A	14	1	20					HEADWALL RECEPTACLE
RECEPTACLE/PC/ECH001					20	1	15	B	16	1	20					HEADWALL RECEPTACLE
BEDE01/PC/ECH001					20	1	17	C	18	1	20					PROCEDURE LTG
BEDE01/ECHOO1					20	1	19	A	20	1	20					LTG CTRL RACK
BEDE01/ECHOO1					20	1	21	B	22	1	20					SPARE
LASER					50	2	23	C	24	1	20					RECEPTACLE/PC/BEDE01/EKG01
-					-	-	25	A	26	1	20					RECEPTACLE/PC/BEDE01/EKG01
MONT08/STR01/CW01/CC001					20	1	27	B	28	1	20					RECEPTACLE/CRASH CART
WARMING CABINET					20	1	29	C	30	1	20					RECEPTACLE/CRASH CART
RECEPTS					20	1	31	A	32	-	-					-
RECEPTACLE					20	1	33	B	34	3	100					PANEL C1XL4
RECEPTACLE					20	1	35	C	36	-	-					-
					-	-	37	A	38	-	-					-
PANEL C1XL2					100	3	39	B	40	3	100					PANEL C1XL3
					-	-	41	C	42	-	-					-
TOTALS ---------->	0.36	0.00	0.00	0.00								0.00	0.00	0.00	0.00	<-------- TOTALS

REFER TO PANEL LOAD SUMMARY

(E) PANEL C1XL5

SECTION 1 OF 1 | SERVING CRITICAL | BUS RATING: 100 AMP | MAIN BREAKER: | X MAIN LUGS ONLY | FED-THRU LUGS | THREE PHASE 4-WIRE | VOLTAGE 208Y/120
LOCATION: ELEC RM 1P304 | PANEL A.I.C.: 10,000 | MOUNTING: FLUSH / X SURFACE

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
HEADWALL RECEP.		0.90			20	1	1	A	2	1	20				0.80	MTS01
HEADWALL RECEP.		0.72			20	1	3	B	4	1	20		0.36			RECEPTACLE/AC001
HEADWALL RECEP.		0.72			20	1	5	C	6	1	20		0.54		0.50	REC/WFMB
HEADWALL RECEP.		0.36			20	1	7	A	8	1	20		0.36		0.30	REC/CC001/C00X01/EKG03/DR/SHNT TRI
HEADWALL RECEP.		0.90			20	1	9	B	10	2	30				1.00	LASER
HEADWALL RECEP.		0.90			20	1	11	C	12	-	-				1.00	-
HEADWALL RECEP.		0.90			20	1	13	A	14	2	30				1.00	LASER
HEADWALL RECEP.		0.90			20	1	15	B	16	-	-				1.00	-
HEADWALL RECEP.		0.90			20	1	17	C	18	1	20		0.18			RECEPTACLE
HEADW/CW01/DEF/CCO/PLMB		0.72		0.10	20	1	19	A	20	1	20				0.50	EKG01/MONT05 MEDM01
PC001/DEF01/PRT04/LBL MKR				0.80	20	1	21	B	22	1	20				0.80	MTS01
CW01/EKG/PLMB FIXT./REC.		0.18		0.30	20	1	23	C	24	1	20		0.18		1.10	CABW04/AC001
REF09/ICC14		0.90			20	1	25	A	26	1	20		0.36		1.00	REC/WFMB/EKG03
MEDM02/REF08/CABW01				0.80	20	1	27	B	28	1	20		0.54		0.20	C00X01/REC/CC001/SHUNT TRIP
MTS01		0.90			20	1	29	C	30	1	20				0.80	MTS01
REC/CC001C00X01/SHNT TRIP		0.72		0.20	20	1	31	A	32	1	20		0.36			RECEPTACLE/ULTRA01
REC/WFMB EK03		0.36		0.50	20	1	33	B	34	1	20		0.18		0.50	ACC001 REC/WFMB
RECEPTACLE/AC001		0.36			20	1	35	C	36	1	20		0.36		0.80	C00X01/REC/CC001/SHUNT TRIP
INTERVNTL. HARDW. (CATH)		0.18			20	1	37	A	**38**	**1**	**20**		**0.72**			**RECEPTS. RM 1P740** ⟨4⟩
VIEW FORUM (CATH LAB)		0.18			20	1	39	B	**40**	**1**	**20**				**0.50**	**REFRIG. RM 1P740B** ⟨4⟩
XCELERA WRKST. (CATH LAB)		0.18			20	1	41	C	**42**	**1**	**20**				**0.84**	**WARMING CABINET RM 1P740B** ⟨4⟩
TOTALS ---------->	0.00	11.88	0.00	2.70								0.00	4.14	0.00	12.64	<-------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 0.00 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 13.01 KVA
TOTAL NONCONTINUOUS LOAD: 15.34 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD: 28.35 KVA | CONNECTED KVA TOTAL/PHASE: A 10.38 | B 10.24 | C 10.74 | MINIMUM FEEDER CAPACITY 28.35 KVA 78.69 AMP

(E) PANEL LS2ZH1

SECTION: 1 OF 1 | SERVING: LIFE SAFETY | BUS RATING: 100 AMP | X MAIN BREAKER: 50 AMP | MAIN LUGS ONLY | FED-THRU LUGS | THREE PHASE 4-WIRE | VOLTAGE 480/277Y
LOCATION: ELEC RM 2P930 | PANEL A.I.C.: EXISTING | MOUNTING: FLUSH / X SURFACE

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
1ST FLR RADIO CORRIDOR	**0.50**				**20**	**1**	**1**	A	2	1	20				1.80	CLEAN CORR 3/F
1ST FLR RADIO CORRIDOR	0.50				20	1	3	B	4	1	20				1.60	CLEAN CORR 3/F
1ST FLR RADIO CORRIDOR	0.55				20	1	5	C	6	1	20				1.80	MAIN CORR 3/F
NORTH ROOF RM 4P100/101/102	0.30				20	1	7	A	8	1	20				0.50	STAIR E
EXIT SIGNS LEVEL 4	0.10				20	1	9	B	10	1	20					(E) CORR. 1P740A LIGHT
SPARE					20	1	11	C	12	1	20					SPARE
SPACE						1	13	A	14	1						SPACE
SPACE						1	15	B	16	1						SPACE
SPACE						1	17	C	18	1						SPACE
SPACE						1	19	A	20	1						SPACE
SPACE						1	21	B	22	1						SPACE
SPACE						1	23	C	24	1						SPACE
SPACE						1	25	A	26	1						SPACE
SPACE						1	27	B	28	1						SPACE
SPACE						1	29	C	30	1						SPACE
SPACE						1	31	A	32	1						SPACE
SPACE						1	33	B	34	1						SPACE
SPACE						1	35	C	36	1						SPACE
SPACE						1	37	A	38	1						SPACE
SPACE						1	39	B	40	1						SPACE
SPACE						1	41	C	42	1						SPACE
TOTALS ---------->	1.95	0.00	0.00	0.00								0.00	0.00	0.00	5.70	<-------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 2.44 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 0.00 KVA
TOTAL NONCONTINUOUS LOAD: 5.70 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD: 8.14 KVA | CONNECTED KVA TOTAL/PHASE: A 3.10 | B 2.20 | C 2.35 | MINIMUM FEEDER CAPACITY: 8.14 KVA 9.79 AMP

(E) PANEL N1ZH1

SECTION: 1 OF 1 | SERVING: NORMAL | BUS RATING: 1200 AMP | X MAIN BREAKER: 1200 AMP | MAIN LUGS ONLY | FED-THRU LUGS | THREE PHASE 4-WIRE | VOLTAGE 480Y/277
LOCATION: ELEC RM 1P663A | PANEL A.I.C.: EXISTING | MOUNTING: FLUSH / X SURFACE

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
-				**33.3**	**-**	**-**	**1**	A	2	-	-					-
⟨1⟩ **CT 3 SCAN 1P742**				**33.3**	**175**	**3**	**3**	B	4	3	125					CT SCAN 1P746
-				**33.3**	**-**	**-**	**5**	C	6	-	-					-
-					-	-	7	A	8	-	-					-
CRU-1					80	3	9	B	10	3	80					CRU-2
-					-	-	11	C	12	-	-					-
-					-	-	13	A	14	-	-					-
PANEL NGZH1					800	3	15	B	16	3	150					3.0T MRI
-					-	-	17	C	18	-	-					-
-					-	-	19	A	20	-	-					-
PANEL N1ZH3					100	3	21	B	22	3	80					XFMR T-N1Z1 PANEL N1ZL1
-					-	-	23	C	24	-	-					-
-					-	-	25	A		-	-					-
AIR COOLED CHILLER ACC-1					80	3	27	B		3	80					BAD BREAKER
-					-	-	29	C		-	-					-
-				**33.30**	**-**	**-**	**31**	A								SPACE
⟨2⟩ **CT 2 SCAN 1P745**				**33.30**	**175**	**3**	**33**	B								SPACE
-				**33.30**	**-**	**-**	**35**	C								SPACE
TOTALS ---------->	0.00	0.00	0.00	199.80								0.00	0.00	0.00	0.00	<-------- TOTALS

REFER TO PANEL LOAD SUMMARY

(E) PANEL EQ1YL1

SECTION: 1 OF 1 | SERVING: EQUIPMENT | BUS RATING: 100 AMP | X MAIN BREAKER: 70 AMP | MAIN LUGS ONLY | FED-THRU LUGS | THREE PHASE 4-WIRE | VOLTAGE 480Y/277
LOCATION: ELEC RM 1P613 | PANEL A.I.C.: EXISTING | MOUNTING: FLUSH / X SURFACE

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
AUTO DOOR 1P748			**1.20**		**20**	**1**	**1**	A	2	1	20		1.10			RECEPTACLE
SPARE					20	1	3	B	4	1	20			0.10	0.70	BMS/VAV CTRL PANELS, COND PUMP
SPARE					20	1	5	C	6	1	20				0.70	BMS/VAV CTRL PANELS
BMS/VAV CTRL PANELS				0.80	20	1	7	A	8	1	20				0.70	BMS/VAV CTRL PANELS
SPARE					20	1	9	B	10	1	20					SPARE
SPARE					20	1	11	C	12	1	20					SPARE
SPARE					20	1	13	A	14	1	20				0.40	1ST FLOOR FSD
AUTO DOOR			0.20		20	1	15	B	16	1	20				0.30	1ST FLOOR FSD
AUTO DOOR			0.20		20	1	17	C	18	1	20				0.30	1ST FLOOR FSD
SPRINKLER AIR COMPRESSOR			0.90		20	1	19	A	20	1	20				0.20	1ST FLOOR FSD
1ST FLR FSD SUPPLY AIR				0.55	20	1	21	B	22	1	20				0.20	1ST FLOOR FSD
1ST FLR FSD EXHAUST AIR				0.50	20	1	23	C	24	1	20				0.20	1ST FLOOR FSD
1ST FLOOR FSD				0.50	20	1	25	A	26	1	20				0.10	1ST FLOOR FSD
1ST FLOOR FSD				0.40	20	1	27	B	28	1	20				0.10	1ST FLOOR FSD
1ST FLOOR FSD				0.20	20	1	29	C	30	1	20				0.60	1ST FLOOR FSD
1ST FLOOR FSD				0.20	20	1	31	A	32	1	20				0.30	1ST FLOOR FSD
1ST FLOOR FSD				0.10	20	1	33	B	34	1	20			1.70		FCU-13
1ST FLOOR FSD				0.10	20	1	35	C	36	1	20			1.70		FCU-13
1ST FLOOR FSD				0.40	20	1	37	A	38	1	20					SPARE
1ST FLOOR FSD				0.40	20	1	39	B	40	1	20					SPARE
SPARE					20	1	41	C	42	1	20					SPARE
TOTALS ---------->	0.00	0.00	2.50	4.15								0.00	1.10	3.50	4.80	<-------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 0.00 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10,000VA, & 50% FOR REMAINDER: 1.10 KVA
TOTAL NONCONTINUOUS LOAD: 8.95 KVA
TOTAL MOTOR LOAD: 6.00 KVA
LARGEST MOTOR @ 25%: 1.7 KVA 0.43 KVA

TOTAL DEMAND LOAD: 16.48 KVA | CONNECTED KVA TOTAL/PHASE: A 6.80 | B 4.75 | C 4.50 | MINIMUM FEEDER CAPACITY 16.48 KVA 19.82 AMP

(E) PANEL EQ2ZL1

SECTION 1 OF 1 | SERVING EQUIPMENT | BUS RATING: 225 AMP | X MAIN BREAKER: | MAIN LUGS ONLY | FED-THRU LUGS | THREE PHASE 4-WIRE | VOLTAGE 208Y/120
LOCATION: ELEC. RM 2P930 | PANEL A.I.C.: 25,000 | MOUNTING: FLUSH / X SURFACE

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
3P648 MONITOR		0.18			20	1	1	A	2	1	20		0.36		0.40	TV/PC/REC (3RD FL)
3P740 MONITOR		0.18			20	1	3	B	4	1	20		0.72			RECEP (3RD FL)
WFL01				1.40	20	1	5	C	6	1	20				0.20	SMOKE GUARD (3RD FL)
PSYR01/PC/PRT/REC (3RD FL)		1.40			20	1	7	A	8	1	20		0.90			RECEP (3RD FL)
WFL01 (3RD FL)				1.40	20	1	9	B	10	1	20				0.20	SMOKE GUARD (3RD FL)
RECEP/PC (3RD FL)		0.18		0.40	20	1	11	C	12	1	20		0.72			RECEP (3RD FL)
RECEP/FRE03 (3RD FL)		0.90		0.10	20	1	13	A	14	1	20				0.40	SMOKE GUARD (3RD FL)
ICES01 (3RD FL)				1.60	20	1	15	B	16	1	20				1.30	LG FIRE SHUTTER (3RD FL)
RECEP (3RD FL)		1.10			20	1	17	C	18	1	20				1.30	LG FIRE SHUTTER (3RD FL)
RECEP/PC/PRT (3RD FL)		0.72		0.20	20	1	19	A	20	1	20				1.00	BMS/VAV CNTL PNLS
BMS/VAV CNTL (3RD FL)				0.60	20	1	21	B	22	1	20				0.60	BMS/VAV CNTL PNLS
⟨3⟩ **FCU-1 2P840**			**3.07**		**30**	**1**	**23**	C	24	1	20				0.60	BMS/VAV CNTL PNLS (3RD FL)
RADIOGRAPHIC UNITS (5A EA)				0.60	20	1	25	A	26	1	20				0.60	RADIOGRAPHIC UNITS (5A EA)
RADIOGRAPHIC UNITS (5A EA)				0.60	20	1	27	B	28	1	20				0.60	RADIOGRAPHIC UNITS (5A EA)
RADIOGRAPHIC UNITS (5A EA)				0.60	20	1	29	C	30	1	20				0.60	RADIOGRAPHIC UNITS (5A EA)
AGVS AUTO DR (3RD FL)			0.10		20	1	31	A	**32**	**1**	**30**			**3.07**		**FCU-2 2P840** ⟨3⟩
AGVS AUTO DR (3RD FL)			0.10		20	1	33	B	34	1	20				0.20	2ND FL FSD
AGVS AUTO DR (3RD FL)			0.10		20	1	35	C	36	1	20		1.44			3P730 MONITORS
-				3.33	-	-	37	A	38	-	-				4.39	-
10 KVA UPS, INTERSTITIAL SPACE				3.33	45	3	39	B	40	3	100				4.39	PANL EQ2ZL2
-				3.33	-	-	41	C	42	-	-				4.39	-
TOTALS ---------->	0.00	4.66	3.37	17.49								0.00	4.14	3.07	21.17	<-------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 0.00 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 8.80 KVA
TOTAL NONCONTINUOUS LOAD: 38.66 KVA
TOTAL MOTOR LOAD: 6.44 KVA
LARGEST MOTOR @ 25%: 3 KVA 0.75 KVA

TOTAL DEMAND LOAD: 54.65 KVA | CONNECTED KVA TOTAL/PHASE: A 18.65 | B 15.82 | C 19.43 | MINIMUM FEEDER CAPACITY 54.65 KVA 151.69 AMP

(E) PANEL EQ2ZL2

SECTION 1 OF 1 | SERVING EQUIPMENT | BUS RATING: 100 AMP | MAIN BREAKER: | X MAIN LUGS ONLY | FED-THRU LUGS | THREE PHASE 4-WIRE | VOLTAGE 208Y/120
LOCATION: ELEC. RM 2P930 | PANEL A.I.C.: 10,000 | MOUNTING: FLUSH / X SURFACE

LOAD DESCRIPTION	KVA LOAD CONT.	RECP.	MOTOR	NON	C. B. AMP	POLE	CKT #	PH	CKT #	C. B. POLE	AMP	KVA LOAD CONT.	RECP.	MOTOR	NON	LOAD DESCRIPTION
FCU-1A (.35HP)					20	1	1	A	2	1	20					PINF02 (3RD FL)
FU-13 (.1HP)					20	1	3	B	4	1	20					PINF02 (3RD FL)
FCU-7 (.33HP)					20	1	5	C	6	1	20					PINF02 (3RD FL)
FCU-1A (.53HP)					20	1	7	A	8	1	20					PINF02 (3RD FL)
FCU-1 (.24HP)					20	1	9	B	10	1	20					BLRS01 (3RD FL)
FCU-7 (.33HP)					20	1	11	C	12	1	20					BLRS01 (3RD FL)
REFRIG REF05					20	1	13	A	14	1	20					BLRS01 (3RD FL)
FREEZER FREZ01					20	1	15	B	16	1	20					BLRS01 (3RD FL)
FREEZER FREZ01					20	1	17	C	18	1	20					FCU-13 (1HP)
FREEZER FREZ01					20	1	19	A	20	1	20					3P720 MONITORS
REFER/FRZ RFZ02					20	1	21	B	22	1	20					SPARE
SF-1 (.25HP)					20	1	23	C	**24**	**1**	**20**			**0.10**		**CONDENSATE LIFT PUMP 2P840** ⟨5⟩
FIRE SHUTTER					20	1	25	A	**26**	**1**	**20**				**0.15**	**2ND FL FSD** ⟨4⟩
REF10					20	1	27	B	28	-	-					SPACE
MEDM02/MEDM03 REC (3RD FL)		0.72			20	1	29	C	30	-	-					SPACE
TOTALS ---------->	0.00	0.72	0.00	0.00								0.00	0.00	0.10	0.15	<-------- TOTALS

REFER TO PANEL LOAD SUMMARY

PANEL LOAD SUMMARY

NOTE: ALL LOADS SHOWN ARE EXPRESSED IN kVA. UNLESS OTHERWISE NOTED.

PANEL/BRANCH VOLTAGE	EXISTING LOAD x 125%	REMOVED LOAD	ADDED LOAD	NEW LOAD	NEW LOAD (AMPS)	OVER CURRENT PROTECTION
PANEL N1ZH1 NORMAL BRANCH 480/277V, 3PH, 4W	49.85 *x 125%* **62.31**	-24.90	199.80	**237.21**	**285.32**	(E) 1200A/3P MAIN CIRCUIT BREAKER
PANEL C1XL1 CRITICAL BRANCH 208/120V, 3PH, 4W	31.03 *x 125%* **38.79**	0.00	0.72	**39.51**	**109.66**	(E) 400A/3P MAIN CIRCUIT BREAKER
PANEL C1ZL1 CRITICAL BRANCH 208/120V, 3PH, 4W	14.67 *x 125%* **18.34**	-0.90	1.38	**18.82**	**52.23**	(E) 100A/3P MAIN CIRCUIT BREAKER
PANEL EQ2ZL2 EQUIPMENT BRANCH 208/120V, 3PH, 4W	14.60 *x 125%* **18.25**	0.00	0.25	**18.50**	**51.35**	(E) 100A/3P MAIN CIRCUIT BREAKER

* INDICATES ENTIRE LOAD REMOVED
≤ INDICATES NEW LOAD LESS THAN OR EQUAL THAN EXISTING LOAD

PANEL NUMBERED NOTES

⟨1⟩ REMOVE (E) 125A/3P CIRCUIT BREAKER, AND PROVIDE (N) 175A/3P CIRCUIT BREAKER AS INDICATED. MATCH EXISTING TYPE AND AIC RATING.

⟨2⟩ PROVIDE (N) 175A/3P CIRCUIT BREAKER AS INDICATED. MATCH EXISTING TYPE AND AIC RATING.

⟨3⟩ REMOVE (E) 20A/1P CIRCUIT BREAKER, AND PROVIDE (N) GE TYPE THQB, 30A/1P CIRCUIT BREAKER.

⟨4⟩ PROVIDE (N) GE TYPE THQB, 20A/1P CIRCUIT BREAKER.

⟨5⟩ CONNECT TO (E) 20A/1P SPARE CIRCUIT BREAKER.

PANEL SCHEDULE NOTES

1. ALL CIRCUITS INDICATED "LIGHT" ON PANEL SCHEDULES ARE EXISTING TO REMAIN AND HAVE NOT BEEN MODIFIED AS PART OF THIS PROJECT.
2. ALL CIRCUITS INDICATED "BOLD" ON PANEL SCHEDULES HAVE BEEN MODIFIED, ALTERED, OR ADDED AS PART OF THIS PROJECT.
3. PROVIDE UPDATED 'TYPEWRITTEN' PANEL INDEX. PANEL INDEX SHALL INCLUDE DATE APPLIED AND ALSO WHERE THE PANEL IS FED FROM.
4. PROVIDE BLANK COVER PLATES OVER ANY EXPOSED CIRCUIT BREAKER SPACE THAT IS EXPOSED.
5. UPON OPENING EXISTING PANELS, TURN ANY CIRCUIT BREAKERS WITH NO CONDUCTORS OR NOT CONNECTED TO A LOAD INTO THE "OFF" POSITION AND UPDATE PANEL SCHEDULE.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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Sacramento, CA 95811
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916.329.4000

LICENSED ARCHITECT JOHN M FLATH No. C-21560 REN. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
Facilities Design & Construction
4800 2nd Avenue Suite 3010
Sacramento, California 95817
(916)734-7024

EDGE ELECTRICAL CONSULTING
Project Number K044
Contact JOHNNY
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

REGISTERED PROFESSIONAL ENGINEER GORDON PAK KEI WONG No. E 018416 ELECTRICAL STATE OF CALIFORNIA
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPD NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PANEL SCHEDULES & PANEL LOAD SUMMARY

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	E4.01
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: J. Luong	DATE: -	
DRAWN BY: J. Luong	CAD FILE: -	SHEET / OF

(E) PANEL N1ZL2

SECTION	1 OF 1	BUS RATING:	100 AMP	THREE PHASE	VOLTAGE
SERVING	NORMAL	MAIN BREAKER		4-WIRE	208/120Y
LOCATION:	ELEC RM 1P663A	MOUNTING:	FLUSH	X	MAIN LUGS ONLY
PANEL A.I.C.	EXISTING	X	SURFACE		FED-THRU LUGS

LOAD DESCRIPTION	KVA LOAD CONT.	KVA LOAD RECP.	KVA LOAD MOTOR	KVA LOAD NON	C. B. AMP	C. B. POLE	CKT #	PH	CKT #	C. B. POLE	C. B. AMP	KVA LOAD CONT.	KVA LOAD RECP.	KVA LOAD MOTOR	KVA LOAD NON	LOAD DESCRIPTION
SPARE					20	1	1	A	2	1	20		1.92			RECEPT RM 1P725
SPARE					20	1	3	B	4	1	20		1.08			RECEPT (7) 1PN03
(1) **PDC CONTROL RACK RM 1P740**	**1.60**				**20**	**1**	**5**	C	6	1	20		1.44			RECEPT (8) 1PN02,1PN03,1PN06
PDC CONTROL RACK RM 1P740	**1.60**				**20**	**1**	**7**	A	8	1	20	1.20				MED RM LTG
RECEPT 1P648,1P663,1P711,1PN07		1.08	0.48		20	1	9	B	**10**	**1**	**20**		**1.08**			**RECEPTACLES 1P746**
RECEPT (4) 1P661, 1P661A, 1PN15		0.72			20	1	11	C	**12**	**1**	**20**		**0.90**			**RECEPTACLES 1P745**
RECEPT (5) 1PN01,1PN02		0.90			20	1	13	A	**14**	**1**	**20**		**0.72**			**RECEPTACLES 1P742**
RECEPT/IRRIGATION CTRL		1.00			20	1	15	B	16	1	20	0.40				ILLUMINATOR
RECEPT/PC/PRT		0.18			20	1	17	C	18	1	20		1.10			HEADWALL RECEPT
RECEPTS 1PN748		0.36			20	1	19	A	20	1	20		0.50			HEADWALL RECEPT
(1) **RECEPTACLES 1P740**		**0.54**			**20**	**1**	**21**	B	22	1	30		1.92			IT ROOM RECEPTACLE
RECEPTACLES 1P740		**0.54**			**20**	**1**	**23**	C	24	1	20				1.00	RECEPT (1) SYSTEM A/V RACK
RECEPT/REFRG		0.90		0.30	20	1	25	A	26	1	20		0.82			CONTRAST MEDIA WARMER
RECEPT/REFRG		0.70		0.30	20	1	27	B	28	2	30					IT ROOM RECEPTACLE
RECEPTACLE		0.90			20	1	29	C	30							
PC/MON08/RECEPT		0.40		0.40	20	1	31	A	32							SPARE
PC				0.60	20	1	33	B	34	3	20					
HEADWALL RECEPT		1.10			20	1	35	C	36							
HEADWALL RECEPT		1.10			20	1	37	A	38							SPARE
HEADWALL RECEPT		1.10			20	1	39	B	40	3	20					
HEADWALL RECEPT		0.40			20	1	41	C	42							
TOTALS ---------->	3.20	11.92	0.48	1.60								1.60	11.48	0.00	1.00	<--------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 6.00 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 16.70 KVA
TOTAL NONCONTINUOUS LOAD: 2.60 KVA
TOTAL MOTOR LOAD: 0.48 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD:	25.78 KVA	CONNECTED KVA TOTAL/PHASE	A	B	C	MINIMUM FEEDER CAPACITY:	25.78 KVA	31.01 AMP
			11.12	10.28	9.88			

(E) PANEL N1ZL1

SECTION	1 OF 1	BUS RATING:	225 AMP	THREE PHASE	VOLTAGE
SERVING	NORMAL	MAIN BREAKER:	175 AMP	4-WIRE	208Y/120
LOCATION:	ELEC RM 1P663A	MOUNTING:	FLUSH	X	MAIN LUGS ONLY
PANEL A.I.C.	EXISTING	X	SURFACE		FED-THRU LUGS

LOAD DESCRIPTION	KVA LOAD CONT.	KVA LOAD RECP.	KVA LOAD MOTOR	KVA LOAD NON	C. B. AMP	C. B. POLE	CKT #	PH	CKT #	C. B. POLE	C. B. AMP	KVA LOAD CONT.	KVA LOAD RECP.	KVA LOAD MOTOR	KVA LOAD NON	LOAD DESCRIPTION
RECEPT 1PN09, 1PN10 A/V RECEIVER		0.72	0.03		20	1	1	A	2	1	20		0.50			HEADWALL RECEPTACLE
RECEPT 1PN09, REFRIGERATOR		0.36	0.50		20	1	3	B	4	1	20		0.70			HEADWALL RECEPTACLE
RECEPT 1N09 MICROWAVE				1.50	20	1	5	C	6	1	20	1.90				RM 1P636 MRI POWER
SPARE					20	1	7	A	8	1	20		1.30			RECEPTACLE
RM 1P632 MRI POWER	**1.00**				**20**	**1**	**9**	B	10	1	20		0.70		0.10	RECEPTACLE/PC
HEADWALL RECEPTACLE		0.50			20	1	11	C	12	1	20				0.50	PROJECTOR
HEADWALL RECEPTACLE		0.50			20	1	13	A	14	1	20		0.20		0.40	RECEPTACLE/PC/PRT
ILLUMINATOR	0.30				20	1	15	B	16	1	20		0.70		0.50	RECEPT/PC/COPY/FAX/PRT
HEADWALL RECEPT/PC		0.70		0.10	20	1	17	C	18	1	20		0.90		0.10	RECEPTACLE/TV
HEADWALL RECEPTACLE		0.70			20	1	19	A	**20**	**1**	**20**		**1.44**			**RECEPTACLES 1P743**
RECEPTACLE		1.30			20	1	21	B	**22**	**1**	**20**		**1.44**			**RECEPTACLES 1P743**
RECEPTACLES 1P743		**1.08**			**20**	**1**	**23**	C	**24**	**1**	**20**		**1.44**			**RECEPTACLES 1P743**
RECEPTACLES 1P743		**1.26**			**20**	**1**	**25**	A	26	1	20		0.50		0.20	RECEPTACLE/DIGS01
RECEPTACLES 1P743		**1.08**			**20**	**1**	**27**	B	28	1	20		0.50		0.20	RECEPTACLE/DIGS01
RECEPTACLES 1P743		**0.72**			**20**	**1**	**29**	C	30	1	20		0.50		0.20	RECEPTACLE/DIGS01
PRINTER 1P748		1.44			20	1	31	A	32	1	20		0.70		0.20	RECEPTACLE/PC/PRT
SPARE					20	1	33	B	34	1	20	0.10			1.40	REF06/ILLUMD/CABW01
RECEPTACLE		1.30			20	1	35	C	36	1	20		1.10			RECEPTACLE
	2.80	7.62	0.00	0.70	-	-	37	A	38	1	20				1.00	CONTRAST MEDIA WARMER
PANEL N1ZL2	0.40	8.50	0.48	0.90	100	3	39	B	40	1	20	0.60				TASK
	1.60	7.28	0.00	1.00	-	-	41	C	42	1	20		1.10			RECEPTACLE
TOTALS ---------->	5.10	35.06	1.01	4.20								2.60	13.72	0.00	4.80	<--------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 10.88 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 29.39 KVA
TOTAL NONCONTINUOUS LOAD: 9.00 KVA
TOTAL MOTOR LOAD: 1.01 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD:	50.28 KVA	CONNECTED KVA TOTAL/PHASE	A	B	C	MINIMUM FEEDER CAPACITY	50.28 KVA	139.55 AMP
			22.21	21.76	23.52			

(E) PANEL N1ZH3

SECTION:	1 OF 1	BUS RATING:	100 AMP	THREE PHASE	VOLTAGE
SERVING:	NORMAL	MAIN BREAKER:		4-WIRE	480/277Y
LOCATION:	ELEC RM 1P663A	MOUNTING:	FLUSH	X	MAIN LUGS ONLY
PANEL A.I.C.	EXISTING	X	SURFACE		FED-THRU LUGS

LOAD DESCRIPTION	KVA LOAD CONT.	KVA LOAD RECP.	KVA LOAD MOTOR	KVA LOAD NON	C. B. AMP	C. B. POLE	CKT #	PH	CKT #	C. B. POLE	C. B. AMP	KVA LOAD CONT.	KVA LOAD RECP.	KVA LOAD MOTOR	KVA LOAD NON	LOAD DESCRIPTION
RADIOLOGY	**2.00**				**20**	**1**	**1**	A	**2**	**1**	**20**	**2.12**				**CORRIDOR/CONTROL RM 1P740/748**
CORRIDOR	1.94				20	1	3	B	4	1	20	2.60				GNRL X-RAY
RADIOLOGY	**1.23**				**20**	**1**	**5**	C	6	1	20	1.60				CT SCANNING
RADIOLOGY/READ 1P743/AREA 740B	**1.24**				**20**	**1**	**7**	A	8	1	20	0.50				CORRIDOR
WAITING	0.80				20	1	9	B	10	1	20	0.70				LIGHTING 1PN02, 03, 05, 07
CORRIDOR	2.20				20	1	11	C	12	1	20	1.10				RADIOLOGY
CORRIDOR	1.40				20	1	13	A	14	1	20	2.40				RADIOLOGY
CORRIDOR	1.00				20	1	15	B	16	1	20	2.00				CATH LAB
MAIN CORRIDOR	2.20				20	1	17	C	18	1	20	2.20				CATH LAB
EKG	2.20				20	1	19	A	20	1	20	0.90				CONTROL ROOM CATH LAB
SPARE					20	1	21	B	22	1	20					SPARE
SPARE					20	1	23	C	24	1	20					SPARE
SPACE						1	25	A	26	1						SPACE
SPACE						1	27	B	28	1						SPACE
SPACE						1	29	C	30	1						SPACE
SPACE						1	31	A	32	1						SPACE
SPACE						1	33	B	34	1						SPACE
SPACE						1	35	C	36	1						SPACE
SPACE						1	37	A	38	1						SPACE
SPACE						1	39	B	40	1						SPACE
SPACE						1	41	C	42	1						SPACE
TOTALS ---------->	16.22	0.00	0.00	0.00								16.12	0.00	0.00	0.00	<--------- TOTALS

TOTAL CONTINUOUS LOAD @ 125%: 40.42 KVA
TOTAL RECEPTACLE LOAD, 100% FOR FIRST 10KVA, & 50% FOR REMAINDER: 0.00 KVA
TOTAL NONCONTINUOUS LOAD: 0.00 KVA
TOTAL MOTOR LOAD: 0.00 KVA
LARGEST MOTOR @ 25%: 0 KVA 0.00 KVA

TOTAL DEMAND LOAD:	40.42 KVA	CONNECTED KVA TOTAL/PHASE	A	B	C	MINIMUM FEEDER CAPACITY:	40.42 KVA	48.62 AMP
			12.77	9.04	10.53			

PANEL NUMBERED NOTES

(1) CONNECT TO (E) 20A/1P SPARE CIRCUIT BREAKER.

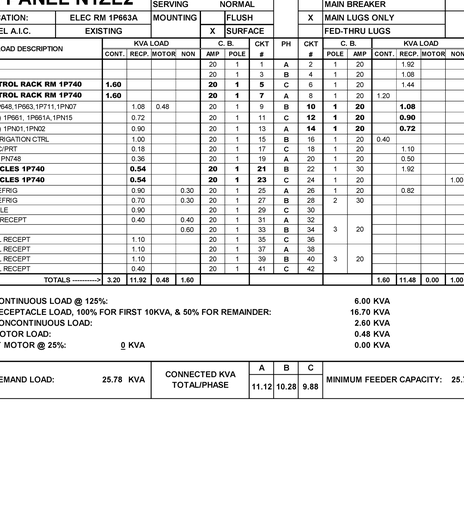
PANEL SCHEDULE NOTES

1. ALL CIRCUITS INDICATED "LIGHT" ON PANEL SCHEDULES ARE EXISTING TO REMAIN AND HAVE NOT BEEN MODIFIED AS PART OF THIS PROJECT.
2. ALL CIRCUITS INDICATED "BOLD" ON PANEL SCHEDULES HAVE BEEN MODIFIED, ALTERED, OR ADDED AS PART OF THIS PROJECT.
3. PROVIDE UPDATED 'TYPEWRITTEN' PANEL INDEX. PANEL INDEX SHALL INCLUDE DATE APPLIED AND ALSO WHERE THE PANEL IS FED FROM.
4. PROVIDE BLANK COVER PLATES OVER ANY EXPOSED CIRCUIT BREAKER SPACE THAT IS EXPOSED.
5. UPON OPENING EXISTING PANELS, TURN ANY CIRCUIT BREAKERS WITH NO CONDUCTORS OR NOT CONNECTED TO A LOAD INTO THE "OFF" POSITION AND UPDATE PANEL SCHEDULE.

(FINAL) COORDINATION STUDY SHEET NOTES

1. THE COORDINATION STUDY WAS PERFORMED BASED ON THE EXISTING PROTECTIVE DEVICE INDICATED ON THE ONE-LINE DIAGRAM (SHEET E-301 AND/OR PANEL SCHEDULES (SHEET E-401). THE OVER-CURRENT PROTECTIVE DEVICE (OCPD) COMBINATIONS HAVE BEEN EVALUATED AND DETERMINED THAT IT MEETS THE COORDINATION LEVEL REQUIRED BY CEC 517.31(G) / 700.32 / 701.32 / 620.62 / 695.3(C)(3) / 708.54.
2. WHERE AN EXISTING SPARE OVER-CURRENT PROTECTION DEVICE (OCPD) IS INDICATED TO BE REUSED (AND A COORDINATION STUDY WAS PROVIDED) IS NO LONGER AVAILABLE OR IS DETERMINED TO BE FAULTY, THE CONTRACTOR SHALL PROVIDE A NEW OCPD OF THE SAME TYPE AND PART NUMBER AS SHOWN ON THE TCC. IF THE REPLACEMENT DEVICE IS OF A DIFFERENT PART NUMBER, THE CONTRACTOR SHALL PROVIDE A FINAL COORDINATION STUDY SHOWING THAT THE DEVICE IS COORDINATED WITH THE UPSTREAM AND DOWNSTREAM OCPD AS A DEFERRED APPROVAL SUBMITTAL.
3. WHERE A NEW OVER-CURRENT PROTECTION DEVICE (OCPD) MODEL IS INDICATED ON THE ELECTRICAL DRAWINGS, THE CONTRACTOR SHALL FURNISH THE SPECIFIED PRODUCT. IF AN OCPD WAS SUBSTITUTED, THE CONTRACTOR SHALL INDICATE THE SUBSTITUTION ON THE SUBMITTAL. THE SUBMITTAL SHALL CLEARLY IDENTIFY THE SPECIFIED AND THE SUBSTITUTED OCPD. THE CONTRACTOR SHALL PROVIDE AN UPDATED TCC SHOWING THAT THE SUBSTITUTED OCPD COORDINATES WITH THE UPSTREAM AND DOWNSTREAM OCPD AS PART OF THE SUBMITTAL. THE ARCHITECT AND EEOR SHALL BE INFORMED OF THE SUBSTITUTION IN A TIMELY MANNER PRIOR TO THE START OF CONSTRUCTION.

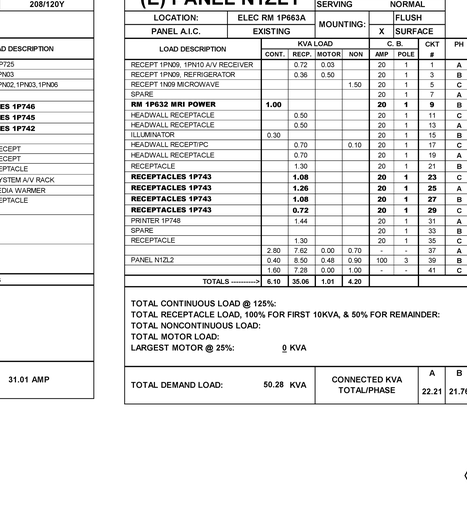
CURRENT IN AMPERES X 10 AT 208 VOLTS



Edge Electrical Consulting	*EasyPower*® TIME-CURRENT CURVES	TCC-3
		FAULT: N/A DATE: 8/14/2024 BY: VINCENT REVISION: 0

K044 ONELINE1 PIN70

CURRENT IN AMPERES X 10 AT 208 VOLTS



Edge Electrical Consulting	*EasyPower*® TIME-CURRENT CURVES	TCC-2
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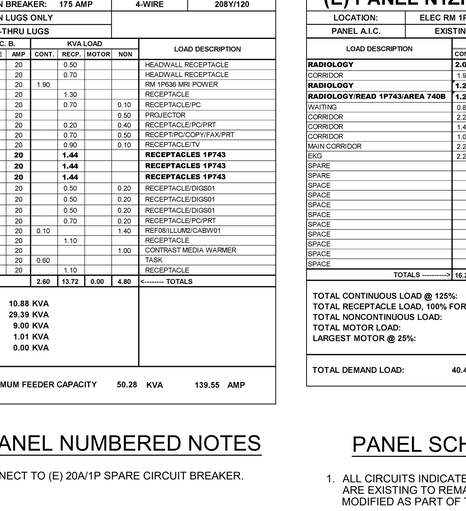
K044 ONELINE1 PIN70

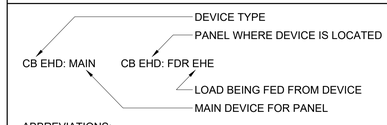
CURRENT IN AMPERES X 10 AT 208 VOLTS



Edge Electrical Consulting	*EasyPower*® TIME-CURRENT CURVES	TCC-1
		FAULT: N/A DATE: 7/31/2024 BY: VINCENT REVISION: 0

K044 ONELINE1 PIN70

TIME CURRENT CURVE - CIRCUIT BREAKER NAMING CONVENTION:



ABBREVIATIONS:

CB:	CIRCUIT BREAKER
EB:	ENCLOSED CIRCUIT BREAKER
F:	FUSE
MAIN:	MAIN DEVICE
FDR:	FEEDER DEVICE
BRANCH:	BRANCH DEVICE

SAMPLE:
'CB EQ2ZL1: FDR T-EQ2Z1' - CIRCUIT BREAKER LOCATED IN PANEL EQ2ZL1 AND FEEDING EQUIPMENT/PANEL EQ2ZH3.

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S2412219-34-00
Ray Sanchez

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LICENSED ARCHITECT — JOHN M. NACHT — No. C-21049 — EXP. 12-31-25 — STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
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EDGE
Project Number: KD44
Contact: JOHNNY
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Sacramento, CA 95811
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LICENSED ELECTRICAL ENGINEER — No. E 018416 — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ARCHITECT NO.: 9557740
COMPANY NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PANEL SCHEDULES & COORDINATION STUDY

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	E4.02
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: J. Luong	DATE: -	
DRAWN BY: J. Luong	CAD FILE: -	SHEET / OF

ELECTRICAL NOTES

1. All wires specified shall be copper stranded, flexible, thermo-plastic, color coded, cut 10 foot long at outlet boxes, duct termination points or stubbed conduit ends. All conductors, power, signal and ground, must be run in a conduit or duct system. Electrical contractor shall ring out and tag all wires at both ends. Wire runs must be continuous copper stranded and free from splices.
   1.1. Aluminum or solid wires are not allowed.
2. Wire sizes given are for use of equipment. Larger sizes may be required by local codes.
3. It is recommended that all wires be color coded, as required in accordance with national and local electrical codes.
4. Conduit sizes shall be verified by the architect, electrical engineer or contractor, in accordance with local or national codes.
5. Convenience outlets are not illustrated. Their number and location are to be specified by others. Locate at least one convenience outlet close to the system control, the power distritbution unit and one on each wall of the procedure room. Use hospital approved outlet or equivalent.
6. General room illumination is not illustrated. Caution should be taken to avoid excessive heat from overhead spotlights. Damage can occur to ceiling mounting components and wiring if high wattage bulbs are used. Recommend low wattage bulbs no higher than 75 watts and use dimmer controls (except MR). Do not mount lights directly above areas where ceiling mounted accessories will be parked.
7. Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).
8. Conduit turns to have large, sweeping bends with minimum radius in accordance with national and local electrical codes.
9. A special grounding system is required in all procedure rooms by some national and local codes. It is recommended in areas where patients might be examined or treated under present, future, or emergency conditions. Consult the governing electrical code and confer with appropriate customer administrative personnel to determine the areas requiring this type of grounding system.
10. The maximum point to point distances illustrated on this drawing must not be exceeded.
11. Physical connection of primary power to GE equipment is to be made by customers electrical contractor with the supervision of a GE representative. The GE representative would be required to identify the physical connection location, and insure proper handling of GE equipment.
12. GEHC conducts power audits to verify quality of power being delivered to the system. The customer's electrical contractor is required to be available to support this activity.

- All junction boxes, conduit, duct, duct dividers, switches, circuit breakers, cable tray, etc., are to be supplied and installed by customers electrical contractor.
- Conduit and duct runs shall have sweep radius bends
- Conduits and duct above ceiling or below finished floor must be installed as near to ceiling or floor as possible to reduce run length.
- Ceiling mounted junction boxes illustrated on this plan must be installed flush with finished ceiling.
- All ductwork must meet the following requirements:
  1.Ductwork shall be metal with dividers and have removable, accessible covers.
  2.Ductwork shall be certified/rated for electrical power purposes.
  3.Ductwork shall be electrically and mechanically bonded together in an approved manner.
  4.PVC as a substitute must be used in accordance with all local and national codes.
- All openings in raceway and access flooring are to be cut out and finished off with grommet material by the contractor.
- General contractor to insert pull cords for all cable run conduits between the equipment room and the operators control room.
- 10 foot pigtails at all junction points.
- Grounding is critical to equipment function and patient safety. Site must conform to wiring specifications shown on this plan.

CONNECTIVITY REQUIREMENTS

Your new GE Healthcare imaging modality will require local and remote connectivity to enable our full range of digital support:

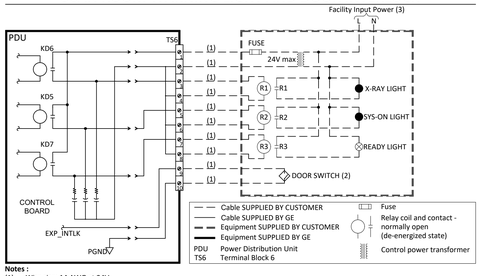
- Local connectivity - This allows your system to connect to local devices such as PACS and modality worklist. We will require network information to configure the system(s), and a live ethernet port(s) prior to the delivery of the system(s).
- Remote connectivity - Your GE Healthcare service warranty includes InSite™ (applicable to InSite capable products), a powerful broadband-based service which enables digital tools that can help guard your hospital against equipment downtime and revenue loss by quickly connecting you to a GE Healthcare expert.

Depending on product family and software version, imaging systems can be connected in one of the following methods:

1. TLS over TCP Port 443 (Preferred method for new products) via:
   a. DNS resolution
   b. Customer-provided Proxy or
   c. GE Proxy (Available in some regions)
2. Site-to-Site IPsec VPN tunnel

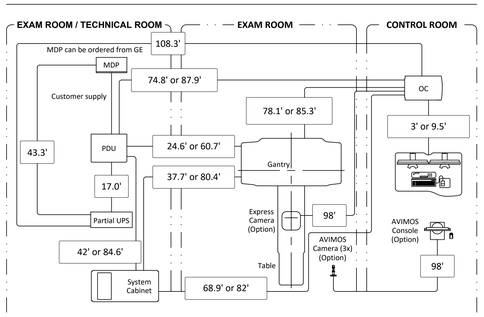
Please provide the GE project manager with the contact information for the resource that can provide information required to set up these connections. GEHC will send out communication to these contacts, which will include the project's Connectivity requirements, and a Connectivity form. This form will need to be completed and returned to GEHC prior to delivery of the system to ensure the system is tested and connectivity is enabled prior to the completion of the installation.

SCAN ROOM WARNING LIGHT AND DOOR INTERLOCK



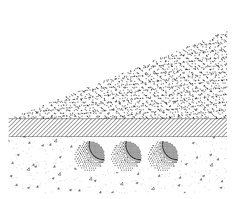
Notes :
(1) Wire size: 14 AWG at 24V
(2) Door Interlock circuit is jumpered out if a door switch is not provided.
(3) Grounding not shown on the detail, but must comply with local codes.

INTERCONNECTIONS

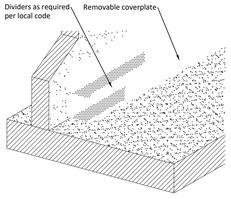


TYPICAL CABLE MANAGEMENT

CONDUIT IN THE FLOOR



DUCT ON THE WALL



NOT TO SCALE

POWER REQUIREMENTS

POWER SUPPLY	**3 PHASES+G (4-Wire system, neutral not used) 380/400/420/440/460/480 V ± 10%**
FREQUENCIES	**50/60 Hz ± 3Hz**
MAXIMUM POWER DEMAND	**200 kVA**
AVERAGE (CONTINUOUS) POWER DEMAND	**11 kVA**
POWER FACTOR	**0.85**

- Power supply should come into a main disconnect panel (MDP) containing the protective units and controls.
- The section of the supply cable should be calculated in accordance with its length and the maximum permissible voltage drops.
- There must be discrimination between supply cable protective device at the beginning of the installation (main low-voltage transformer side) and the protective devices in the MDP.

SUPPLY CHARACTERISTICS

- Power input must be separate from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers...).
- All equipment (lighting, power outlets, etc...) installed with GE system components must be powered separately.
- Phase imbalance 2% maximum.
- Transients must be less than 1500V peak. (on a 400V line)
- Maximum source regulation allowable is 6%. The combination of daily voltage variation (no load) and source regulation under full load shall not exceed + 10/-13% of nominal.

GROUND SYSTEM

- System of equipotential grounding.
- Equipotential: The equipotential link will be by means of an equipotential bar. This equipotential bar should be connected to the protective earth conductors in the ducts of the non GE cableways and to additional equipotential connections linking up all the conducting units in the rooms where GE system units are located.

CABLES

- Power and cable installation must comply with the distribution diagram.
- All cables must be isolated and flexible, cable color codes must comply with standards for electrical installation.
- The cables from signaling and remote control (Y, SEO, L...) will go to MDP with a pigtail length of 1.5m, and will be connected during installation. Each conductor will be identified and isolated (screw connector).

CABLEWAYS

The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to:

- Protecting cables against water (cableways should be waterproof).
- Protecting cables against abnormal temperatures (proximity to heating pipes or ducts).
- Protecting cables against temperature shocks.
- Replacing cables (cableways should be large enough for cables to be replaced).
- Metal cableways should be grounded.

POWER DISTRIBUTION

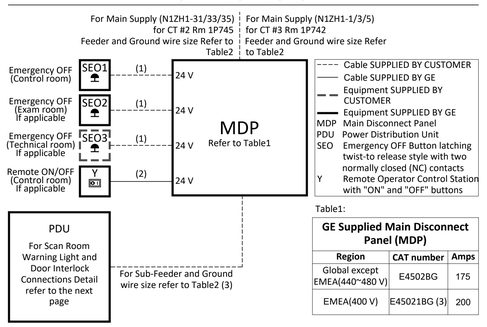


Table1:

GE Supplied Main Disconnect Panel (MDP)

Region	CAT number	Amps
Global except EMEA(440~480 V)	E4502BG	175
EMEA(400 V)	E45021BG (3)	200

Table2:

Feeder Table

The information below assumes the use of copper wire, rated 75 C and run in steel conduit. All ampacity is determined in accordance with the National Electrical Code (NFPA 70), Table 310-16 (2002). The ampacity of the circuit protection device listed above determines the minimum feeder size, except where total source regulation limits require a larger size. If the wire size does not match the above lists, please select the nearest wire size as per to local standards.

Feeder length from Power Substation to MDP - ft	Minimum Wire Size, AWG or MCM (mm²)/VAC					
	380 VAC	400 VAC	420 VAC	440 VAC	460 VAC	480 VAC
Sub-Feeder length from MDP to PDU - ft						
50	3/0 (95)	3/0 (95)	3/0 (95)	2/0 (70)	2/0 (70)	2/0 (70)
Grounding						
Run a dedicated 1/0 [50 mm²] or larger insulated copper ground wire from the power source to the MDP and from MDP to the PDU. Run the ground wire in the same raceway with the three-phase wires.						

Notes :
(1) Wire size: 14AWG and 14AWG GND
(2) Power cable: 3 Meter/10', multi-conductor, 24V DC
(3) WIRE SIZE: (3) #2/0 AWG AND #2/0 AWG GND

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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600 Q Street, Suite 100
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DESIGN PROFESSIONALS OF RECORD:

REGISTERED ARCHITECT JOHN N FLATH No. C-31049 EXP. 12-31-25 STATE OF CALIFORNIA

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

REGISTERED PROFESSIONAL ENGINEER No. E 018418 ELECTRICAL STATE OF CALIFORNIA
08/20/2024

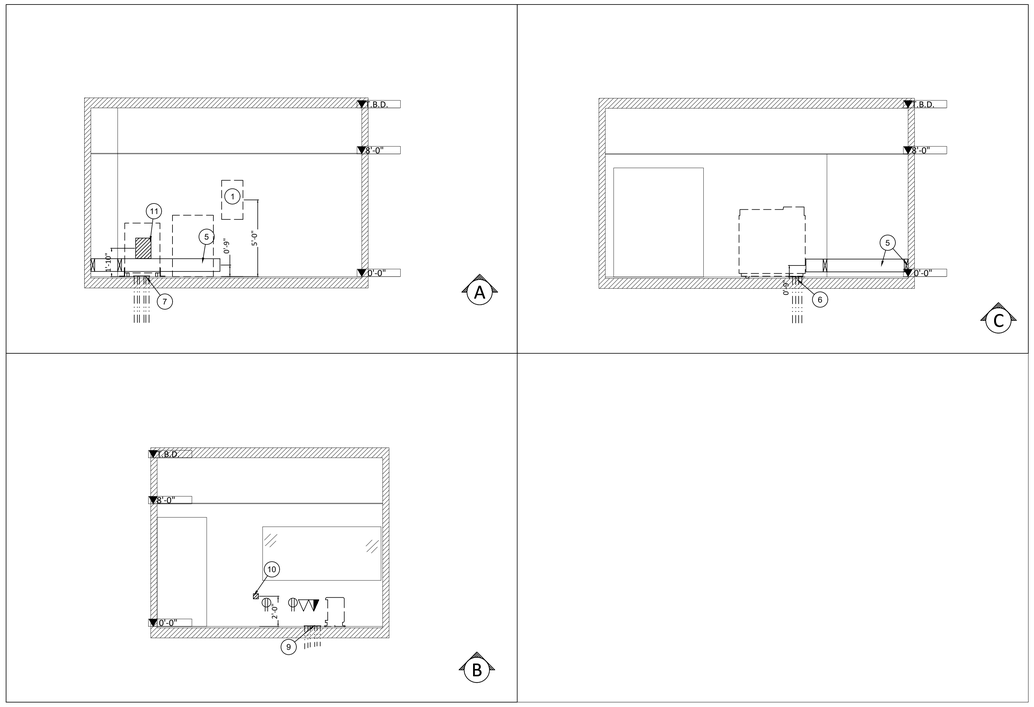
EDGE MEP/STRUCTURAL CONSULTING FIRM
Project Number KD44
Contact JOHNNY
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

REV	REVISION DESCRIPTION	DATE

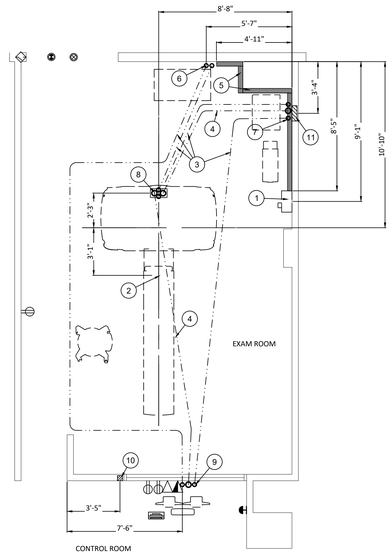
CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPD NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: GE VENDOR DRAWINGS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	-	E5.01	
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN		
DESIGNED BY: J. Luong	DATE: -		
DRAWN BY: J. Luong	CAD FILE: -	SHEET	OF



CT ROOM #2 - ELECTRICAL ELEVATION

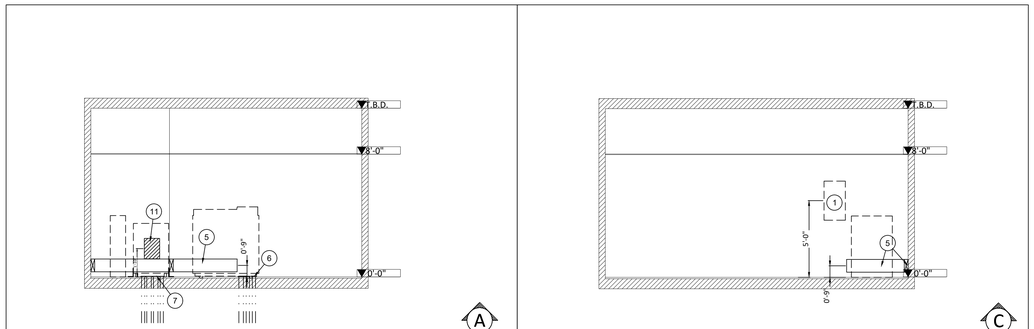


Item	Electrical Layout Item List
1	Main disconnect panel (MDP)
2	Cable inlet above ceiling (Express Camera)
3	2 1/2" conduit below floor
4	3 1/2" conduit below floor
5	10" x 3 1/2" surface wall duct with minimum 2 dividers
6	Suitable bushings & lock nuts (System Cabinet)
7	Suitable bushings & lock nuts (PDU)
8	Suitable bushings & lock nuts (Gantry)
9	Suitable bushings & lock nuts (Operator's Console)
10	4" x 4" x 4" box (Express Camera)
11	12" x 16" x 4" box (Power Distribution Unit)

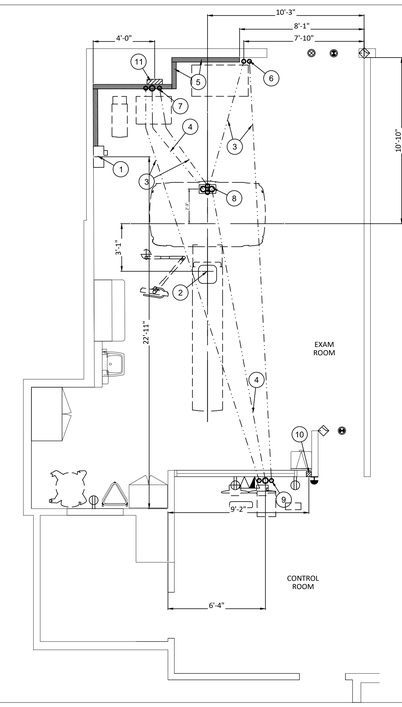
ITEM	QTY	Electrical Outlet Legend Customer/contractor supplied and installed items unless otherwise specified. Height above floor determined by local codes unless otherwise specified.
△		Dedicated telephone line(s)
◭		Network outlet
⏚		System emergency off (SEO), (recommended height 48" above floor)
⊗		X-Ray room warning light control panel
⊗		X-Ray ON lamp (L1) - 24V
◇		Door interlock switch (needed only if required by state/local codes)
⏚		Duplex hospital grade, dedicated wall outlet 120-v, single phase power

Cable Length Note:
Routing of cable ductwork, conduits, etc., **must run direct as possible** otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).

Additional Conduit Runs (Contractor Supplied and Installed)					
From (Bubble # / Item)	To (Bubble # / Item)		Qty	Size In.	Size mm
3 Phase Power	1	Main Disconnect Panel	1	2	As req'd
1 Main Disconnect Panel		Emergency Off	1	1/2	13
	11	Power Distribution Unit	1	2	As req'd
11 Power Distribution Unit		Door Switch	1	1/2	13
		Warning Light Control	1	1/2	13
Warning Light			1	1/2	13
1 Phase Power			1	1/2	13
2 Express Camera	10	Operator's Console	1	1 1/2	38
1 Main Disconnect Panel	6	Partial UPS	1	1 1/4	30
7 Power Distribution Unit			1	2	50
10 Operator's Console	8	Partial UPS	1	1	25



CT ROOM #3 - ELECTRICAL ELEVATION



Item	Electrical Layout Item List
1	Main disconnect panel (MDP)
2	Cable inlet above ceiling (Express Camera)
3	2 1/2" conduit below floor
4	3 1/2" conduit below floor
5	10" x 3 1/2" surface wall duct with minimum 2 dividers
6	Suitable bushings & lock nuts (System Cabinet)
7	Suitable bushings & lock nuts (PDU)
8	Suitable bushings & lock nuts (Gantry)
9	Suitable bushings & lock nuts (Operator's Console)
10	4" x 4" x 4" box (Express Camera)
11	12" x 16" x 4" box (Power Distribution Unit)

ITEM	QTY	Electrical Outlet Legend Customer/contractor supplied and installed items unless otherwise specified. Height above floor determined by local codes unless otherwise specified.
△		Dedicated telephone line(s)
◭		Network outlet
⏚		System emergency off (SEO), (recommended height 48" above floor)
⊗		X-Ray room warning light control panel
⊗		X-Ray ON lamp (L1) - 24V
◇		Door interlock switch (needed only if required by state/local codes)
⏚		Duplex hospital grade, dedicated wall outlet 120-v, single phase power

Cable Length Note:
Routing of cable ductwork, conduits, etc., **must run direct as possible** otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).

Additional Conduit Runs (Contractor Supplied and Installed)					
From (Bubble # / Item)	To (Bubble # / Item)		Qty	Size In.	Size mm
3 Phase Power	1	Main Disconnect Panel	1	2	As req'd
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11 Power Distribution Unit		Door Switch	1	1/2	13
		Warning Light Control	1	1/2	13
Warning Light			1	1/2	13
1 Phase Power			1	1/2	13
2 Express Camera	10	Operator's Console	1	1 1/2	38
1 Main Disconnect Panel	6	Partial UPS	1	1 1/4	30
7 Power Distribution Unit			1	2	50
10 Operator's Console	8	Partial UPS	1	1	25

CT ROOM #2 - ELECTRICAL LAYOUT

CT ROOM #3 - ELECTRICAL LAYOUT

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
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Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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LICENSED ARCHITECT JOHN N FLATH No. C-31049 EXP. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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EDGE
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LICENSED ENGINEER No. E 09648 ELECTRICAL STATE OF CALIFORNIA
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPH NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: GE VENDOR DRAWINGS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	E5.02
UCDHC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: J. Luong	DATE: -	
DRAWN BY: J. Luong	CAD FILE: -	SHEET / OF

CT SUITE EQUIPMENT SUPPLIED

Mark	Count	Description	Part No.	Scope of Work		Comments
				Provided by	Installed by	
Cat6	1	CAT-6 Wall Plate for PAD	1-06-000095	PDC	EC	Cat6 Faceplate for PAD
CIT	9	Ceiling Image Tile- (2x2 HD LED)	1-07-000322	PDC	EC	Backlit LED RGB Ceiling Image
LCR	1	Lighting Control Rack	1-06-000027	PDC	EC	RGB/12 Channel MZPS- Control Rack
LP6	9	LP6 Low Profile 6" Can Light w/ Spreader	1-07-000132	PDC	EC	Dimmable LED White Task Lighting- Smart Connect
LPD	2	Directional LED Can Light	1-07-000105	PDC	EC	Dimmable LED White Directional Lighting
SLF	2	Straight Cove Light Fixture	CUSTOM	PDC	EC	(3) Sections totalling 20'-0"

PDC = PDC Facilities, Inc. | GC = General Contractor | EC = Electrical Contractor | VEN = CT Scanner Vendor

ADDITIONAL EQUIPMENT

Mark	Count	Description	Part No.	Scope of Work		Comments
				Provided by	Installed by	
EO-e	1	115vac, 15A Emergency Duplex Outlet- LCR	N/A	EC	EC	Emergency Power for LCR
EO-q	1	115vac, 20A Quad Outlet for LCR	N/A	EC	EC	Power for LCR
EO-q	1	115vac, 20A Quad Outlet for PAD	N/A	EC	EC	Power for PAD
S-oo	1	ON/OFF Switch	N/A	EC	EC	Light Switch for White Lights in Scan Room

PDC = PDC Facilities, Inc. | GC = General Contractor | EC = Electrical Contractor | VEN = CT Scanner Vendor

Wire Schedule

Wire Group	Group Types	PDC Part #	Wire Designation	Conduit Size	Cable Ends	Provided by	Installed by	Termin. at device by	Wire Length
12VDC (D)	six (6) #12 AWG, cu		208A (RED), 209A (GREEN), 210A (BLUE), +12A, +12B, +12C	as per NEC		EC	EC	EC	as required
12VDC (E)	four (4) #12 AWG, cu		208A (RED), 209A (GREEN), 210A (BLUE), +12A	as per NEC		EC	EC	EC	as required
12VDC (F)	four (4) #12 AWG, cu		208A (RED), 209A (GREEN), 210A (BLUE), +12B	as per NEC		EC	EC	EC	as required
CAT-5 (B)	one (1) CAT-5 cable		Shielded Cat5e Ethernet Cable; RJ45/RJ45	as per NEC		EC	EC	EC	as required
CAT-6 (A)	one (1) CAT-6 cable		Shielded Cat6 Cable; RJ45/RJ45	as per NEC		EC	EC	EC	as required
ON/OFF	two (2) #18 AWG. cu		**Note:** Leviton 1081 Momentary Contact Switch or equivalent	as per NEC		EC	EC	EC	as required
115vac, 15A (power cord)	two (2) #18 AWG, cu & one (1) #18 AWG, cu gnd.	Varies	(Comes w/ CT Suite Equipment)	n/a		PDC	EC	EC	varies

PDC = PDC Facilities, Inc. | GC = General Contractor | EC = Electrical Contractor | VEN = CT Scanner Vendor

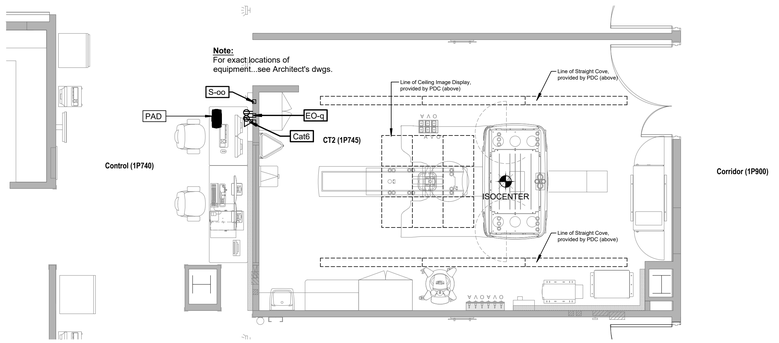
The PDC Facilities, Inc. provided cables are not plenum rated. The site architect or electrical contractor is responsible for determining if conduit must be utilized to meet local codes and regulations. Contact PDC immediately if any substitutions are required. The electrical contractor is responsible for determining if the wire types suggested by PDC Facilities, Inc. are sufficient to meet local codes & regulations. All electrical conduit & j-boxes are provided and installed by EC. When cabling the PDC equipment, the excess cable should be coiled in a figure eight, zip tied and stored. Do not route cables through cable exclusion areas.

1 CT SUITE EQUIPMENT COMPONENTS & WIRE SCHEDULE
NO SCALE

Mark	Count	Description	PDC Part No.	Scope of Work	
				Provided by	Installed by
Cat6	1	CAT-6 Wall Plate for PAD	1-06-000095	PDC	EC
EO-q	1	115vac, 20A Quad Outlet for PAD	N/A	EC	EC

Mark	Count	Description	PDC Part No.	Scope of Work	
				Provided by	Installed by
PAD	1	Technologist Suite Controls	1-06-000102	PDC	PDC
S-oo	1	ON/OFF Switch	N/A	EC	EC

PDC = PDC Facilities, Inc. | GC = General Contractor | EC = Electrical Contractor | VEN = CT Scanner Vendor

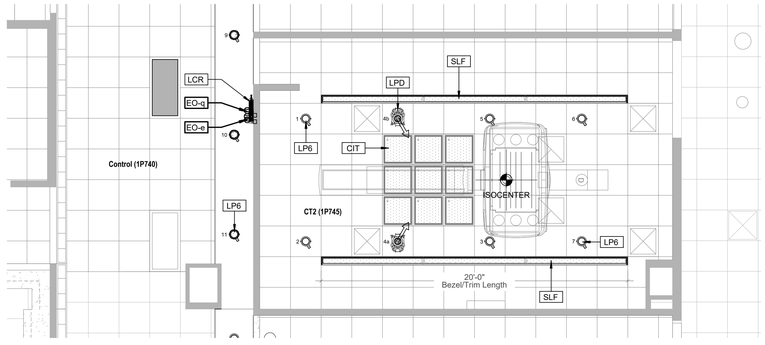


2 FLOOR PLAN - CT ROOM #2
1/4" = 1'-0"

Mark	Count	Description	PDC Part No.	Scope of Work	
				Provided by	Installed by
CIT	9	Ceiling Image Tile- (2x2 HD LED)	1-07-000322	PDC	EC
EO-e	1	115vac, 15A Emergency Duplex Outlet- LCR	N/A	EC	EC
EO-q	1	115vac, 20A Quad Outlet for LCR	N/A	EC	EC

Mark	Count	Description	PDC Part No.	Scope of Work	
				Provided by	Installed by
LCR	1	Lighting Control Rack	1-06-000027	PDC	EC
LP6	9	LP6 Low Profile 6" Can Light w/ Spreader	1-07-000132	PDC	EC
LPD	2	Directional LED Can Light	1-07-000105	PDC	EC
SLF	2	Straight Cove Light Fixture	CUSTOM	PDC	EC

PDC = PDC Facilities, Inc. | GC = General Contractor | EC = Electrical Contractor | VEN = CT Scanner Vendor



3 REFLECTED CEILING PLAN - CT ROOM #2
1/4" = 1'-0"

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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916.329.4000

LICENSED ARCHITECT JOHN M FLATH No. C-31049 REN: 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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EDGE
Project Number KD44
Contact JOHNNY
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Sacramento | Alameda | Irvine

LICENSED ARCHITECT JOHN M FLATH No. C-31049 REN: 12-31-25 STATE OF CALIFORNIA
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPD NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PDC LIGHTING VENDOR DRAWINGS - CT ROOM #2

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	-	E6.01	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	AS SHOWN		
DESIGNED BY	DATE		
J. Luong	-		
DRAWN BY	CAD FILE	SHEET	OF
J. Luong	-		

CT SUITE EQUIPMENT SUPPLIED

Mark	Count	Description	Part No.	Scope of Work: Provided by	Scope of Work: Installed by	Comments
Cat6	1	CAT-6 Wall Plate for PAD	1-06-000095	PDC	EC	Cat6 Faceplate for PAD
CIT	9	Ceiling Image Tile- (2x2 HD LED)	1-07-000322	PDC	EC	Backlit LED RGB Ceiling Image
LCR	1	Lighting Control Rack	1-06-000027	PDC	EC	RGB/12 Channel MZPS- Control Rack
LP6	11	LP6 Low Profile 6" Can Light w/ Spreader	1-07-000132	PDC	EC	Dimmable LED White Task Lighting- Smart Connect
LPD	2	Directional LED Can Light	1-07-000105	PDC	EC	Dimmable LED White Directional Lighting
PAD	1	Technologist Suite Controls	1-06-000102	PDC	PDC	PDC Main Control Room Connection Point
SLF	2	Straight Cove Light Fixture	CUSTOM	PDC	EC	(3) Sections totalling 20'-0"

PDC = PDC Facilities, Inc. | GC = General Contractor | EC = Electrical Contractor | VEN = CT Scanner Vendor

ADDITIONAL EQUIPMENT

Mark	Count	Description	Part No.	Scope of Work: Provided by	Scope of Work: Installed by	Comments
EO-e	1	115vac, 15A Emergency Duplex Outlet- LCR	N/A	EC	EC	Emergency Power for LCR
EO-q	1	115vac, 20A Quad Outlet for LCR	N/A	EC	EC	Power for LCR
EO-q	1	115vac, 20A Quad Outlet for PAD	N/A	EC	EC	Power for PAD
S-oo	1	ON/OFF Switch	N/A	EC	EC	Light Switch for White Lights in Scan Room

PDC = PDC Facilities, Inc. | GC = General Contractor | EC = Electrical Contractor | VEN = CT Scanner Vendor

Wire Schedule

Wire Group	Group Types	PDC Part #	Wire Designation	Conduit Size	Cable Ends	Provided by	Installed by	Termin. at device by	Wire Length
12VDC (D)	six (6) #12 AWG, cu		208A (RED), 209A (GREEN), 210A (BLUE), +12A, +12B, +12C	as per NEC		EC	EC	EC	as required
12VDC (E)	four (4) #12 AWG, cu		208A (RED), 209A (GREEN), 210A (BLUE), +12A	as per NEC		EC	EC	EC	as required
12VDC (F)	four (4) #12 AWG, cu		208A (RED), 209A (GREEN), 210A (BLUE), +12B	as per NEC		EC	EC	EC	as required
CAT-5 (B)	one (1) CAT-5 cable		Shielded Cat5e Ethernet Cable; RJ45/RJ45	as per NEC		EC	EC	EC	as required
CAT-6 (A)	one (1) CAT-6 cable		Shielded Cat6 Cable; RJ45/RJ45	as per NEC		EC	EC	EC	as required
ON/OFF	two (2) #18 AWG. cu		**Note:** Leviton 1081 Momentary Contact Switch or equivalent	as per NEC		EC	EC	EC	as required
115vac, 15A (power cord)	two (2) #18 AWG, cu & one (1) #18 AWG, cu gnd.	Varies	(Comes w/ CT Suite Equipment)	n/a		PDC	EC	EC	varies

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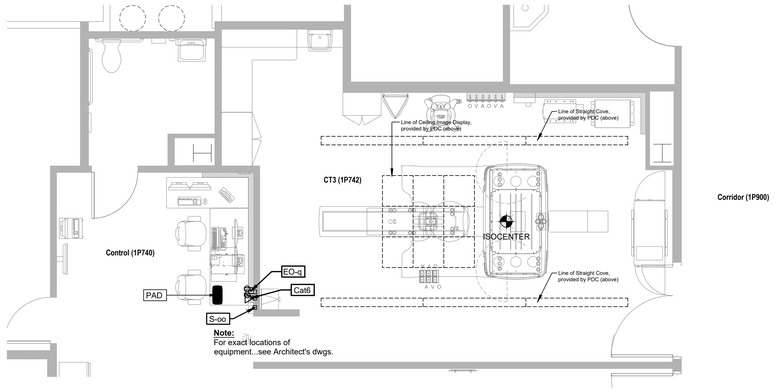
1 CT SUITE EQUIPMENT COMPONENTS & WIRE SCHEDULE
NO SCALE

Mark	Count	Description	PDC Part No.	Scope of Work: Provided by	Scope of Work: Installed by
Cat6	1	CAT-6 Wall Plate for PAD	1-06-000095	PDC	EC
EO-q	1	115vac, 20A Quad Outlet for PAD	N/A	EC	EC

Mark	Count	Description	PDC Part No.	Scope of Work: Provided by	Scope of Work: Installed by
PAD	1	Technologist Suite Controls	1-06-000102	PDC	PDC
S-oo	1	ON/OFF Switch	N/A	EC	EC

PDC = PDC Facilities, Inc. | GC = General Contractor | EC = Electrical Contractor | VEN = CT Scanner Vendor

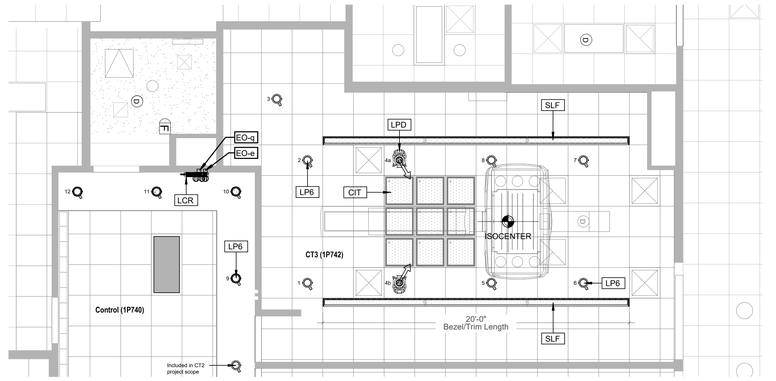


2 FLOOR PLAN - CT ROOM #3
1/4" = 1'-0"

Mark	Count	Description	PDC Part No.	Scope of Work: Provided by	Scope of Work: Installed by
CIT	9	Ceiling Image Tile- (2x2 HD LED)	1-07-000322	PDC	EC
EO-e	1	115vac, 15A Emergency Duplex Outlet- LCR	N/A	EC	EC
EO-q	1	115vac, 20A Quad Outlet for LCR	N/A	EC	EC

Mark	Count	Description	PDC Part No.	Scope of Work: Provided by	Scope of Work: Installed by
LCR	1	Lighting Control Rack	1-06-000027	PDC	EC
LP6	11	LP6 Low Profile 6" Can Light w/ Spreader	1-07-000132	PDC	EC
LPD	2	Directional LED Can Light	1-07-000105	PDC	EC
SLF	2	Straight Cove Light Fixture	CUSTOM	PDC	EC

PDC = PDC Facilities, Inc. | GC = General Contractor | EC = Electrical Contractor | VEN = CT Scanner Vendor



3 REFLECTED CEILING PLAN - CT ROOM #3
1/4" = 1'-0"

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

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REGISTERED ARCHITECT JOHN M. FLATH No. C-31169 EXP. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

EDGE
Project Number: K044
Contact: JOHNNY
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

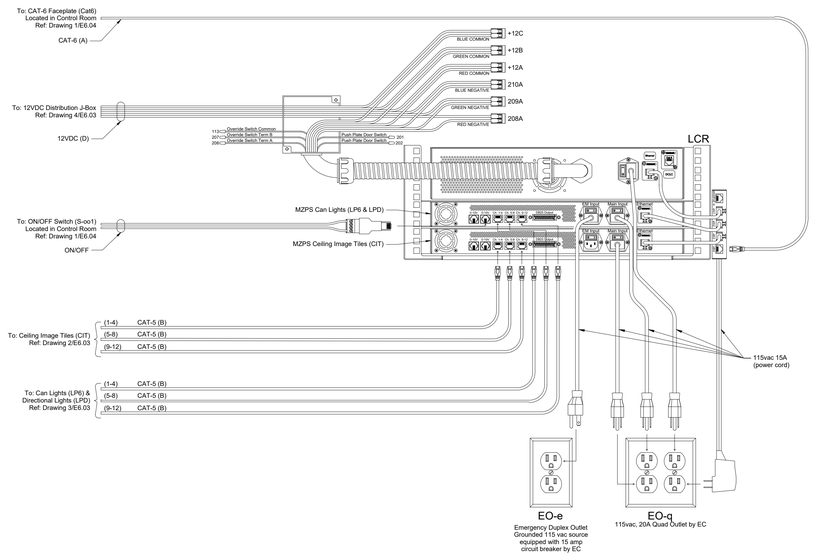
REGISTERED ELECTRICAL ENGINEER No. E 018418 STATE OF CALIFORNIA
08/20/2024

REV	REVISION DESCRIPTION	DATE

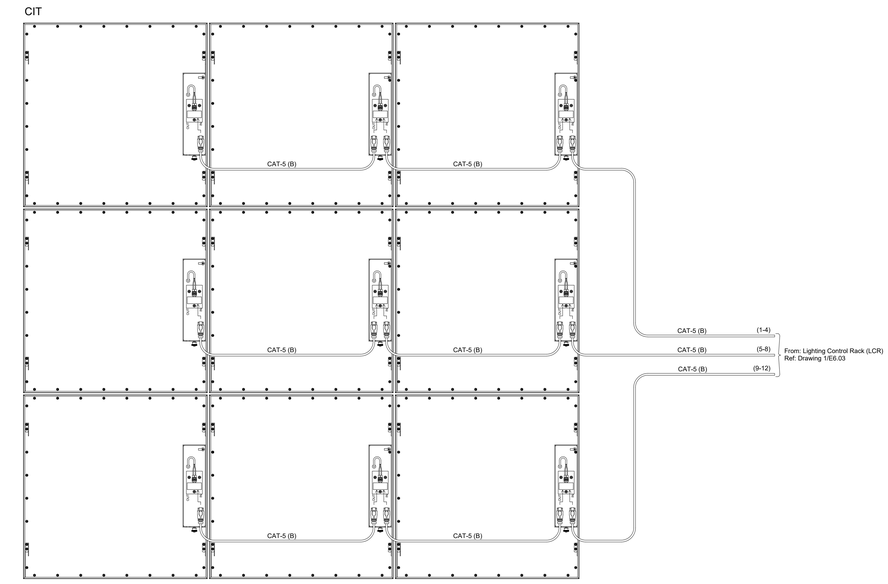
CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPH NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PDC LIGHTING VENDOR DRAWINGS - CT ROOM #3

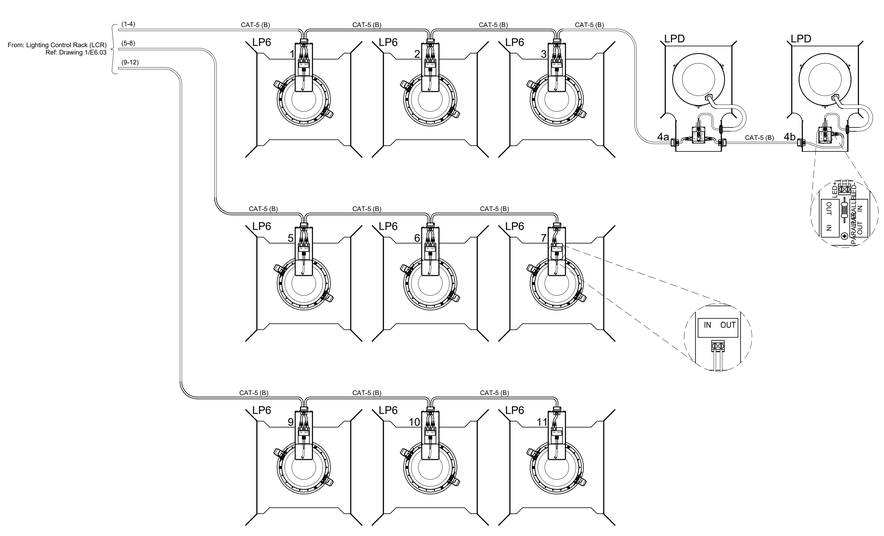
ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	-	E6.02	
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN		
DESIGNED BY: J. Luong	DATE: -		
DRAWN BY: J. Luong	CAD FILE: -	SHEET	OF



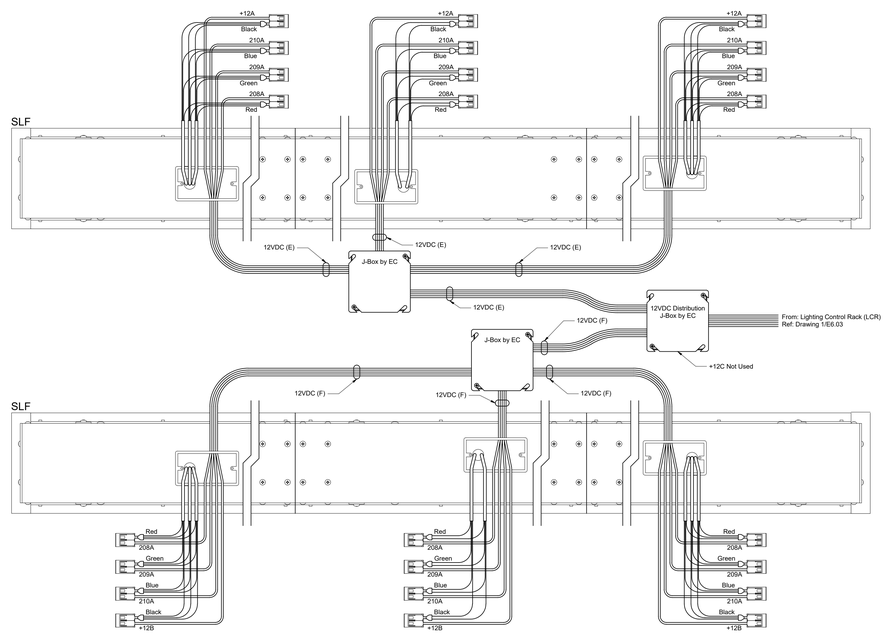
1 CONTROL ROOM - LCR EO-q EO-e
NO SCALE



2 SCAN ROOM - CIT
NO SCALE



3 SCAN ROOM - LP6 LPD
NO SCALE



4 SCAN ROOM - SLF
NO SCALE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
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Ray Sanchez

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Sacramento | Alameda | Irvine

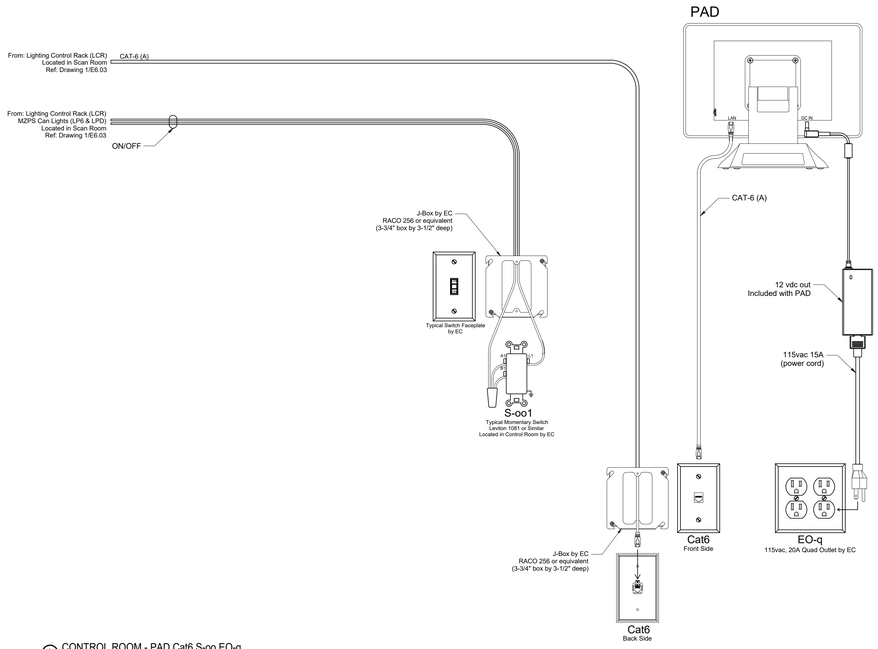
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPH NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PDC LIGHTING VENDOR DRAWINGS - DETAILS

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	-	E6.03	
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN		
DESIGNED BY: J. Luong	DATE: -		
DRAWN BY: J. Luong	CAD FILE: -	SHEET	OF



1 CONTROL ROOM - PAD Cat6 S-oo EO-q
NO SCALE

REVIEWED IN ACCORDANCE WITH
THE REQUIREMENTS OF T24, CCR
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Office of Statewide Hospital Planning & Development
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LICENSED ARCHITECT
JOHN M. FLATH
No. C-21049
EXP. 12-31-25
STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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EDGE
Project Number KD44
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LICENSED ELECTRICAL ENGINEER
No. E 018418
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPD NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: PDC LIGHTING VENDOR DRAWINGS - DETAILS

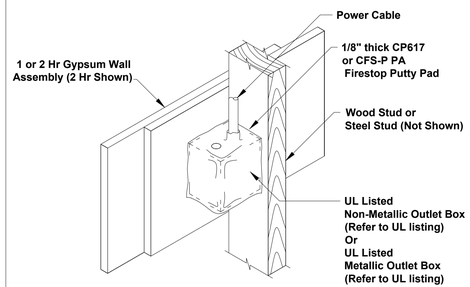
ARCH.\ENGR. J. Flath	FD&C JOB NO. -	SHEET NO.	
UCDMC PROJECT MANAGER Z. Price	SCALE AS SHOWN	E6.04	
DESIGNED BY J. Luong	DATE -		
DRAWN BY J. Luong	CAD FILE -	SHEET	OF

CLASSIFIED C UL US

Classified by Underwriters Laboratories, Inc. to UL 263 and CAN/ULC-S101

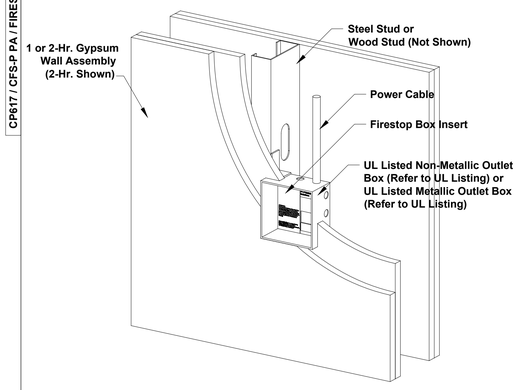
Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT



Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT



Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT

CP 617 or CFS-P PA Firestop Putty Pads, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies as specified below. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back (unless otherwise indicated). Installation shall comply with the National Electrical Code (NFPA 70). Min 1/8 in. thick (CP 617) or min 0.2 in. (CFS-P PA) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and conduit fittings/connectors and to completely seal against the stud and gypsum board in the wall cavity unless otherwise noted below. When CFS-P PA is used, the putty pads may be installed with the release liner intact on the outside of the pad with the exception of any overlaps, in which case the liner is to be removed from the bottom layer at the overlap location. The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are specified below.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in., or max 4-3/8 by 4-7/8 by max 2-1/8 in., flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 hr fire rated V446 gypsum board/steel stud or U341 gypsum board/wood stud Wall and Partition Design No. in the Fire Resistance Directory. When U341 wall design is used, wall shall be sheathed with 5/8 in. gypsum board, and glass or mineral fiber batt insulation shall be installed in stud cavities in accordance with U341 design. Boxes may be installed back-to-back.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 and 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Min 0.8 pcf density fiberglass batt insulation is to be installed within the wall cavity required for 1 hr fire rated gypsum board wall assemblies and optional in 2 hr fire rated gypsum wallboard assemblies.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 by 2-7/8 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made from polyvinyl chloride, and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in the 1 hr fire rated V446 gypsum board/steel stud or U341 gypsum board/wood stud Wall and Partition Design in the Fire Resistance Directory. When U341 wall design is used, wall shall be sheathed with 5/8 in. gypsum board, and glass or mineral fiber batt insulation shall be installed in stud cavities in accordance with U341 design. Outlet box secured to steel stud by means of fastening tab supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates. Boxes may be installed back to back.

CP 617 Firestop Putty Pads, for use with max 2-1/4 by 3-3/4 by 2-3/4 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Pass and Seymore, Inc., and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 and 2 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box.Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with steel or plastic cover plates.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Allied Molded Products, Inc., made from fiber reinforced thermoplastic and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classification for Fire Resistance" category in the Fire Resistance Directory. Putty pads and boxes for use in 1 hr fire rated gypsum wallboard assemblies, framed with min 3-1/2 in. deep wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet box secured to wood stud by means of two nailing tabs supplied with the outlet box. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. Outlet boxes installed with plastic cover plates.

Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4 by 4 in. by 1-1/2 in. deep flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 hr. fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. The boxes are installed back to back with 5 in. by 4 in. UL Classified fire block, CP 657 or CFS-BL Firestop Block installed in the cavity between the two boxes.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 14 by 4 by max 2-1/2 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 1 and 2 hr. fire rated gypsum board wall assemblies framed with min 5-1/2 in. deep wood or steel studs for 2 hr fire rated walls and min 3-1/2 in. deep wood or steel studs for 1 hr fire rated walls. Walls constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Stud cavity insulation is required and shall consist of min 5-1/2 in. (2 hr rated walls) or min 3-1/2 in. (1 hr rated walls) thick fiberglass (min 0.8 pcf) or mineral fiber (min 4 pcf). Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. When boxes are interconnected by means of electrical metallic tube (EMT) or conduit, a ball of putty pad material shall be used to completely plug the open end of each EMT or conduit within the box.

CP 617 or CFS-P PA Firestop Putty Pads, for use with max 4-11/16 by 4-11/16 by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel or plastic cover plates for use in 1 and 2 hr fire rated gypsum board wall assemblies framed with min 5-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Putty pads shall lap min 1/2 in. onto the stud and gypsum board within the stud cavity. When boxes are interconnected by means of electrical metallic tube (EMT) or conduit, a ball of putty pad material shall be used to completely plug the open end of each EMT or conduit within the outlet boxes. Metallic outlet boxes may be provided with steel attachment brackets which offset box min 1/4 in. from stud. When steel attachment brackets are used, putty pad to be affixed to the back and all four sides of the box.

CFS-P PA Moldable Putty Pads, for use with max 4-11/16 by 4-11/16 in. by max 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at its connection to the box.

CFS-P PA Moldable Putty Pads, for use with max 4 by 4 by 2-1/8 in. flush device UL Listed Metallic Outlet Boxes installed with steel or plastic cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at its connection to the box.

CFS-P PA Moldable Putty Pads, for use with max 14-1/4 by 4-1/2 by 2-1/2 in. flush device UL Listed Metallic Outlet Boxes installed with steel cover plates in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep steel studs and constructed of the materials and in the manner specified in the individual U400 and V400 Series Wall and Partition Designs in the Fire Resistance Directory. An additional 3/4 in. ball of putty pad material shall be used to plug the end of each electrical metallic tube or conduit at its connection to the box.

HILTI Firestop Box Insert, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies as specified below. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the boxes are not installed back-to-back (unless otherwise indicated). Installation shall comply with the National Electrical Code (NFPA 70). The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are specified below.

HILTI Firestop Box Insert, for use with max 4-11/16 by 4-11/16 by 2-1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 1 or 2 hr fire rated gypsum wallboard wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet boxes in 1 hr fire rated walls may be installed with plastic or steel cover plates. Outlet boxes in 2 hr fire rated walls shall be installed with steel cover plates. One 4-3/8 by 4-3/8 in. insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 4-3/8 x 4-3/8 in coverage.

HILTI Firestop Box Insert, for use with max 4 by 4 by 1-1/2 in. deep and 2-1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 1 or 2 hr fire rated gypsum wallboard wall assemblies framed with min 3 1/2 in. deep steel or wood studs and constructed of materials and in the manner specified in the individual U400, V400 or U300 Series Wall and Partition Designs in the Fire Resistance Directory, as summarized in the Table below. One 3-11/16 by 3-3/4 in. insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 3-11/16 x 3-3/4 in coverage.

Wall Opening Protective Materials (CLIV, CLIV7)

CP617 / CFS-P PA / FIRESTOP BOX INSERT

Box Size	Type of Box and Cover Plate	Hourly Rating	Wall Type
4 x 4 x 2-1/8 in deep	Metallic w/ steel cover plates	2-hour	U300, U400 or V400 - wood or steel studs
4 x 4 x 2-1/8 in deep	Metallic w/ plastic cover plates	1-hour	U300, U400 or V400 - wood or steel studs
4 x 4 x 1-1/2 in deep	Metallic w/ plastic cover plates	1-hour	U300 - wood studs

HILTI Firestop Box Insert, for use with max 2 1/8 x 4 x 2 1/8 in. deep UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum wallboard wall assemblies framed with min 3 1/2 in. deep wood or steel studs and constructed of materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Outlet boxes may be installed with steel cover plates. One 1-7/8 x 2-13/16 insert adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product.

HILTI Firestop Box Insert, for use with max 4-1/2 x 8-1/2 in. by 1-5/8 in. deep or max 3-3/4 x 5-1/2 in. by 2-1/2 in deep UL Listed Metallic Outlet Boxes without internal clamps in 1 hr or 2 hr fire rated gypsum wallboard wall assemblies framed with min 3 1/2 in. deep steel or wood studs and constructed of materials and in the manner specified in the individual U400, V400 or U300 Series Wall and Partition Designs in the Fire Resistance Directory, as summarized in the Table below. Outlet boxes installed with steel cover plates. Box inserts evenly spaced and adhered to the interior back wall of the outlet box in accordance with the instructions supplied with the product.

Box Size	Inserts Used	Fire Rating	Wall Type
4-1/2 x 8-1/2 x 1-5/8 in deep	Two 3-11/16 x 3-3/4 in. inserts **	2 hour	U300, U400 or V400 - wood or steel studs
3-3/4 x 5-1/2 x 2-1/2 in deep	One 3-11/16 x 3-3/4 in. insert and one 1-7/8 x 2-13/16 in. insert	1 hour	U300, U400, or V400 - wood or steel studs
** – Min 3/4 in. deep plaster rings installed over outlet box. After installation of gypsum board, nom 1/4 in. thickness of Hilti FS-ONE Sealant or FS-ONE MAX Intumescent Sealant, bearing the UL Classification Marking for Fill, Void or Cavity Materials, applied between the base layer of wallboard and the plaster ring.			

HILTI Firestop Box Insert , for use with 4-3/8 by 4-7/8 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. One 4-3/8 in. wide by 4-3/8 in. high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 4-3/8 in. by 4-3/8 in. coverage and adhered to the interior back wall of the outlet box. Outlet boxes installed with plastic or steel cover plates.

HILTI Firestop Box Insert, for use with 4-3/8 by 4-7/8 by 2-1/4 in. deep flush device UL Listed Metallic Outlet Boxes without internal clamps in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. deep wood or steel studs and constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. One 4-3/8 in. wide by 4-3/8 in. high insert adhered to the interior back wall of the outlet box in accordance with the installation instructions supplied with the product. Smaller sized inserts may be cut and combined to achieve the 4-3/8 in. by 4-3/8 in. coverage and adhered to the interior back wall of the outlet box. Outlet boxes installed with steel cover plates.

CP 617 or CFS-P PA Firestop Putty Pads and HILTI Firestop Box Inserts, for use with maximum 4 by 4 by 1-1/2 in. (102 by 102 by 38 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel or plastic faceplates in 1 or 2 hr fire rated gypsum board wall assemblies constructed with min 3-1/2 in. (89 mm) wide wood or steel studs. When both protective materials are used with outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the backs of the boxes are minimum 1/2 in. (13 mm) apart and provided that the boxes are not interconnected. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An insert pad shall be installed to completely cover the back inside surface of each outlet box.

1 FIRE RATED WALL - OPENING PROTECTIVE MATERIALS DETAIL

NO SCALE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR

APPROVED

Department of Health Care Access & Information

Office of Statewide Hospital Planning & Development

12/17/2024, 4:11:12 PM

S241219-34-00

Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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Sacramento | Alameda | Irvine

LICENSED ARCHITECT Joseph Mayo No. C 29416 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

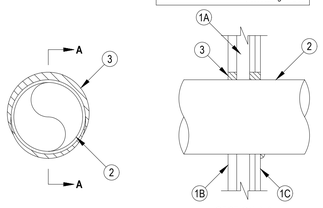
ACCESS PERMIT NO.: 9557740
OSHPD NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: DETAILS

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	E7.01
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: J. Luong	DATE: -	
DRAWN BY: J. Luong	CAD FILE: -	SHEET / OF

WL 1380

System No. W-L-1380

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr



SECTION A-A

1. Wall Assembly — The 2 hr fire-rated gypsum board/stud shaft wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
   A. Steel Studs — "C-H" or "C-T" shaped studs, min 2-1/2 in. (64 mm) wide by 1-1/2 in. (38 mm) deep, fabricated from min No. 25 gauge galv steel, spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — 1 in. (25 mm) thick, 24 in. (610 mm) wide gypsum liner panels installed vertically. Max diam of circular cutout in gypsum liner panel is 9-1/2 in. (241 mm).
   C. Gypsum Board* — 1/2 in. or 5/8 in. (13 or 16 mm) thick, 48 in. (1.22 m) wide gypsum boards. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of circular cutout in gypsum board is 9-1/2 in. (241 mm).
2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. (0 mm, point contact) to max 7/8 in. (22 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 8 in. (203 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 8 in. (203 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* - Sealant — Min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with each surface of wall. A min 1/2 in. (13 mm) diam bead of fill material shall be applied at the point contact location between pipe and wall on the finished side of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant, FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 22, 2015

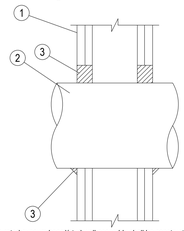
4 FIRE RATED WALL PENETRATION SYSTEM W-L-1380

NO SCALE

WL 1297

System No. W-L-1297

F Ratings -- 1 and 2 Hr (See Item 1)
T Rating -- 0 Hr
L Rating at Ambient -- Less than 1 CFM/Sq Ft
L Rating at 400° F -- Less than 1 CFM/Sq Ft



1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.
   A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 32 in. (813 mm).
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrant — One metallic pipe, conduit or tubing installed concentrically or eccentrically within the firestop system. Pipe, conduit or tube to be rigidly supported on both sides of wall assembly. The annular space between the pipe, conduit or tube and periphery of the opening shall be min 0 in (0 mm, point contact) to max 2 in. (51 mm) in 2 hr fire rated walls and min 0 in (0 mm, point contact) to max 1 in. (25 mm) in 1 hr fire rated walls. As an option, for through penetrant types 2A, 2B and 2C only in nom diameters not exceeding 4 in. (102 mm), the penetrant can be installed with continuous point contact. The following types and sizes of metallic pipes, conduit or tube may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or 6 in. diam steel conduit.
   D. Copper Tube — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material*-Sealant — Min 5/8 in. (16 mm) or 1-1/4 in. (32 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall, for 1 hr and 2 hr fire rated wall assemblies, respectively. A min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe/wall interface at the point contact and continuous point contact location.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. June 29, 2017

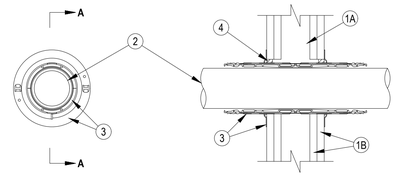
3 FIRE RATED WALL PENETRATION SYSTEM W-L-1297

NO SCALE

WL 1441

System No. W-L-1441

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 1/2 and 3/4 Hr (See Items 1 and 3)	FT Ratings —0, 1/2 and 3/4 Hr (See Items 1 and 3)
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Ratings — 0, 1/2 and 3/4 Hr (See Items 1 and 3)



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
   A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Opening in gypsum board to be 2-1/2 in. (64 mm) diam for nominal 2 in. (51 mm) firestop device and 4 1/2 in. (114 mm) diam for nominal 4 in. (102 mm) firestop device.
   The hourly F, FH Ratings of the firestop system are dependent upon the hourly rating of the wall in which it is installed. The hourly T, FT, FTH Ratings of the firestop system are 1/2 hr for 1 hr rated walls and 3/4 hr for 2 hr rated walls.
2. Through Penetrant — One metallic pipe, conduit or tubing to be installed concentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes, conduits and tubes may be used:
   A. Steel Pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. Iron Pipe — Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 3 in. (76 mm) diam (or smaller) rigid steel conduit or steel electrical metallic tubing (EMT).

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 26, 2018

WL 1441

System No. W-L-1441

3. Firestop Device* — Firestop device consists of a corrugated steel tube with an inner plastic housing, intumescent material rings, tightly twisted inner fabric smoke seal, flanges and gasketing material (not shown). As an option, the inner fabric seal may remain open. The T, FT and FTH Ratings of the firestop system are 0 hr when the inner fabric seal remains open. Firestop device to be installed in accordance with the accompanying installation instructions. Device slid into wall such that ends project an equal distance from the approximate centerline of the wall assembly. The annular space between the device and the periphery of the opening shall be min 0 in. (point contact). Device provided with flanges that are spun clockwise onto device threads, over gasketing material butting tightly to both sides of wall. For blank devices, flanges shall be secured to gypsum wall with min two 1-1/2 in. (38 mm) long drywall screws. As an alternate to gasket material, sealant (Item 4) may be used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 653 and CP 653 BA 2" Speed Sleeve, CP 653 and CP 653 BA 4" Speed Sleeve, CFS-SL GA L 2" and 4" Speed Sleeves
   The CFS-SL GA L 2" and 4" Speed Sleeves shall only be used in wall thickness of 8 in. (203 mm) or greater.
4. Fill, Void or Cavity Material* - Sealant — As an alternate to gasket material (see Item 3), min 1/2 in. (13 mm) thickness of fill material applied within the annulus between firestop device and wall, flush with both surfaces of wall. An additional 1/4 in. (6 mm) bead shall be applied around periphery of device on each side of wall prior to securing device flanges.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 606, FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

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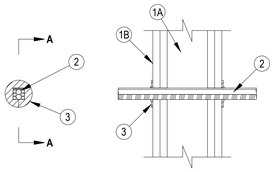
1 SPEED SLEEVE - SYSTEM NO. W-L-1441

NO SCALE

WL 3414

System No. W-L-3414

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, ½, 1 and 2 Hr (See Item 2)	FT Ratings — 0, ½, 1 and 2 Hr (See Item 2)
L Rating at Ambient — Less than 1 CFM/Opening	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating at 400 F — Less than 1 CFM/Opening	FTH Ratings — 0, ½, 1 and 2 Hr (See Item 2)
	L Rating at Ambient — Less than 1 CFM/Opening
	L Rating at 400 F — Less than 1 CFM/Opening



SECTION A-A

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. October 14, 2015

WL 3414

System No. W-L-3414

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. (51 mm) by 4 in. (102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (1219 cm) wide with square or tappered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Opening may be round, rectangular or irregular with a max diam or dimension of 1 in. (25 mm).
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Cables — Single or tight bundle of cables to be installed within the opening. Aggregate cross-sectional area of cables in opening to have a visual fill of min 0% to max 100%. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact). Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types and sizes of cables may be used:
   A. Max 3/C No. 8 AWG NM copper conductor cable (Romex) with PVC insulation and jacket.
   B. Max 7/C-No. 12 AWG copper conductor control cable with PVC or XLPE insulation and jacket.
   C. Max 100 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with PVC or plenum rated insulation and jacketing.
   D. Max 4 pr No. 22 AWG (or smaller) Cat 5 or Cat 6 computer cables with PVC or plenum rated insulation and jacketing.
   E. Type RG/U coaxial cable with fluorinated ethylene or PVC insulation and jacketing having a max outside diameter of ½ in. (13 mm).
   F. Max 24 fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation.
   G. Through Penetrating Product* — Max two copper conductor No. 18 AWG (or smaller) Power or Non-Power Limited Fire Alarm Cable with or without a jacket under a metal armor.
   AFC CABLE SYSTEMS INC
   H. Maximum 3/C No. 10 AWG copper conductor metal-clad cable.
   The hourly T, FT and FTH Ratings of the firestop system are dependent on cable type and hourly wall rating as specified in Table below.

Cable Type	Hourly Wall Rating	Hourly T, FT and FTH Rating
None (Blank Opening)	1 and 2	1 and 2
A	1 and 2	1 and 2
B	1	0
	2	1/2
C	1	0
	2	1/2
D	1 and 2	1 and 2
E	1 and 2	1 and 2
F	1 and 2	1 and 2
G	1 and 2	1 and 2
H	1 and 2	1 and 2

3. Fill, Void or Cavity Material* — Nom 60 mm diam by 3 mm thick putty disc with one seam at radius. Paper-backer of disc to be removed and disc firmly pressed around the cable/cable bundle lapping nom 5 mm onto cables to completely cover opening and firmly pressed to lap onto the wall around periphery of opening. Disc seam to be firmly pressed and sealed tight, Disc to be installed at both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-D 1" Firestop Cable Disc

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

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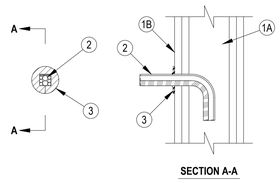
5 FIRE RATED WALL PENETRATION SYSTEM W-L-3414

NO SCALE

WL 3415

System No. W-L-3415

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings —1 and 2 Hr (See Item 1)	FT Ratings —1 and 2 Hr (See Item 1)
L Rating at Ambient — Less than 1 CFM/Opening	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating at 400 F — Less than 1 CFM/Opening	FTH Ratings —1 and 2 Hr (See Item 1)
	L Rating at Ambient — Less than 1 CFM/Opening
	L Rating at 400 F — Less than 1 CFM/Opening



SECTION A-A

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. October 26, 2015

WL 3415

System No. W-L-3415

1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. (51 mm) by 4 in. (102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (1219 cm) wide with square or tappered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Opening may be round, rectangular or irregular with a max diam or dimension of 1 in. (25 mm).
   The hourly F, FT, FH and FTH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Cables — Single or tight bundle of cables penetrating wall assembly on one side of wall. Aggregate cross-sectional area of cables in opening to have a visual fill of min 0% to max 100%. The annular space between the cable bundle and the periphery of the opening to be min 0 in. (point contact). Cables to be rigidly supported on penetrating side of and within the wall assembly. Any combination of the following types and sizes of cables may be used:
   A. Max 3/C No. 8 AWG NM copper conductor cable (Romex) with PVC insulation and jacket.
   B. Max 4 pr No. 22 AWG (or smaller) Cat 5 or Cat 6 computer cables with PVC or plenum rated insulation and jacketing.
   C. Type RG/U coaxial cable with fluorinated ethylene or PVC insulation and jacketing having a max outside diameter of ½ in. (13 mm).
   D. Max 24 fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation.
   E. Max 25 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) or plenum-rated jacketing and insulation.
   F. Through Penetrating Product* — Max two copper conductor No. 18 AWG (or smaller) Power or Non-Power Limited Fire Alarm Cable with or without a jacket under a metal armor.
   AFC CABLE SYSTEMS INC
   G. Maximum 3/C No. 10 AWG copper conductor metal-clad cable.
3. Fill, Void or Cavity Material* — Nom 60 mm diam by 3 mm thick putty disc with one seam at radius. Paper-backer of disc to be removed and disc firmly pressed around the cable/cable bundle lapping nom 5 mm onto cables to completely cover opening and firmly pressed to lap onto the wall around periphery of opening. Disc seam to be firmly pressed and sealed tight, Disc to be installed at penetrated side of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-D 1" Firestop Cable Disc

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. October 26, 2015

2 FIRE RATED WALL PENETRATION SYSTEM W-L-3415

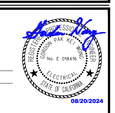
NO SCALE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:
nacht&lewis
600 Q Street, Suite 100
Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934



08/20/2024

EDGE
Project Number KD44
Contact JOHNNY
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PROJECT NO: 9557740
CP/BPH NO: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: DETAILS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	E7.02
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: J. Luong	DATE: -	
DRAWN BY: J. Luong	CAD FILE: -	SHEET / OF

GENERAL NOTE:

THROUGH PENETRATION NOTE:
WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS ARE FOR REFERENCE ONLY. THROUGH-PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR OSHPD FDD REVIEW AND APPROVAL PRIOR TO INSTALLATION.

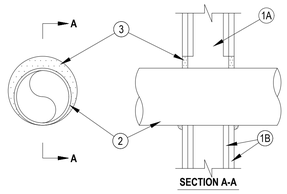
CLASSIFIED C UL US

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

System No. W-L-1054

WL 1054

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft L Rating at 400 F — Less Than 1 CFM/sq ft



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.

HILTI Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 23, 2015

System No. W-L-1054

WL 1054

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) . diam steel conduit.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

HILTI Hilti Firestop Systems

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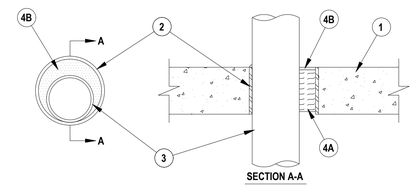
4 FIRE RATED WALL PENETRATION W-L-1054

NO SCALE

System No. C-AJ-1421

CAJ 1421

F Rating - 2 and 3 Hr (See Item 4B)
T Rating = 0 Hr



SECTION A-A

1. Floor or Wall Assembly - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*, Max diam of opening is 6 in. (152 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve - (Optional) Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Through-Penetrant - One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, tube or conduit and periphery of opening shall be min 0 in. (0 mm) (point contact) to max 5-3/8 in. (137 mm). Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:
   A. Steel Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe - Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
   E. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel conduit.
   F. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).
4. Firestop System - The firestop system shall consist of the following:
   A. Packing Material - Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* - Sealant - Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. For 3 Hr rated assemblies, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete/pipe interface at the point contact location on the top surface of floor and on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE Sealant or CP604 Self-Leveling Firestop Sealant. CP604 shall be used in floor applications only. When CP604 is used, F Rating is 2 Hr.

*Bearing the UL Classification Mark

HILTI FIRESTOP SYSTEMS

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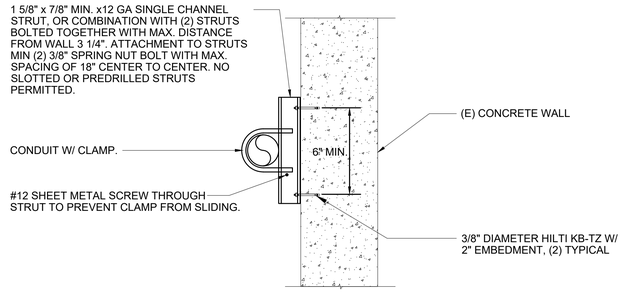
CLASSIFIED C UL US

1 CONCRETE WALL PENETRATION DETAIL - C-AJ-1421

NO SCALE

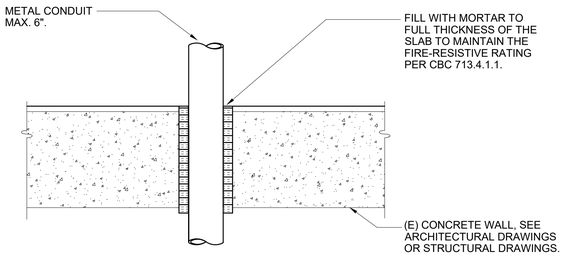


NOTES:

1. FOR 3/4" TO 2" CONDUIT, SUPPORTS @ 10'-0" OC MAX., MAX. WEIGHT PER CONNECTION IS 20LBS.
2. FOR 3" CONDUIT, SUPPORTS @ 6'-0" OC MAX., MAX. WEIGHT PER CONNECTION IS 50LBS.
3. FOR 4" CONDUIT, SUPPORTS @ 4'-0" OC MAX., MAX. WEIGHT PER CONNECTION IS 55LBS.

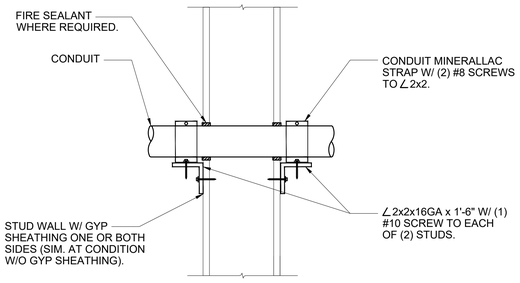
5 HORIZONTAL CONDUIT TO CONCRETE WALL DETAIL

NO SCALE



3 CONDUIT THRU CONCRETE DETAIL

NO SCALE



SIDE VIEW

2 CONDUIT THRU WALL DETAIL

NO SCALE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

nacht&lewis
600 Q Street, Suite 100
Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

EDGE
Project Number KD44
Contact JOHNNY
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

LICENSED ARCHITECT JOHNNY N LUONG No. C-31049 REN. 12-31-25 STATE OF CALIFORNIA

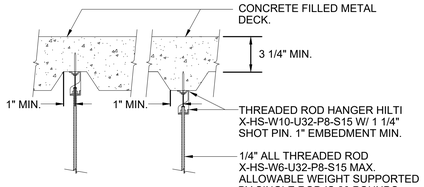
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ARCHITECT JOB NO. 9557740
OSHPD 3 NO. S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: DETAILS

ARCH./ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	E7.03
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: J. Luong	DATE: -	
DRAWN BY: J. Luong	CAD FILE: -	SHEET / OF

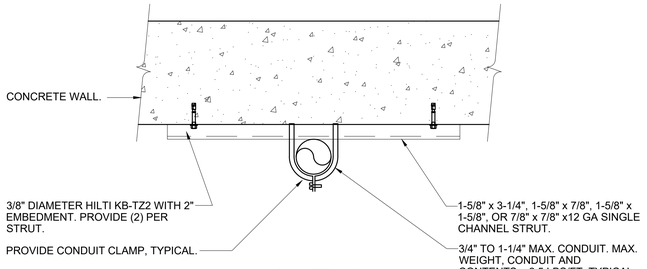


NOTES:

1. UPON INSTALLATION OF FASTENER INTO CONCRETE FILLED METAL DECK, CONTRACTOR TO PATCH/REPAIR DAMAGE TO EXISTING. SPRAY APPLIED FIREPROOFING, AS REQUIRED, TO RESTORE ORIGINAL FIREPROOFING THICKNESS AND FIRE RATING.
2. ANCHOR MAY BE PLACED AT HIGH OR LOW FLUTE, CENTER ANCHOR IN FLUTE.
3. TENSION TEST 10% OF CEILING CLIP ASSEMBLIES TO 20 LBS. SEE "POST INSTALLED" NOTES AND "POST INSTALLED ANCHOR TESTING CRITERIA" NOTES ON STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
4. MAX. LENGTH OF ROD IS 60 INCHES.

7 1/4" THREADED ROD TO CONCRETE FILLED METAL DECK DETAIL

NO SCALE



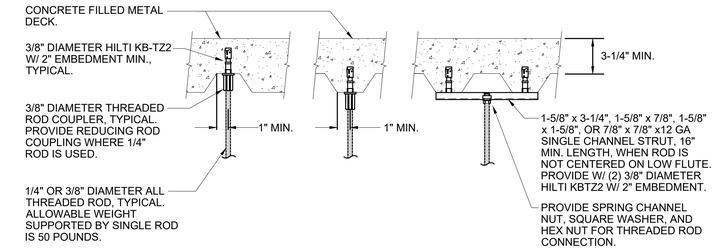
PLAN VIEW

NOTES:

1. STRUT SUPPORTS SHALL BE LOCATED AT 10'-0" O.C., MAX.
2. NO SLOTTED OR PREPUNCHED STRUTS PERMITTED.

4 CONDUIT MOUNTING DETAIL - CONCRETE

NO SCALE



NOTES:

1. VERIFY THAT CONCRETE OVER METAL DECK MUST COMPLY WITH FIGURES 5A TO 5D IN ICC ESR-4266.
2. UPON INSTALLATION OF FASTENER INTO CONCRETE FILLED METAL DECK, CONTRACTOR TO PATCH/REPAIR DAMAGE TO EXISTING. SPRAY APPLIED FIREPROOFING, AS REQUIRED, TO RESTORE ORIGINAL FIREPROOFING THICKNESS AND FIRE RATING.
3. ANCHOR MAY BE PLACED AT HIGH OR LOW FLUTE, CENTER ANCHOR IN FLUTE.
4. TORQUE TEST 50% OF EXPANSION ANCHORS TO 30FT-LBS. SEE "POST INSTALLED" NOTES AND "POST INSTALLED ANCHOR TESTING CRITERIA" NOTES ON STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS

1 THREADED ROD TO CONCRETE FILLED METAL DECK - HILTI ANCHORS

NO SCALE

8 THREADED ROD TO CONC FILLED METAL DECK - STRUT

NO SCALE

5 VERTICAL CONDUIT SUPPORT BETWEEN STUD

NO SCALE

ELECTRICAL METALLIC TUBING (EMT)	
TRADE SIZE	COMBINED WEIGHT (LBS/LINEAL FOOT)
1/2"	0.51
3/4"	0.84
1"	1.30
1-1/4"	2.12

NOTES:

1. SPACING BETWEEN SUPPORTS SHALL BE 10' MAXIMUM.
2. MAXIMUM TOTAL LOAD PER CLIP IS 20LBS.
3. 5 PLF MAXIMUM CONDUIT WEIGHT.

2 THREADED ROD CONDUIT SUPPORT DETAIL

NO SCALE

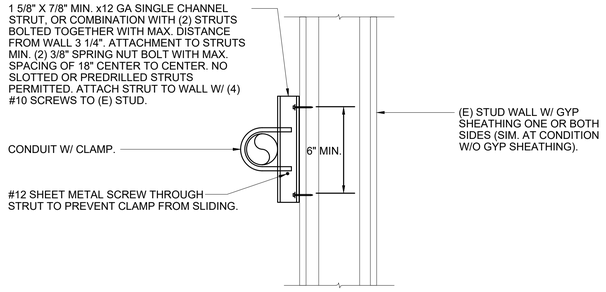
ELEVATION

NOTES:

1. SUPPORTS AT 8'-0" O.C., MAX.

9 ONE HOLE STRAP CONDUIT DETAIL

NO SCALE



NOTES:

1. FOR 3/4" TO 3" CONDUIT, SUPPORTS @ 10'-0" OC MAX., MAX. WEIGHT PER CONNECTION IS 20LBS.
2. FOR 3" CONDUIT, SUPPORTS @ 6'-0" OC MAX., MAX. WEIGHT PER CONNECTION IS 50LBS.
3. FOR 4" CONDUIT, SUPPORTS @ 4'-0" OC MAX., MAX. WEIGHT PER CONNECTION IS 55LBS.

6 HORIZONTAL CONDUIT TO WALL DETAIL

NO SCALE

NOTES:

1. SUPPORTS @ 6'-0" O.C. MAX.
2. VERTICAL APPLICATION TO SINGLE STUD SIMILAR. STRUT TO BE 4" LONG MIN.
3. CONDUITS SHALL NOT EXCEED 10 PLF OR 100LBS MAX PER SPAN.

3 MULTIPLE VERTICAL CONDUIT SUPPORT DETAIL

NO SCALE

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Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
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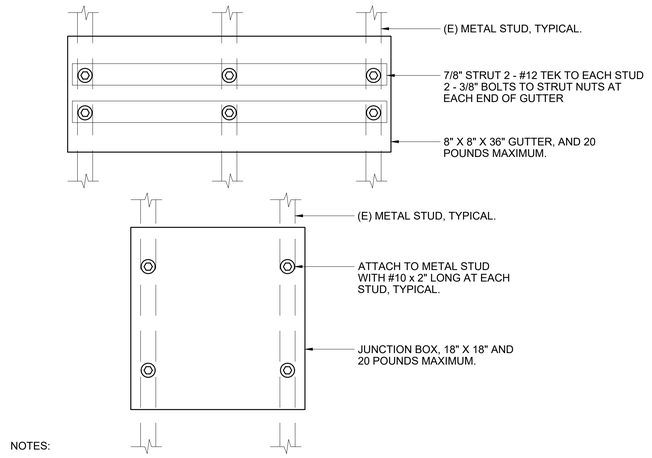
LICENSED ARCHITECT JOHN M LUONG No. C-31049 EXP. 12-31-25 STATE OF CALIFORNIA
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

PROJECT NO. 9557740
DSA/HPO NO. S241219-34-00
BUILDING BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING 1ST FLOOR
PROJECT TITLE SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE DETAILS

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	E7.04
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: J. Luong	DATE: -	
DRAWN BY: J. Luong	CAD FILE: -	SHEET / OF

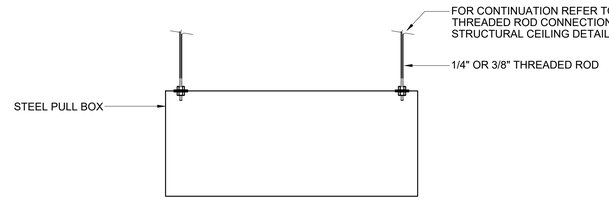


NOTES:

1. FOR SMALLER JUNCTION BOXES (LESS THAN 16"), ATTACH TO SINGLE STUD WITH (2) #10 X 2" SHEET METAL SCREWS.
2. SIMILAR AT CONDITION WITH OR WITHOUT GYP SHEATHING.

7 JUNCTION BOX MOUNTED TO DRYWALL DETAIL

NO SCALE

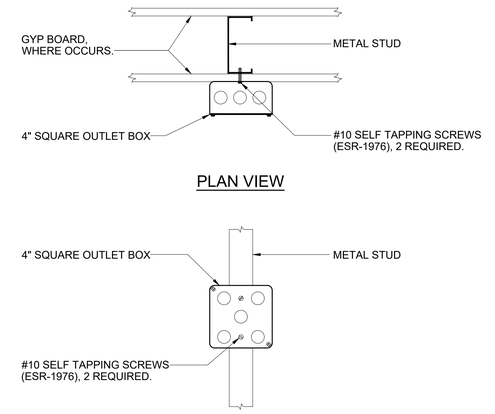


NOTES:

1. SPACING BETWEEN HANGERS SHALL BE PER CEC REQUIREMENTS.

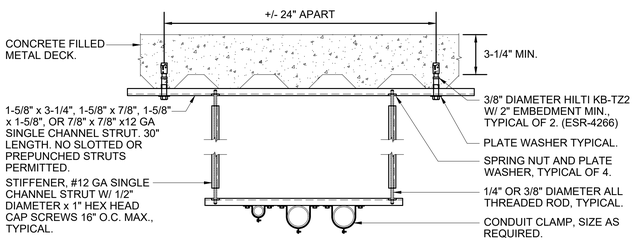
4 LARGE PULL BOX SUPPORT DETAIL

NO SCALE



1 BOX SUPPORT (ON STUD)

NO SCALE

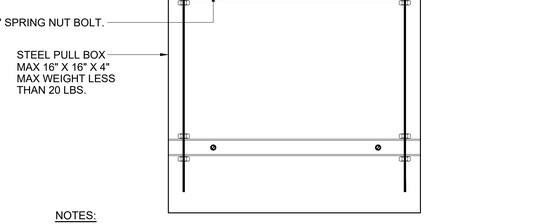


NOTES:

1. SPACING BETWEEN HANGERS SHALL BE PER CEC REQUIREMENTS, NOT EXCEEDING 3 FEET OF EACH RACEWAY TERMINATION, MAXIMUM OF 10 FEET BETWEEN SUPPORTS.
2. ALL BACK TO BACK CHANNEL SHALL HAVE FILLET WELDS ON BOTH SIDES.
3. PLACEMENT OF TRAPEZE SHALL NOT OBSTRUCT THE REMOVAL AND/OR INSTALLATION OF CEILING MATERIALS WHETHER FOR CONSTRUCTION OR MAINTENANCE.
4. MAXIMUM WEIGHT TO BE LESS THAN OR EQUAL TO 10 LBS/FT.

8 CONDUIT TRAPEZE MOUNTING TO CONCRETE FILLED METAL DECK DETAIL

NO SCALE

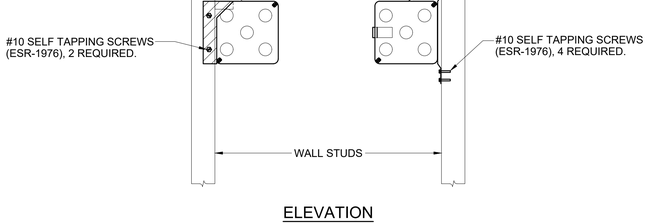


NOTES:

1. SPACING BETWEEN HANGERS SHALL BE PER CEC REQUIREMENTS.
2. ANCHOR MAY BE PLACED AT HIGH OR LOW FLUTE. CENTER ANCHOR IN THE FLUTE.

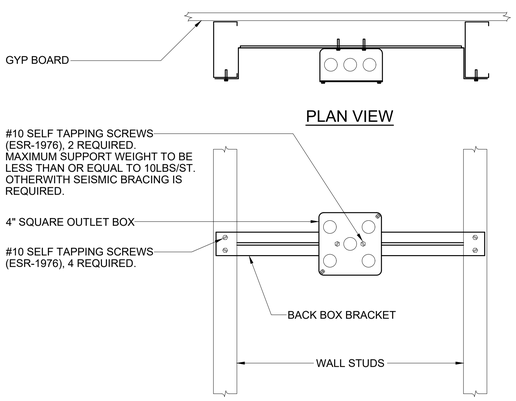
5 TYPICAL - LARGE PULL BOX SUPPORT DETAIL

NO SCALE



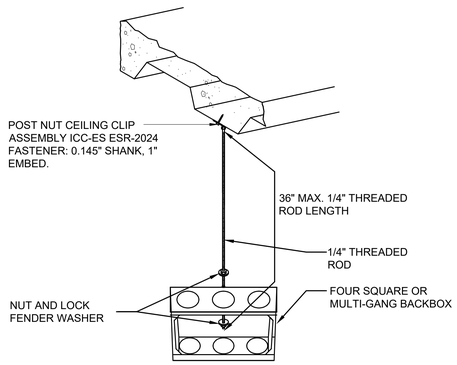
2 BOX SUPPORT (ON STUDS)

NO SCALE



9 BOX SUPPORT (BETWEEN STUDS)

NO SCALE

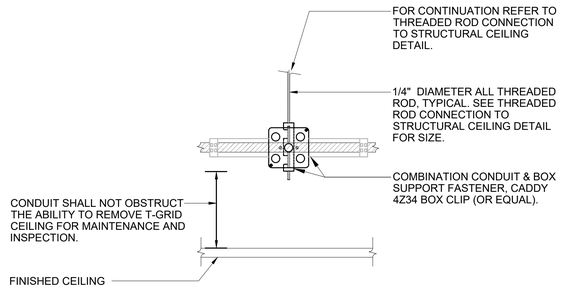


NOTES:

1. MAXIMUM WEIGHT = 20 LBS.

6 SUSPENDED BOX MOUNTING DETAIL

NO SCALE



NOTES:

1. UPON INSTALLATION OF FASTENER INTO CONCRETE FILLED METAL DECK. CONTRACTOR TO PATCH/REPAIR DAMAGE TO EXISTING SPRAY APPLIED FIREPROOFING, AS REQUIRED, TO RESTORE ORIGINAL FIREPROOFING THICKNESS AND FIRE RATING.

3 SUSPENDED BOX AND CONDUIT SUPPORT FASTENER DETAIL

NO SCALE

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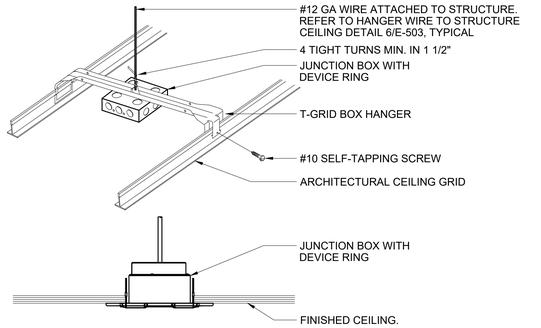
LICENSED ARCHITECT — No. E 31849 — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

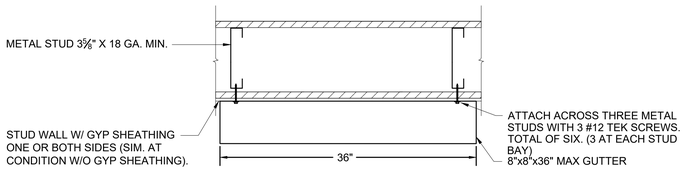
PROJECT NO.: 9557740
CONTR NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: DETAILS

ARCH.\ENGR. J. Flath	FD&C JOB NO. -	SHEET NO. E7.05	
UCDMC PROJECT MANAGER Z. Price	SCALE AS SHOWN		
DESIGNED BY J. Luong	DATE -		
DRAWN BY J. Luong	CAD FILE -	SHEET	OF



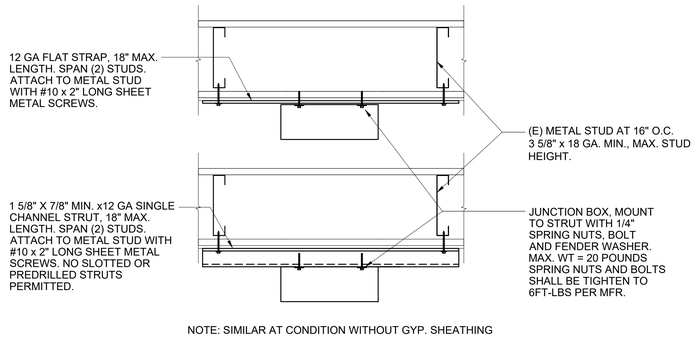
6 CEILING MOUNTED JUNCTION BOX DETAIL

NO SCALE



3 TYPICAL - GUTTER MOUNTING DETAIL

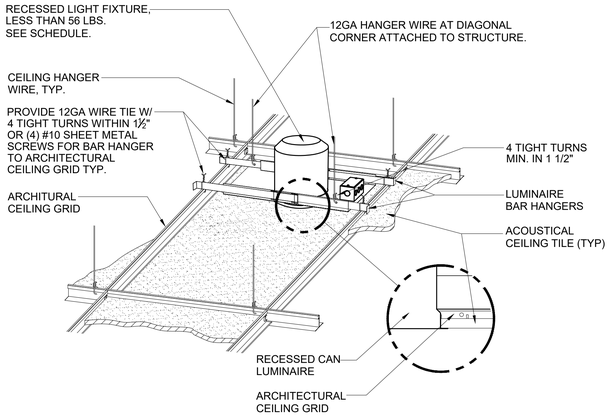
NO SCALE



NOTE: SIMILAR AT CONDITION WITHOUT GYP. SHEATHING

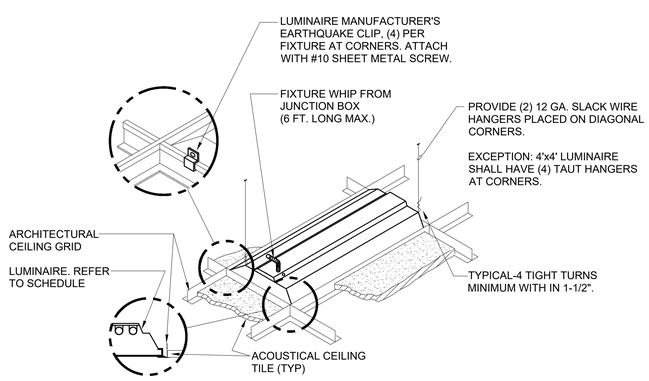
1 WALL MOUNTED BOX SUPPORT DETAIL

NO SCALE



7 DOWNLIGHT FIXTURE MOUNTING DETAIL - LAY-IN CEILING

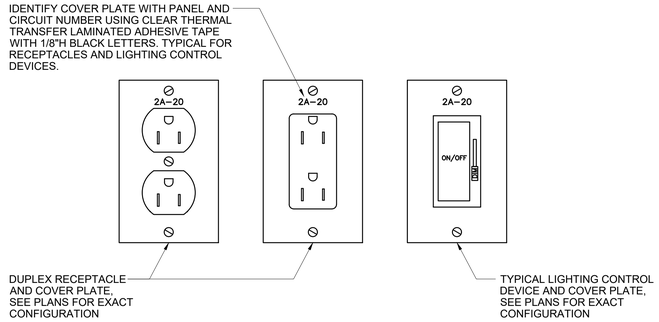
SCALE: NONE



NOTE:
1. LUMINAIRE WEIGHT: LESS THAN 56LBS.
2. FOR LUMINAIRE WEIGHT MORE THAN 56LBS, SEE DETAIL "LIGHT FIXTURE MOUNTING DETAIL - LAY-IN CEILING W/ SEISMIC BRACING."

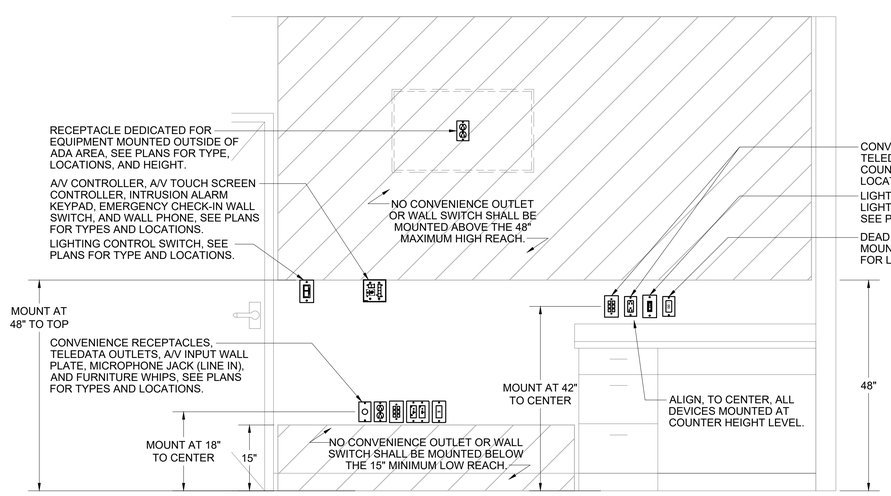
4 LIGHT FIXTURE MOUNTING DETAIL - LAY-IN CEILING

SCALE: NONE



2 RECEPTACLE AND LIGHT SWITCH DESIGNATION DETAIL

SCALE: NONE



NOTES:
1. CONVENIENCE RECEPTACLE, TELEDATA OUTLET, AND LIGHTING CONTROL SWITCHES SHALL BE WITHIN ADA REACH. BOTTOM OF DEVICE SHALL NOT BE LOWER THAN 15" AFF. TOP OF DEVICE SHALL NOT BE HIGHER THAN 48" AFF.
2. NURSE CALL DEVICES, CONVENIENCE RECEPTACLES, TELEDATA OUTLETS, AND LIGHTING CONTROL DEVICES MOUNTED ABOVE COUNTER, SINK, OR OTHER OBSTRUCTION SHALL HAVE TOP OF THE OPERABLE PARTS NOT EXCEEDING 44", 46", OR 48" PER CBC 11B-308.2.2 OR 11B-308.3.2.

5 DEVICE MOUNTING DETAIL

SCALE: NONE

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Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
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S241219-34-00
Ray Sanchez

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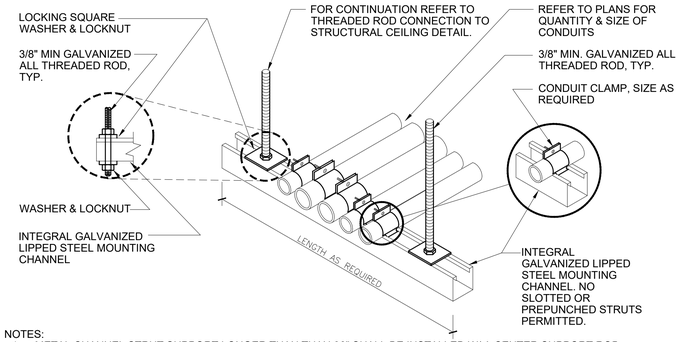
LICENSED ELECTRICAL ENGINEER No. E 018416 STATE OF CALIFORNIA
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
CHSPR NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: DETAILS

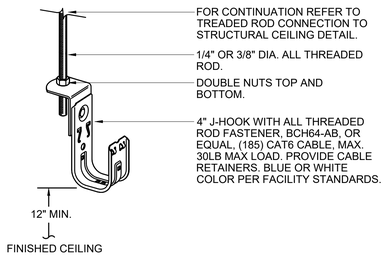
ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	E7.06
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: J. Luong	DATE: -	
DRAWN BY: J. Luong	CAD FILE: -	SHEET OF



NOTES:
1. METAL CHANNEL STRUT SUPPORT LONGER THAN THAN 36" SHALL BE INSTALLED W/ A CENTER SUPPORT ROD.
2. FOR TRAPEZE INSTALLATIONS IN SEISMIC AREAS, REFER TO STRUCTURAL SPECIFICATION SEISMIC RESTRAINT REQUIREMENTS FOR NON-STRUCTURAL COMPONENTS.
3. THE TOTAL WEIGHT OF THE RACEWAY SUPPORT BY TRAPEZE ASSEMBLIES IS LESS THAN 100LB (10 LBS/FT AT 10'-0" MAXIMUM TRAPEZE SPACING) AND THE LENGTH FROM THE CONDUIT SUPPORT TO THE SUPPORTING STRUCTURE IS 12" OR LESS.
4. FOR WEIGHT MORE THAN 10 LB/FT & LESS THAN 30 LB/FT, REFER TO OPM DETAILS.
5. SPACING BETWEEN SUPPORTS SHALL BE 10' MAX.
6. PLACEMENT OF TRAPEZE SHALL NOT OBSTRUCT THE REMOVAL AND/OR INSTALLATION OF CEILING MATERIALS WHETHER FOR CONSTRUCTION OR MAINTENANCE.

4 CONDUIT TRAPEZE MOUNTING DETAIL

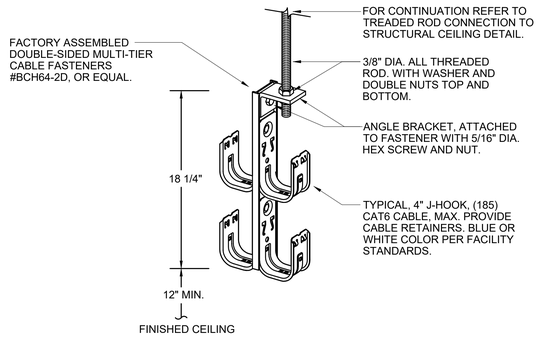
NO SCALE



NOTES:
1. MAXIMUM TOTAL LOAD PER J-HOOK IS 20LBS, MAXIMUM TOTAL UNIFORM LOAD IS 5LBS PER LINEAL FOOT.
2. LEAVE MINIMUM 25% SPACE CAPACITY FOR FUTURE CABLE INSTALLATION.
3. J-HOOK SUPPORTS SHALL BE SPACED AT 48", ON CENTER, MAX.

2 J-HOOK SUPPORT DETAIL - SINGLE

NO SCALE



NOTES:
1. MAXIMUM LOAD PER INDIVIDUAL J-HOOK IS 30LBS.
2. MAXIMUM LOAD FOR (4) J-HOOK SYSTEM IS 120LBS.
3. LEAVE MINIMUM 25% SPACE CAPACITY FOR FUTURE CABLE INSTALLATION.
4. J-HOOK SUPPORTS SHALL BE SPACED AT 48", ON CENTER, MAX.

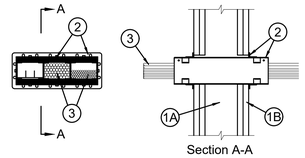
1 MULTI-TIER J-HOOK DETAIL

NO SCALE

System No. W-L-3218

F RATINGS – 1 AND 2 HR (SEE ITEM 1)
T RATINGS – 3/4 AND 1 HR (SEE ITEM 3)

GUIDE XHEZ
THROUGH-PENETRATION FIRESTOP SYSTEMS



Section A-A

1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3–1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* – 5/8 IN. (16 MM) THICK, 4 FT (1.2 M) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 1/4 IN. LARGER THAN WIDTH AND HEIGHT DIMENSIONS OF FIRESTOP DEVICE(S).
   THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. FIRESTOP DEVICES – ONE, TWO OR THREE FIRESTOP DEVICE MODULES GANGED TOGETHER. EACH FIRESTOP DEVICE MODULE CONSISTS OF A 5 BY 7 BY 10–1/2 IN. LONG GALV STEEL TUBE WITH AN INTUMESCENT MATERIAL LINING. FIRESTOP DEVICE MODULES TO BE INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. THE SPACE BETWEEN THE FIRESTOP DEVICE MODULE(S) AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1/8 IN. FIRESTOP DEVICE MODULE(S) SECURED IN PLACE BY MEANS OF STEEL WALL PLATES SIZED TO ACCOMMODATE EITHER ONE, TWO OR THREE MODULES. WALL PLATES PROVIDED WITH A CLOSED CELL SILICONE GASKET SIZED TO LAP APPROX 1/2 IN. BEYOND THE PERIPHERY OF THE OPENING. STEEL WALL PLATES AND GASKET INSTALLED ON BOTH SIDES OF WALL AND SECURED TO EACH DEVICE BY MEANS OF STEEL SET SCREWS PROVIDED WITH DEVICE. EACH FIRESTOP DEVICE MODULE IS TO BE INSTALLED WITH ENDS PROJECTING AN EQUAL DISTANCE BEYOND EACH SURFACE OF THE WALL ASSEMBLY.

   SPECIFIED TECHNOLOGIES INC – EZ PATH
3. CABLES – WITHIN THE LOADING AREA FOR EACH FIRESTOP DEVICE MODULE, THE CABLES MAY REPRESENT A 0 TO 100% VISUAL FILL. CABLE FILL TO BE DISTRIBUTED AT A UNIFORM HEIGHT ACROSS THE WIDTH OF THE FIRESTOP DEVICE MODULE. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES OF CABLES MAY BE USED:
   A. MAX 25 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR TELECOMMUNICATION CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   B. MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   C. MAX RG/U COAXIAL CABLE WITH FLUORINATED ETHYLENE INSULATION AND JACKETING.

   WHEN THE HOURLY RATING OF THE WALL ASSEMBLY IS 1 HR, THE T RATING IS 3/4 HR. WHEN THE HOURLY RATING OF THE WALL ASSEMBLY IS 2 HR, THE T RATING IS 3/4 HR WHEN ITEM 3A IS USED. OTHERWISE THE T RATING IS 1 HR.

   * BEARING THE UL CLASSIFICATION MARK

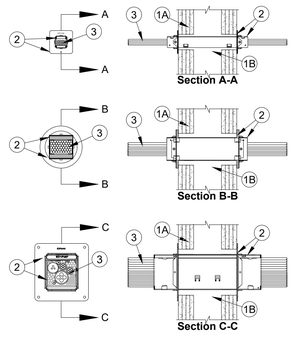
Classified by Underwriters Laboratories, Inc.

5 RATED THRU-WALL PEN. - EZ PATH

NO SCALE

System No. W-L-3377

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1, 2, 3 and 4 Hr (See Item 1)	F Ratings - 1, 2, 3 and 4 Hr (See Item 1)
T Rating - 0, 1/2, 3/4, 1, 1-1/2 and 2 Hr (See Item 3)	FT Rating - 0, 1/2, 3/4, 1, 1-1/2 and 2 Hr (See Item 3)
L Rating At Ambient - Less than 1 to 7 CFM/Device Module (See Item 2)	FH Ratings - 1, 2, 3 and 4 Hr (See Item 1)
L Rating at 400 F - Less than 1 to 3 CFM/Device Module (See Item 2)	FTH Rating -0, 1/2, 3/4, 1, 1-1/2 and 2 Hr (See Item 3)
	L Rating At Ambient - Less than 1 to 7 CFM/Device Module (See Item 2)
	L Rating at 400 F - Less than 1 to 3 CFM/Device Module (See Item 2)



1. **Wall Assembly** - The 1, 2, 3 or 4 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within the individual U300, U400, V400 or W400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
   A. **Studs** - Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board*** - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. See Table for opening sizes.

   The hourly F and FH Ratings are dependent upon the hourly rating of the wall in which it is installed.
2. **Firestop Device*** - Series 22 EZ Path device modules consist of a 1.4 by 1.4 by 10-1/2 in. (36 by 36 by 267 mm) long galv steel tube with an intumescent material lining. Series 33 EZ Path device modules consist of a 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long galv steel tube with an intumescent material lining. Series 44+ EZ Path device modules consist of a 4 by 4-5/8 by 14 in. (102 by 118 by 356 mm) long galv steel tube with an intumescent material lining. Firestop device modules to be installed in accordance with the accompanying installation instructions. Firestop device modules secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device by means of steel screws provided with device. Firestop device module is to be installed with ends projecting an equal distance beyond each surface of the wall assembly. The annular space between the device and opening shall be min 0 in. (point contact) to max 1/8 in. (3 mm) for Series 22 device, max 1/2 in. (13 mm) for Series 33 device and max 1/4 in. (6 mm) for Series 44 device. The opening size and L Ratings for each device vary according to whether device module is blank (no cables) or loaded (with cables) and which cable type and size is used, as tabulated below:

Device	Max Cable Fill	Cable Type	L-Rating (CFM)		Opening Size Diam or Dimensions, in. (mm)
			Ambient	400° F	
Series 22	0%	-	1.4	1.4	2 (51) or 1-3/4 x 1-3/4 (44 x 44)
Series 22	100%	3A	Less Than 1	Less Than 1	2 (51) or 1-3/4 x 1-3/4 (44 x 44)
Series 22	100%	3F	Less Than 1	Less Than 1	2 (51) or 1-3/4 x 1-3/4 (44 x 44)
Series 33	0%	-	Less Than 1	Less Than 1	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 33	100%	3A	4	3	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 33	100%	3F	1.3	Less Than 1	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 33	100%	3G, 3H	7	2	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 33	100%	3I	1.8	1.8	4 (102) or 3-1/4 x 3-1/4 (82 x 82)
Series 44+	0%	-	Less Than 1	Less Than 1	6 (152) or 4-1/8 x 4-3/4 (120 x 120)
Series 44+	100%	3A-3I	2.3	2.3	6 (152) or 4-1/8 x 4-3/4 (120 x 120)

SPECIFIED TECHNOLOGIES INC - EZ PATH Series 22, 33 or 44+ Fire Rated Pathway

2A. **Firestop Device* - Extension Module** - (Optional, Not Shown) - Module attached to ends of Series 33, Series 44 or Series 44+ firestop device (Item 2) to increase its length to facilitate installation in thicker walls. Each module consists of a galv steel tube with an intumescent material lining. Extension module to be installed in accordance with the accompanying installation instructions. When module is used, firestop device (Item 2) and extension module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device or extension module(s) by means of steel set screws provided with wall plates. Firestop device and extension module(s) assembly to be installed with ends projecting an equal distance beyond each surface of the wall assembly.

SPECIFIED TECHNOLOGIES INC - EZ PATH Series 33 or Series 44+ Extension

3. **Cables** - Cables may represent a 0 to 100 percent visual fill within the loading area for the firestop device module. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types of cables may be used:
   A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) or plenum-rated jacketing and insulation.
   B. Max 750 kcmil single copper conductor power cable with XLPE jacket and insulation
   C. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   D. Max 3/C No. 2/0 AWG metal clad or armored cable with steel or aluminum jacket.
   E. Max 3/C No. 8 AWG NM cable (Romex) with PVC insulation and jacket.
   F. Max four pair No. 22 AWG (or smaller) copper conductor data cable with PVC or plenum rated jacketing and insulation.
   G. Coaxial cable with fluorinated ethylene or PVC insulation and jacketing having a max diam of 5/8 in. (16 mm).
   H. Optical fiber cable with PVC or polyethylene (PE) jacket and insulation and having a max diam of 5/8 in. (16 mm).
   I. Max RG6/U coaxial cable with fluorinated ethylene, polyethylene (PE), PVC or plenum rated jacketing and insulation.

   When Series 22 EZ Path device modules are used and when the hourly rating of the wall assembly is 1 hr, the T, FT and FTH Ratings are 3/4 hr except that for Items 3F, 3G and 3H, the T, FT and FTH Ratings are 1 hr. When the hourly fire rating of the wall assembly is 2 hr or greater, the T, FT and FTH Ratings are 3/4 hr when cables are installed. When no cables are installed within the device module, the T, FT and FTH Ratings are 1 hr in 1 hr walls and 1-1/2 hr for 2, 3 and 4 hr walls. When Item 3A, 3B, 3C, 3D or 3E is used, the maximum F and FH Ratings are 2 hr. When max 200 pair No. 24 AWG telecommunication cable and/or 350 kcmil power cable is used or when Item 3F, 3G or 3H is used, the maximum F and FH Ratings are 4 hr.

   When Series 33 EZ Path device modules are used and when the hourly rating of the wall assembly is 1 hr, the T, FT and FTH Ratings are 3/4 hr. When the hourly fire rating of the wall assembly is greater than 1 hr, the T, FT and FTH Ratings are 3/4 hr when Item 3A, 3B, 3C, 3D or 3E is used. Otherwise the T, FT and FTH Ratings are 1 hr. When Item 3A, 3B, 3C, 3D or 3E is used, the maximum F and FH Ratings are 2 hr. When max 200 pair No. 24 AWG telecommunication cable is used or when Item 3F, 3G or 3H is used, the maximum F and FH Ratings are 4 hr.

   When Series 44 + EZ Path device modules are used and when Item 3A, 3B, 3C, 3D or 3E is used, the max F and FH Ratings are 3 hr and the T, FT and FTH Ratings are 1 hr. When Item 3F or 3G is used, the max F and FH Ratings are 4 hr and the T, FT and FTH Ratings are 1-1/2 hr. When Item 3H is used, the max F and FH Ratings are 4 hr and the T, FT and FTH Ratings are 2 hr. When device empty, the T, FT and FTH Ratings are 1-1/2 Hr.

   •Bearing the UL Listing Mark

   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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3 EZ PATH SLEEVE - SYSTEM NO. W-L-3377

NO SCALE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
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08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ARCH'S PROJ. NO. 9557740
OSHPD PROJ. NO. S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: DETAILS

ARCH'\ENGR. J. Flath	FD&C JOB NO. -	SHEET NO. E7.07
UCDHC PROJECT MANAGER Z. Price	SCALE AS SHOWN	
DESIGNED BY J. Luong	DATE -	
DRAWN BY J. Luong	CAD FILE -	SHEET OF

STANDARD ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
XX	NUMBERED NOTE.
-	ENLARGED PLAN OR DETAIL CALL-OUT.

TELECOM SYMBOLS

SYMBOL	DESCRIPTION
	EXISTING DATA OUTLET.
OH	EXISTING MODULAR SYSTEM FURNITURE TELE/DATA FEED.
	DATA OUTLET. PROVIDE 5" SQUARE X 2 7/8" DEEP BOX W/ 1-DEVICE RING AND PLATE. STUB 1" CONDUIT WITH 90 DEGREE BEND INTO ACCESSIBLE CEILING SPACE, TERMINATE W/ INSULATING BUSHING. CHARACTER INSIDE DENOTES THE FOLLOWING: = EMPTY BOX AND CONDUIT STUB W/ PULL STRING. = 1 ACTIVE NETWORK PORT / DROP. = 2 ACTIVE NETWORK PORTS / DROPS. = EMPTY BOX W/ PULL STRING RESERVED FOR CABLE PROVIDER. = EMPTY BOX W/ PULL STRING RESERVED FOR SATELLITE PROVIDER. = EMPTY BOX W/ PULL STRING RESERVED FOR TV INPUT DEVICES. = 1 ACTIVE PORT FOR WALL-PHONE MOUNTED AT +46" TO CENTER OF BOX. CHARACTER OUTSIDE DENOTES THE FOLLOWING: C = ABOVE COUNTER MOUNTED AT 42" TO CENTER OF BOX. WP = WEATHERPROOF.
	EXISTING CABLE TRAY.
WAP	WIRELESS ACCESS POINT, SURFACE MOUNTED.

PAGING DEVICE SYMBOLS

SYMBOL	DESCRIPTION
	FLUSH MOUNTED INTERIOR CEILING SPEAKERS FOR OVERHEAD PAGING SYSTEM, CONTRACTOR SHALL INSTALL AND CONNECT AS REQUIRED.

NURSE CALL SYMBOLS

SYMBOL	DESCRIPTION
D	CEILING OR WALL MOUNTED NURSE CALL DOME LIGHT. PROVIDE 4 11/16" SQUARE X 2 1/8" DEEP BOX W/ 1-DEVICE RING AND PLATE. FOR WALL MOUNTED DEVICES, STUB 1" CONDUIT INTO ACCESSIBLE CEILING SPACE.
CB	CODE BLUE STATION. PROVIDE 4 11/16" SQUARE X 2 1/8" DEEP BOX W/ 1-DEVICE RING AND PLATE. FOR WALL MOUNTED DEVICES, STUB 1" CONDUIT TO ACCESSIBLE CEILING SPACE.
SE	STAFF EMERGENCY STATION. PROVIDE 4 11/16" SQUARE X 2 1/8" DEEP BOX W/ 1-DEVICE RING AND PLATE. FOR WALL MOUNTED DEVICES, STUB 1" CONDUIT INTO ACCESSIBLE CEILING SPACE.

ABBREVIATIONS

1PH, 3PH	1 PHASE, 3 PHASE
1P, 2P, 3P	1 POLE, 2 POLE, 3 POLE
3W, 4W	3 WIRE, 4 WIRE
(D)	DEMO, DEMOLISH
(E)	EXISTING
(ER)	EXISTING RELOCATED
(N)	NEW
(R)	RELOCATE
	-A-
A, AMPS	AMPERES
AC	ALTERNATING CURRENT
AF	FRAME RATING IN AMPERES
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AL, ALUM	ALUMINUM
ATS	AUTO TRANSFER SWITCH
AT	TRIP RATING IN AMPERES
AWG	AMERICAN WIRE GAUGE
	-B-
BTR	BUILDING TELECOM ROOM
	-C-
C	CONDUIT
CB,C/B	CIRCUIT BREAKER
CEC	CALIFORNIA ELECTRICAL CODE
CT	CURRENT TRANSFORMER
CU	COPPER
	-D-
DC	DIRECT CURRENT
	-E-
EA	EACH
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
	-F-
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FLA	FULL LOAD AMPS
FT	FOOT OR FEET
	-G-
G, GND	GROUND
GA	GAUGE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
	-H-
HOA	HAND-OFF-AUTO
HP	HORSE POWER
	-J-
J-BOX	JUNCTION BOX
	-K-
KVA	ONE THOUSAND VOLT-AMPS
KW	ONE THOUSAND WATTS
	-L-
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
	-M-
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MT	EMPTY CONDUIT W/ PULL-LINE
	-N-
NC	NORMALLY CLOSED
NCTC	NURSE CALL TERMINAL CABINET
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
NIES	NOT INCLUDED IN ELECTRICAL SCOPE
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
	-O-
OCP	OVER-CURRENT PROTECTION
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
	-P-
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE CONDUIT
	-R-
RLA	RUNNING LOAD AMP
RSC	RIGID STEEL CONDUIT
	-S-
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SST	SOLID STATE TRIP
	-T-
TER	TELECOM EQUIPMENT ROOM
TR	TELECOM ROOM
TM	THERMAL MAGNETIC
TTB	TERMINAL BACKBOARD
	-U-
UG	UNDERGROUND
UL	UNDERWRITERS LAB.
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
	-V-
V	VOLTS
VA	VOLT-AMPS
VAC	VOLTS ALTERNATE CURRENT
	-W-
W	WATTS
WCR	WITHSTAND & CLOSING RATING
WP	WEATHERPROOF
	-X-
XFMR	TRANSFORMER
XFER	TRANSFER SWITCH

GENERAL ELECTRICAL NOTES

1. WHERE PROVIDED, THROUGH-PENETRATION FIRESTOP SYSTEM AND MEMBRANE PENETRATION DETAILS SHOWN IN THE DETAILS ARE FOR REFERENCE ONLY. THROUGH- PENETRATIONS AND MEMBRANE PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM OR MEMBRANE PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER OR AS OTHERWISE PERMITTED BY CBC, SECTION 714. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS AND MEMBRANE PENETRATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTALLATION DETAILS FOR LISTED SYSTEMS. LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS, MEMBRANE PENETRATION PROTECTION AND OTHER PERMITTED MEANS AND METHODS OF PENETRATION PROTECTION SHALL BE SUBMITTED FOR HCAI FLSO REVIEW AND APPROVAL PRIOR TO INSTALLATION.
2. ALL ELECTRICAL EQUIPMENT TO BE INSTALLED OR PERMANENTLY CONNECTED (HARDWIRED) SHALL BE LISTED, LABELED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) PER CEC 110.2.
3. ALL EQUIPMENT SHALL BE USED IN ACCORDANCE WITH LISTING PER CEC 110.3B.

SHEET INDEX

SHEET	DESCRIPTION
T0.01	ABBREVIATIONS, SYMBOLS, & SHEET INDEX
T1.01	OVERALL FIRST FLOOR PLAN - TELECOM
T2.01	ENLARGED FIRST FLOOR PLAN - DEMO & NEW TELECOM
T7.01	DETAILS
T7.02	DETAILS
T7.03	DETAILS

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S241219-34-00
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LICENSED ELECTRICAL ENGINEER No. E 09816 ELECTRICAL STATE OF CALIFORNIA
08/20/2024

Project Number KD44
Contact JOHNNY

REV	REVISION DESCRIPTION	DATE

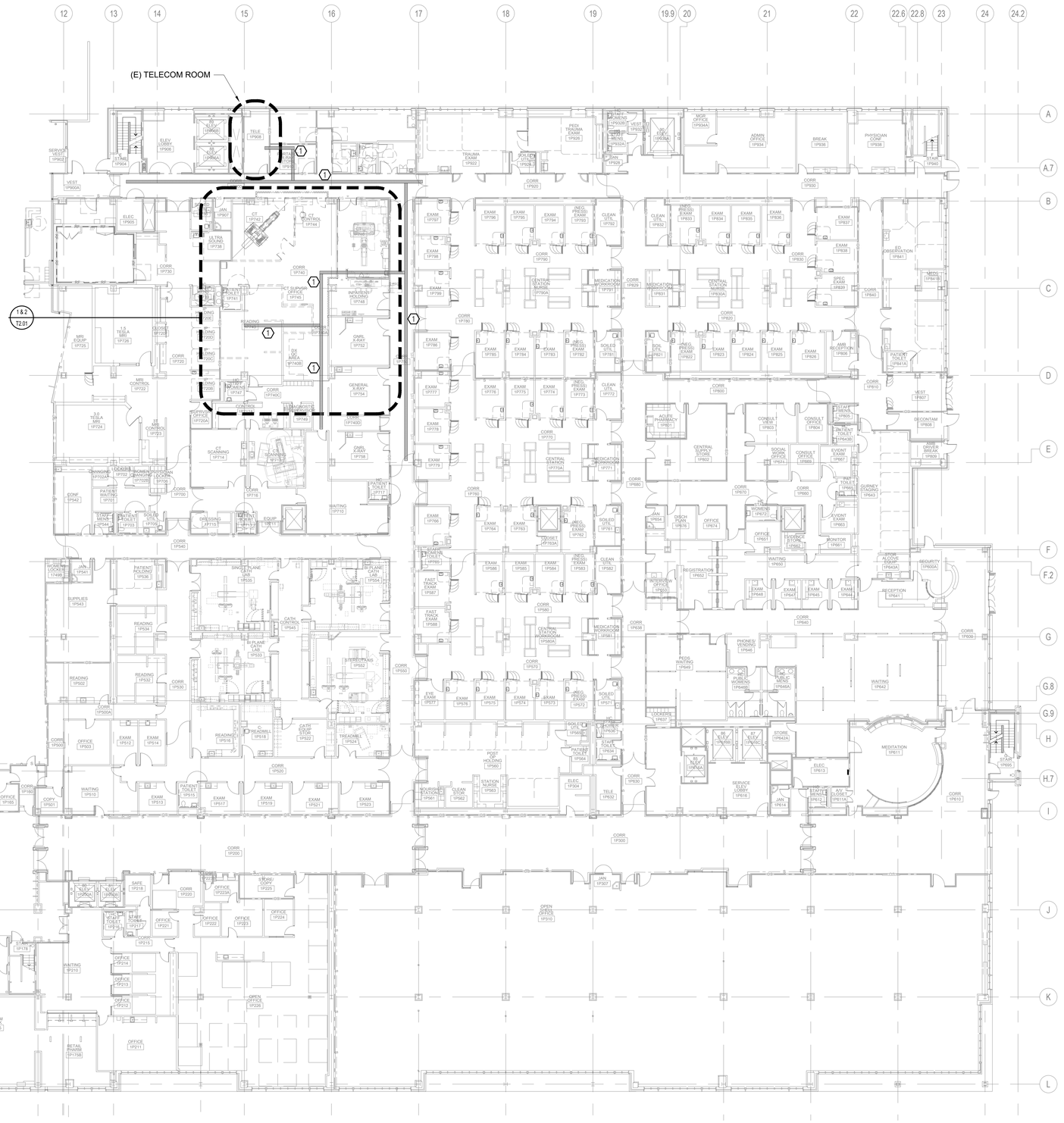
CONSTRUCTION DOCUMENTS

PROJECT NO.: 9557740
CHIP NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: ABBREVIATIONS, SYMBOLS, & SHEET INDEX

ARCH.\ENGR. J. Flath	FD&C JOB NO. -	SHEET NO. T0.01	
UCDMC PROJECT MANAGER Z. Price	SCALE AS SHOWN		
DESIGNED BY J. Luong	DATE -		
DRAWN BY J. Luong	CAD FILE -	SHEET	OF

NUMBERED NOTES

1. UTILIZED (E) CABLE TRAY TO ROUTE LOW VOLTAGE CABLING BACK TO (E) TELECOM ROOM.



1 OVERALL FIRST FLOOR PLAN - TELECOM
1/16" = 1'-0"

NORTH

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LICENSED ELECTRICAL ENGINEER No. E 26876 ELECTRICAL 08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPD NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: OVERALL FIRST FLOOR PLAN - TELECOM

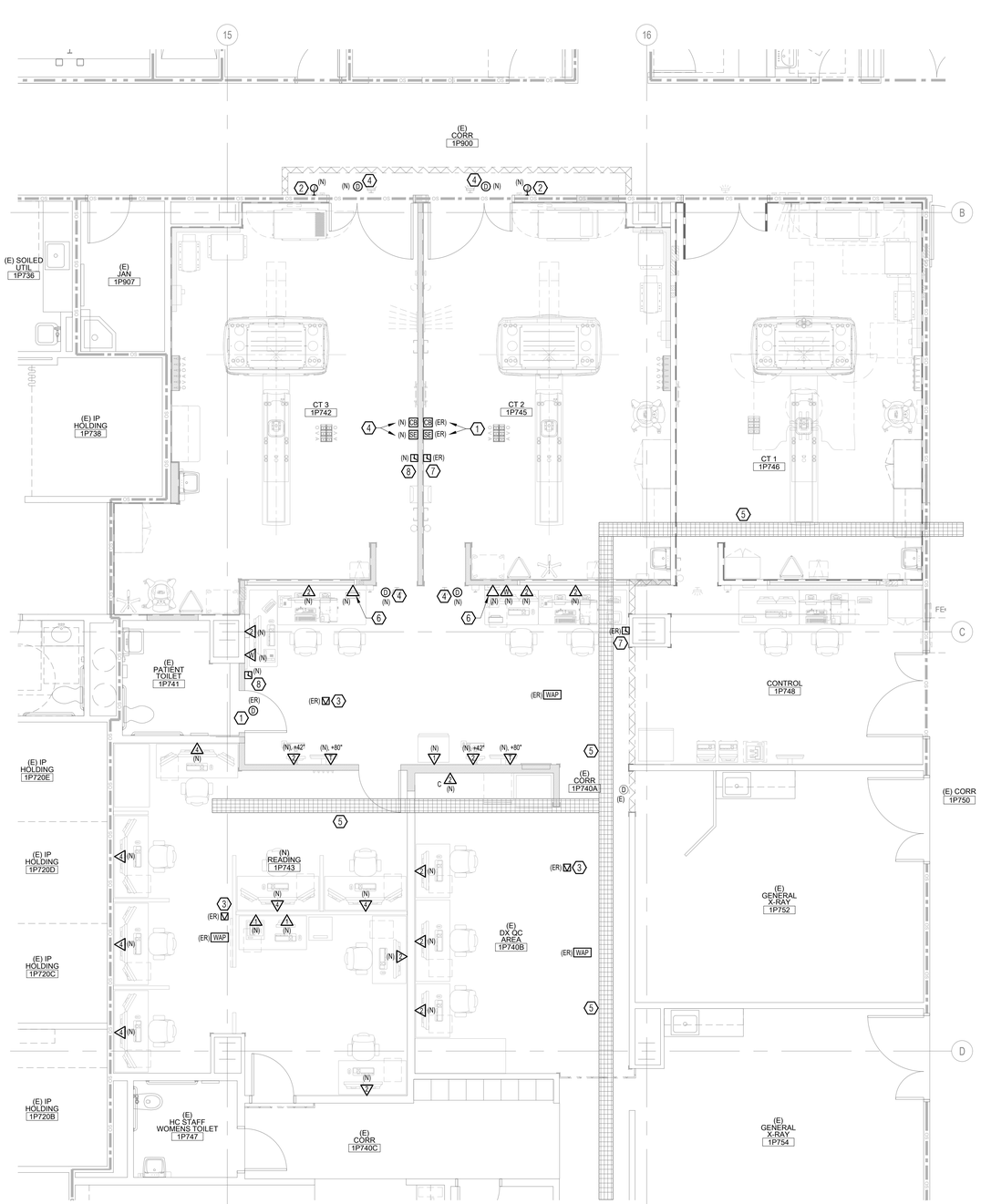
ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	-	T1.01	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	AS SHOWN		
DESIGNED BY	DATE		
J. Luong	-		
DRAWN BY	CAD FILE	SHEET	OF
J. Luong	-		

NUMBERED NOTES

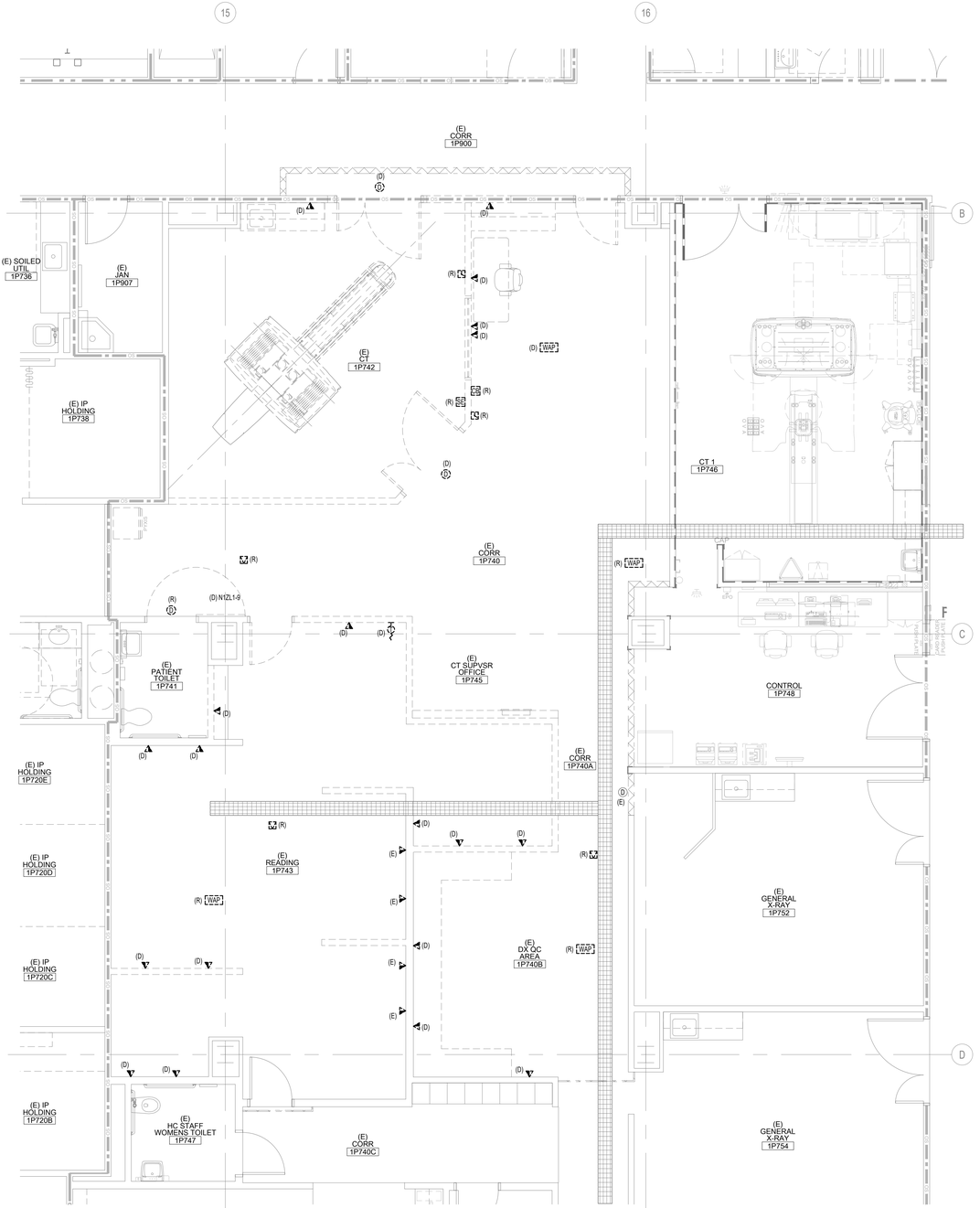
1. (ER) NURSE CALL DEVICE SHALL RECONNECT TO (E) NURSE CALL SYSTEM AS REQUIRED.
2. (N) CARD READER. PROVIDE BACK BOX AND STUB 1" MT TO ACCESSIBLE CEILING SPACE. PROVIDE INSULATING BUSHINGS.
3. (ER) SPEAKER SHALL RECONNECT TO (E) OVER HEAD PAGING SPEAKER SYSTEM AS REQUIRED.
4. CONNECT TO (E) NURSE CALL SYSTEM AS REQUIRED.
5. UTILIZED (E) CABLE TRAY TO ROUTE LOW VOLTAGE CABLING BACK TO TELECOM ROOM.
6. REFER TO PDC LIGHTING VENDOR DRAWINGS ON ELECTRICAL SHEET FOR MORE INFORMATION.
7. (ER) CLOCK SHALL RECONNECT TO (E) CLOCK SYSTEM AS REQUIRED.
8. (N) CLOCK SHALL CONNECT TO (E) CLOCK SYSTEM AS REQUIRED.

SHEET NOTES

1. SEE OVERALL FLOOR PLAN(S) FOR (E) TELECOM ROOM LOCATION.
2. DIMENSIONS INDICATED ON PLANS ARE TO THE CENTER OF THE BOX, ABOVE FINISHED FLOOR. COORDINATE FINAL MOUNTING HEIGHT WITH THE ARCHITECTURAL DRAWINGS.
3. LOCATIONS AND MOUNTING HEIGHTS OF WALL MOUNTED WIRING DEVICES SUCH AS POWER RECEPTACLES, DATA OUTLETS, SWITCHES, DIMMERS, ETC., ARE TO BE ULTIMATELY COORDINATED W/ ARCHITECTURAL DRAWINGS.
4. COORDINATE WITH FACILITY WHERE NURSE CALL DEVICES ANNUNCIATE TO.



2 ENLARGED FIRST FLOOR PLAN - NEW TELECOM
1/4" = 1'-0"



1 ENLARGED FIRST FLOOR PLAN - DEMO TELECOM
1/4" = 1'-0"

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LICENSED ELECTRICAL ENGINEER No. E 09845 ELECTRICAL STATE OF CALIFORNIA
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

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OSHPD NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: ENLARGED FIRST FLOOR PLAN - DEMO & NEW TELECOM

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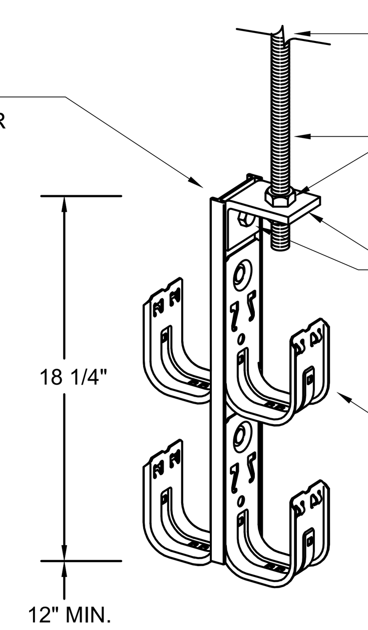
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN		
DESIGNED BY: J. Luong	DATE: -		
DRAWN BY: J. Luong	CAD FILE: -	SHEET	OF

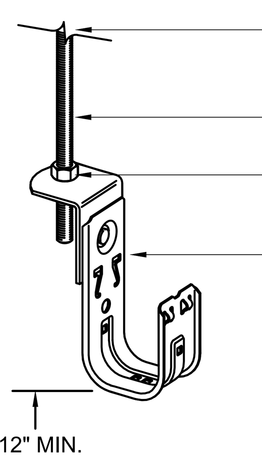


NOTES:

1. MAXIMUM LOAD PER INDIVIDUAL J-HOOK IS 30LBS.
2. MAXIMUM LOAD FOR (4) J-HOOK SYSTEM IS 120LBS.
3. LEAVE MINIMUM 25% SPACE CAPACITY FOR FUTURE CABLE INSTALLATION.
4. J-HOOK SUPPORTS SHALL BE SPACED AT 48", ON CENTER, MAX.

6 MULTI-TIER J-HOOK DETAIL

NO SCALE



NOTES:

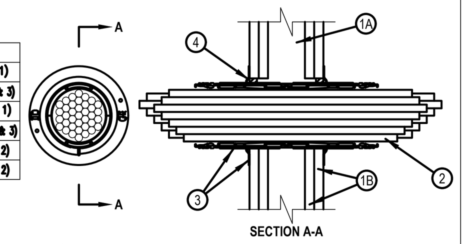
1. MAXIMUM TOTAL LOAD PER J-HOOK IS 20LBS, MAXIMUM TOTAL UNIFORM LOAD IS 5LBS PER LINEAL FOOT.
2. LEAVE MINIMUM 25% SPACE CAPACITY FOR FUTURE CABLE INSTALLATION.
3. J-HOOK SUPPORTS SHALL BE SPACED AT 48", ON CENTER, MAX.

7 J-HOOK SUPPORT DETAIL - SINGLE

NO SCALE

System No. W-L-3334

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings – 1, 2, 3 and 4 Hr (See Item 1)	F Ratings – 1, 2, 3 and 4 Hr (See Item 1)
T Ratings – 0, 1, 1-3/4, 2, 3 and 4 Hr (See Item 2 & 3)	FT Ratings – 0, 1, 1-3/4, 2, 3 and 4 Hr (See Item 2 & 3)
L Rating At Ambient – Less Than 1 CFM (See Item 2)	FH Ratings – 1, 2, 3 and 4 Hr (See Item 1)
L Ratings At 400°F – 1 and Less Than 1 CFM (See Item 2)	FTH Ratings – 0, 1, 1-3/4, 2, 3 and 4 Hr (See Item 2 & 3)
	L Rating At Ambient – Less Than 1 CFM (See Item 2)
	L Ratings At 400° F – Less Than 1 CFM (See Item 2)



1. WALL ASSEMBLY – THE 1, 2, 3 OR 4 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400, V400 OR W400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 2-1/2 IN. (64 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC. FOR 1 AND 2 HR WALL ASSEMBLIES. STEEL STUDS TO BE 3-5/8 IN. (92 MM) FOR 3 AND 4 HR WALL ASSEMBLIES.
   B. GYPSUM BOARD* – 5/8 IN. (16 MM) THICK GYPSUM BOARD AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. OPENING IN GYPSUM BOARD TO BE MAX 2-1/2 IN. (64 MM) DIAM FOR 2 IN. DEVICE AND MAX 4-1/2 IN. (114 MM) DIAM FOR 4 IN. DEVICE. THE HOURLY F AND FH RATINGS OF THE FIRESTOP SYSTEM ARE DEPENDENT UPON THE HOURLY RATING OF THE WALL IN WHICH IT IS INSTALLED.
2. CABLES – ONE OR MORE CABLES TO BE INSTALLED THROUGH 1 IN. (25 MM) DIAM HOLES DRILLED THROUGH THE GYPSUM BOARD ON BOTH SIDES OF WALL. ANY COMBINATION OF THE FOLLOWING TYPES OF CABLES MAY BE USED:
   A. MAX 100 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR TELECOMMUNICATION CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   B. MAX 7/C NO. 12 AWG COPPER CONDUCTOR CONTROL CABLE WITH PVC OR XLPE JACKET AND INSULATION.
   C. MAX 4/0 AWG TYPE RHH GROUND CABLE.
   D. MAX 4 PR NO. 22 AWG CAT 5 OR CAT 6 COMPUTER CABLES.
   E. MAX RG 6/U COAXIAL CABLE WITH FLUORINATED ETHYLENE INSULATION AND JACKETING.
   F. FIBER OPTIC CABLE WITH POLYVINYL CHLORIDE (PVC) OR POLYETHYLENE (PE) JACKET AND INSULATION HAVING A MAX DIAM OF 1/2 IN. (13 MM).
   G. MAX 20/C NO. 22 AWG SHIELDED PRINTER CABLE WITH PVC JACKET.
   H. THROUGH-PENETRATING PRODUCT* – TWO COPPER CONDUCTORS NO. 18 AWG (OR SMALLER) POWER OR NON POWER LIMITED FIRE ALARM CABLE WITH OR WITHOUT A JACKET UNDER A METAL ARMOR.
      AFC CABLE SYSTEMS INC
   I. MAX. 1/4 IN. (6 MM) DIAMETER S-VIDEO CABLE CONSISTING OF 2 MAX 24 AWG 75 OHM COAX OR TWISTED PAIR CABLE WITH PE INSULATION AND PVC JACKET.
   J. MAX 3/C NO 12 AWG MC CABLE.
   K. THROUGH PENETRATING PRODUCT* – ANY CABLES, ARMORED CABLE+ OR METAL CLAD CABLE+ CURRENTLY CLASSIFIED UNDER THE THROUGH PENETRATING PRODUCT CATEGORY. SEE THROUGH PENETRATING PRODUCT (XHLY) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
      FOR OPENING WITH CABLES, WHEN THE HOURLY RATING OF THE WALL ASSEMBLY IS 1 HR, THE T, FT AND FTH RATINGS ARE 0 HR. FOR OPENING WITH CABLES, WHEN THE HOURLY RATING OF THE WALL ASSEMBLY IS 2 HR, THE T, FT AND FTH RATINGS ARE 1-3/4 HR EXCEPT THAT, WHEN ITEM 2C, 2G, 2I, 2J OR 2K IS USED, THE T, FT AND FTH RATINGS ARE 1 HR FOR 2C, 2 OR 2I AND THE T, FT AND FTH RATINGS ARE 1/2 HR FOR 2J OR 2 K (SEE ITEM 3 ALSO). WHEN THE HOURLY RATING OF THE WALL ASSEMBLY IS 3 OR 4 HR, THE T, FT AND FTH RATINGS ARE 2 HR. FOR WALL ASSEMBLIES WITH A 3 OR 4 HR RATING, ITEMS 2G AND 2I ARE NOT TO BE USED.

   L RATINGS APPLY ONLY WHEN DEVICE FLANGES AND CP 606 OR FS-ONE SEALANT ARE USED. SEE TABLE BELOW FOR L RATINGS.

MAX CABLE FILL	CABLE TYPE	L RATING, CFM/SQ FT		L RATING, CFM	
		AMBIENT	400°F	AMBIENT	400°F
0%	-	LESS THAN 1	LESS THAN 1	LESS THAN 1	LESS THAN 1
100%	ITEM 2D ONLY	5	1	LESS THAN 1	LESS THAN 1
100%	ANY CABLES (ITEM 2) IN ANY COMBINATION	9	10	LESS THAN 1	1

3. FIRESTOP DEVICE* – FIRESTOP DEVICE CONSISTS OF A CORRUGATED STEEL TUBE WITH AN INNER PLASTIC HOUSING, INTUMESCENT MATERIAL RINGS AND TWISTED INNER FABRIC SMOKE SEAL. FIRESTOP DEVICE TO BE INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. AS AN OPTION, THE INNER FABRIC SEAL MAY REMAIN OPEN EXCEPT THAT, TO ATTAIN THE L RATING, THE INNER FABRIC SEAL SHALL BE TWISTED TO COMPLETELY CLOSE OFF THE OPENING WITHIN DEVICE. DEVICE SLID INTO WALL SUCH THAT ENDS PROJECT AN EQUAL DISTANCE FROM THE APPROXIMATE CENTERLINE OF THE WALL ASSEMBLY. THE ANNULAR SPACE BETWEEN THE DEVICE AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (POINT CONTACT). DEVICE PROVIDED WITH FLANGES THAT ARE SPUN CLOCKWISE ONTO DEVICE THREADS, BUTTING TIGHTLY TO BOTH SIDES OF WALL. DEVICE FLANGES ARE OPTIONAL. WHEN THE DEVICE FLANGES ARE NOT USED, THE T, FT AND FTH RATINGS FOR THE FIRESTOP SYSTEM ARE 0 HR. FOR BLANK OPENING (NO CABLES), THE T, FT AND FTH RATINGS FOR THE FIRESTOP SYSTEM EQUAL THE F AND FH RATINGS ONLY WHEN THE DEVICE FLANGES ARE USED. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP 653 2" SPEED SLEEVE AND CP 653 4" SPEED SLEEVE
4. FILL, VOID OR CAVITY MATERIAL* – SEALANT – MIN 1/2 IN. (13 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS BETWEEN FIRESTOP DEVICE AND WALL, FLUSH WITH BOTH SURFACES OF WALL, AND AN ADDITIONAL 1/4 IN. (6 MM) BEAD APPLIED AROUND PERIPHERY OF DEVICE. WHEN DEVICE FLANGES ARE USED, GYPSUM DRYWALL COMPOUND MAY BE USED IN PLACE OF THE FILL MATERIAL.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – FS-ONE OR CP 606 SEALANT

* BEARING THE UL CLASSIFICATION MARK

Hilti Firestop Systems

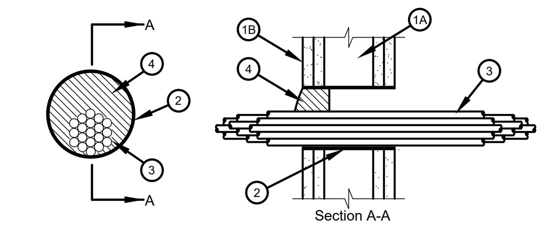
CLASSIFIED c UL US Classified by Underwriters Laboratories, Inc. STI

5 RATED THRU-WALL PEN. - SPEED SLEEVE

NO SCALE

System No. W-L-3272

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings – 1 and 2 Hr (See Item 1)	F Ratings – 1 and 2 Hr (See Item 1)
T Ratings – 0 Hr	FT Ratings – 0 Hr
	FH Ratings – 1 and 2 Hr (See Item 1)
	FTH Ratings – 0 Hr



1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400, V400 OR W400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (64 MM) WIDE, FABRICATED FROM MIN. 25 MSG GALVANIZED STEEL, SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* – NOM. 5/8 IN. (16 MM) THICK WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, NUMBER OF LAYERS AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARITION DESIGN. MAX DIA. OF OPENING IS 5-1/2 IN. (140 MM).
   THE HOURLY F AND FH RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. STEEL SLEEVE – NOM. 2 OR 4 IN. (51 OR 102 MM) DIA. SCHEDULE 5 (OR HEAVIER) STEEL PIPE SLEEVE. SLEEVE TO BE FLUSH WITH WALL SURFACES OR MAY EXTEND UP TO 12 IN. (305 MM) BEYOND EITHER OR BOTH WALL SURFACES. THE ANNULAR SPACE BETWEEN THE STEEL SLEEVE AND THE PERIPHERY OF OPENING SHALL BE MIN 0 IN. (CONTINUOUS POINT CONTACT) TO MAX. 1 IN. (25 MM). WHERE SLEEVE EXTENDS MORE THAN 2 IN. (51 MM) BEYOND WALL SURFACE IT SHALL BE RIGIDLY SUPPORTED.
3. CABLES – AGGREGATE CROSS-SECTIONAL AREA OF BUNDLED CABLES IN OPENING TO BE MAX. 50 PERCENT OF THE CROSS-SECTIONAL AREA OF THE OPENING. THE ANNULAR SPACE BETWEEN THE CABLE BUNDLE AND THE PERIPHERY OF THE OPEING OR SLEEVE TO BE MIN. 0 IN. (POINT CONTACT) TO MAX. 1 IN. CABLES TO BE TIGHTLY BUNDLED AND RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF CALBES MAY BE USED:
   A. MAX 300 PAIR NO. 24 AWG TELEPHONE CABLE WITH POLYVINYL CHLORIDE (PVC) INSULATION AND JACKET.
   B. MAX 750 KCMIL SINGLE COPPER CONNECTOR POWER CABLE WITH THERMOPLASTIC INSULATION AND PVC JACKET.
   C. MAX 7/C NO. 12 AWG MULTICONDUCTOR POWER AND CONTROL CABLE WITH PVC OR CROSS-LINKED POLYETHYLENE (XLPE) INSULATION AND PVC JACKET.
   D. MULTIPLE FIBER OPTICAL COMMUNICATION CABLE JACKETED WITH PVC AND HAVING A MAX OUTSIDE DIA. OF 1/2 IN. (13 MM).
   E. MAX 3/C NO. 12 AWG WITH BARE ALUMINUM GROUND, PVC INSULATED STEEL METAL-CLAD CABLE.
   F. MAX 1 IN. (25 MM) DIA. METAL CLAD TEK CABLE WITH PVC JACKET.
4. FIRESTOP SYSTEM – THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. FILL, VOID OR CAVITY MATERIAL* – PLUG – NOM. 2, 2.5 OR 4 IN. (51, 64 OR 102 MM) PLUG SIZED FOR THE STEEL SLEEVE FRICTION-FITTED WITHIN THE SLEEVE SUCH THAT THE OUTER CIRCUMFERENCE OF THE DOME-SHAPED PLUG IS FLUSH WITH EITHER END OF SLEEVE. PLUG CUT TO FIT AROUND THE CABLE BUNDLE AND INSTALLED TIGHTLY WITHIN THE SLEEVE.
   HILTI CONSTURCTION CHEMICALS, DIV OF HILTI INC – CP 658T FIRESTOP PLUG 2.5 OR 4 IN. OR CFS-PL FIRESTOP PLUG 2 OR 4 IN.
   B. FILL, VOID OR CAVITY MATERIAL* – SEALANT – (NOT SHOWN) – MIN. 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS BETWEEN SLEEVE AND PERIPHERY OF OPENING, FLUSH WITH EACH SIDE OF WALL. AT POINT CONTACT LOCATION, A MIN. 1/2 IN. (13 MM) BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE SLEEVE/WALL INTERFACE WHEN SLEEVE EXTENDS BEYOND SURFACE OF WALL.
   HILTI CONSTURCTION CHEMICALS, DIV OF HILTI INC – FS-ONE SEALANT OR FS-ONE MAX INTUMESCENT SEALANT

Hilti Firestop Systems

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR cUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR cUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

CLASSIFIED c UL US Classified by Underwriters Laboratories, Inc. STI

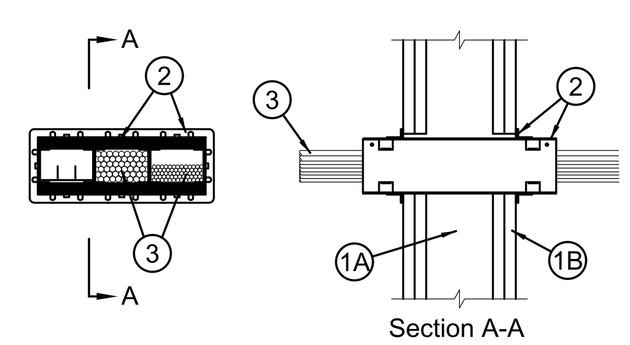
3 RATED THRU-WALL PEN. - CONDUIT

NO SCALE

System No. W-L-3218

F RATINGS – 1 AND 2 HR (SEE ITEM 1)
T RATINGS – 3/4 AND 1 HR (SEE ITEM 3)

GUIDE XHEZ
THROUGH-PENETRATION FIRESTOP SYSTEMS



1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* – 5/8 IN. (16 MM) THICK, 4 FT (1.2 M) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 1/4 IN. LARGER THAN WIDTH AND HEIGHT DIMENSIONS OF FIRESTOP DEVICE(S).
   THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. FIRESTOP DEVICE* – ONE, TWO OR THREE FIRESTOP DEVICE MODULES GANGED TOGETHER. EACH FIRESTOP DEVICE MODULE CONSISTS OF A 3 BY 3 BY 10-1/2 IN. LONG GALV STEEL TUBE WITH AN INTUMESCENT MATERIAL LINING. FIRESTOP DEVICE MODULES TO BE INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. THE SPACE BETWEEN THE FIRESTOP DEVICE MODULE(S) AND THE PERIPHERY OF THE OPENING SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 1/8 IN. FIRESTOP DEVICE MODULE(S) SECURED IN PLACE BY MEANS OF STEEL WALL PLATES SIZED TO ACCOMMODATE EITHER ONE, TWO OR THREE MODULES. WALL PLATES PROVIDED WITH A CLOSED CELL SILICONE GASKET SIZED TO LAP APPROX 1/2 IN. BEYOND THE PERIPHERY OF THE OPENING. STEEL WALL PLATES AND GASKET INSTALLED ON BOTH SIDES OF WALL AND SECURED TO EACH DEVICE BY MEANS OF STEEL SET SCREWS PROVIDED WITH DEVICE. EACH FIRESTOP DEVICE MODULE IS TO BE INSTALLED WITH ENDS PROJECTING AN EQUAL DISTANCE BEYOND EACH SURFACE OF THE WALL ASSEMBLY.

   SPECIFIED TECHNOLOGIES INC – EZ PATH

3. CABLES – WITHIN THE LOADING AREA FOR EACH FIRESTOP DEVICE MODULE, THE CABLES MAY REPRESENT A 0 TO 100% VISUAL FILL. CABLE FILL TO BE DISTRIBUTED AT A UNIFORM HEIGHT ACROSS THE WIDTH OF THE FIRESTOP DEVICE MODULE. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES OF CABLES MAY BE USED:
   A. MAX 25 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR TELECOMMUNICATION CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   B. MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   C. MAX RG/U COAXIAL CABLE WITH FLUORINATED ETHYLENE INSULATION AND JACKETING.

   WHEN THE HOURLY RATING OF THE WALL ASSEMBLY IS 1 HR, THE T RATING IS 3/4 HR. WHEN THE HOURLY RATING OF THE WALL ASSEMBLY IS 2 HR, THE T RATING IS 3/4 HR WHEN ITEM 3A IS USED. OTHERWISE THE T RATING IS 1 HR.

   * BEARING THE UL CLASSIFICATION MARK

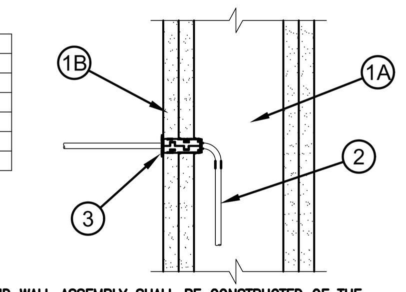
CLASSIFIED c UL US Classified by Underwriters Laboratories, Inc. STI

4 RATED THRU-WALL PEN. - EZ PATH

NO SCALE

System No. W-L-3369

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings – 1 and 2 Hr (See Item 1)	F Ratings – 1 and 2 Hr (See Item 1)
T Ratings – 1 and 2 Hr (See Item 1)	FT Ratings – 1 and 2 Hr (See Item 1)
L Rating At Ambient – Less Than 1 CFM/Device	FH Ratings – 1 and 2 Hr (See Item 1)
L Ratings At 400°F – Less Than 1 CFM/Device	FTH Ratings – 1 and 2 Hr (See Item 1)
	L Rating At Ambient – Less Than 1 CFM/Device
	L Ratings At 400° F – Less Than 1 CFM/Device



1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* – 5/8 IN. (16 MM) THICK, 4 FT (1.2 M) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY.
   THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. CABLE – ONE MAX 4 PAIR NO. 22 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PLENUM-RATED OR PVC INSULATION AND JACKET OR TWO MAX 2/C NO. 18 AWG (OR SMALLER) STRANDED COPPER CONDUCTOR CABLES WITH PLENUM-RATED OR PVC INSULATION AND JACKET. CABLE(S) TO BE ROUTED INTO STUD CAVITY THROUGH 9/16 IN. (14 MM) DIAM HOLE DRILLED THROUGH GYPSUM BOARD ON ONE SIDE OF WALL.
3. FIRESTOP DEVICE* – DEVICE CONSISTING OF PLASTIC GROMMET HALVES WITH FOAM INSERTS. PLASTIC GROMMET DEVICE SHALL BE INSTALLED AROUND CABLE AT IT'S EGRESS FROM THE GYPSUM BOARD WALL AND INSERTED IN WALL OPENING IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.

SPECIFIED TECHNOLOGIES INC – READY FIRESTOP GROMMET RFG1

* BEARING THE UL CLASSIFICATION MARK

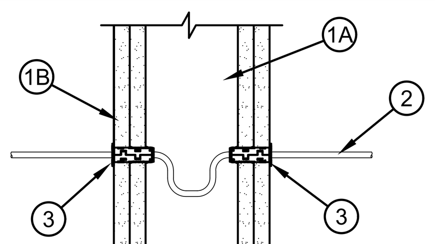
CLASSIFIED c UL US Classified by Underwriters Laboratories, Inc. STI

1 RATED WALL PENETRATION - SINGLE WIRE

NO SCALE

System No. W-L-3370

F RATINGS – 1 AND 2 HR (SEE ITEM 1)
T RATINGS – 1 AND 2 HR (SEE ITEM 1)
L RATING AT AMBIENT – LESS THAN 1 CFM/DEVICE
L RATING AT 400°F – LESS THAN 1 CFM/DEVICE



1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* – 5/8 IN. (16 MM) THICK, 4 FT (1.2 M) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY.
   THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. CABLE – ONE MAX 4 PAIR NO. 22 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PLENUM-RATED OR PVC INSULATION AND JACKET OR TWO MAX 2/C NO. 18 AWG (OR SMALLER) STRANDED COPPER CONDUCTOR CABLES WITH PLENUM-RATED OR PVC INSULATION AND JACKET. CABLE(S) TO BE ROUTED INTO STUD CAVITY THROUGH 9/16 IN. (14 MM) DIAM HOLE DRILLED THROUGH GYPSUM BOARD ON ONE SIDE OF WALL.
3. FIRESTOP DEVICE* – DEVICE CONSISTING OF PLASTIC GROMMET HALVES WITH FOAM INSERTS. PLASTIC GROMMET DEVICE SHALL BE INSTALLED AROUND CABLE AT IT'S EGRESS FROM THE GYPSUM BOARD WALL AND INSERTED IN WALL OPENING IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.

SPECIFIED TECHNOLOGIES INC – READY FIRESTOP GROMMET RFG1

* BEARING THE UL CLASSIFICATION MARK

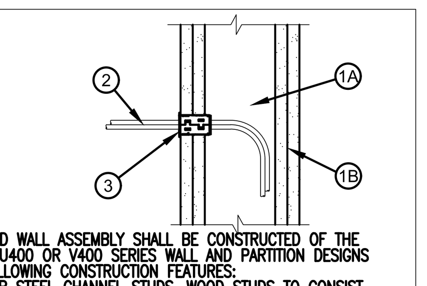
CLASSIFIED c UL US Classified by Underwriters Laboratories, Inc. STI

1 RATED THRU-WALL PEN. - SINGLE WIRE

NO SCALE

System No. W-L-3378

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings – 1 and 2 Hr (See Item 1)	F Ratings – 1 and 2 Hr (See Item 1)
T Ratings – 1 and 2 Hr (See Item 1)	FT Ratings – 1 and 2 Hr (See Item 1)
L Rating At Ambient – Less Than 1 CFM/Device	FH Ratings – 1 and 2 Hr (See Item 1)
L Ratings At 400°F – Less Than 1 CFM/Device	FTH Ratings – 1 and 2 Hr (See Item 1)
	L Rating At Ambient – Less Than 1 CFM/Device
	L Ratings At 400° F – Less Than 1 CFM/Device



1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* – 5/8 IN. (16 MM) THICK, 4 FT (1.2 M) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY.
   THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. CABLE – ONE OR MORE CABLES TO BE INSTALLED THROUGH 1 IN. (25 MM) DIAM HOLE DRILLED THROUGH THE GYPSUM ON ONE SIDE OF THE WALL. ANY COMBINATION OF THE FOLLOWING TYPES OF CABLES MAY BE USED:
   A. MAX 25 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR TELECOMMUNICATION CABLE WITH POLYVINYL CHLORIDE (PVC) OR PLENUM-RATED JACKETING AND INSULATION.
   B. MAX 3/C NO. 8 AWG NM CABLE (ROMEX) WITH PVC INSULATION AND JACKET.
   C. MAX FOUR PAIR NO. 22 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC OR PLENUM RATED JACKETING AND INSULATION.
   D. COAXIAL CABLE WITH FLUORINATED ETHYLENE OR PVC INSULATION AND JACKETING HAVING A MAX DIAM OF 1/2 IN. (13 MM).
   E. OPTICAL FIBER CABLE WITH PVC OR POLYETHYLENE (PE) JACKET AND INSULATION AND HAVING A MAX DIAM OF 1/2 IN. (13 MM).
3. FIRESTOP DEVICE* – DEVICE CONSISTING OF PLASTIC GROMMET HALVES WITH FOAM INSERTS. PLASTIC GROMMET DEVICE SHALL BE INSTALLED AROUND CABLE AT IT'S EGRESS FROM THE GYPSUM BOARD WALL AND INSERTED IN WALL OPENING IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.

SPECIFIED TECHNOLOGIES INC – READY FIRESTOP GROMMET RFG2

* BEARING THE UL CLASSIFICATION MARK

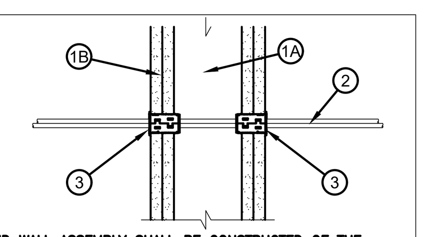
CLASSIFIED c UL US Classified by Underwriters Laboratories, Inc. STI

3 RATED WALL PENETRATION - MULTI WIRE

NO SCALE

System No. W-L-3379

F RATINGS – 1 AND 2 HR (SEE ITEM 1)
T RATINGS – 1 AND 2 HR (SEE ITEM 1)
L RATING AT AMBIENT – LESS THAN 1 CFM/DEVICE
L RATING AT 400°F – LESS THAN 1 CFM/DEVICE



1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* – 5/8 IN. (16 MM) THICK, 4 FT (1.2 M) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY.
   THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. CABLES – ONE OR MORE CABLES TO BE INSTALLED THROUGH 1 IN. (25 MM) DIAM HOLES DRILLED THROUGH THE GYPSUM BOARD ON BOTH SIDES OF WALL. ANY COMBINATION OF THE FOLLOWING TYPES OF CABLES MAY BE USED:
   A. MAX 25 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR TELECOMMUNICATION CABLE WITH POLYVINYL CHLORIDE (PVC) OR PLENUM-RATED JACKETING AND INSULATION.
   B. MAX 3/C NO. 8 AWG NM CABLE (ROMEX) WITH PVC INSULATION AND JACKET.
   C. MAX FOUR PAIR NO. 22 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC OR PLENUM RATED JACKETING AND INSULATION.
   D. COAXIAL CABLE WITH FLUORINATED ETHYLENE OR PVC INSULATION AND JACKETING HAVING A MAX DIAM OF 1/2 IN. (13 MM).
   E. OPTICAL FIBER CABLE WITH PVC OR POLYETHYLENE (PE) JACKET AND INSULATION AND HAVING A MAX DIAM OF 1/2 IN. (13 MM).
3. FIRESTOP DEVICE* – DEVICE CONSISTING OF PLASTIC GROMMET HALVES WITH FOAM INSERTS. PLASTIC GROMMET DEVICE SHALL BE INSTALLED AROUND CABLE AT IT'S EGRESS FROM THE GYPSUM BOARD WALL AND INSERTED IN WALL OPENING IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.

SPECIFIED TECHNOLOGIES INC – READY FIRESTOP GROMMET RFG2

* BEARING THE UL CLASSIFICATION MARK

CLASSIFIED c UL US Classified by Underwriters Laboratories, Inc. STI

2 RATED THRU-WALL PEN. - MULTI WIRE

NO SCALE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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916.329.4000
LICENSED ARCHITECT JOHN M FLATH No. C-21560 REN. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UC DAVIS HEALTH
Facilities Design & Construction
4800 2nd Avenue Suite 3010
Sacramento, California 95817
(916)734-7024

EDGE ELECTRICAL CONSULTING
Project Number K044
Contact JOHNNY
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine
REGISTERED PROFESSIONAL ENGINEER GORDON PAK KEI WONG No. E 018416 ELECTRICAL STATE OF CALIFORNIA
08/20/2024

REV	REVISION DESCRIPTION	DATE

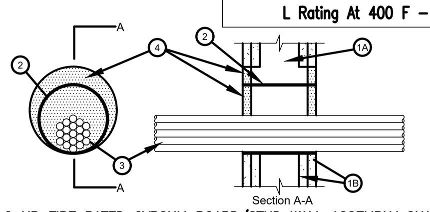
CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPH NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: DETAILS

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	T7.01
UCDMC PROJECT MANAGER	SCALE	
Z. Price	AS SHOWN	
DESIGNED BY	DATE	
J. Luong	-	
DRAWN BY	CAD FILE	SHEET / OF
J. Luong	-	

System No. W-L-3065

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings – 1 and 2 Hr (See Item 1)	F Ratings – 1 and 2 Hr (See Item 1)
T Rating – 0 and 3/4 Hr (See Item 3)	FT Ratings – 0 and 3/4 Hr (See Item 3)
L Rating At Ambient – 15 CFM/sq ft	FH Ratings – 1 and 2 Hr (See Item 1)
L Rating At 400 F – 8 CFM/sq ft	FTH Ratings – 0 and 3/4 Hr (See Item 3)
	L Rating At Ambient – 15 CFM/sq ft
	L Rating At 400 F – 8 CFM/sq ft



1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* – NOM. 5/8 IN. (16 MM) THICK GYPSUM BOARD, WITH SQUARE OR TAPERED EDGES. THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 5-1/2 IN. (138 MM) WHEN SLEEVE (ITEM 2) IS EMPLOYED. MAX. DIAM. OF OPENING IS 4 IN. (102 MM) WHEN SLEEVE (ITEM 2) IS NOT EMPLOYED.
   THE F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE FIRE RATING OF THE WALL ASSEMBLY.
2. METALLIC SLEEVE – (OPTIONAL) – NOM. 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR SCHEDULE 5 (OR HEAVIER) STEEL PIPE OR MIN. 0.016 IN. THICK (0.41 mm, NO. 28 GA) GALV STEEL SLEEVE INSTALLED FLUSH WITH WALL SURFACES. THE ANNULAR SPACE BETWEEN THE STEEL SLEEVE AND PERIPHERY OF OPENING SHALL BE MIN. 0 IN. (0 mm, POINT CONTACT) TO MAX. 1 IN. (25 MM). WHEN SCHEDULE 5 STEEL PIPE OR EMT IS USED, SLEEVE MAY EXTEND UP TO 18 IN. (467 MM) BEYOND WALL SURFACES. AS AN OPTION WHEN SCHEDULE 5 STEEL PIPE OR EMT IS USED, SLEEVE MAY EXTEND CONTINUOUSLY BEYOND ONE WALL SURFACE. WHEN CABLE BUNDLE PENETRATES WALL ASSEMBLY AT AN ANGLE OF 45 DEGREES, NO METALLIC SLEEVE IS USED.
3. CABLES – AGGREGATE CROSS-SECTIONAL AREA OF CABLE IN OPENING TO BE MAX. 45 PERCENT OF THE CROSS-SECTIONAL AREA OF THE OPENING. THE ANNULAR SPACE BETWEEN THE CABLE BUNDLE AND THE PERIPHERY OF THE OPENING SHALL BE MIN. 0 IN. (0 MM, POINT CONTACT) TO MAX. 1 IN. (25 MM). WHEN SLEEVE IS CONTINUOUS ON ONE SIDE OF WALL (SEE ITEM 2), THE CABLE FILL MAY BE 0 TO 45% AND THE MAX. ANNULAR SPACE IS NOT LIMITED. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. CABLE BUNDLE, USING CABLES DESCRIBED BELOW, MAY PENETRATE THE WALL AT AN ANGLE NOT GREATER THAN 45 DEGREES. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF COPPER CONDUCTOR CABLES MAY BE USED:
   A. MAX 7/C NO. 12 AWG WITH POLYVINYL CHLORIDE (PVC) INSULATION AND JACKET.
   B. MAX 25 PAIR NO. 24 AWG TELEPHONE CABLE WITH PVC INSULATION AND JACKET.
   B1. MAX 4 PR NO. 22 AWG CAT 5 OR CAT 6 COMPUTER CABLES.
   C. TYPE RG/U COAXIAL CABLE WITH POLYETHYLENE (PE) INSULATION AND PVC JACKET HAVING A MAX OUTSIDE DIAM. OF 1/2 IN. (13 MM).
   C1. MAX RG 6/U COAXIAL CABLE WITH FLOURINATED ETHYLENE INSULATION AND JACKETING.
   D. MULTIPLE FIBER OPTICAL COMMUNICATION CABLE JACKETED WITH PVC AND HAVING A MAX. OD OF 5/8 IN. (16 MM).
   E. THROUGH PENETRATING PRODUCTS* – MAX. THREE COPPER CONDUCTOR NO. 8 AWG .METAL-CLAD CABLE+.
   AFC CABLE SYSTEMS, INC.
   F. MAX 3/C (WITH GROUND)(OR SMALLER) NO. 8 AWG COPPER CONDUCTOR CABLE WITH PVC INSULATION AND JACKETING.
   G. MAX 3/4 IN. (19 MM) DIAM. COPPER GROUND CABLE WITH OR WITHOUT PVC JACKET.
   H. FIRE RESISTIVE CABLES* – MAX. 1-1/4 IN. (32 MM) DIAM. SINGLE CONDUCTOR OR MULTI CONDUCTOR TYPE MI CABLE. A MIN. 1/8 IN. (3 MM) SEPARATION SHALL BE MAINTAINED BETWEEN MI CABLES AND ANY OTHER TYPES OF CABLE.
   I. MAX 4/C WITH GROUND 300 KCMIL (OR SMALLER) ALUMINUM SER CABLE WITH PVC INSULATION AND JACKET.
   J. THROUGH PENETRATING PRODUCT* – ANY CABLES, METAL-CLAD CABLE+ OR ARMORED CABLE+ CURRENTLY CLASSIFIED UNDER THE THROUGH PENETRATING PRODUCTS CATEGORY.
   K. MAX 3/C NO. 8 AWG METAL-CLAD CABLE.
   L. MAX 5/8 DIAM. FIBER-OPTIC CABLE WITH PVC JACKET.
   FOR CABLE BUNDLE PENETRATING THE WALL ASSEMBLY AT AN ANGLE OF 45 DEGREES, THE T RATING IS 3/4 HR FOR A 2 HR WALL ASSEMBLY. SEE THROUGH PENETRATING PRODUCT (XHLY) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
4. FILL, VOID OR CAVITY MATERIAL* – SEALANT OR PUTTY – FILL MATERIAL APPLIED WITHIN THEN ANNULUS, FLUSH WITH EACH END OF THE STEEL SLEEVE OR WALL SURFACE. FILL MATERIAL INSTALLED SYMMETRICALLY ON BOTH SIDES OF THE WALL. A MIN. 5/8 IN. (16 MM) THICKNESS OF SEALANT IS REQUIRED FOR THE 1 OR 2 HR F RATING. AND ADDITIONAL 1/2 IN. (13 MM) DIAM. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE INTERFACE OF SLEEVE WITH GYPSUM BOARD.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC – CP601S, CP606, FS-ONE SEALANTS OR CP618 PUTTY
5. PACKING MATERIAL – (OPTIONAL, NOT SHOWN) – MINERAL WOOL FORMING MATERIAL MAY BE USED AS A BACKER FOR THE FILL MATERIAL (ITEM 4). WHEN USED, IT SHALL BE FIRMLY PACKED INTO ANNULAR SPACE WITHIN THE SLEEVE AS A PERMANENT FORM AND RECESSED FROM END OF SLEEVE TO ACCOMMODATED THE REQUIRED THICKNESS OF FILL MATERIAL.

* BEARING THE UL CLASSIFICATION MARK

\+ BEARING THE UL LISTING MARK

Hilti Firestop Systems

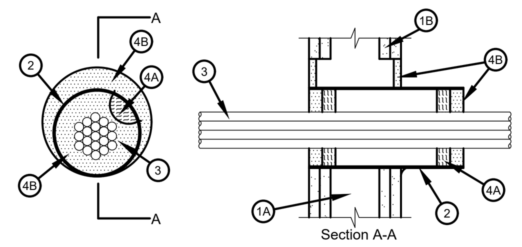
Classified by Underwriters Laboratories, Inc.

7 RATED THRU-WALL PEN. - CONDUIT

NO SCALE

System No. W-L-3210

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings – 1 and 2 Hr (See Item 1)	F Ratings – 1 and 2 Hr (See Item 1)
T Ratings – 3/4 Hr	FT Ratings – 3/4 Hr
	FH Ratings – 1 and 2 Hr (See Item 1)
	FTH Ratings – 3/4 Hr



1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* – THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, V300, U400, V400 OR W400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 4 IN. THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. STEEL SLEEVE – (OPTIONAL) – NOM. 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT), STEEL CONDUIT, SCHEDULE 5 (OR HEAVIER) STEEL PIPE SLEEVE OR MIN. 0.016 IN. THICK (0.41 mm, NO. 28 GA) GALV STEEL SLEEVE INSTALLED FLUSH WITH WALL SURFACES. THE ANNULAR SPACE BETWEEN THE STEEL SLEEVE AND PERIPHERY OF OPENING SHALL BE MIN. 0 IN. (0 mm, CONTINUOUS POINT CONTACT) TO MAX. 2 IN. (51 MM). WHEN SCHEDULE 5 STEEL PIPE OR EMT IS USED, SLEEVE MAY BE INSTALLED FLUSH WOTH OR EXTEND UP TO 18 IN. (46 CM) BEYOND ONE OR BOTH WALL SURFACES. STEEL SLEEVE MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45 DEGREES FROM PERPENDICULAR. SCHEDULE 5 STEEL PIPE OR EMT SLEEVES MAY EXTEND CONTINUOUSLY BEYOND ONE WALL SURFACE. SLEEVE TO BE RIGIDLY SUPPORTED WHEN EXTENDING FROM THE WALL SURFACES.
3. CABLES – AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN STEEL SLEEVE TO BE MAX. 48 PERCENT OF THE AGGREGATE CROSS-SECTIONAL AREA OF THE SLEEVE. CABLES TO BE BUNDLED AND RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE ANNULAR SPACE BETWEEN THE CABLES AND THE SLEEVE SHALL BE MIN. 0 IN. (0 MM, POINT CONTACT) TO MAX. 1-1/2 IN. (38 MM). CABLE BUNDLE, USING CABLES DESCRIBED BELOW, MAY PENETRATE THE WALL AT AN ANGLE NOT GREATER THAN 45 DEGREES. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF COPPER CONDUCTOR CABLE MAY BE USED:
   A. MAX 200 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   B. MAX 3/C NO. 2/0 AWG (OR SMALLER) ALUMINUM OR COPPER CONDUCTOR SERVICE ENTRANCE CABLE WITH PVC INSULATION AND JACKET.
   C. MAX 3/C NO. 8 AWG (OR SMALLER) NONMETALLIC SHEATHED (ROMEX) CABLE WITH COPPER CONDUCTORS, PVC INSULATION AND JACKET.
   D. MAX 7/C NO. 2/0 AWG (OR SMALLER) MULTICONDUCTOR POWER AND CONTROL CABLES WITH XLPE OR PVC INSULATION AND XLPE OR PVC JACKET.
   E. MAX RG/U (OR SMALLER) COAXIAL CABLE WITH FLUORINATED ETHYLENE INSULATION AND JACKETING.
   F. MAX 62.5/48 FIBER OPTIC CABLE WITH PVC INSULATION AND JACKETING.
   G. MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC INSULATION AND JACKET.
   H. MAX 4/C NO. 2/0 ALUMINUM OR COPPER CONDUCTOR ALUMINUM OR STEEL METAL-CLAD# OR ARMORED-CLAD# CABLE.
4. FIRESTOP SYSTEM – THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. PACKING MATERIAL – WHEN REQUIRED (SEE TABLE IN ITEM 3B), MIN 1 IN. (25 MM) THICKNESS OF MIN. 4.0 pcf (64 kg/m3) MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO EACH END OF SLEEVE AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM EACH END OF SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
   B. FILL, VOID OR CAVITY MATERIAL* – SEALANT OR PUTTY – FILL MATERIAL APPLIED TO APPROPRIATE THICKNESS WITHIN STEEL SLEEVE, FLUSH WITH EDGES OF STEEL SLEEVE ON BOTH SURFACES OF WALL. MIN. 1/2 IN. (13 MM) THICKNESS OF FILL MATERIAL INSTALLED INTO ANNULAR SPACE BETWEEN SLEEVE AND WALL FLUSH WITH BOTH SURFACES OF THE WALL. MIN. 1/2 IN. DIAM BEAD OF SEALANT OR "ROPE" OF PUTTY SHALL BE APPLIED AROUND THE PERIMETER OF THE SLEEVE ON EACH SIDE OF THE WALL WHEN SLEEVE EXTENDS BEYOND SURFACE OF WALL AND IS INSTALLED AT CONTINUOUS POINT CONTACT. SEE TABLE BELOW FOR FILL MATERIAL THICKNESS REQUIREMENTS AROUND CABLES:

Sealant or Putty Type	Thickness, In. (mm)	Packing Material Required
SpecSeal Series SSS Sealant or LCI Sealant	1/2 in. (13)	Yes
SpecSeal Series SSS Sealant or LCI Sealant	1 in. (25)	No
SpecSeal Putty	1 in. (25)	No

SPECIFIED TECHNOLOGIES INC – SPECSEAL SERIES SSS SEALANT, SPECSEAL LCI SEALANT OR SPECSEAL PUTTY

* BEARING THE UL CLASSIFICATION MARK

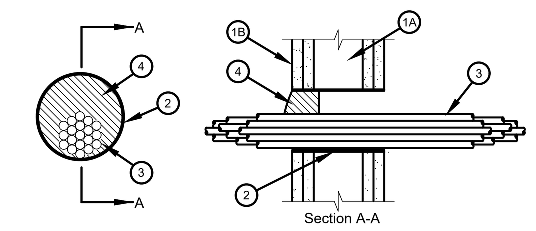
Classified by Underwriters Laboratories, Inc. STI

5 RATED THRU-WALL PEN. - CONDUIT

NO SCALE

System No. W-L-3272

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings – 1 and 2 Hr (See Item 1)	F Ratings – 1 and 2 Hr (See Item 1)
T Ratings – 0 Hr	FT Ratings – 0 Hr
	FH Ratings – 1 and 2 Hr (See Item 1)
	FTH Ratings – 0 Hr



1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400, V400 OR W400 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (64 MM) WIDE, FABRICATED FROM MIN. 25 MSG GALVANIZED STEEL, SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* – NOM. 5/8 IN. (16 MM) THICK WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, NUMBER OF LAYERS AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARITION DESIGN. MAX DIA. OF OPENING IS 5-1/2 IN. (140 MM).
   THE HOURLY F AND FH RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. STEEL SLEEVE – NOM. 2 OR 4 IN. (51 OR 102 MM) DIA. SCHEDULE 5 (OR HEAVIER) STEEL PIPE SLEEVE. SLEEVE TO BE FLUSH WITH WALL SURFACES OR MAY EXTEND UP TO 12 IN. (305 MM) BEYOND EITHER OR BOTH WALL SURFACES. THE ANNULAR SPACE BETWEEN THE STEEL SLEEVE AND THE PERIPHERY OF OPENING SHALL BE MIN 0 IN. (CONTINUOUS POINT CONTACT) TO MAX. 1 IN. (25 MM). WHERE SLEEVE EXTENDS MORE THAN 2 IN. (51 MM) BEYOND WALL SURFACE IT SHALL BE RIGIDLY SUPPORTED.
3. CABLES – AGGREGATE CROSS-SECTIONAL AREA OF BUNDLED CABLES IN OPENING TO BE MAX. 50 PERCENT OF THE CROSS-SECTIONAL AREA OF THE OPENING. THE ANNULAR SPACE BETWEEN THE CABLE BUNDLE AND THE PERIPHERY OF THE OPEING OR SLEEVE TO BE MIN. 0 IN. (POINT CONTACT) TO MAX. 1 IN. CABLES TO BE TIGHTLY BUNDLED AND RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF CALBES MAY BE USED:
   A. MAX 300 PAIR NO. 24 AWG TELEPHONE CABLE WITH POLYVINYL CHLORIDE (PVC) INSULATION AND JACKET.
   B. MAX 750 KCMIL SINGLE COPPER CONNECTOR POWER CABLE WITH THERMOPLASTIC INSULATION AND PVC JACKET.
   C. MAX 7/C NO. 12 AWG MULTICONDUCTOR POWER AND CONTROL CABLE WITH PVC OR CROSS-LINKED POLYETHYLENE (XLPE) INSULATION AND PVC JACKET.
   D. MULTIPLE FIBER OPTICAL COMMUNICATION CABLE JACKETED WITH PVC AND HAVING A MAX OUTSIDE DIA. OF 1/2 IN. (13 MM).
   E. MAX 3/C NO. 12 AWG WITH BARE ALUMINUM GROUND, PVC INSULATED STEEL METAL-CLAD CABLE.
   F. MAX 1 IN. (25 MM) DIA. METAL CLAD TEK CABLE WITH PVC JACKET.
4. FIRESTOP SYSTEM – THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. FILL, VOID OR CAVITY MATERIAL* – PLUG – NOM. 2, 2.5 OR 4 IN. (51, 64 OR 102 MM) PLUG SIZED FOR THE STEEL SLEEVE FRICTION-FITTED WITHIN THE SLEEVE SUCH THAT THE OUTER CIRCUMFERENCE OF THE DOME-SHAPED PLUG IS FLUSH WITH EITHER END OF SLEEVE. PLUG CUT TO FIT AROUND THE CABLE BUNDLE AND INSTALLED TIGHTLY WITHIN THE SLEEVE.
   HILTI CONSTURCTION CHEMICALS, DIV OF HILTI INC – CP 658T FIRESTOP PLUG 2.5 OR 4 IN. OR CFS-PL FIRESTOP PLUG 2 OR 4 IN.
   B. FILL, VOID OR CAVITY MATERIAL* – SEALANT – (NOT SHOWN) – MIN. 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS BETWEEN SLEEVE AND PERIPHERY OF OPENING, FLUSH WITH EACH SIDE OF WALL. AT POINT CONTACT LOCATION, A MIN. 1/2 IN. (13 MM) BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE SLEEVE/WALL INTERFACE WHEN SLEEVE EXTENDS BEYOND SURFACE OF WALL.
   HILTI CONSTURCTION CHEMICALS, DIV OF HILTI INC – FS-ONE SEALANT OR FS-ONE MAX INTUMESCENT SEALANT

Hilti Firestop Systems

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR cUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR cUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

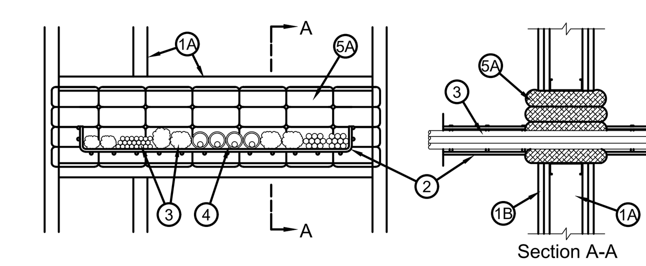
Classified by Underwriters Laboratories, Inc. STI

3 RATED THRU-WALL PEN. - CONDUIT

NO SCALE

System No. W-L-4043

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings – 1 and 2 Hr (See Item 1)	F Ratings – 1 and 2 Hr (See Item 1)
T Ratings – 3/4, 1 and 2 Hr (See Items 3 & 4)	FT Ratings – 3/4, 1 and 2 Hr (See Item 3 & 4)
	FH Ratings – 1 and 2 Hr (See Item 1)
	FTH Ratings – 3/4, 1 and 2 Hr (See Item 3 & 4)



1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U400, V400 OR W400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED 24 IN. (406 MM) OC. ADDITIONAL HORIZONTAL STUDS INSTALLED TO FORM A BOX AROUND THE CABLE TRAY (ITEM 2).
   B. GYPSUM BOARD* – THICKNESS, TYPE, NUMBER OF LAYERS, ORIENTATION AND FASTENERS SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX AREA OF OPENING SHALL BE 234 SQ IN. (1510 CM2) WITH A MAX DIMENSION OF 29-1/4 IN. (743 MM).
   THE HOURLY F RATING OF THE FIRESTOP SYSTEM ARE DEPENDENT UPON THE HOURLY RATING OF THE WALL IN WHICH IT IS INSTALLED.
2. CABLE TRAY – NOM 24 IN. (610 MM) WIDE BY 2 IN. (51 MM) HIGH (OR SMALLER) WELDED WIRE BASKET CABLE TRAY FORMED FROM MIN 0.21 IN. (0.52 MM) THICK (5 AWG) STEEL AND HAVING A MAX 2 BY 4 IN. (51 BY 102 MM) GRID SPACING. THE ANNULAR SPACE BETWEEN THE CABLE TRAY AND THE PERIPHERY OF THE OPENING SHALL BE MIN 1 IN. (25 MM) TO MAX 5 IN. (127 MM). CABLE TRAY TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. CABLES – MAX 2 IN. (51 MM) DEEP CABLE LOADING WITHIN CABLE TRAY CONSISTING OF THE FOLLOWING TYPES AND SIZES OF CABLES:
   A. MAX 4 PAIR NO. 24 AWG COPPER CONDUCTOR CABLES WITH POLYVINYL CHLORIDE (PVC) JACKET AND INSULATION.
   B. MAX RG/U COPPER CONDUCTOR COAXIAL CABLE WITH FLUORINATED ETHYLENE JACKET AND INSULATION.
   C. ANY MAX 4/C NO. 10 AWG ALUMINUM OR COPPER CONDUCTOR METAL-CLAD CABLE+ OR ARMORED CABLE+ WITH STEEL OR ALUMINUM JACKET CURRENTLY CLASSIFIED UNDER THE THROUGH PENETRATING PRODUCTS CATEGORY. SEE THROUGH-PENETRATING PRODUCTS (XHLY) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
   WHEN ITEM 3A IS USED, THE T RATING IS 1 HR. WHEN ITEM 3B OR 3C IS USED, THE T RATING IS 3/4 HR.
4. OPTICAL FIBER RACEWAY+ – ONE OR MORE MAX 2 IN. (51 MM) DIAM (OR SMALLER) OPTICAL FIBER RACEWAYS (INNERDUCT) FORMED FROM POLYVINYL CHLORIDE (PVC) OR POLYVINYLIDENE FLUORIDE (PVDF) WITH FIBER OPTIC CABLE FILL. RACEWAYS INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NFPA NO. 70). RACEWAYS MAY BE USED IN ADDITION TO THE CABLE TYPES LISTED IN ITEM 3.
   SEE OPTICAL FIBER RACEWAY (QAZM) CATEGORY IN THE ELECTRICAL CONSTRUCTION EQUIPMENT DIRECTORY FOR NAMES OF MANUFACTURERS. WHEN ONLY ITEM 4 IS USED, THE T RATING IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
5. FIRESTOP SYSTEM – THE FIRESTOP SYSTEM CONSISTS OF THE FOLLOWING ITEMS:
   A. FILL, VOID OR CAVITY MATERIAL* – PILLOWS – MAX 9 IN. (229 MM) LONG BY 3 IN. (76 MM) THICK BY 6 IN. (152 MM) WIDE PLASTIC JACKETED INTUMESCENT PILLOWS TIGHTLY-PACKED LENGTHWISE THROUGH OPENING SUCH THAT ENDS PROJECT AN EQUAL DISTANCE FROM THE APPROXIMATE CENTERLINE OF THE WALL ASSEMBLY.

   SPECIFIED TECHNOLOGIES INC. – SPECSEAL FIRESTOP PILLOWS

   B. FILL, VOID OR CAVITY MATERIAL* – PUTTY (NOT SHOWN) – MIN 1/2 IN. (13 MM) THICKNESS OF PUTTY APPLIED TO FILL ANY SMALL GAPS OR VOIDS BETWEEN CABLES OR BETWEEN THE CABLES AND THE PILLOWS ON BOTH SIDES OF THE WALL ASSEMBLY.

   SPECIFIED TECHNOLOGIES INC. – SPECSEAL PUTTY

* BEARING THE UL CLASSIFICATION MARK

\+ BEARING THE UL LISTING MARK

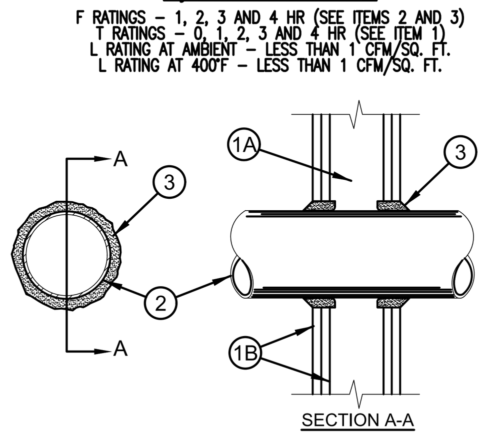
Classified by Underwriters Laboratories, Inc. STI

1 RATED THRU-WALL PEN. - CABLE TRAY

NO SCALE

System No. W-L-1001

F RATINGS – 1, 2, 3 AND 4 HR (SEE ITEMS 2 AND 3)
T RATINGS – 0, 1, 2, 3 AND 4 HR (SEE ITEM 1)
L RATING AT AMBIENT – LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F – LESS THAN 1 CFM/SQ. FT.



1. WALL ASSEMBLY – THE 1, 2, 3 OR 4 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* – 5/8 IN. (16 MM) THICK, 4 FT (1.2 M) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 4 IN. THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. THROUGH PENETRANT – ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (0 MM) (POINT CONTACT) TO MAX 2 IN. (51 MM). PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
   A. STEEL PIPE – NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   B. IRON PIPE – NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
   C. CONDUIT – NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
   D. COPPER TUBING – NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   E. COPPER PIPE – NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   F. THROUGH PENETRATING PRODUCT* – FLEXIBLE METAL PIPING – THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:
      1. NOM 2 IN. (51 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. OMEGA FLEX INC.
      2. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. TITEFLEX CORP, A BUNDY CO.
      3. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. WARD MFG INC.
3. FILL, VOID OR CAVITY MATERIAL* – CAULK OR SEALANT – MIN 5/8. 1-1/4,1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT CONTACT LOCATION ON BOTH SIDES OF WALL.
   THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE:
   THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE:

MAX PIPE OR CONDUIT DIAM IN. (MM)	F RATING HR	T RATING HR
1 (25)	1 OR 2	0+,1 OR 2
1 (25)	3 OR 4	3 OR 4
4 (102)	1 OR 2	0
6 (152)	3 OR 4	0
12 (305)	1 OR 2	0

3M COMPANY – CP 25WB+ CAULK OR FB-3000 WT SEALANT

+WHEN COPPER PIPE IS USED, T RATING IS 0 HR.

* BEARING THE UL CLASSIFICATION MARK

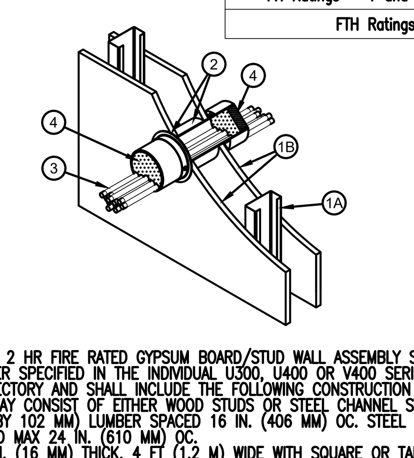
Classified by Underwriters Laboratories, Inc. 3M

8 RATED THRU-WALL PEN. - PIPE/CONDUIT

NO SCALE

System No. W-L-3275

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings – 1 and 2 Hr (See Item 1)	F Ratings – 1 and 2 Hr (See Item 1)
T Ratings – 0 Hr	FT Ratings – 0 Hr
	FH Ratings – 1 and 2 Hr (See Item 1)
	FTH Ratings – 0 Hr



1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* – 5/8 IN. (16 MM) THICK, 4 FT (1.2 M) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 4 IN. THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. FIRESTOP DEVICE* – STEEL SLEEVE DEVICE CENTERED WITHIN OPENING AND INSTALLED IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. STEEL SLEEVE DEVICE SECURED IN PLACE BY MEANS OF STEEL ESCUTCHEON PLATES INSTALLED WITH GASKETING MATERAIL SUPPLIED WITH PRODUCT. STEEL ESCUTCHEON PLATES INSTALLED ON BOTH SIDES OF WALL AND SECURED TO DEVICE BY MEANS OF STEEL SCREWS PROVIDED WITH DEVICE. STEEL SLEEVE DEVICE PROVIDED IN NOM 1, 2 AND 4 IN. SIZES. THE MIN. AND MAX. OPENING SIZES FOR EACH SLEEVE DEVICE ARE SHOWN IN THE TABLE BELOW:

Device Size	Min Opening Size	Max Opening Size
1 in. (25 mm)	1.12 in. (28 mm)	1.25 in. (32 mm)
2 in. (51mm)	2.38 in. (60 mm)	2.50 in. (64 mm)
4 in. (102 mm)	4.50 in. (114 mm)	4.50 in. (114 mm)

   SPECIFIED TECHNOLOGIES INC – FS100, FS200, FS201, FS400 AND FS401 SPECSEAL READY-SLEEVES

3. CABLES – AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN STEEL SLEEVE TO BE MAX. 48 PERCENT OF THE AGGREGATE CROSS-SECTIONAL AREA OF THE SLEEVE. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF COPPER CONDUCTOR CABLE MAY BE USED:
   A. MAX 200 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   B. MAX 3/C NO. 2/0 AWG (OR SMALLER) ALUMINUM OR COPPER CONDUCTOR SERVICE ENTRANCE CABLE WITH PVC INSULATION AND JACKET.
   C. MAX 3/C NO. 8 AWG (OR SMALLER) NONMETALLIC SHEATHED (ROMEX) CABLE WITH COPPER CONDUCTORS, PVC INSULATION AND JACKET.
   D. MAX 7/C NO. 2/0 AWG (OR SMALLER) MULTICONDUCTOR POWER AND CONTROL CABLES WITH XLPE OR PVC INSULATION AND XLPE OR PVC JACKET.
   E. MAX RG/U (OR SMALLER) COAXIAL CABLE WITH FLUORINATED ETHYLENE INSULATION AND JACKETING.
   F. MAX 62.5/48 FIBER OPTIC CABLE WITH PVC INSULATION AND JACKETING.
   G. MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH PVC INSULATION AND JACKET.
   H. MAX 4/C NO. 2/0 ALUMINUM OR COPPER CONDUCTOR ALUMINUM OR STEEL METAL-CLAD# OR ARMORED-CLAD# CABLE.
4. FILL, VOID OR CAVITY MATERIAL* – PUTTY – FILL MATERIAL SUPPLIED WITH FIRESTOP DEVICE (ITEM 2) APPLIED TO 1 IN. (25 MM) THICKNESS FLUSH WITH EACH END OF STEEL SLEEVE DEVICE. AT POINT CONTACT LOCATION, MIN 3/8 IN. (9 MM) DIAM BEAD OF FILL MATERIAL APPLIED AT GROUPED CABLE/STEEL SLEEVE INTERFACE ON EACH SIDE OF WALL.

   SPECIFIED TECHNOLOGIES INC – SPECSEAL PUTTY

* BEARING THE UL CLASSIFICATION MARK

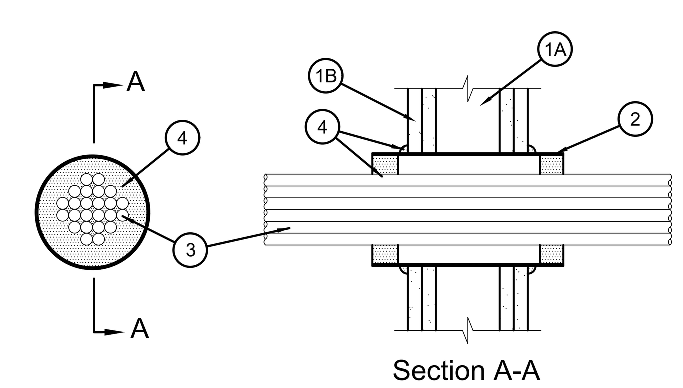
Classified by Underwriters Laboratories, Inc. STI

6 RATED THRU-WALL PEN. - READY SLEEVE

NO SCALE

System No. W-L-3132

F RATINGS – 1 AND 2 HR (SEE ITEM 1)
T RATINGS – 0 HR



1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* – 5/8 IN. (16 MM) THICK, 4 FT (1.2 M) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 4 IN. THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. STEEL SLEEVE – NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR SCHEDULE 5 (OR HEAVIER) STEEL PIPE FRICTION-FIT INTO WALL ASSEMBLY. SLEEVE INSTALLED SUCH THAT THE ENDS PROJECT 1-1/2 TO 2 IN. BEYOND EACH SIDE OF THE WALL.
3. CABLES – AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN SLEEVE TO BE MAX 48 PERCENT OF THE CROSS-SECTIONAL AREA OF THE SLEEVE. TIGHT BUNDLE OF CABLES TO BE CENTERED WITHIN THE STEEL SLEEVE. THE ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM SHALL BE A NOM 1/2 IN. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF CABLES MAY BE USED:
   A. MAX 200 PAIR NO. AWG (OR SMALLER) COPPER CONDUCTOR CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   B. MAX 3/C NO. 2/0 AWG (OR SMALLER) ALUMINUM OR COPPER CONDUCTOR SERVICE ENTRANCE CABLE WITH PVC INSULATION AND JACKET.
   C. MAX 3/C NO. 8 AWG (OR SMALLER) NONMETALLIC SHEATHED (ROMEX) CABLE WITH COPPER CONDUCTORS, PVC INSULATION AND JACKET.
   D. MAX 7/C NO. 2/0 AWG (OR SMALLER) MULTICONDUCTOR POWER AND CONTROL CABLES WITH XLPE OR PVC INSULATION AND XLPE OR PVC JACKET.
   E. MAX RG59/U (OR SMALLER) COAXIAL CABLE WITH FLUORINATED ETHYLENE INSULATION AND JACKETING.
   F. MAX 62.5/48 FIBER OPTIC CABLE WITH PVC INSULATION AND JACKETING.
   G. MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR DATA CABLE WITH HYLAR INSULATION AND JACKET.
4. FILL, VOID OR CAVITY MATERIAL* – PUTTY – MIN 1 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH ENDS OF SLEEVE. A NOM 1/4 IN. DIAM CONTINUOUS "ROPE" OF PUTTY SHALL BE APPLIED AROUND THE CIRCUMFERENCE OF THE STEEL SLEEVE AT ITS EGRESS FROM BOTH SIDES OF THE WALL.

   SPECIFIED TECHNOLOGIES INC – SPECSEAL PUTTY

5. FILL, VOID OR CAVITY MATERIAL* – SEALENT – AS AN OPTION TO THE "ROPE" OF PUTTY, A MIN 1/4 IN. DIAM BEAD OF SEALANT MAY APPLIED AT THE GYPSUM WALLBOARD/STEEL SLEEVE INTERFACE ON BOTH SIDES OF THE WALL.

   SPECIFIED TECHNOLOGIES INC – SPECSEAL SERIES 100 OR SERIES LC SEALANT

* BEARING THE UL CLASSIFICATION MARK

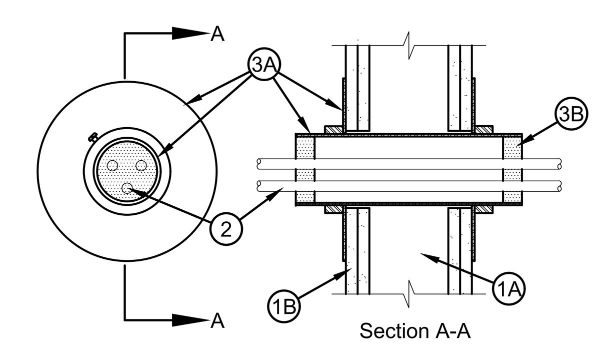
Classified by Underwriters Laboratories, Inc. STI

4 RATED THRU-WALL PEN. - READY PATH

NO SCALE

System No. W-L-3137

F RATINGS – 1 AND 2 HR (SEE ITEM 1)
T RATINGS – 0 HR



1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-1/2 IN. (89 MM) WIDE AND SPACED MAX 24 IN. (610 MM) OC.
   B. GYPSUM BOARD* – 5/8 IN. (16 MM) THICK, 4 FT (1.2 M) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM BOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 4 IN. THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. CABLES – AGGREGATE CROSS-SECTIONAL AREA OF CABLES IN SLEEVE TO BE MIN 8 PERCENT TO MAX. 48 PERCENT OF THE AGGREGATE CROSS-SECTIONAL AREA OF THE SMOOTH SLEEVE. CABLES TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. ANY COMBINATION OF THE FOLLOWING TYPES AND SIZES OF CABLES MAY BE USED:
   A. MAX 200 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR CABLE WITH POLYVINYL CHLORIDE (PVC) JACKETING AND INSULATION.
   B. MAX 1/C, 750 KCMIL POWER CABLE WITH COPPER CONDUCTORS AND CROSS-LINKED POLYETHYLENE (XLPE) JACKETING.
   C. MAX 3/C NO. 2/0 AWG (OR SMALLER) ALUMINUM OR COPPER CONDUCTOR SERVICE ENTRANCE CABLE WITH PVC INSULATION AND JACKET.
   D. MAX 3/C NO. 8 AWG (OR SMALLER) NONMETALLIC SHEATHED (ROMEX) CABLE WITH COPPER CONDUCTORS, PVC INSULATION AND JACKET.
   E. MAX 7/C NO. 2/0 AWG (OR SMALLER) MULTICONDUCTOR POWER AND CONTROL CABLES WITH XLPE OR PVC INSULATION AND XLPE OR PVC JACKET.
   F. MAX RG59/U (OR SMALLER) COAXIAL CABLE WITH FLUORINATED ETHYLENE INSULATION AND JACKETING.
   G. MAX 62.5/48 FIBER OPTIC CABLE WITH PVC INSULATION AND JACKETING.
   H. MAX 4 PAIR NO. 24 AWG (OR SMALLER) COPPER CONDUCTOR CATEGORY 5 WITH HYLAR INSULATION AND JACKET.
3. FIRESTOP SYSTEM – THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. FIRESTOP DEVICE* – SMOOTH STEEL SLEEVE DEVICE INCORPORATING FLAT WASHERS SECURED BY SLIDING COMPRESSION COUPLERS. DEVICE SHALL BE INSTALLED AROUND CABLES IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. DEVICE PROVIDED IN NOM 1, 2 AND 4 IN. SIZES. MAX DIAM OF OPENING IN WALL FOR 1, 2 AND 4 IN. SIZE DEVICES ARE 1-1/4, 2-7/16 AND 4-1/2 IN. RESPECTIVELY.

   UNIQUE FIRE STOP PRODUCTS INC – SMOOTH SLEEVE

   B. FILL, VOID OR CAVITY MATERIAL* – SEALANT OR PUTTY – MIN 1 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE SMOOTH SLEEVE, FLUSH WITH BOTH ENDS.

   SPECIFIED TECHNOLOGIES INC – SPECSEAL SERIES SSS SEALANT OR SPECSEAL LCI SEALANT

* BEARING THE UL CLASSIFICATION MARK

Classified by Underwriters Laboratories, Inc. STI

2 RATED THRU-WALL PEN. - SMOOTH SLEEVE

NO SCALE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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LICENSED ARCHITECT JOHN M FLATH No. C-21560 REN. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

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Facilities Design & Construction
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EDGE ELECTRICAL CONSULTING
Project Number K044
Contact JOHNNY
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Sacramento, CA 95811
916.256.2460
Sacramento | Alameda | Irvine

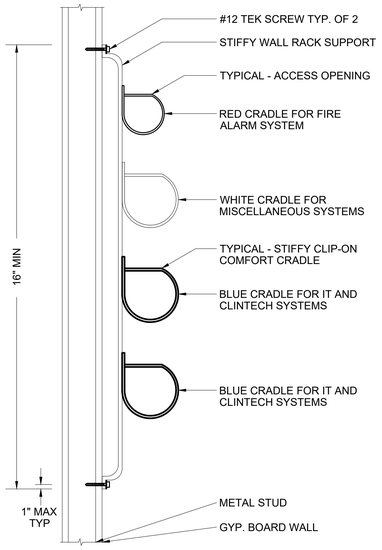
REGISTERED PROFESSIONAL ENGINEER GORDON PAK KEI WONG No. E 018416 ELECTRICAL STATE OF CALIFORNIA
08/20/2024

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO.: 9557740
OSHPH NO.: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: DETAILS

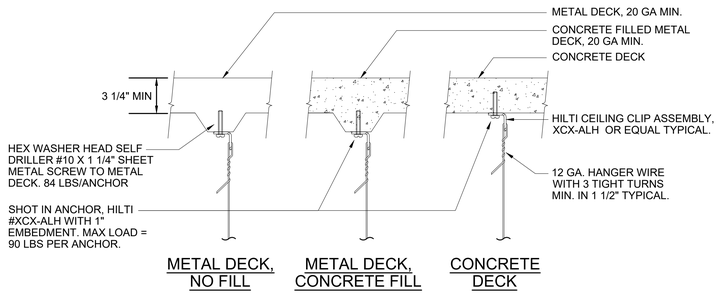
ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	T7.02
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: J. Luong	DATE: -	
DRAWN BY: J. Luong	CAD FILE: -	SHEET / OF



NOTES:
1. CRADLE FILL CAPACITY:
   2" CRADLE: UP TO 66 EA. CAT6A.
   3-1/2" CRADLE: UP TO 202 EA. CAT6A.
2. MAXIMUM SUPPORT SPACING: 4 FEET ON CENTER
3. MAXIMUM LOAD FOR WALL RACK: 80 LBS
4. PROVIDE A MINIMUM WORKING CLEARANCE OF 18" ON THE CABLE PLACEMENT SIDE OF THE CABLE SUPPORTS
5. PROVIDE A MAXIMUM CLEARANCE OF 9" AND MAXIMUM CLEARANCE OF 36" FROM THE CEILING GRID TO STIFFY CABLE.

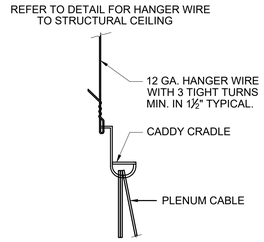
6 WALL RACK STIFFY COMFORT CRADLE SUPPORT DETAIL

NO SCALE



5 STIFFY SUPPORT WALL MOUNTED - SINGLE

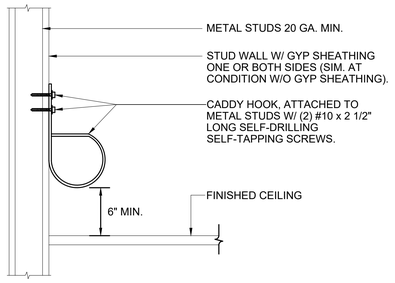
NO SCALE



ALL LOW VOLTAGE HANGERS TO BE CADDY:
1. CAT 12.
2. CAT 12 4Z 34
3. CAT 21
4. CAT 21 4Z 34

4 HANGER WIRE TO STRUCTURAL CEILING DETAIL

NO SCALE

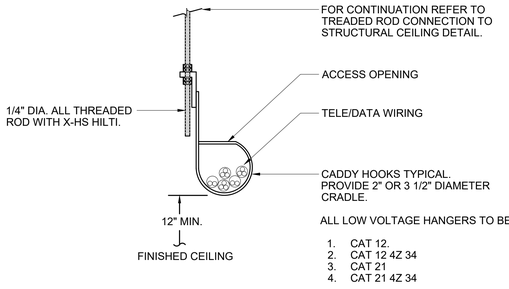


ALL LOW VOLTAGE HANGERS TO BE CADDY:
1. CAT 12.
2. CAT 12 4Z 34
3. CAT 21
4. CAT 21 4Z 34

NOTES:
1. MAXIMUM TOTAL LOAD PER STIFFY IS 20LBS, MAXIMUM TOTAL UNIFORM LOAD IS 5LBS PER LINEAL FOOT.
2. LEAVE MINIMUM 25% SPACE CAPACITY FOR FUTURE CABLE INSTALLATION.
3. STIFFY SUPPORTS SHALL BE SPACED AT 48", ON CENTER, MAX.
4. CONTRACTOR TO DETERMINE EXACT QUANTITY AND SIZE OF LOOPS REQUIRED.

1 STIFFY WITH WIRE SUPPORT DETAIL

NO SCALE



ALL LOW VOLTAGE HANGERS TO BE CADDY:
1. CAT 12.
2. CAT 12 4Z 34
3. CAT 21
4. CAT 21 4Z 34

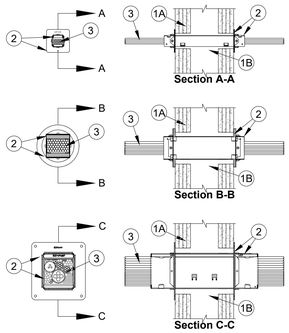
NOTES:
1. MAXIMUM TOTAL LOAD PER STIFFY IS 20LBS, MAXIMUM TOTAL UNIFORM LOAD IS 5LBS PER LINEAL FOOT.
2. MAXIMUM TOTAL PER HANGER IS 40LBS.
3. LEAVE MINIMUM 25% SPACE CAPACITY FOR FUTURE CABLE INSTALLATION.
4. STIFFY SUPPORTS SHALL BE SPACED AT 48", ON CENTER, MAX.
5. PROVIDE A MINIMUM WORKING CLEARANCE OF 18" ON THE CABLE PLACEMENT SIDE OF THE CABLE SUPPORT.

2 J-HOOK SUPPORT DETAIL - SINGLE (STIFFY COMFORT CRADLE)

NO SCALE

System No. W-L-3377

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1, 2, 3 and 4 Hr (See Item 1)	F Ratings - 1, 2, 3 and 4 Hr (See Item 1)
T Rating - 0, 1/2, 3/4, 1, 1-1/2 and 2 Hr (See Item 3)	FT Rating - 0, 1/2, 3/4, 1, 1-1/2 and 2 Hr (See Item 3)
L Rating At Ambient - Less than 1 to 7 CFM/Device Module (See Item 2)	FH Ratings - 1, 2, 3 and 4 Hr (See Item 1)
L Rating at 400 F - Less than 1 to 3 CFM/Device Module (See Item 2)	FTH Rating -0, 1/2, 3/4, 1, 1-1/2 and 2 Hr (See Item 3)
	L Rating At Ambient - Less than 1 to 7 CFM/Device Module (See Item 2)
	L Rating at 400 F - Less than 1 to 3 CFM/Device Module (See Item 2)



1. **Wall Assembly -** The 1, 2, 3 or 4 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within the individual U300, U400, V400 or W400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
   A. **Studs -** Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board* -** Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. See Table for opening sizes.

   The hourly F and FH Ratings are dependent upon the hourly rating of the wall in which it is installed.
2. **Firestop Device* -** Series 22 EZ Path device modules consist of a 1.4 by 1.4 by 10-1/2 in. (36 by 36 by 267 mm) long galv steel tube with an intumescent material lining. Series 33 EZ Path device modules consist of a 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long galv steel tube with an intumescent material lining. Series 44+ EZ Path device modules consist of a 4 by 4-5/8 by 14 in. (102 by 118 by 356 mm) long galv steel tube with an intumescent material lining. Firestop device modules to be installed in accordance with the accompanying installation instructions. Firestop device modules secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device by means of steel screws provided with device. Firestop device module is to be installed with ends projecting an equal distance beyond each surface of the wall assembly. The annular space between the device and opening shall be min 0 in. (point contact) to max 1/8 in. (3 mm) for Series 22 device, max 1/2 in. (13 mm) for Series 33 device and max 1/4 in. (6 mm) for Series 44 device. The opening size and L Ratings for each device vary according to whether device module is blank (no cables) or loaded (with cables) and which cable type and size is used, as tabulated below:

   SPECIFIED TECHNOLOGIES INC - EZ PATH Series 22, 33 or 44+ Fire Rated Pathway

2A. **Firestop Device* - Extension Module -** (Optional, Not Shown) - Module attached to ends of Series 33, Series 44 or Series 44+ firestop device (Item 2) to increase its length to facilitate installation in thicker walls. Each module consists of a galv steel tube with an intumescent material lining. Extension module to be installed in accordance with the accompanying installation instructions. When module is used, firestop device (Item 2) and extension module(s) secured in place by means of steel wall plates installed with gasketing material supplied with product. Steel wall plates installed on both sides of wall and secured to each device or extension module(s) by means of steel set screws provided with wall plates. Firestop device and extension module(s) assembly to be installed with ends projecting an equal distance beyond each surface of the wall assembly.

   SPECIFIED TECHNOLOGIES INC - EZ PATH Series 33 or Series 44+ Extension

3. **Cables -** Cables may represent a 0 to 100 percent visual fill within the loading area for the firestop device module. Cables to be rigidly supported on both sides of the wall assembly. Any combination of the following types of cables may be used:
   A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) or plenum-rated jacketing and insulation.
   B. Max 750 kcmil single copper conductor power cable with XLPE jacket and insulation
   C. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   D. Max 3/C No. 2/0 AWG metal clad or armored cable with steel or aluminum jacket.
   E. Max 3/C No. 8 AWG NM cable (Romex) with PVC insulation and jacket.
   F. Max four pair No. 22 AWG (or smaller) copper conductor data cable with PVC or plenum rated jacketing and insulation.
   G. Coaxial cable with fluorinated ethylene or PVC insulation and jacketing having a max diam of 5/8 in. (16 mm).
   H. Optical fiber cable with PVC or polyethylene (PE) jacket and insulation and having a max diam of 5/8 in. (16 mm).
   I. Max RG6/U coaxial cable with fluorinated ethylene, polyethylene (PE), PVC or plenum rated jacketing and insulation.

   When Series 22 EZ Path device modules are used and when the hourly rating of the wall assembly is 1 hr, the T, FT and FTH Ratings are 3/4 hr except that for Items 3F, 3G and 3H, the T, FT and FTH Ratings are 1 hr. When the hourly fire rating of the wall assembly is 2 hr or greater, the T, FT and FTH Ratings are 3/4 hr when cables are installed. When no cables are installed within the device module, the T, FT and FTH Ratings are 1 hr in 1 hr walls and 1-1/2 hr for 2, 3 and 4 hr walls. When Item 3A, 3B, 3C, 3D or 3E is used, the maximum F and FH Ratings are 2 hr. When max 200 pair No. 24 AWG telecommunication cable and/or 350 kcmil power cable is used or when Item 3F, 3G or 3H is used, the maximum F and FH Ratings are 4 hr.

   When Series 33 EZ Path device modules are used and when the hourly rating of the wall assembly is 1 hr, the T, FT and FTH Ratings are 3/4 hr. When the hourly fire rating of the wall assembly is greater than 1 hr, the T, FT and FTH Ratings are 3/4 hr when Item 3A, 3B, 3C, 3D or 3E is used. Otherwise the T, FT and FTH Ratings are 1 hr. When Item 3A, 3B, 3C, 3D or 3E is used, the maximum F and FH Ratings are 2 hr. When max 200 pair No. 24 AWG telecommunication cable is used or when Item 3F, 3G or 3H is used, the maximum F and FH Ratings are 4 hr.

   When Series 44 + EZ Path device modules are used and when Item 3A, 3B, 3C, 3D or 3E is used, the max F and FH Ratings are 3 hr and the T, FT and FTH Ratings are 1 hr. When Item 3F or 3G is used, the max F and FH Ratings are 4 hr and the T, FT and FTH Ratings are 1-1/2 hr. When Item 3H is used, the max F and FH Ratings are 4 hr and the T, FT and FTH Ratings are 2 hr. When device empty, the T, FT and FTH Ratings are 1-1/2 hr.

   +Bearing the UL Listing Mark

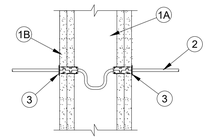
   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

7 EZ PATH SLEEVE - SYSTEM NO. W-L-3377

NO SCALE

Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115 **System No. W-L-3370**

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr (See Item 1)	F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1 and 2 Hr (See Item 1)	FT Ratings - 1 and 2 Hr (See Item 1)
L Rating At Ambient - Less Than 1 CFM/device	FT Ratings - 1 and 2 Hr (See Item 1)
L Rating At 400 F - Less Than 1 CFM/device	FTH Ratings - 1 and 2 Hr (See Item 1)
	L Rating At Ambient - Less Than 1 L/s/device
	L Rating At 204 C - Less Than 1 L/s/device



1. Wall Assembly - The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* - 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Designs in the UL Fire Resistance Directory.

   The hourly F and T Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Cable - One max 4 pair No. 22 AWG (or smaller) copper conductor data cable with plenum-rated or PVC insulation and jacket or two max 2/C No. 18 AWG (or smaller) stranded copper conductor cables with plenum-rated or PVC insulation and jacket. Cable(s) to be installed through 9/16 in. (14 mm) diam holes drilled through the gypsum board on both sides of wall.
3. Firestop Device* - Device consisting of plastic grommet halves with foam inserts. Plastic grommet device shall be installed around cable at it's egress from the gypsum board on each side of wall and inserted in wall opening in accordance with the accompanying installation instructions.

   SPECIFIED TECHNOLOGIES INC - EZ Firestop Grommet RFG1

   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

3 EZ PATH FIRESTOP GROMMET

NO SCALE

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

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Sacramento, CA 95811
www.nachtlewis.com
916.329.4000

LICENSED ARCHITECT JOHNNY M LUONG No. C-31109 EXP. 12-31-25 STATE OF CALIFORNIA

DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
FACILITIES DESIGN & CONSTRUCTION
4800 2ND AVENUE SUITE 3010
SACRAMENTO, CALIFORNIA 95817
(916)734-7934

EDGE
Project Number KD44
Contact JOHNNY
400 R Street, Ste 333
Sacramento, CA 95811
916.256.2480
Sacramento | Alameda | Irvine

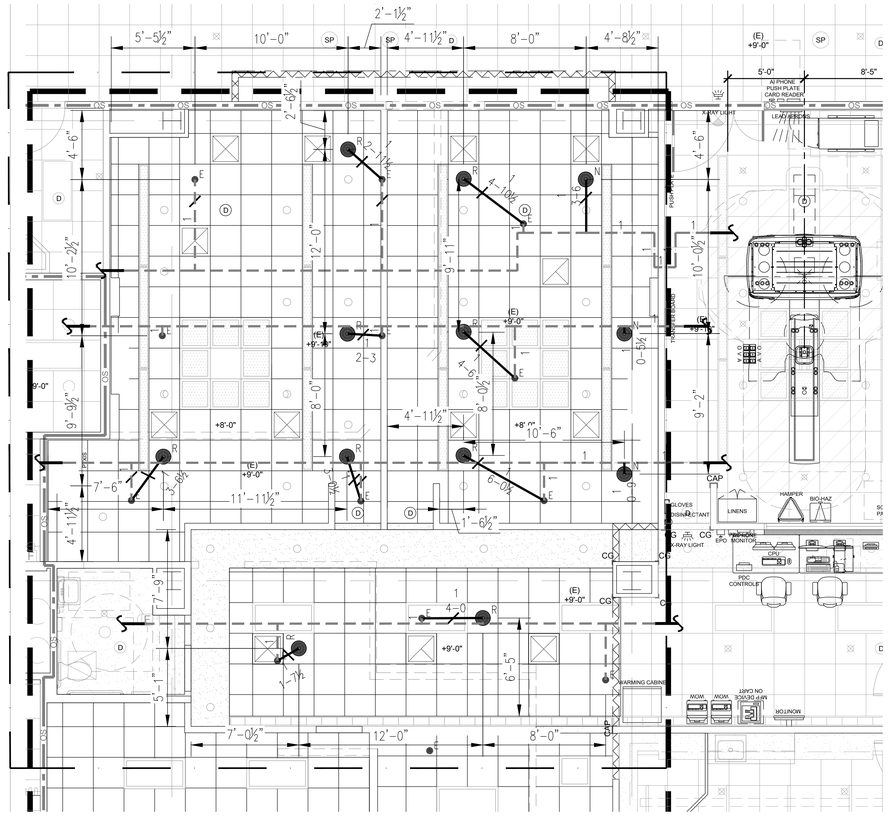
ELECTRONICALLY SIGNED BY JOHNNY M LUONG No. E 29816 ELECTRICAL ENGINEER STATE OF CALIFORNIA 08/20/2024

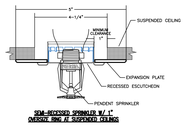
REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

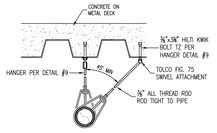
ACCOUNT NO. 9557740
CHSPR A/D. S241219-34-00
BUILDING BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING 1ST FLOOR
PROJECT TITLE SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE DETAILS

ARCH.\ENGR.	FD&C JOB NO.	SHEET NO.
J. Flath	-	T7.03
UCDMC PROJECT MANAGER: Z. Price	SCALE: AS SHOWN	
DESIGNED BY: J. Luong	DATE: -	
DRAWN BY: J. Luong	CAD FILE: -	SHEET OF



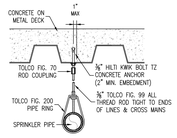


SCH. 40 CPVC SPRINKLER W/ 1" (MINIMUM) RING AT SUSPENDED CEILING



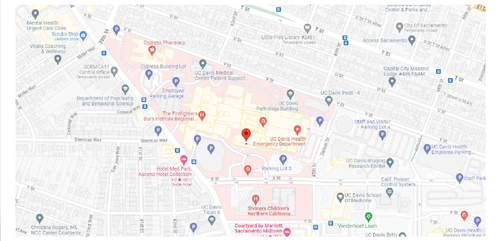
CONCRETE WEDGE ANCHOR
BRANCHLINE RESTRAINT #9

BRANCHLINE RESTRAINT DETAILS



CONCRETE WEDGE ANCHOR
HANGER #9

HANGER DETAILS



VICINITY MAP

FIRE SPRINKLER GENERAL NOTES

SCOPE OF WORK: ADD/RELOCATE/REMOVE FIRE SPRINKLERS TO ACCOMODATE NEW WALL AND CEILING PLAN IN CT-1P742

1. THE AUTOMATIC SPRINKLER SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF THE 2022 EDITION OF NFPA 13 WITH CALIFORNIA AMENDMENTS.
2. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE OF AN APPROVED MATERIAL AS PRESCRIBED IN THE CBC.
3. MODIFICATIONS TO THE EXISTING FIRE SPRINKLER SYSTEM SHALL REQUIRE TESTING AT SYSTEM WORKING PRESSURE PER NFPA 13 30.8.1
4. WHERE MODIFICATION IS MADE TO AN EXISTING SYSTEM AFFECTING MORE THAN 20 SPRINKLERS, THE NEW PORTION SHALL BE ISOLATED AND TESTED AT NOT LESS THAN 200 PSI FOR 2 HOURS PER NFPA 13 30.8.1.1
5. MODIFICATIONS THAT CANNOT BE ISOLATED, SUCH AS RELOCATED DROPS, SHALL REQUIRE TESTING AT SYSTEM WORKING PRESSURE PER NFPA 13 30.8.1.2
6. THE SPRINKLER SYSTEM MUST BE TESTED IN THE PRESENCE OF THE AHJ OR A REPRESENTATIVE THEREOF.
7. ALL NEW PIPING SHALL BE SCHEDULED 40 COATED WITH "ABF" TO RESIST MICROBIOLOGICALLY INFLUENCED CORROSION (MIC).
8. ALL DEVICES SHALL BE U.L. LISTED OR F.M. APPROVED FOR FIRE SERVICE.
9. EARTHQUAKE BRACING OF THE SPRINKLER SYSTEM IS EXISTING TO REMAIN. NO NEW WORK.
10. ALL NEW FIRE SPRINKLERS SHALL BE QUICK RESPONSE TYPE.
11. ALL CONCEALED SPACES ARE NON-COMBUSTIBLE.
12. ALL ELECTRICAL WIRING, IF ANY, TO BE PERFORMED BY OTHERS.
13. NEW SPRINKLERS WITHIN AREA OF WORK SHALL BE SPACED TO MEET THE REQUIRMENTS OF STANDARD COVERAGE, LIGHT HAZARD OCCUPANCY (.10/1500), WITH MAXIMUM SPACING OF 225 SQ. FT. PER SPRINKLER.
14. SHADOW AREA CREATED BY WALLS AND PARTITIONS SHALL BE PERMITTED IN THE PROTECTION AREA OF A SPRINKLER AS LONG AS THE CUMULATIVE AREAS DO NOT EXCEED 15SQFT PER NFPA 13 2022 12.1.10.2.3
15. EXISTING SPRINKLERS WITHIN CT-1P742 SHALL BE REPLACED WITH NEW SPRINKLERS BUT REMAIN IN EXISTING LOCATION

LEGEND:

- = RELOCATED PENDENT SPRINKLER
- = EXISTING PENDENT SPRINKLER TO REMAIN
- = EXISTING PENDENT TO BE REMOVED
- = EXISTING PIPING
- = NEW PIPING
- = EXISTING BRANCHLINE RESTRAINT TO REMAIN
- = APPROXIMATE HANGER LOCATION (NEW OR EXISTING)
- = CAP AT END OF SPRINKLER PIPING

LEGEND

2-WAY EARTHQUAKE BRACE	[X Brs]	– ELEVATION BELOW DECK	
4-WAY EARTHQUAKE BRACE	[X-X]	– ELEVATION A.F.F.	
BRANCHLINE RESTRAINT	UNO	– UNLESS NOTED OTHERWISE	
FLEXIBLE GROOVED COUPLING	CGJ	– CUT ON JOB	
RIGID GROOVED COUPLING	TOE	– THREAD ONE END	
GROOVED CAP	GOE	– GROOVE ONE END	
HANGER No.	GBE	– GROOVE BOTH ENDS	
APPROX. HANGER LOCATION	T&G	– THREAD AND GROOVE	
SYSTEM RISER	F&G	– FLANGE AND GROOVE	
	TOR	– TOP OF RISER	
	BOR	– BOTTOM OF RISER	
HYDRAULIC REFERENCE NODE	UG	– UNDERGROUND	
	RN	– RISER NIPPLE	
	SU	– SPRIG-UP	

SPRINKLERS

SYM	CNT	ORIF. K-FACTOR	NPT	MFG.	TEMP.	FINISH	RESPONSE-STYLE	S.I.N.	MODEL#	ESCUTCHEON
●	9	(1/2", K=5.6)	1/2	TYCO	155	CHROME	QR-CON. PEND	TY3531	RFII	WHITE COVER PLATE
●	3	(1/2", K=5.6)	1/2	TYCO	155	CHROME	QR-CON. PEND	TY3531	RFII	WHITE COVER PLATE

3 = TOTAL NEW CONCEALED PENDENT SPRINKLERS

tyco®

Worldwide Contacts | www.tyco-fire.com

Series RFII — 5.6 K-factor "Royal Flush II" Concealed Pendent Sprinklers Quick & Standard Response, Standard Coverage

IMPORTANT

Refer to Technical Data Sheet TFP2300 for warnings pertaining to regulatory and health information.

Always refer to Technical Data Sheet TFP700 for the "INSTALLER WARNING" that provides cautions with respect to handling and installation of sprinkler systems and components. Improper handling and installation can permanently damage a sprinkler system or its components and cause the sprinkler to fail to operate in a fire situation or cause it to operate prematurely.

Scan the QR code or enter the URL in a web browser to access the most up-to-date electronic version of this document. Data rates may apply.

docs.jci.com/tycofire/tfp181

General Description

The TYCO Series RFII 5.6 K-factor, "Royal Flush II" Concealed Pendent Sprinklers Quick Response (3-mm bulb) and Standard Response (5-mm bulb), are decorative sprinklers featuring a flat cover plate designed to conceal the sprinkler. These sprinklers are optimal for architecturally sensitive areas such as hotel lobbies, office buildings, churches, and restaurants.

Each sprinkler includes a cover plate/retainer assembly and a sprinkler/support cup assembly. The separable, two-piece assembly design provides the following benefits:

- Allows installation of the sprinklers and pressure testing of the fire protection system prior to installation of a suspended ceiling or application of the finish coating to a fixed ceiling.
- Permits the removal of suspended ceiling panels for access to building service equipment without having to first shut down the fire protection system and remove sprinklers.
- Provides for 1/2 in. (12,7 mm) of vertical adjustment to allow a measure of flexibility in determining the length of fixed piping to cut for the sprinkler drops.

The Series RFII Sprinklers are shipped with a disposable protective cap. The protective cap is temporarily removed during installation and replaced to help protect the sprinkler during ceiling installation or finish. The tip of the protective cap can be used to mark the center of the ceiling hole into plaster board or ceiling tiles by gently pushing the ceiling product against the protective cap. When ceiling installation is complete, the protective cap is removed and the cover plate/retainer assembly is installed.

As an option, the Series RFII Standard Response (5-mm bulb) "Royal Flush II" Concealed Pendent Sprinklers can be fitted with a silicone air and dust seal as shown in Figure 5. The air and dust-seal is intended for sensitive areas where it is desirable to prevent air and dust from the area above the ceiling to pass through the cover plate.

NOTICE

The Series RFII Concealed Pendent Sprinklers described herein must be installed and maintained in compliance with this document and with the applicable standards of the NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), in addition to the standards of any authorities having jurisdiction. Failure to do so may impair the performance of these devices.

The owner is responsible for maintaining their fire protection system and devices in proper operating condition. The installing contractor or sprinkler manufacturer should be contacted with any questions.

Sprinkler Identification Number (SIN)

TY3531 — 3 mm bulb
TY3551 — 5 mm bulb

Technical Data

Sprinkler Approvals

Approvals apply only to the service conditions indicated in the Design Criteria section.

- TY3531 (3 mm Bulb) is UL Listed, C-UL Listed and NYC Approved (MEA 353-01-E) as Quick Response.
- TY3531 (3 mm Bulb) is EAC Approved and VdS Approved (Certificate No. G4090007).
- TY3531 (3 mm Bulb) is FM and LPCB Approved (Ref. No. 094x/10) as Standard Response.

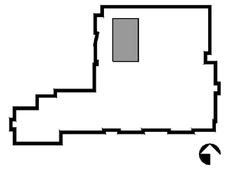
Note: *FM and LPCB do not approve concealed sprinklers for quick response.*

- TY3551 (5 mm Bulb) is UL Listed, C-UL Listed, EAC Approved, FM Approved, LPCB Approved (Ref. No. 094x/9), and NYC Approved (MEA 353-01-E) as Standard Response.

Approvals for Air and Dust Seal

UL and C-UL Listed for use with the RFII Standard Response Concealed Sprinkler (TY3551)

KEYPLAN



NOTICE:

Professional Engineers stamp use, is intended to provide local review agency acceptance. Engineer stamp does not intend to show complete design under the engineer's direction or organization. The contractor shall remain solely responsible for details and accuracy, for confirming and correlating all quantities and dimensions, for selecting fabrication processes, techniques of assembly and for performing their work in a safe manner. The stamping of these drawings is intended to NOT conflict with California Business & Professional Code Sections 6735, 6735.3 & 6735.4

This document has been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. These drawings have been reviewed and found to be in general conformance to the design of the building. Per Bulletin 109, section VI, item iii.

REV.	DATE	REVISION	BY

1824-958

MARQUEE FIRE PROTECTION
A Pye Barker Company
3875 Atherton Rd. Ste. #200
Rocklin, CA. 95765-3716
TEL. 916. 641-7997 FAX. 916. 641-0775
CA. LIC. 1077494 C-16

REVIEWED IN ACCORDANCE WITH THE REQUIREMENTS OF T24, CCR
APPROVED
Department of Health Care Access & Information
Office of Statewide Hospital Planning & Development
12/17/2024, 4:11:12 PM
S241219-34-00
Ray Sanchez

DEPARTMENT OF HEALTHCARE ACCESS AND INFORMATION:

nacht&lewis
600 Q Street, Suite 100
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DESIGN PROFESSIONALS OF RECORD:

UCDAVIS HEALTH
Facilities Design & Construction
4800 2nd Avenue Suite 2010
Sacramento, California 95817
(916)734-7934

CONSULTANT LOGO:

REV	REVISION DESCRIPTION	DATE

CONSTRUCTION DOCUMENTS

ACCOUNT NO: 9557740
OSHPD NO: S241219-34-00
BUILDING: BLD-02841 - SURGERY AND EMERGENCY SERVICES PAVILION
FLOOR/WING: 1ST FLOOR
PROJECT TITLE: SESP 1P742 1P745 CT SCANNER REPLACEMENT
SHEET TITLE: 1ST FLOOR FIRE SPRINKLER PLAN

ARCH/ENGR.	FD&C JOB NO.	SHEET NO.	
J. Flath	-	FP-1	
UCDMC PROJECT MANAGER	SCALE		
Z. Price	1/4" = 1'-0"		
DESIGNED BY	DATE		
A.IRWIN	-		
DRAWN BY	CAD FILE	SHEET	OF
A.IRWIN	-	1	