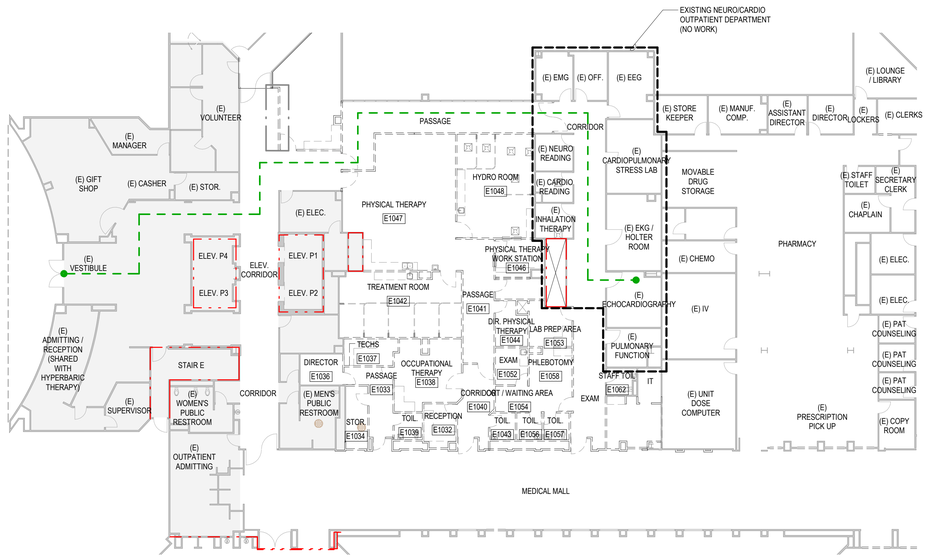
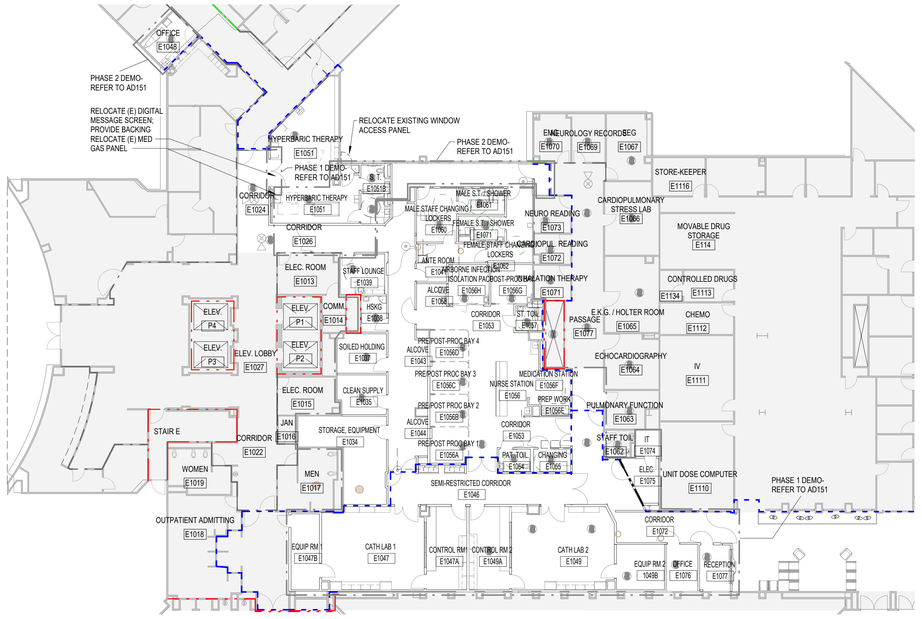


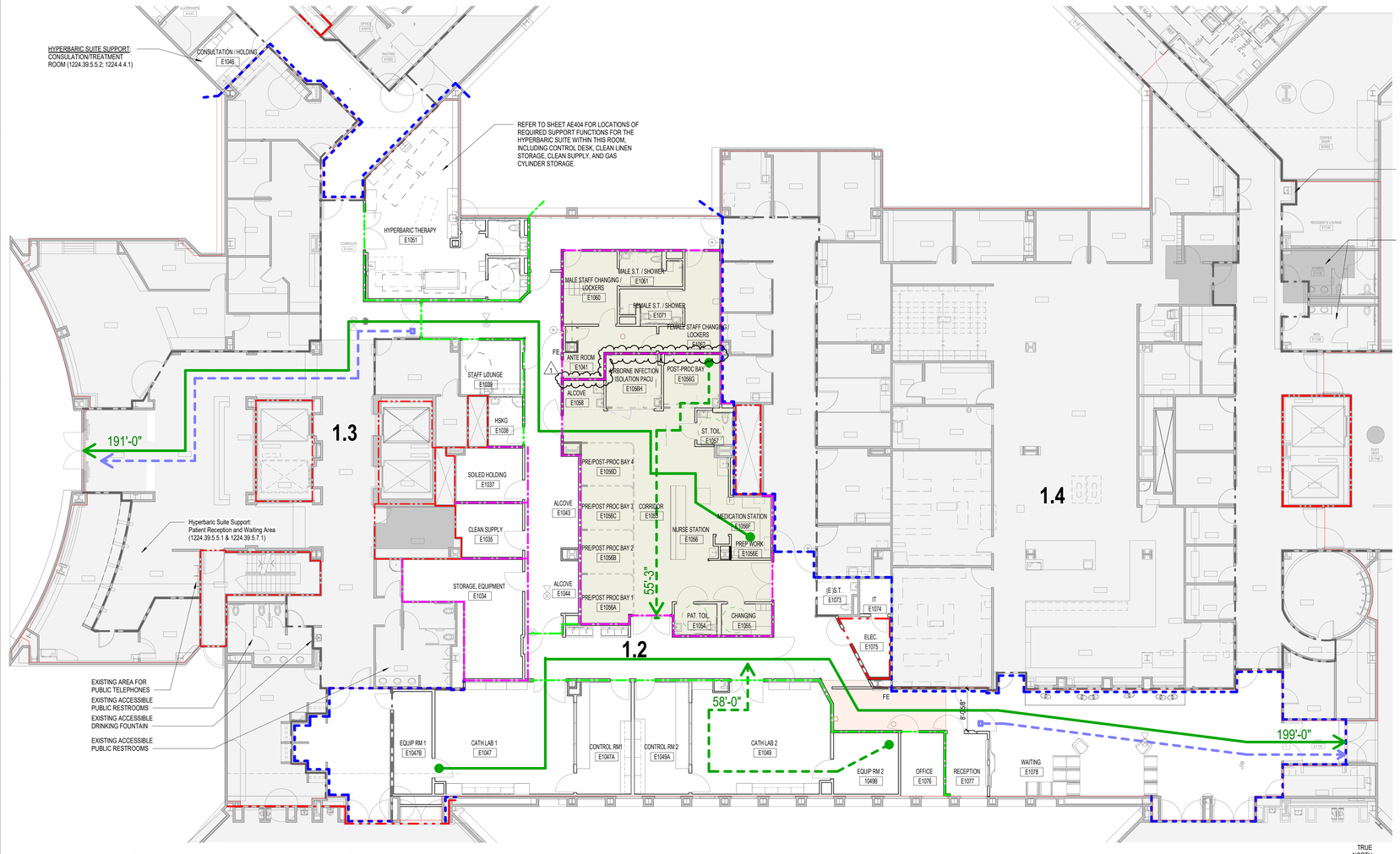
LEVEL 1 - LIFE SAFETY FLOOR PLAN (PHASE 1 EGRESS PLAN FOR EXISTING NEURO/CARDIO OUTPATIENT DEPARTMENT)

E1 SCALE: 1/16" = 1'-0"



PARTIAL FLOOR PLAN - LEVEL 1 - LIFE SAFETY FLOOR PLAN (PHASE 2 EGRESS PLAN FOR EXISTING NEURO/CARDIO DEPARTMENT)

E4 SCALE: 1/16" = 1'-0"



LEVEL 1 - LIFE SAFETY FLOOR PLAN (FOR NEW CATH LAB DEPARTMENT)

A1 SCALE: 1" = 10'-0"

TRUE NORTH

LIFE SAFETY GENERAL NOTES

1. ALL FIRE RATED PARTITIONS ARE EXISTING AND WITHIN THE CORE AREA, PATCH TO MAINTAIN RATING IF DISTURBED.
2. WOOD USED FOR BLOCKING, NAILERS, OR FRAMING IN FIRE RATED ASSEMBLIES SHALL BE FIRE RETARDANT TREATED. REFER TO SPECIFICATION SECTION 06 10 53 FOR EXIT LIGHTS AND EMERGENCY LIGHTING, SEE ELECTRICAL.
3. FOR FIRE DETECTION SYSTEM, SEE ELECTRICAL.
4. FOR FIRE ALARM SYSTEM, SEE ELECTRICAL.
5. WHERE FIRE EXTINGUISHER CABINETS OR OTHER EQUIPMENT IS RECESSED IN FIRE RATED PARTITIONS, MODIFY THE PARTITION AS REQUIRED TO PROVIDE A CONTINUOUS ENCLOSURE TO ENSURE UNINTERRUPTED FIRE RATING.
6. AT EXISTING FIRE RATED DOOR LOCATIONS FRAMES SHALL BE NEW AND DOORS SHALL BE LABELED FOR THE INTENDED USE OR EQUIVALENT.
7. NON-RATED SMOKE PARTITIONS SHALL BE CONSTRUCTED TO LIMIT THE TRANSFER OF SMOKE. PARTITIONS SHALL EXTEND FROM FLOOR SLAB TO UNDERSIDE THE DECK ABOVE. THE SPACE ADJACENT TO THE DECK AND OTHER SURFACES AND THE SPACES AROUND PENETRATING ITEMS SHALL BE CAULKED TO LIMIT THE FREE PASSAGE OF SMOKE.
8. HYPERBARIC CHAMBERS FOR HUMAN OCCUPANCY AND THEIR SUPPORTING SYSTEMS SHALL BE DESIGNED AND FABRICATED TO MEET ANSI/ ASME PVHO-1, SAFTRY STANDARD FOR PRESSURE VESSELS FOR HUMAN OCCUPANCY, BY PERSONNEL QUALIFIED TO FABRICATEVESSELS UNDER SUCH CODES PER 2021 NFPA 99, SECTION 14.2.2.1.
9. EXISTING 1 HOUR FIRE PARTITION PER CBC SECTION 708. OPENINGS FIRE RATED FOR 20 MINUTES FOR CORRIDOR PARTITIONS AND 45 MINUTES FOR OTHER FIRE PARTITIONS.

CODE ANALYSIS LEGEND

REFER TO SHEET AE511 FOR DETAILS AND UL LISTINGS FOR CONSTRUCTION OF RATED PARTITIONS AND BARRIERS

- FP — 1 HOUR FIRE PARTITION PER CBC SECTION 708. OPENINGS FIRE RATED FOR 20 MINUTES FOR CORRIDOR PARTITIONS AND 45 MINUTES FOR OTHER FIRE PARTITIONS.
- FB — 1 HOUR FIRE BARRIER PER CBC SECTION 706. OPENINGS FIRE RATED FOR 60 MINUTES FOR SHAFTS, EXIT STAIRWAYS AND EXIT PASSAGEWAY WALLS AND 45 FOR OTHER FIRE BARRIERS.
- FB — 2 HOUR FIRE BARRIER PER CBC SECTION 706. OPENINGS FIRE RATED FOR 90 MINUTES.
- SP — SMOKE PARTITION PER CBC SECTION 710. OPENINGS TO BE RELATIVELY TIGHT FITTING AS REQUIRED TO RESIST PASSAGE OF SMOKE.
- SB — 1HR SMOKE BARRIER PER CBC SECTION 709. OPENINGS TO BE RELATIVELY TIGHT FITTING AS REQUIRED TO RESIST PASSAGE OF SMOKE.
- EXISTING 1 HOUR FIRE PARTITION PER CBC SECTION 708. OPENINGS FIRE RATED FOR 20 MINUTES FOR CORRIDOR PARTITIONS AND 45 MINUTES FOR OTHER FIRE PARTITIONS.
- TRAVEL DISTANCE
- AREA NAME 100 SF / 00 OCC. — ROOM (NET) AND AREA (GROSS) TAGS INDICATING SQUARE FOOTAGE / OCCUPANCY LOAD FACTOR, AND RESULTING OCCUPANCY BELOW
- 0 — INDICATES NUMBER OF OCCUPANTS EXITING ON EGRESS PATH
- 16' - 0" — ACCESSIBLE PATH OF TRAVEL TO BUILDING ENTRANCE
- PATH A 16' - 0" — EGRESS PATH WITH NAME, SEGMENT LENGTH, AND DIRECTION INDICATED
- 165 EXIT A — EXIT INDICATOR BASIC: WITH NAME OF EXIT AND TOTAL OCCUPANTS EXITING INDICATED
- 165 EXIT B — 0.2 X 165 = 33" MIN ACTUAL = 34.25" — EXIT INDICATOR ADVANCED: WITH NAME OF EXIT, TOTAL OCCUPANTS EXITING INDICATED, SIZE OF OPENING VS ACUTAL OPENING WIDTH
- I-2 OCCUPANCY — OCCUPANCY GROUP
- PATIENT CARE NON-SLEEPING SUITE
- EXISTING AREA TO REMAIN, AREA NOT IN SCOPE OF WORK
- 1 HOUR CEILING AREA

1ST FLOOR - EXISTING HEALTHCARE OCCUPANCY

COMPARMENT ID	COMPARTMENT SQ.FT.	OCCUPANCY LOAD	SPRINKLER SYSTEM	AREA USE	DISTANCE SMOKE	DISTANCE EXIT
1.1	8,603	36	FULL	TREATMENT	66'	105'
1.2	5,125	44	FULL	TREATMENT	86'	204'
1.3	12,538	129	FULL	TREATMENT	57'	194'
1.4	11,150	116	FULL	TREATMENT	107'	146'
1.5	10,459	105	FULL	TREATMENT	159'	76'

2022 CBC CODE APPLICATION MATRIX

Room #	Room Name	Room Function	App'l Code Ref.	SF Req'd	SF Provided
E1034	STORAGE, EQUIPMENT		1224.16.5.5		361 SF
E1035	CLEAN SUPPLY		1224.28.2.7		136 SF
E1037	SOILED HOLDING		1224.28.2.8		138 SF
E1038	HOUSEKEEPING		1224.28.2.9	15 SF	70 SF
E1039	STAFF LOUNGE				134 SF
E1040	CORRIDOR		1224.4.7		
E1041	ANTE ROOM				
E1043	ALCOVE				
E1044	ALCOVE				
E1046	CORRIDOR		1224.4.7		
E1047	CATH LAB 1		1224.28.2; 1224.28.2.1	400 SF	565 SF
E1048	EQUIP RM 1		1224.28.2.3		147 SF
E1049	CONTROL RM 1		1224.28.2.2		226 SF
E1050	CONTROL RM 2		1224.28.2.2		229 SF
E1051	CATH LAB 2		1224.28.2; 1224.28.2.1	400 SF	565 SF
E1052	EQUIP RM 2		1224.28.2.3		148 SF
E1051	HYPERBARIC THERAPY		1224.39.5; 1224.39.5.2.2		648 SF
E1051A	STAFF TOILET		1224.39.5.6		41 SF
E1051B	PATIENT TOILET / CHANGING		1224.39.5.7.2; 1224.39.5.7.3		71 SF
E1051C	HOUSEKEEPING		1224.39.5.5.7		24 SF
E1053	CORRIDOR				
E1054	PATIENT TOILET		1224.4.4.8		49 SF
E1055	CHANGING ROOM		1224.16.7.2		54 SF
E1056	NURSE STATION		1224.16.5.1;		162 SF
E1056A	PRE/POST PROC BAY 1		1224.28.2.6; 1224.16.2	80 SF	82 SF
E1056B	PRE/POST PROC BAY 2		1224.28.2.6; 1224.16.2	80 SF	83 SF
E1056C	PRE/POST PROC BAY 3		1224.28.2.6; 1224.16.2	80 SF	83 SF
E1056D	PRE/POST-PROC BAY 4		1224.28.2.6; 1224.16.2	80 SF	83 SF
E1056E	PREP WORK AREA				57 SF
E1056F	MEDICATION STATION		1224.16.5.3		63 SF
E1056G	POST-PROCEDURE BAY		1224.28.2.6; 1224.16.3		115 SF
E1056H	AIRBORN INFECTION ISOLATION EXAM/TREATMENT		1224.28.2.6; 1224.4.4.1.3		111 SF
E1057	STAFF TOILET		1224.16.6		45 SF
E1058	ALCOVE				
E1059	CORRIDOR		1224.4.7.2		
E1060	MALE STAFF CHANGING / LOCKERS		1224.28.2.5		138 SF
E1061	MALE STAFF TOILET / SHOWER				75 SF
E1062	FEMALE STAFF CHANGING / LOCKERS		1224.28.2.5		162 SF
E1071	FEMALE STAFF TOILET / SHOWER				75 SF
E1073	STAFF TOILET		1224.4.4.8		49 SF
E1074	IT ROOM		1224.5.2		41 SF
E1075	ELECTRICAL				79 SF
E1076	OFFICE		1224.21.1		98 SF
E1077	RECEPTION				98 SF
E1078	WAITING		1224.16.7.1; 1224.4.5		
A1048	HYPERBARIC PATIENT COUNSELING		1224.39.5.5.2; 1224.4.4.1	80 SF	
E1080	(E) PATIENT ADVOCACY				
E1107	HOLDING - GURNEY				

Riverside University HEALTH SYSTEM

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ARCHITECT STAMP

LICENSED ARCHITECT STEVEN A. HEATH C-27299 REN. 7/31/25 STATE OF CALIFORNIA

CONSULTANT

CONSULTANT STAMP

KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	04/30/2025

FILE LOG

ACTIVITY	BY
Design	Designer
Draw	Author
Check	Checker
Issue Date	2023/9/29

AGENCY APPLICATION NUMBER

S231455-33-00

AGENCY APPROVAL STAMP

BUILDING TITLE

RIVERSIDE UNIVERSITY HEALTH SYSTEM MEDICAL CENTER

PROJECT TITLE

NEW CARDIAC CATHETERIZATION LAB SUITE & HYPERBARIC FACILITY EXPANSION

RUHS-MC PROJ. NO.	CONSULTANT PROJ. NO.
FM08430011869	047-10071-002

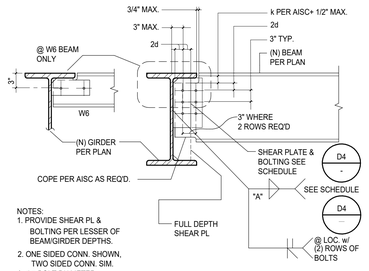
SHEET NAME

LIFE SAFETY PLAN

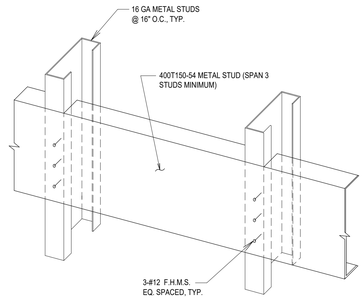
SHEET NUMBER

GI102

5/8/2025 3:14:20 PM Autodesk Docs://047-10071-002_RUHS-TO-1_Riverside_County_Health_Care_Dist/RUHS-2ND-CATH-LAB-ARCH.rvt

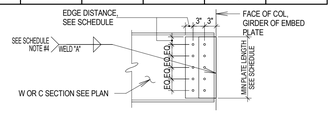


D2 (N) BEAM TO (N) BEAM SIMPLE CONNECTIONS
SCALE: 3/4" = 1'-0"



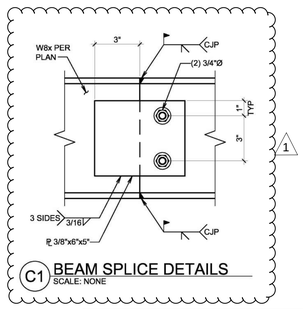
D3 METAL BACKING
SCALE: 1 1/2" = 1'-0"

NOMINAL BEAM/GIRDER DEPTH (1)	MINIMUM PLATE LENGTH (IN)	SHEAR PLATE THICKNESS (IN)	NUMBER OF VERTICAL ROWS OF BOLTS	NUMBER OF BOLTS PER ROW	BOLT DIAMETER (IN) (2)	EDGE DISTANCE (IN)	WELD "A" (2)	ASD DESIGN SHEAR STRENGTH (KIPS)	REMARKS
W8x	6	3/8	1	2	3/4	1 1/2	1/4	8	
W12x & C12	9	3/8	1	3	3/4	1 1/2	1/4	16	
W14x	11	3/8	1	3	1	1 1/2	1/4	29	
W16x	13	1/2	1	4	1	1 1/2	1/4	47	
W18x	15	1/2	1	4	1	2	1/4	47	
W21x	18	1/2	1	5	1 1/8	2	1/4	75	
W24x	20	1/2	1	6	1 1/8	2	1/4	91	
W27x	24	3/4	2	7	1 1/8	2	3/8	217	
W30x	26	1 1/2	2	6	1 1/2	2	1/2	298	

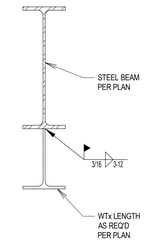


NOTES:
1. C BEAM CONNECTION SIMILAR TO W BEAM OF SAME DEPTH.
2. PROVIDE STANDARD AISC ROUND HOLES IN SHEAR PLATE.
3. PROVIDE THE LARGER OF WELD INDICATED & AWS MINIMUM.
4. WELD "A" SHALL BE FILLET WELD ON BOTH SIDES. WELD "A" CAN BE SUBSTITUTED WITH C.P. GROVE WELD WITH BACKING BAR REMOVED.
5. ALL BOLTS ARE A325 BOLTS PER GENERAL NOTES.
6. CONNECTION PLATE IS CONFORMING TO A992 OR A572 GRADE 50, Fy=50 KSI, Fu=65 KSI.

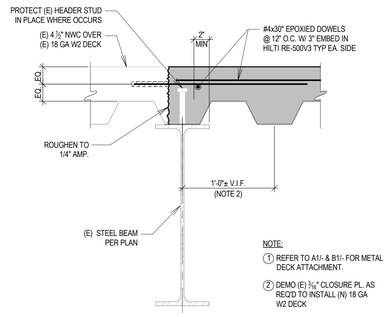
D4 SHEAR PLATE BOLTING SCHEDULE
SCALE: 3/4" = 1'-0"



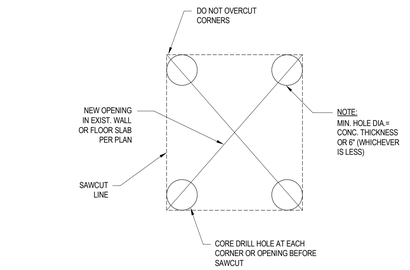
C1 BEAM SPLICE DETAILS
SCALE: NONE



C2 STEEL BEAM STRENGTHENING
SCALE: 1 1/2" = 1'-0"

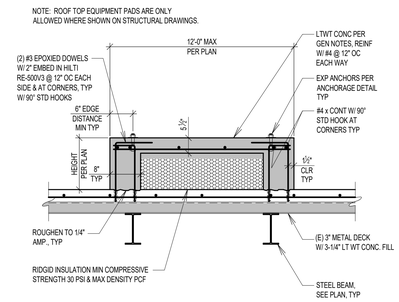


DECK PARALLEL TO BEAM

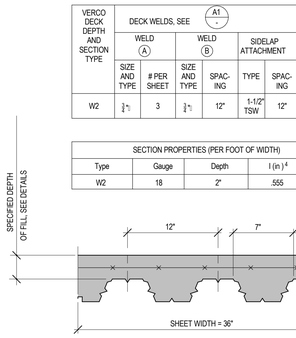


NOTE
1. REFER TO PLAN FOR ADDITIONAL FRAMING NOT SHOW.

C4 NEW OPENING IN EXIST. SLAB
SCALE: 3/4" = 1'-0"



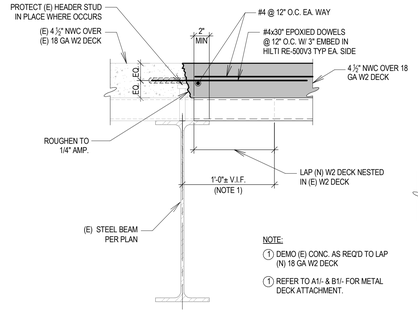
C5 ROOF TOP EQUIOMENT PAD
SCALE: 3/4" = 1'-0"



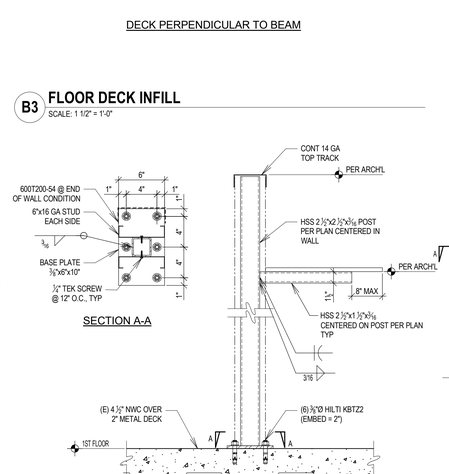
TYPE W2 DECK

NOTE: OR EQUIVALENT BUTTON PUNCH

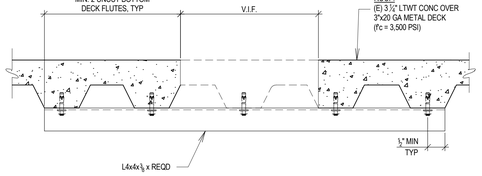
B1 METAL DECK PROPERTIES
SCALE: NTS



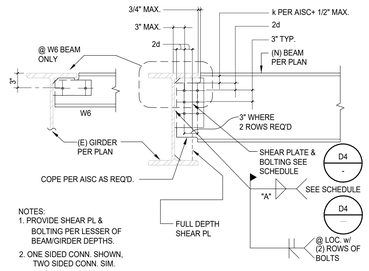
B2 THRU BOLT STRUT DETAIL
SCALE: 1 1/2" = 1'-0"



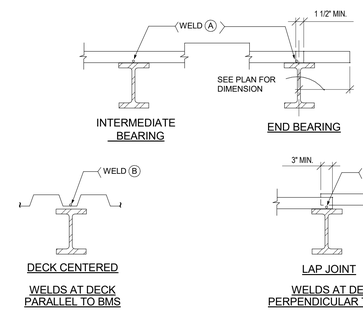
DECK PERPENDICULAR TO BEAM



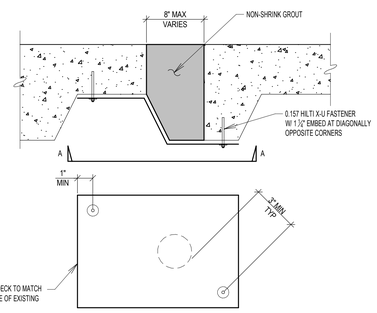
SECTION A-A



B5 (N) BEAM TO (E) GIRDER SIMPLE CONNECTIONS
SCALE: 3/4" = 1'-0"



B1 METAL DECK WELDING
SCALE: NTS

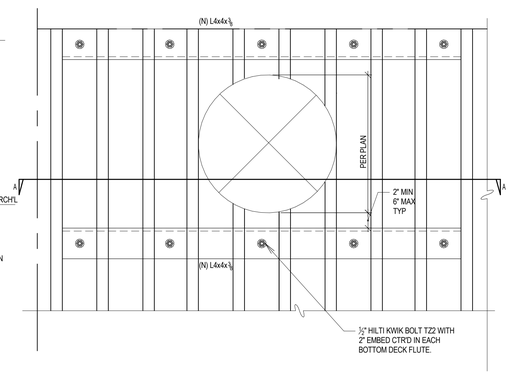


SECTION A-A

B2 INFIL OF SMALL SLAB OPENING
SCALE: 3" = 1'-0"

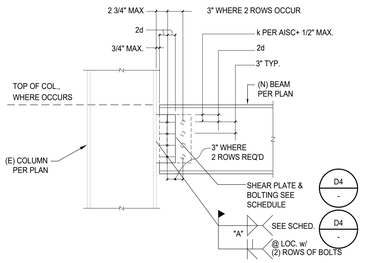
SECTION A-A

A3 PONY WALL SECTION
SCALE: NTS



PLAN

A4 FLOOR / ROOF PENETRATION SLAB STRENGTHENING
SCALE: 1 1/2" = 1'-0"



A5 (N) BEAM TO (E) COLUMN FLANGE SIMPLE CONNECTIONS
SCALE: 3/4" = 1'-0"

Riverside University HEALTH SYSTEM

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REGISTERED PROFESSIONAL ENGINEER
TRACY R. RICH
RENEWAL 12/31/25
NO. 4831
STRUCTURAL
STATE OF CALIFORNIA

KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
	PLAN CHECK	10/10/2023
BC1	BACK CHECK 01	04/19/2024
BC2	BACK CHECK 02	07/03/2024
1	ADDENDUM 01	04/30/2025

FILE LOG

ACTIVITY	BY
Design	Designer
Draw	Author
Check	Checker
Issue Date	Issue Date

AGENCY APPLICATION NUMBER
S

AGENCY APPROVAL STAMP

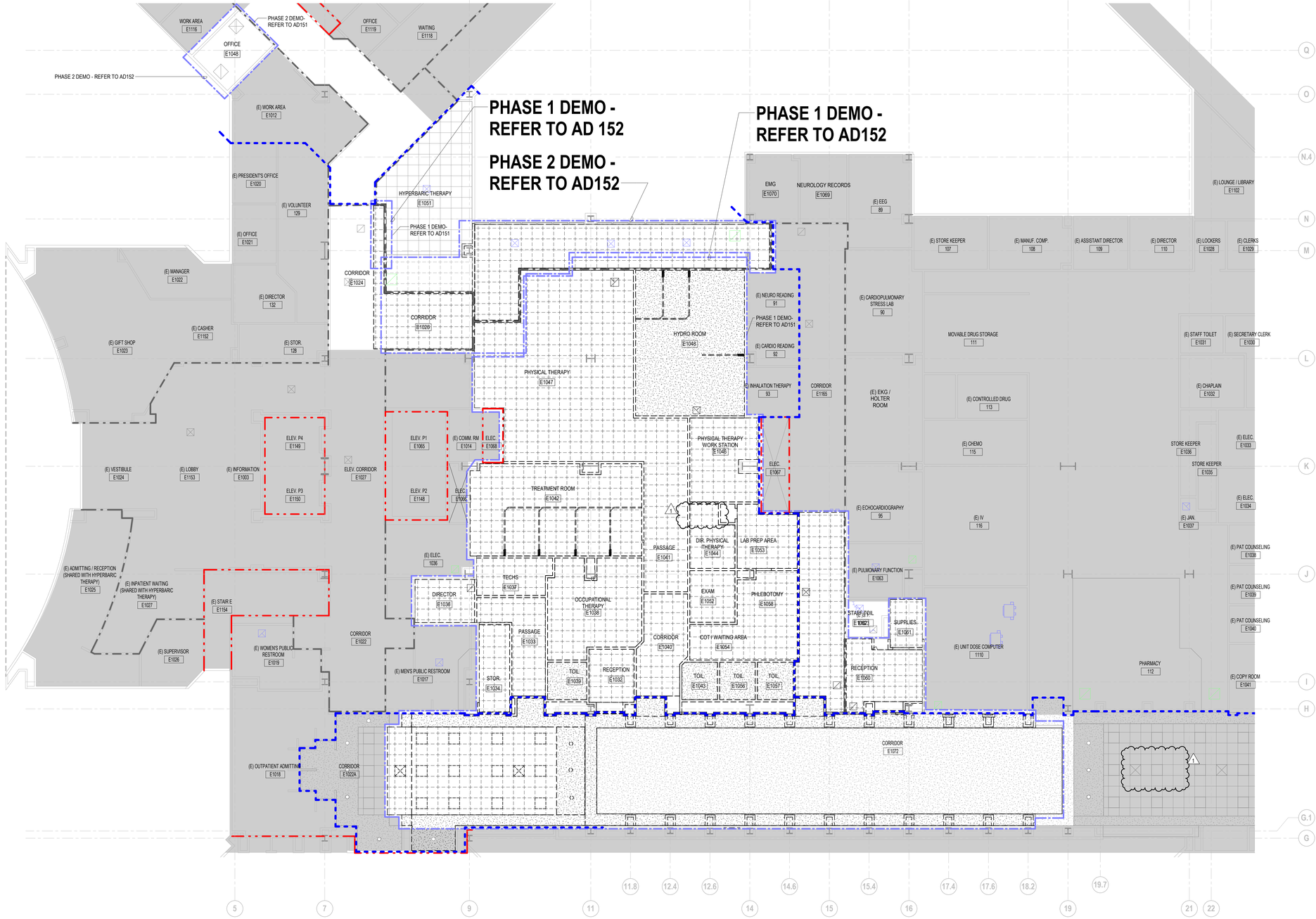
BUILDING TITLE
RIVERSIDE UNIVERSITY HEALTH SYSTEM MEDICAL CENTER

PROJECT TITLE
CARDIAC CATHETERIZATION LABORATORY SUITE PROJECT

RUHS-MC PROJ. NO.	CONSULTANT PROJ. NO.
FM08430011869	047-10071-002

SHEET NAME
TYPICAL DETAILS

SHEET NUMBER
S003



A1 PARTIAL RELECTED CEILING PLAN - LEVEL 1 - DEMO
SCALE: 1/8" = 1'-0"

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SHEET NOTES

THIS SHEET IS FOR OVERALL PHASE 1 & 2 DEMO PLAN. REFER TO AD152 FOR DETAIL SCOPE OF WORK PER PHASE.

KEY NOTES - CEILING PLAN

LEGEND

▭ ▭ ▭	REMOVE WALL
⌐	REMOVE DOOR
	REMOVE AND SALVAGE ALL WATER CLOSETS AND LAVATORIES
▩	AREA NOT IN SCOPE OF WORK
▨	AREA IN SCOPE BUT NOT IN PHASE
— · · —	2 HOUR FIRE BARRIER PER CBC SECTION 706. OPENINGS FIRE RATED FOR 90 MINUTES.
— · — · —	1 HOUR FIRE PARTITION PER CBC SECTION 708. OPENINGS FIRE RATED FOR 20 MINUTES FOR CORRIDOR PARTITIONS AND 45 MINUTES FOR OTHER FIRE PARTITIONS.
- - - -	SMOKE PARTITION PER CBC SECTION 710. OPENINGS TO BE RELATIVELY TIGHT FITTING AS REQUIRED TO RESIST PASSAGE OF SMOKE.
☐	PHASING 1 OUTLINE
☐	PHASING 2 OUTLINE
▥	TEMPORARY CONSTRUCTION BARRIER, 1 HR FIRE PARTITION W/ 20 MIN PROTECTED OPENINGS. SEE DETAIL A1/AE511

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ARCHITECT STAMP

STEVEN A. [illegible]
C-27292
REN. 7/31/25

CONSULTANT

CONSULTANT STAMP

KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	04/30/2025

FILE LOG

ACTIVITY	BY
Design	Designer
Draw	Author
Check	Checker
Issue Date	2023/9/29

AGENCY APPLICATION NUMBER
S231455-33-00

AGENCY APPROVAL STAMP

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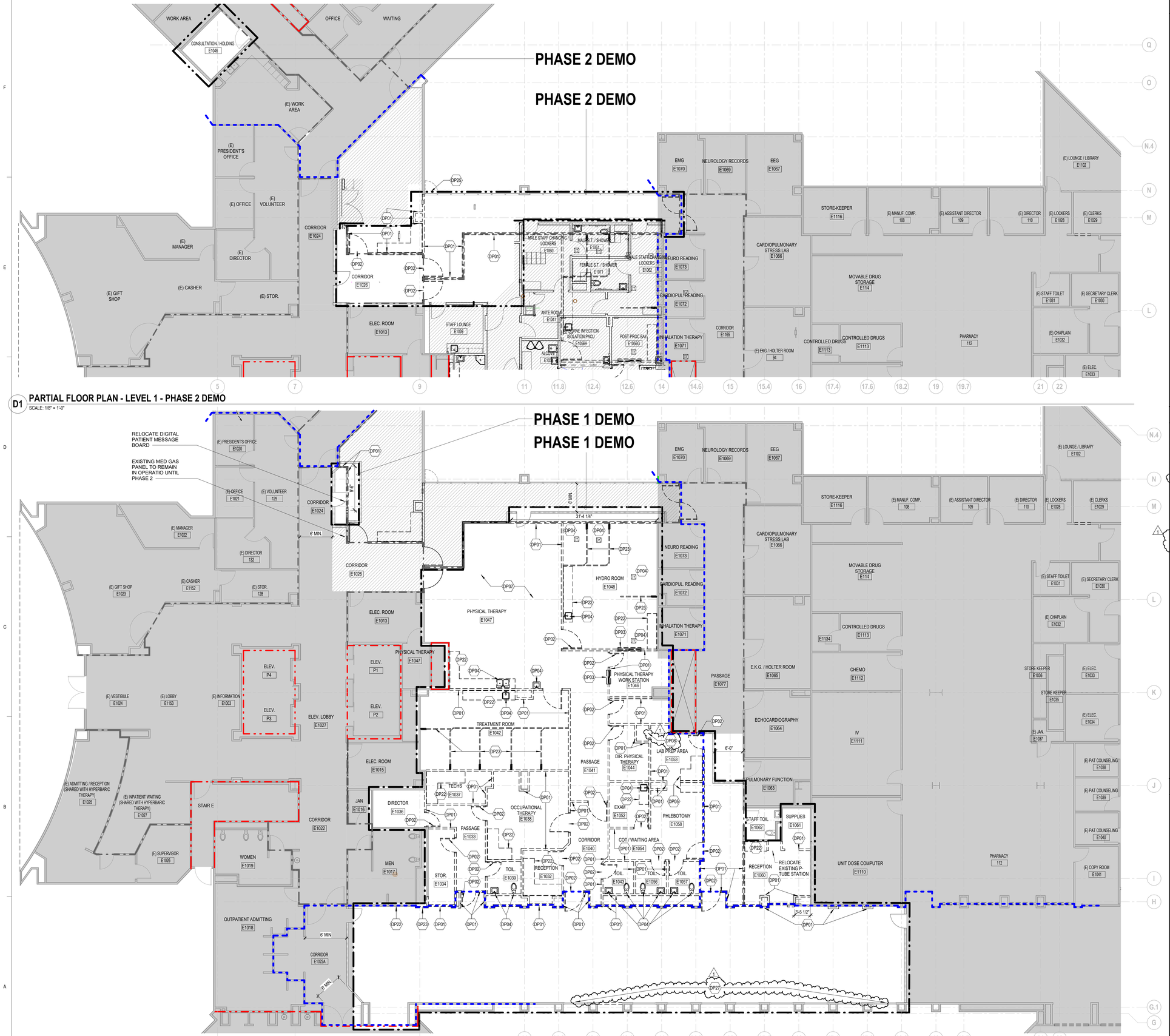
MEDICAL CENTER

PROJECT TITLE
NEW CARDIAC CATHETERIZATION LAB
SUITE & HYPERBARIC FACILITY EXPANSION

RUHS-MC PROJ. NO.	CONSULTANT PROJ. NO.
FM08430011869	047-10071-002

SHEET NAME
OVERALL REFLECTED
CEILING PLAN - PHASE 1 & 2 -
DEMO

SHEET NUMBER
AD121



D1 **PARTIAL FLOOR PLAN - LEVEL 1 - PHASE 2 DEMO**
SCALE: 1/8" = 1'-0"

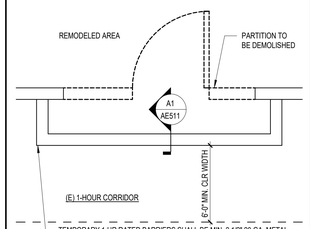
A1 **PARTIAL FLOOR PLAN - LEVEL 1 - PHASE 1 DEMO**
SCALE: 1/8" = 1'-0"

SHEET NOTES - DEMOLITION

1. DEMOLITION NOTES APPLY TO ALL DRAWING SHEETS.
2. REMOVE EXISTING FINISHES, ADHESIVES OR OTHER MATERIALS THAT WILL CONFLICT WITH NEW FINISHES SCHEDULED IN EXISTING OR NEWLY REMODELED SPACES. REMOVE OR MODIFY PARTITION, CEILNG, BASES AND FLOORING FINISH SUBSTRATES TO ACCOMODATE NEW FINISHES AS SCHEDULES
3. REMOVE EXISTING PARTITIONS, DOORS, FRAMES, SOFFITS, MILLWORK, FIXTURES, ETC. ON THE DEMOLITION PLAN SHOWN WITH DASHED LINES. TURN SALVAGEABLE ITEMS OVER TO OWNER AT A LOCATION OF THE OWNER'S CHOOSING.
4. REMOVE AND SALVAGE EXISTING EQUIPMENT AND WALL MOUNTED ACCESSORIES FOR RELOCATION BY OWNER.
5. REMOVE GENERAL, MECHANICAL AND ELECTRICAL MATERIAL NOT NECESSARILY SHOWN, BUT REQUIRED TO BE REMOVED TO COMPLETE WORK.
6. CUTTING AND PATCHING REQUIRED FOR NEW MECHANICAL AND ELECTRICAL WORK IN EXISTING SPACES SHALL BE BY RESPECTIVE CONTRACTORS.
7. CONTRACTOR TO VERIFY WITH OWNER THAT HAZARDOUS MATERIAL SURVEY HAS BEEN COMPLETED FOR MATERIALS TO BE REMOVED/DISTURBED.
8. THE CONTRACTOR SHALL VERIFY EXISTIN FINISHES AND CONDITION BEFORE CONSTRUCTION BEGINS.
9. CONTRACTOR SHALL COORDINATE DEMOLITION WORK PHASING AND SEQUENCING WITH OWNER PRIOR TO START OF CONSTRUCTION.
10. ERECT DUST-PROOF PARTITIONS AS REQUIRED BY OWNER AND FIRE MARSHALL TO PROTECT ADJACENT AREA DURING CONSTRUCIOTN.
11. MAINTAIN REQUIRED EXISTS AND MEANS OF EGRESS DURING CONSTRUCTION.
12. PROTECT MECHANICAL AND ELECTRIAL SERVICES AS REQUIRED TO REMAIN IN OPERATION.
13. REMOVE CEILING SYSTEMS AS REQUIRED TO ACCODDOMATE MECHANICAL AND ELECTRICAL WORK. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR APPROXIMATE LOCATIONS. SALVAGE TILES AND GRID FOR REINSTALLATION WHEN COMPETE UNLESS NOTED OTHERWISE.
14. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SCOPE AND EXTENT OF MECHANICAL AND ELECTRICAL WORK.
15. DURING THE DEMOLITION PROCESS THERE MAY BE INSTANCES WHERE THE REMOVAL OR ABANDONMENT OF A FIXTURE, DUCT, CONDUIT OR OTHER PIECE OF EQUIPMENT MAY LEAVE AN OPENING IN A REQUIRED FIRE RESISTIVE ASSEMBLY. AS PARET OF THE DEMOKITION AND REMODELING PROCESS A FIRE-RESISTIVE "MEMBER" OR "THROUGH" PENETRATION (AND/OR OPEN JOINT) RESULTING FORM SUCH DEMOLITION WORK SHALL BE FIRESTOPPED OR SEALED IN ACCORDANCE WITH CBC FOR THE NECESSARY RATING PROTECTION. PROVISIONS FOR REQUIRED FIRESTOP CONDITIONS SHALL BE INCLUDED AS PART OF THIS SECTION.
16. PATCH "EXISTING TO REMIAN" BUILDING COMPONENTS IF DAMAGED DURING DEMOLITION. MATCH AJDACENT MATERIALS AND FINISHES.
17. COORDINATE WITH THE OWNER FOR THE STORAGE AND RELOCATION REQUIREMENTS OF EXISTING AND SALVAGED ITEMS.
18. VERIFY EXISTING SPRINKLERS SYSTEM WITH SPRINKLER CONTRACTOR PRIOR TO DEMOLITION. SPRINKLER CONTRACTOR TO MODIFY AND MAINTAIN SYSTEM CODE REQUIREMENTS THROUGHOUT THE PROJECT.
19. CONTRACTOR SHALL REMOVE/MODIFY EXISTING GYPSUM BOARD AND ACT CEILINGS AS NECESSARY FOR NEW CEILING LAYOUT AND MECHAICAL DUCTWORK. SEE CEILING PLAN FOR NEW CEILING LAYOUT.
20. CONTRACTOR SHALL REMOVE OWNER'S EXISTING WALL MOUNTED ITEMS AND TURN OVER TO OVER'S STORE IN DEMOLITION AREAS.
21. CONTRACTOR TO EVALUATE MOISTURE MITIGATION AT SLAB AFTER FLOORING DEMOLITION. VERIFY FLOORING FINISHES INSTALLATION AND WARRANTY REQUIREMENTS FROM MANUFACTURER.
22. USE AND PATHWAY OF TEMPORARY CONSTRUCTION WALLS AND TEMP DUST BARRIERS SHALL MEET THE REQUIREMENTS OF THE 2022 CFC, SECTION 3305.9 AND COMPLY WITH THE HOSPITAL INFECTIOUS CONTROL REQUIREMENTS. "TEMPORARY DUST BARRIER" MATERIAL SHALL SATISFY ONE OF THE FOLLOWING: 1. NONCOMBUSTIBLE MATERIALS. 2. MATERIALS THAT EXHIBIT A FLAME SPREAD INDEX NOT EXCEEDING 25 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723. 3. MATERIALS EXHIBITING A PEAK HEAT RELEASE RATE NOT EXCEEDING 300 KW/M2 WHEN TESTED IN ACCORDANCE WITH ASTM E1354 AT AN INCIDENT HEAT FLUX OF 50 KW/M2 IN THE HORIZONTAL ORIENTATION ON SPECIMENS AT THE THICKNESS INTENDED FOR USE. PLEASE NOTE: IF THE MATERIAL IS TO COMPLY WITH ITEM #2 IDENTIFIED ABOVE, PLEASE BE SURE THE MATERIAL HAS A CLASS A FLAME SPREAD AND/OR DOES NOT EXCEED A FLAME SPREAD INDEX OF 25.

KEY NOTES - DEMOLITION

DP01	DEMOLISH EXISTING WALL IN ITS ENTIRETY
DP02	DEMOLISH EXISTING DOOR AND FRAME
DP03	DEMOLISH EXISTING WINDOW AND FRAME
DP04	DEMOLISH EXISTING PLUMBING FIXTURE IN ITS ENTIRETY, CAP PLUMBING AS REQUIRED
DP05	DEMOLISH EXISTING CASEWORK
DP07	DEMOLISH EXISTING FLOORING IN ITS ENTIRETY. PREPARE SUBSTRATE TO ACCEPT NEW FINISH
DP08	REMOVE EXISTING DUMBWAITER
DP22	REMOVE WALL ATTACHMENT AND RETURN TO OWNER
DP23	REMOVE BULKHEAD AND LIGHT FIXTURE ABOVE, TYP.
DP25	DEMOLITION AND RECONSTRUCTION WILL OCCUR WITHIN ONE SINGLE 8-HOUR SHIFT, SUBJECT TO THE PRIOR REVIEW AND APPROVAL OF THIS APPROACH BY THE OSHPD FIELD FIRE LIFE SAFETY OFFICER. WORK MAY NOT PROCEED UNTIL THAT APPROVAL HAS BEEN OBTAINED. IN THE EVENT THE WORK CANNOT BE COMPLETED IN THAT SINGLE SHIFT, A TEMPORARY BARRIER SHALL BE PROVIDED TO PROVIDE WEATHER PROTECTION PER 2022 CBC, SECTION 1705.2.
DP27	EXISTING EXTERIOR GLASS PANES TO BE REPLACED WITH SPANDREL GLASS, PER PLAN AND PER WINDOW SCHEDULE ON AE601. EXISTING WINDOW FRAME SHALL BE PROTECTED IN PLACE



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- AREA NOT IN SCOPE OF WORK
- AREA IN SCOPE BUT NOT IN PHASE
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- SMOKE PARTITION PER CBC SECTION 710. OPENINGS TO BE RELATIVELY TIGHT FITTING AS REQUIRED TO RESIST PASSAGE OF SMOKE.
- PHASING 1 OUTLINE
- PHASING 2 OUTLINE
- TEMPORARY CONSTRUCTION BARRIER, 1 HR FIRE PARTITION W/ 20 MIN PROTECTED OPENINGS. SEE DETAIL A1/AE511

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LICENSED ARCHITECT STEVEN A. KLEIN C-27299 REN. 7/31/25 STATE OF CALIFORNIA

CONSULTANT

CONSULTANT STAMP

KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	04/30/2025

FILE LOG

ACTIVITY	BY
Design	Designer
Draw	Author
Check	Checker
Issue Date	2023/9/29

AGENCY APPLICATION NUMBER
S231455-33-00

AGENCY APPROVAL STAMP

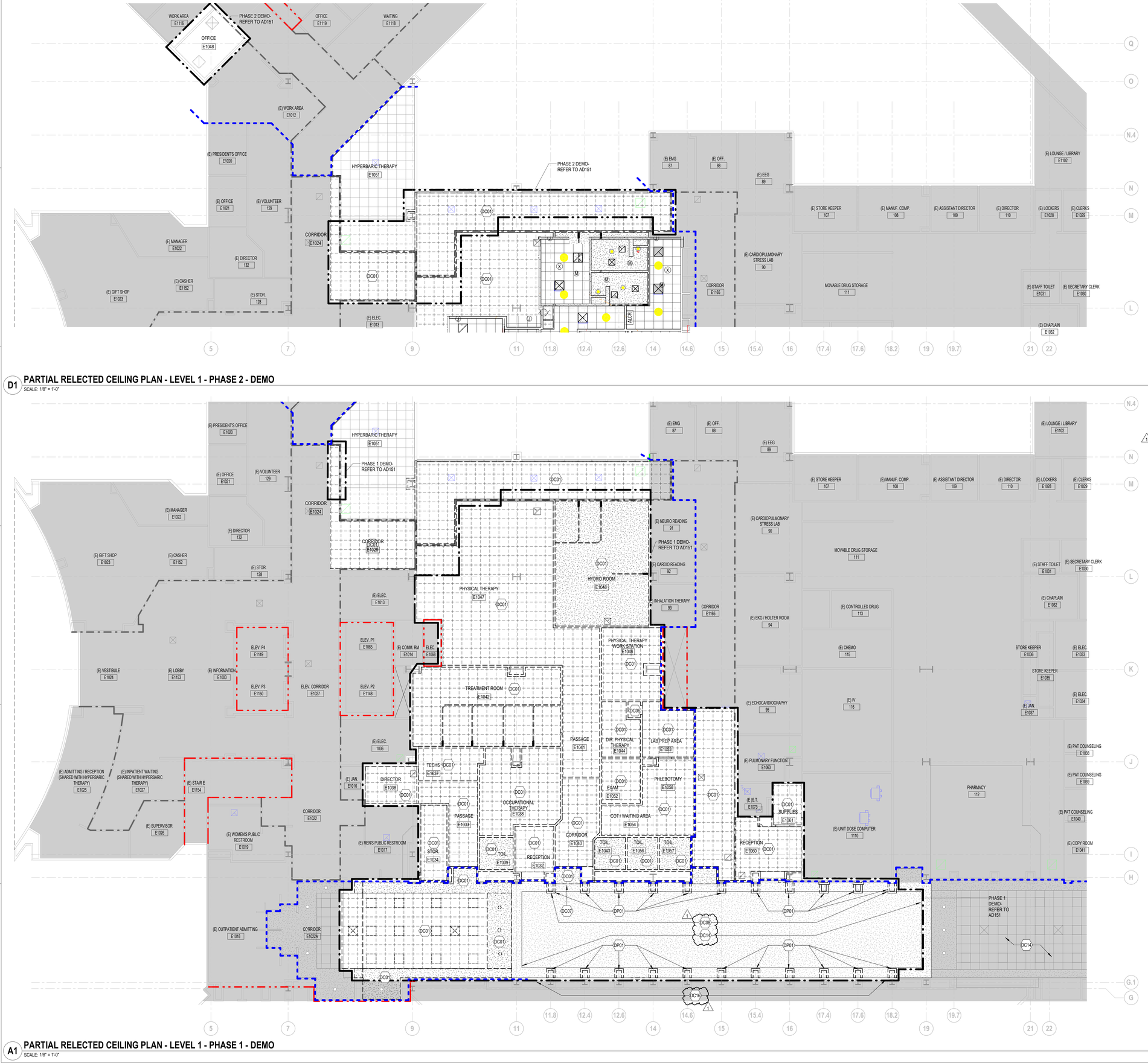
BUILDING TITLE
RIVERSIDE UNIVERSITY HEALTH SYSTEM MEDICAL CENTER

PROJECT TITLE
NEW CARDIAC CATHETERIZATION LAB SUITE & HYPERBARIC FACILITY EXPANSION

RUHS-MC PROJ. NO.	CONSULTANT PROJ. NO.
FM08430011869	047-10071-002

SHEET NAME
PHASING PLAN - LEVEL 1 - FLOOR PLAN - DEMO

SHEET NUMBER
AD151



D1 PARTIAL RELECTED CEILING PLAN - LEVEL 1 - PHASE 2 - DEMO

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

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5/6/2025 3:11:23 PM Autodesk Docs://047-10071-002_RUHS-TO-1_Riverside_County_Health_Cath_Lab RUHS-2ND-CATH-LAB-ARCH.rvt

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KEY NOTES - DEMOLITION

DC01 DEMOLISH EXISTING CEILING, DEVICES, DUCTWORK (SERVING AREA OF WORK), MEDICAL GAS OUTLETS (WHERE OCCURS), AND HVAC REGISTERS. CAP ALL UTILITIES AS REQUIRED DURING CONSTRUCTION. PROTECT EXISTING SPRINKLER PIPING IN PLACE

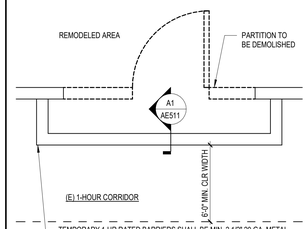
DC06 REMOVE EXISTING DUMBWAITER

DC07 PROTECT IN PLACE EXISTING DOUBLE-HEIGHT VOLUMN WALL. LOCALLY DEMO ONLY AS NEEDED FOR INSTALLATION OF NEW WORK.

DC08 CAREFULLY REMOVE EXISTING MURAL PANELS AND COORDINATE WITH OWNER FOR RELEASE TO STORE OR RELOCATION

DC14 EXISTING VAULTED CEILING TO REMAIN WHERE NOT IMPACED BY NEW CONSTRUCTION. LOCALLY DEMO CEILING ONLY WHERE NEEDED FOR INSTALLATION OF NEW WORK. V.I.F.

DC16 EXISTING GLAZING TO BE REPLACED WITH SPANDREL GLASS, PER PLAN AND PER WINDOW SCHEDULE ON AE601. PROTECT EXISTING WINDOW FRAMES IN PLACE



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CONSULTANT

CONSULTANT STAMP

KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	04/30/2025

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047-10071-002

SHEET NAME

PHASING PLAN - LEVEL 1 - REFLECTED CEILING PLAN - DEMO

SHEET NUMBER

AD152

PHASE 2 REMODEL - REFER TO D1/AE152

PHASE 1 REMODEL - REFER TO A1/AE152

PHASE 2 REMODEL - REFER TO D1/AE152

PHASE 1 REMODEL - REFER TO A1/AE152

OPEN BELOW

NO STORAGE IN CORRIDOR E1059

NO STORAGE IN CORRIDOR E1059B

NO STORAGE IN CORRIDOR E1040

OUTPATIENT DIAGNOSTIC STUDIES

PHARMACY

OPEN BELOW

CONSULTATION / HOLDING E1046
OFFICE E1119
WAITING E1118
(E) WORK AREA E1012
(E) PRESIDENT'S OFFICE E1020
(E) OFFICE E1021
(E) VOLUNTEER 129
(E) MANAGER E1022
(E) DIRECTOR 132
(E) CASHER E1152
(E) GIFT SHOP E1023
(E) STOR. 128
(E) VESTIBULE E1024
(E) LOBBY E1153
(E) INFORMATION E1003
(E) ADMITTING / RECEPTION (SHARED WITH HYPERBARIC THERAPY) E1025
(E) INPATIENT WAITING (SHARED WITH HYPERBARIC THERAPY) E1027
(E) STAIR E 1154
(E) SUPERVISOR E1026
(E) WOMEN'S PUBLIC RESTROOM E1019
(E) OUTPATIENT ADMITTING E1018
(E) MEN'S PUBLIC RESTROOM E1017
(E) JAN. E1016
(E) ELEC. 1036
(E) ELEC. E1013
ELEV. P4 E1149
ELEV. P3 E1150
ELEV. P1
ELEV. P2 E1148
ELEV. CORRIDOR E1027
(E) COMM. RM E1014
CORRIDOR E1024
CORRIDOR E1026
CORRIDOR E1022
CORRIDOR E1022A
HYPERBARIC THERAPY E1051
HKPG E1051C
S.T. E1051B
P.T. / CHANGING E1051A
LOCKER
ADA BENCH
CORRIDOR E1059
STAFF LOUNGE E1039
HSKG E1038
SOILED HOLDING E1037
CLEAN SUPPLY E1035
STORAGE, EQUIPMENT E1034
CORRIDOR E1040
CORRIDOR E1059B
MALE STAFF CHANGING LOCKERS E1060
MALE S.T. / SHOWER E1061
FEMALE S.T. / SHOWER E1071
FEMALE STAFF CHANGING LOCKERS E1062
ANTE ROOM E1041
ALCOVE E1058
AIRBORNE INFECTION ISOLATION PACU E1056H
POST-PROC BAY E1056G
PRE/POST-PROC BAY 4 E1056D
PRE/POST-PROC BAY 3 E1056C
PRE/POST-PROC BAY 2 E1056B
PRE/POST-PROC BAY 1 E1056A
ALCOVE E1043
ALCOVE E1042
DOOR STAYS IN OPEN POSITION
SOFFIT ABOVE
CORRIDOR E1053
NURSE STATION E1056
MEDICATION STATION E1056F
PREP WORK E1056E
P.T. TOIL E1054
CHANGING E1055
ADA
ST. TOIL E1057
SCRUB SINK E1045
SEMI-RESTRICTED CORRIDOR E1046
CEILING LINE ABOVE
(E) EMG 87
(E) OFF. 88
(E) EEG 89
(E) NEURO READING 91
(E) CARDIO READING 92
(E) INHALATION THERAPY 93
(E) CARDIOPULMONARY STRESS LAB 90
(E) STORE KEEPER 107
(E) MANUF. COMP. 108
(E) ASSISTANT DIRECTOR 109
(E) DIRECTOR 110
(E) LOCKERS E1028
(E) CLERKS E1029
(E) LOUNGE / LIBRARY E1102
MOVABLE DRUG STORAGE 111
CORRIDOR E1165
(E) EKG / HOLTER ROOM 94
(E) CONTROLLED DRUG 113
PHARMACY 112
(E) CHEMO 115
(E) ECHOCARDIOGRAPHY 95
(E) IV 116
(E) PULMONARY FUNCTION E1063
(E) S.T. E1073
IT E1074
ELEC. E1075
(E) UNIT DOSE COMPUTER 1110
(E) PRESCRIPTION PICK UP E1048
(E) COPY ROOM E1041
(E) STAFF TOILET E1031
(E) SECRETARY CLERK E1030
(E) CHAPLAIN E1032
(E) ELEC. E1033
(E) ELEC. E1034
(E) JAN. E1037
(E) PAT COUNSELING E1038
(E) PAT COUNSELING E1039
(E) PAT COUNSELING E1040
CEILING MTD HUMIDIFIER (PROVIDE ACCESS PANEL)
EQUIP RM 1 E1047B
CATH LAB 1 E1047
CONTROL RM1 E1047A
CONTROL RM 2 E1049A
CATH LAB 2 E1049
EQUIP RM 2 1049B
OFFICE E1076
RECEPTION E1077
WAITING E1078
CORRIDOR E1072
CORRIDOR E1072A

SHEET NOTES

1. REPAIR EXISTING FIRE RATED WALLS WITHIN SCOPE AS REQUIRED TO MAINTAIN RATING, TYP.
2. PROVIDE SISTER STUDS WHERE NEW BACKING PLATES ARE REQUIRED AT EXISTING WALLS WHICH ARE NOT 16GA STUDS, TYP.
3. WHERE FIRE RATED WALLS NEED TO BE REPAIRED, UPGRADE HEAD OF WALL AND FIRE PENETRATIONS TO MEET DETAIL XV/ AEXXX, UL DESIGN NO. U419.
4. SCOPE OF WORK CONSISTS OF THE PROJECT AREA AND ADJACENT AREAS WITHIN THE 1ST LEVEL, 2ND LEVEL AND LOWER LEVEL. INCLUDE IN BID ALL WORK NECESSARY TO ADDRESS NEW SCOPE INCLUDING WORK ON NIGHTS AND WEEKENDS. SCOPE OF WORK SHALL BE COORDINATED WITHIN ALL DISCIPLINES INCLUDING STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, LOW VOLTAGE, MEDICAL GAS, FIRE ALARM, FIRE SPRINKLER AND EQUIPMENT VENDOR REQUIREMENTS. REVIEW ALL DRAWINGS TO OBTAIN COMPLETE SCOPE OF WORK.
   GENERAL CONTRACTOR TO COORDINATE WORK AMONG MULTIPLE DISCIPLINES.
5. SEE SHEET AE151 FOR PHASING PLANS AND SHEET AE152 FOR PHASING CEILING PLANS. COORDINATE ALL WORK WITHIN ALL DISCIPLINES.
6. ALL WALLS REQUIRING SHIELDING SHALL HAVE LEAD SHIELDING EXTEND TO A HEIGHT OF 7' -0" ABOVE FLOOR. LEAD BATTEN STRIPS, DISKS AND PATCHES SHALL COVER ALL JOINTS AND INTRUSIONS INTO WALLS, CEILING OR FLOORS INCLUDING J-BOXES OR OTHER REASONS.
7. ALL DOORS AND WINDOWS CONTAINED IN A WALL SHALL HAVE A LEAD EQUIVALENT SHIELDING THICKNESS EQUAL TO OR GREATER THAN PRESCRIBED FOR THAT WALL.
8. CONTRACTOR TO PROVIDE AND INSTALL PULLBOXES, J-BOX AND BUSHING FOR PHILIPS AND SECHRIST SYSTEMS. REFER TO ELECTRICAL TECHNOLOGY AND VENDOR DRAWINGS.
9. FOR ALL BOXES TO BE INSTALLED ALONG RATED WALLS, PROVIDE 5-SIDED BOX DETAIL PER A9/AE541.
10. ALL INTERIOR PARTITION NOT TAGGED SHALL BE 4" METAL STUD.
11. PRIOR TO FRAMING NEW WALLS, CONTRACTOR SHALL LAYOUT THE POSITION OF ALL NEW WALLS ON THE FLOOR FOR VALIDATION OF REQUIRED INTERIOR FINISH CLEARANCES, TO IDENTIFY TOP OF WALL FRAMING CONFLICTS AND COORDINATION WITH UTILITIES.
    CONTRACTOR TO SCHEDULE A SITE MEETING TO REVIEW LAYOUT WITH AOR AND FACILITIES

KEY NOTES - REMODEL

P22 RELOCATED WINDOW WITH ACCESS TO ROOF BELOW
P35 UPGARDE EXISTING 1HR FIRE PARTITION TO A 1 HR FIRE BARRIER PER CODE PLAN
P36 PROVIDE VISIBLE AND LEGIBLE SIGNAGE IDENTIFYING ROOM AS "ELECTRICAL ROOM" PER 2022 CFC SECTION 603.4.1
P44 PROVIDE SIGNAGE AT AIRBORNE INFECTION ISOLATION PACU LABELED AS "AIRBORNE INFECTION ISOLATION PACU" PER CODE

LEGEND

- 2 HOUR FIRE BARRIER PER CBC SECTION 706. OPENINGS FIRE RATED FOR 90 MINUTES.
- 1 HOUR FIRE PARTITION PER CBC SECTION 708. OPENINGS FIRE RATED FOR 20 MINUTES FOR CORRIDOR PARTITIONS AND 45 MINUTES FOR OTHER FIRE PARTITIONS.
- 1 HOUR FIRE BARRIER PER CBC SECTION 706. OPENINGS FIRE RATED FOR 20 MINUTES FOR CORRIDOR PARTITIONS AND 45 MINUTES FOR OTHER FIRE PARTITIONS.
- SMOKE PARTITION PER IBC SECTION 710. OPENINGS TO BE RELATIVELY TIGHT FITTING AS REQUIRED TO RESIST PASSAGE OF SMOKE.
- 1HR SMOKE BARRIER PER IBC SECTION 709. OPENINGS TO BE RELATIVELY TIGHT FITTING AS REQUIRED TO RESIST PASSAGE OF SMOKE.
- LEAD LINED WALL. SEE AE 141 FOR SHIELDING PLAN
- TEMPORARY CONSTRUCTION BARRIER, 1 HR FIRE PARTITION W/ 20 MIN PROTECTED OPENINGS. SEE DETAIL A1/AE511
- EXISTING AREA TO REMAIN, AREA NOT IN SCOPE OF WORK
- SEMI-RESTRICTED CORRIDOR
- PHASE 1 - SCOPE OF WORK
- PHASE 2 - SCOPE OF WORK

KEY NOTES

A1 PARTIAL FLOOR PLAN - LEVEL 1 - REMODEL

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

TRUE NORTH

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Riverside University HEALTH SYSTEM

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ARCHITECT STAMP

LICENSED ARCHITECT STEVEN H. KIM C-27299 REN. 7/31/25 STATE OF CALIFORNIA

CONSULTANT

CONSULTANT STAMP

KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	04/30/2025

FILE LOG

ACTIVITY	BY
Design	KK
Draw	JL
Check	SH
Issue Date	2023/9/29

AGENCY APPLICATION NUMBER

S231455-33-00

AGENCY APPROVAL STAMP

BUILDING TITLE

RIVERSIDE UNIVERSITY HEALTH SYSTEM MEDICAL CENTER

PROJECT TITLE

NEW CARDIAC CATHETERIZATION LAB SUITE & HYPERBARIC FACILITY EXPANSION

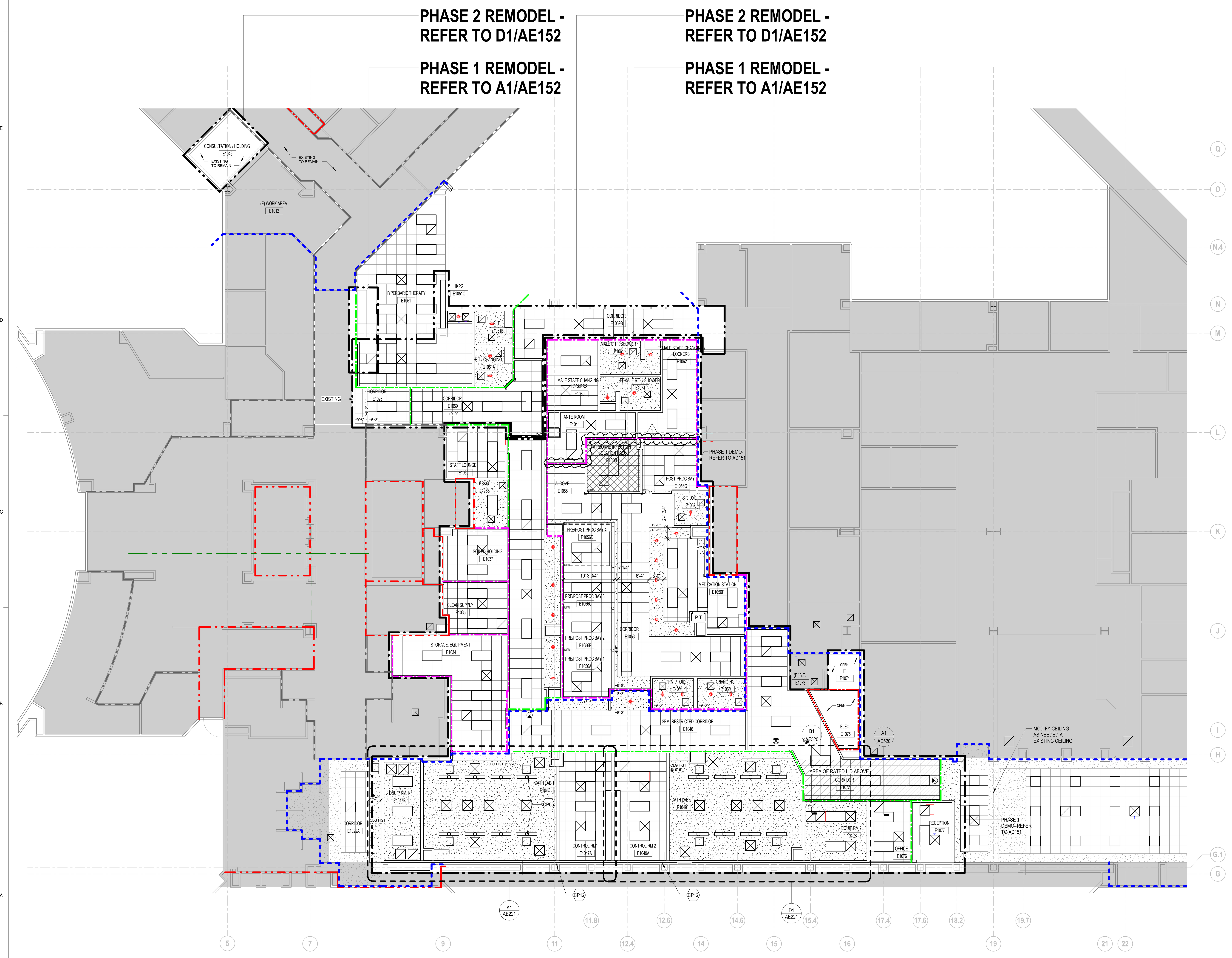
RUHS-MC PROJ. NO.	CONSULTANT PROJ. NO.
FM08430011869	047-10071-002

SHEET NAME

PARTIAL FLOOR PLAN - LEVEL 1 - REMODEL

SHEET NUMBER

AE111



A1 PARTIAL REFLECTED CEILING PLAN - LEVEL 1- REMODEL
SCALE: 1/8" = 1'-0"

SHEET NOTES

KEY NOTES - CEILING PLAN - REMODEL

CP05	NEW 18 X 18 ACCESS PANELS. CONFIRM LOCATION PRIOR TO INSTALLATION.
CP12	WHERE GYPSUM BOXES REMOVED AT EXTERIOR WALL, PATCH AS NEEDED TO MAINTAIN AIR BARRIER AND ALLOW FOR NEW FURRED WALL TO BE CONSTRUCTED, TYPICAL.

CEILING PLAN LEGEND

- EXISTING LAY-IN TILE GRID CEILING
- NEW LAY-IN TILE GRID CEILING
- NEW LAY-IN TILE GRID CEILING, (HATCH INDICATES TUNNEL COORIDOR AREA)
- NEW LAY-IN TILE GRID CEILING, COMPLIANT FOR USE IN AIRBORNE INFECTION ISOLATION EXAM / PACU ROOM. NON-ABSORBING, NON-PERFORATED, CLEAN AND WASHABLE. LAY-IN TILES SHALL BE GASKETED.
- EXISTING PAINTED GYB. BD. CEILING
- NEW PAINTING GYP. BD. CEILING SEE DETAIL A1 & A4 ON AE519

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CONSULTANT

CONSULTANT STAMP

KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	04/30/2025

FILE LOG

ACTIVITY	BY
Design	Designer
Draw	Author
Check	Checker
Issue Date	2023/9/29

AGENCY APPLICATION NUMBER
S231455-33-00

AGENCY APPROVAL STAMP

BUILDING TITLE
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PROJECT TITLE
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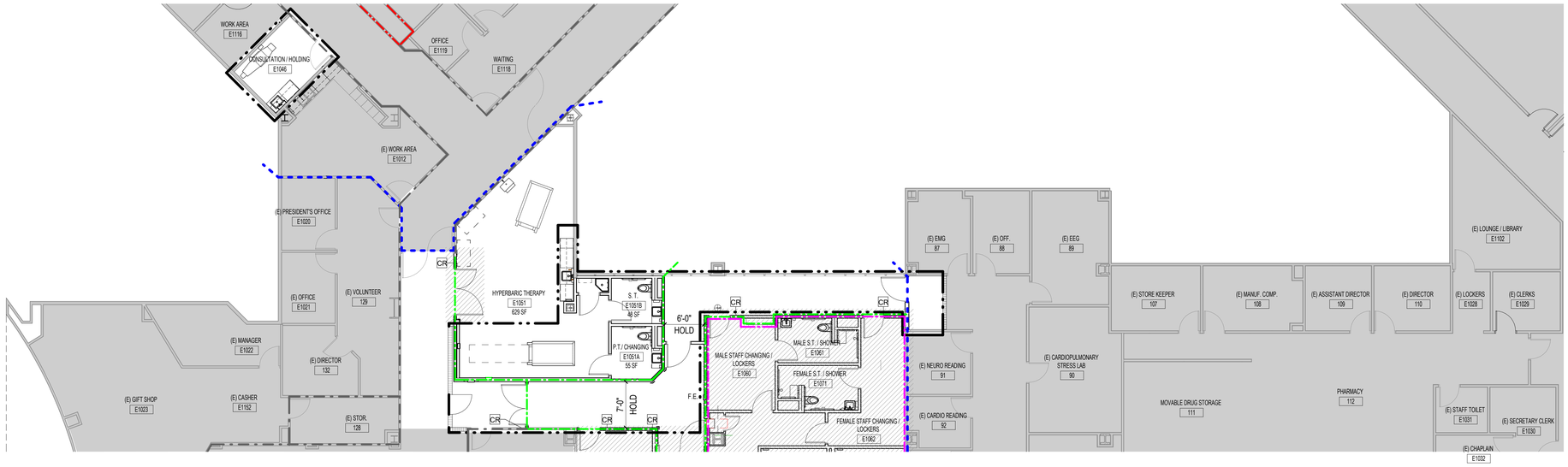
RUHS-MC PROJ. NO.	CONSULTANT PROJ. NO.
FM08430011869	047-10071-002

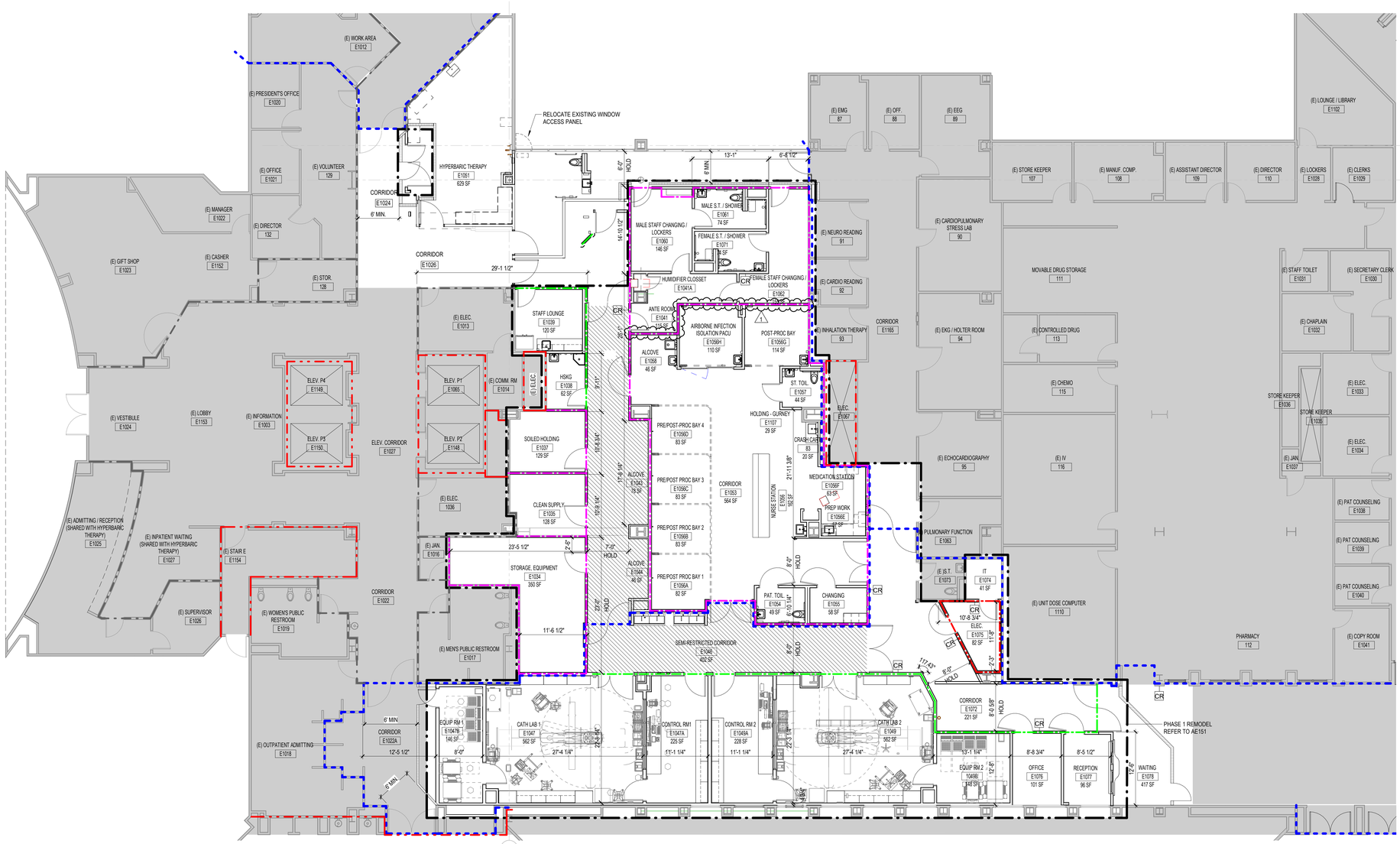
SHEET NAME
PARTIAL REFLECTED CEILING PLAN - LEVEL 1 - REMODEL

SHEET NUMBER
AE121



E1 PARTIAL FLOOR PLAN - LEVEL 1 - PHASE 2- REMODEL PLAN

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



A1 PARTIAL FLOOR PLAN - LEVEL 1 - PHASE 1 - REMODEL PLAN

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

LEGEND

- 2 HOUR FIRE BARRIER PER CBC SECTION 706. OPENINGS FIRE RATED FOR 90 MINUTES.
- 1 HOUR FIRE PARTITION PER CBC SECTION 708. OPENINGS FIRE RATED FOR 20 MINUTES FOR CORRIDOR PARTITIONS AND 45 MINUTES FOR OTHER FIRE PARTITIONS.
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- LEAD LINED WALL. SEE AE 141 FOR SHIELDING PLAN
- TEMPORARY CONSTRUCTION BARRIER, 1 HR FIRE PARTITION W/ 20 MIN PROTECTED OPENINGS. SEE DETAIL A1/AE511
- EXISTING AREA TO REMAIN, AREA NOT IN SCOPE OF WORK
- SEMI-RESTRICTED CORRIDOR
- PHASE 1 - SCOPE OF WORK
- PHASE 2 - SCOPE OF WORK

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ARCHITECT STAMP

LICENSED ARCHITECT STEVEN A. HEATH C-27299 REN. 7/31/25 STATE OF CALIFORNIA

CONSULTANT

CONSULTANT STAMP

KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	04/30/2025

FILE LOG

ACTIVITY	BY
Design	Designer
Draw	Author
Check	Checker
Issue Date	2023/9/29

AGENCY APPLICATION NUMBER

S231455-33-00

AGENCY APPROVAL STAMP

BUILDING TITLE

RIVERSIDE UNIVERSITY HEALTH SYSTEM MEDICAL CENTER

PROJECT TITLE

NEW CARDIAC CATHETERIZATION LAB SUITE & HYPERBARIC FACILITY EXPANSION

RUHS-MC PROJ. NO.	CONSULTANT PROJ. NO.
FM08430011869	047-10071-002

SHEET NAME

PHASING PLAN - LEVEL 1 - FLOOR PLAN - REMODEL

SHEET NUMBER

AE151

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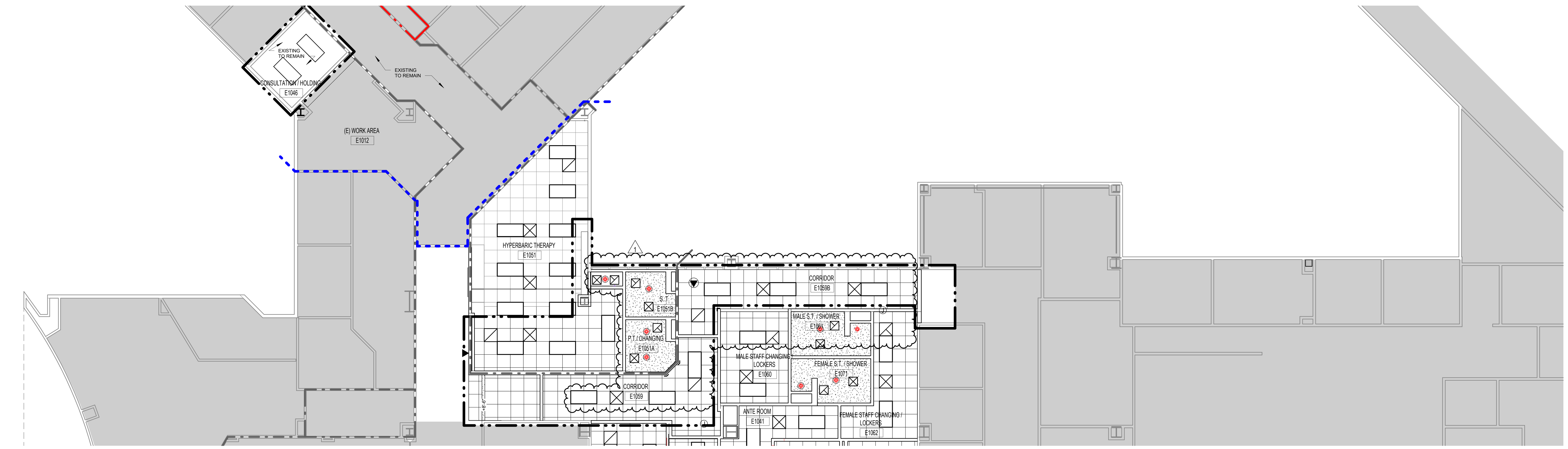
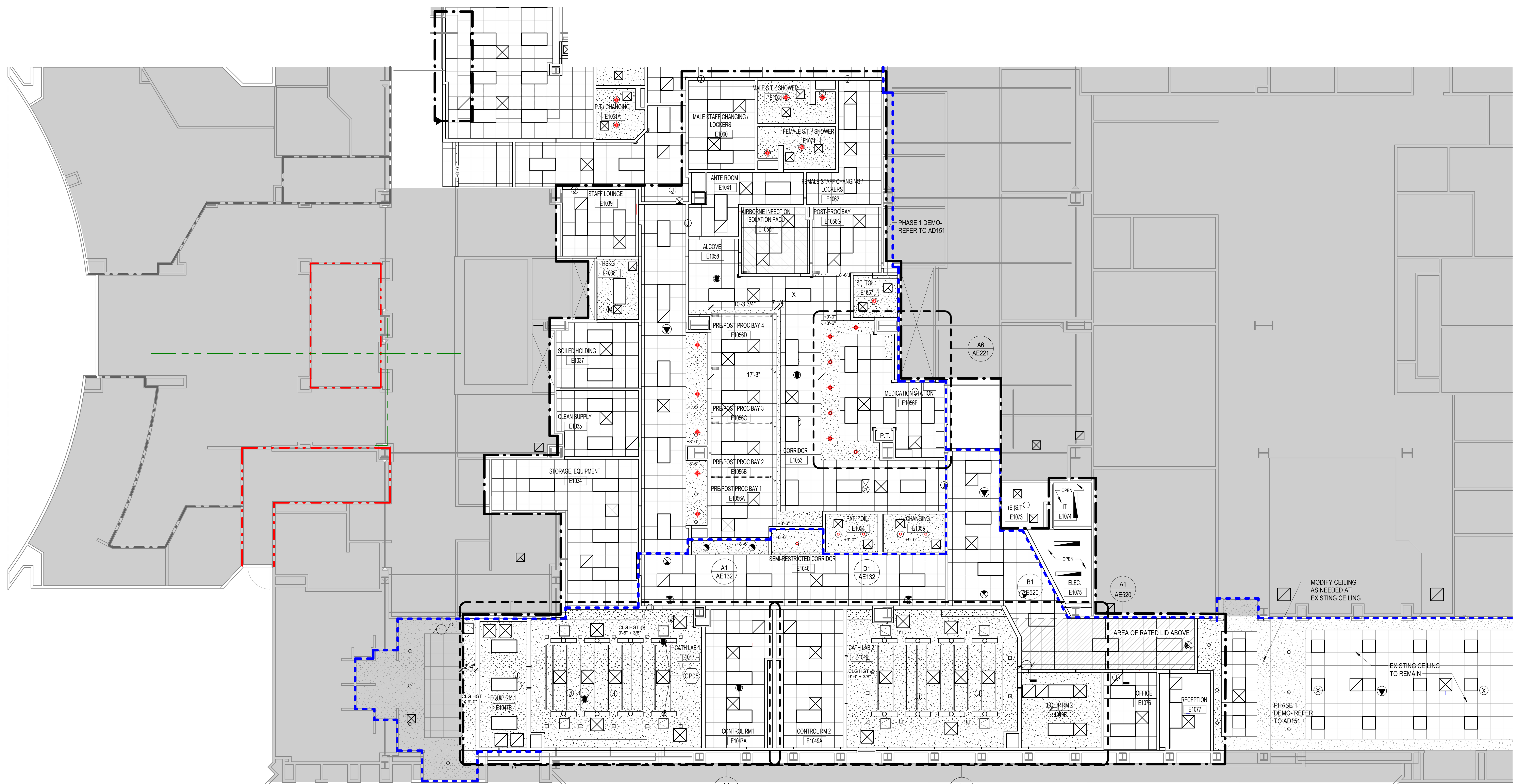
CEILING LEGEND

- EXISTING LAY-IN TILE GRID CEILING
- NEW LAY-IN TILE GRID CEILING
- NEW LAY-IN TILE GRID CEILING, (HATCH INDICATES TUNNEL COORIDOR AREA)
- NEW LAY-IN TILE GRID CEILING, COMPLIANT FOR USE IN AIRBORNE INFECTION ISOLATION EXAM / PACU ROOM, NON-ABSORBING, NON-PERFORATED, CLEAN AND WASHABLE. LAY-IN TILES SHALL BE GASKETED.
- EXISTING PAINTED GYB. BD. CEILING
- NEW PAINTING GYP. BD. CEILING SEE DETAIL A1 & A4 ON AE519



D1 PARTIAL REFLECTED CEILING PLAN - LEVEL 1- REMODEL - PHASING 2
SCALE: 1/8" = 1'-0"



A1 PARTIAL REFLECTED CEILING PLAN - LEVEL 1- REMODEL - PHASING 1
SCALE: 1/8" = 1'-0"

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ARCHITECT STAMP

LICENSED ARCHITECT
C-27292
STATE OF CALIFORNIA

CONSULTANT

CONSULTANT STAMP

KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	04/30/2025

FILE LOG

ACTIVITY	BY
Design	Designer
Draw	Author
Check	Checker
Issue Date	2023/9/29

AGENCY APPLICATION NUMBER
S231455-33-00

AGENCY APPROVAL STAMP

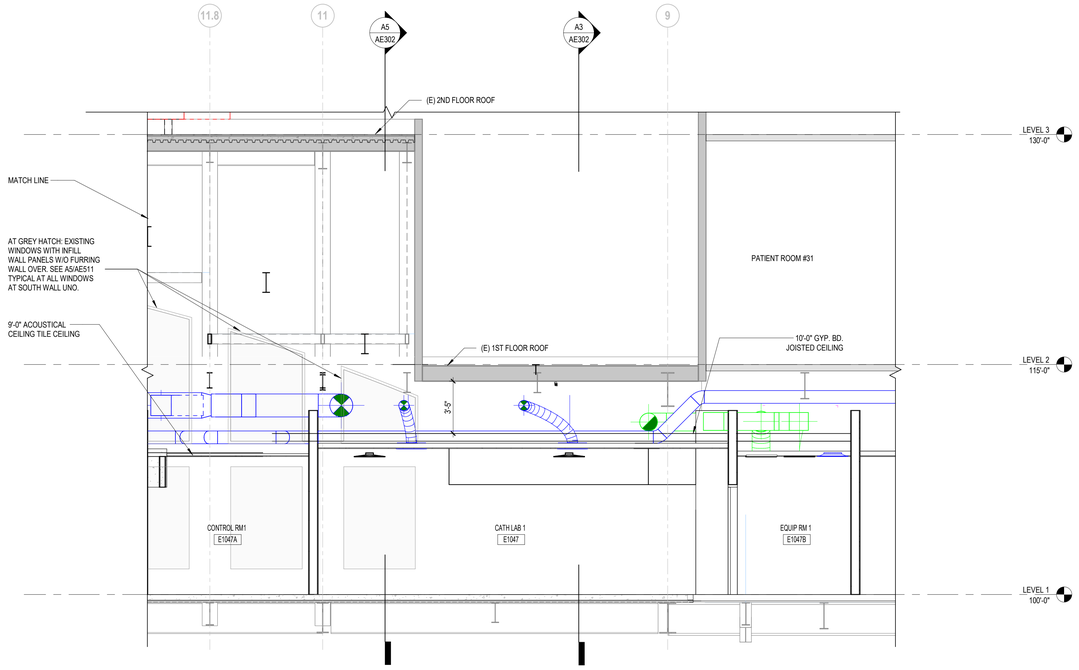
BUILDING TITLE
RIVERSIDE UNIVERSITY HEALTH SYSTEM MEDICAL CENTER

PROJECT TITLE
NEW CARDIAC CATHETERIZATION LAB SUITE & HYPERBARIC FACILITY EXPANSION

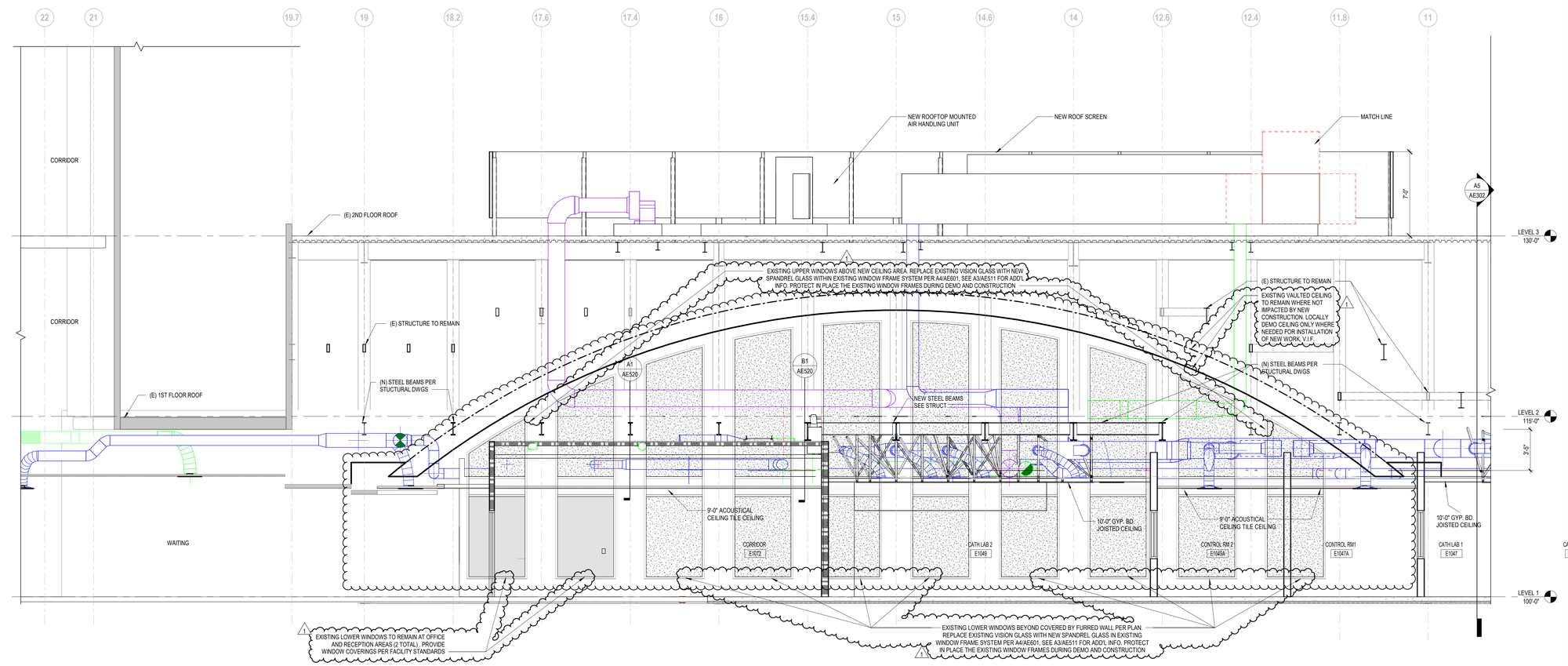
RUHS-MC PROJ. NO.	CONSULTANT PROJ. NO.
FM08430011869	047-10071-002

SHEET NAME
PHASING PLAN - LEVEL 1 - REFLECTED CEILING PLAN - REMODEL

SHEET NUMBER
AE152



D1 BUILDING SECTION @ CATH LAB 1 - EAST/WEST
SCALE: 1/4" = 1'-0"



A1 BUILDING SECTION ELEVATION @ CATH LAB 2 - EAST/WEST
SCALE: 1/4" = 1'-0"

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ARCHITECT STAMP

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KEY PLAN

REVISIONS

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1	ADDENDUM 01	04/30/2025

FILE LOG

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Design	Designer
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PROJECT TITLE

NEW CARDIAC CATHETERIZATION LAB SUITE & HYPERBARIC FACILITY EXPANSION

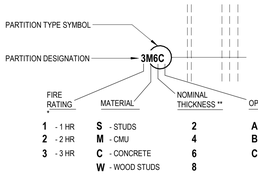
RUHS-MC PROJ. NO.	CONSULTANT PROJ. NO.
FM08430011869	047-10071-002

SHEET NAME

PARTIAL BUILDING SECTION @ CATH LAB - EAST/WEST

SHEET NUMBER

AE301



SUGGESTED OPTIONS LIST

A - ACOUSTICAL INSULATION
B - BOTH FACES
C - GWB TO 6" ABOVE CEILING
D - DOUBLE WALL
G - GYPSUM WALL BOARD (FIRE RATED)
H - SHAFTWALL
L - LEAD LINED
O - ONE FACE ONLY
P - PARTIAL HEIGHT PARTITION
R - RIGID INSULATION W/ GWB COVERING
S - SMOKE PARTITION / BARRIER
T - TEMPORARY PARTITION
Z - STAGGERED STUDS (ACOUSTICAL)
2 - 2 LAYERS GWB

* - DESIGNATION NOT INDICATED FOR NON-RATED PARTITIONS

** - DESIGNATION NOT INDICATED FOR PROJECT STANDARD THICKNESS

*** - DESIGNATION NOT INDICATED IF OPTIONS ARE NOT APPLICABLE; ONE OR TWO OPTION DESIGNATORS MAY BE USED.

GENERAL NOTES:

1. PROVIDE MINIMUM 0.0312" STUDS @ WALLS TO RECEIVE FINISH (TILE, STONE, WOOD, ETC).
2. PROVIDE MINIMUM 0.0312" STUDS @ JAMBS OF DOOR AND FIXED GLASS FRAMES, @ OPEN PARTITION ENDS, AND WHERE PARTITION IS TO RECEIVE WALL MOUNTED SHELVES, CASEWORK, PLUMBING FIXTURES, ETC.
3. USE 5/8" FR GWB @ ALL FIRE-RATED PARTITIONS, ANCHOR W/ SCREWS @ 8" OC ON EDGES @ 12" OC IN FIELD PER UL DESIGN NUMBERS LISTED.
4. SEE ALL SPECIFICATIONS FOR GWB REQUIREMENTS @ TOILETS AND ALL WET AREAS.
5. APPLIES TO POWER AND COMMUNICATIONS, ETC.
   A) BACK-TO-BACK PLACEMENT OF OUTLET BOXES NOT PERMITTED.
   B) PLUG ALL UNUSED KNOCK-OUTS IN OUTLET BOXES WITH KNOCK-OUT CAPS.
   C) PROVIDE "HILTI FIRESTOP PUTTY PAD OR EQUAL TO OUTLET BOXES IN FIRE-RATED WALLS OR WHERE OTHERWISE INDICATED.
   D) DEPTH OF OUTLET BOX TO BE COMPATIBLE WITH STUD SIZES IN ORDER TO ACCOMMODATE BOX PAD.
6. PROVIDE 2" x 8" FIRE TREATED WOOD BLOCKING @ WALL HUNG CASEWORK, SHELVES, COUNTERTOPS, HEAVY WALL SCONCES, AND MAJOR ARTWORK.
7. NOTE, THE DIAGONAL BRACING COLUMN INDICATES THAT THE CONTRACTOR HAS AN OPTION TO PROVIDE BRACING TO REDUCE THE VERTICAL SPANS OF STUDS IN ORDER TO MINIMIZE SIZE, GAGE OR SPACING, PROVIDED THAT DOING SO DOESN'T CONFLICT WITH ARCHITECTS DESIGN CRITERIA.
8. FOR FIRE-RESISTIVE JOINT SYSTEMS AND THRU-PENETRATION FIRE STOP SYSTEMS, REFER TO DETAILS AND UL LISTINGS IDENTIFIED ON SHEET AE531 THRU AE535.

INTERIOR STUD CHART NOTES:

* REFERENCE STEEL STUD MANUFACTURER ASSOCIATION'S STANDARDS FOR SECTION PROPERTIES AND DESIGN OF STUD SIZE LISTED HERE.

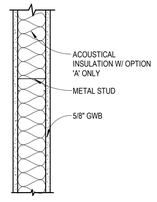
USE L/240 DEFLECTION CHART FOR ALL AREAS UNLESS OTHERWISE NOTED.

INTERIOR STUD GAGE AND SPACING CHART*

STUD WIDTH	DESIGN THICKNESS (GAGE)	STUD SPACING (INCHES)	PARTITION HEIGHT DEFLECTION VALUE 5 psf L/120	L/240	L/360	BRACING SPACING WHERE OCCURS
1 5/8"	0.0179" (25)	16"	10'-7"	8'-4"	-	4'-0" OC
		24"	9'-9"	7'-11"	-	4'-0" OC
	0.0312" (20)	16"	12'-1"	9'-8"	8'-5"	4'-0" OC
		24"	11'-0"	8'-9"	7'-8"	4'-0" OC
2 1/2"	0.0179" (25)	16"	13'-3"	11'-3"	9'-10"	6'-0" OC
		24"	11'-10"	10'-7"	9'-3"	6'-0" OC
	0.0312" (20)	16"	16'-5"	12'-10"	11'-2"	6'-0" OC
		24"	14'-10"	11'-7"	10'-0"	6'-0" OC
4"	0.0179" (25)	16"	17'-2"	15'-4"	13'-4"	8'-0" OC
		24"	15'-1"	14'-2"	12'-4"	8'-0" OC
	0.0312" (20)	16"	23'-1"	18'-4"	15'-11"	8'-0" OC
		24"	20'-9"	16'-5"	14'-3"	8'-0" OC
6"	0.0179" (25)	16"	19'-9"	19'-9"	17'-11"	10'-0" OC
		24"	16'-9"	16'-9"	16'-9"	10'-0" OC
	0.0312" (20)	16"	30'-10"	24'-6"	21'-4"	10'-0" OC
		24"	27'-2"	21'-7"	18'-10"	10'-0" OC

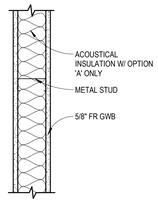
PARTITION TYPES LEGEND

PARTITION TYPES GENERAL NOTES & SPACING CHART



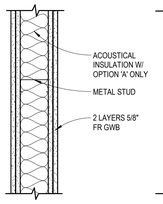
NON-RATED PARTITION

S2 — 2 1/2" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ 5/8" GWB BOTH SIDES
S4 — 4" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ 5/8" GWB BOTH SIDES
S4C — 4" x 16 GA METAL STUDS @ 16" OC TO 6" ABOVE CEILING W/ 5/8" GWB BOTH SIDES
S4A — 4" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ ACOUSTICAL INSULATION W/ 5/8" GWB BOTH SIDES
S6 — 6" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ 5/8" GWB BOTH SIDES, STC 49
S6C — 6" x 16 GA METAL STUDS @ 16" OC TO 6" ABOVE CEILING W/ 5/8" GWB BOTH SIDES
S6A — 6" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ ACOUSTICAL INSULATION W/ 5/8" GWB BOTH SIDES, STC 49
S6A4 — 4" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ ACOUSTICAL INSULATION W/ 5/8" GWB BOTH SIDES - SMOKE PARTITION
S6SA — 6" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ ACOUSTICAL INSULATION W/ 5/8" GWB BOTH SIDES - SMOKE PARTITION
S6L — LEAD LINED PARTITION WITH 6" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ ACOUSTICAL INSULATION W/ 5/8" GWB BOTH SIDES - LEAD UP TO 7'-0" A.F.F. (SEE SHIELDING PLAN FOR LEAD THICKNESS REQUIRED)
S2P — 2 1/2" x 16 GA METAL STUDS @ 16" OC TO 3'-6"AFF W/ 5/8" GWB BOTH SIDES



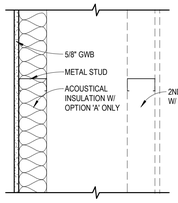
ONE HOUR FIRE RATING UL DESIGN NO U419

1SA — 4" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ 5/8" FR GWB BOTH SIDES
1SA4 — 4" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ 5/8" FR GWB BOTH SIDES & ACOUSTICAL INSULATION, STC 49
1S6 — 6" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ 5/8" FR GWB BOTH SIDES
1S6A — 6" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ ACOUSTICAL INSULATION W/ 5/8" FR GWB BOTH SIDES, STC 49
1S6L — LEAD LINED PARTITION WITH 6" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ ACOUSTICAL INSULATION W/ 5/8" FR GWB BOTH SIDES - LEAD UP TO 7'-0" A.F.F. (SEE SHIELDING PLAN FOR LEAD THICKNESS REQUIRED), STC 49



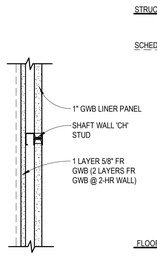
TWO HOUR FIRE RATING UL DESIGN NO U419

2SA — 4" x 16 GA METAL STUDS @ 16" OC W/ 2 LAYERS 5/8" FR GWB BOTH SIDES & ACOUSTICAL INSULATION TO STRUCTURE, STC 56



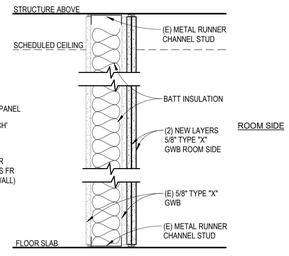
OPTION 'O' - ONE GWB FACE ONLY

S2O — 2 1/2" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ 5/8" GWB ONE FACE ONLY
S4O — 4" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ 5/8" GWB ONE FACE ONLY
S6O — 6" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ 5/8" GWB ONE FACE ONLY
S2OL — LEAD LINED PARTITION 2 1/2" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ 5/8" GWB ONE FACE ONLY - LEAD UP TO 7'-0" A.F.F. (SEE SHIELDING PLAN FOR LEAD THICKNESS REQUIRED)
S4OL — LEAD LINED PARTITION 4" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ 5/8" GWB ONE FACE ONLY - LEAD UP TO 7'-0" A.F.F. (SEE SHIELDING PLAN FOR LEAD THICKNESS REQUIRED)
S10L — LEAD LINED PARTITION 1 5/8" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ 5/8" GWB ONE FACE ONLY - LEAD UP TO 7'-0" A.F.F. (SEE SHIELDING PLAN FOR LEAD THICKNESS REQUIRED)



2 HOUR - SHAFTWALL

2SAH — 4" 'CH' STUDS @ 16" OC W/ 2 LAYERS 5/8" FR GWB & A 1" GWB LINER PANEL TO STRUCTURE
UL DESIGN NO U438

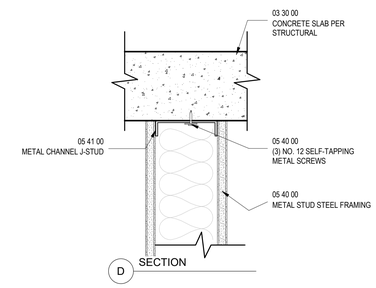


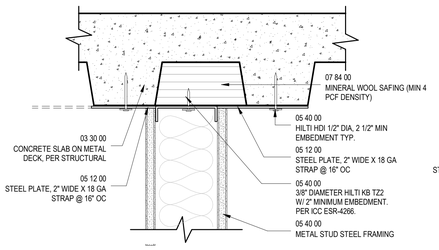
2-HR FIRE BARRIER W/3 LAYERS INSIDE UL DESIGN NO. 408

2G — 2 LAYERS OF FIRE RATED 5/8" GWB ON EXISTING METAL STUD WALL W/5/8" GWB ON EACH SIDE. THE 3 LAYER OF GWB SHALL BE ON THE ROOM SIDE.

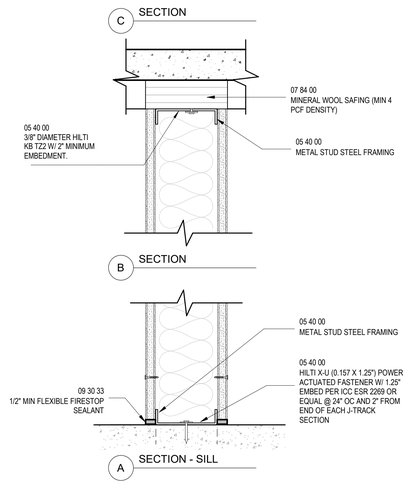
2-HR HORIZONTAL FIRE BARRIER UL DESIGN NO. 408

2G — 2 LAYERS OF FIRE RATED 5/8" GWB ON EXISTING METAL STUD WALL W/5/8" GWB ON EACH SIDE. THE 3 LAYER OF GWB SHALL BE ON THE ROOM SIDE.

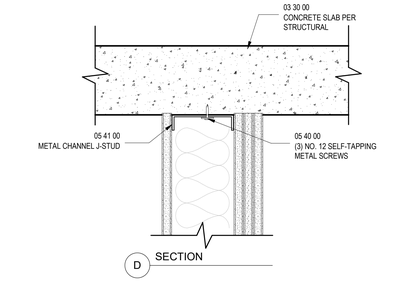


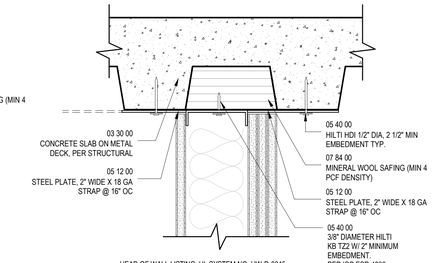


HEAD OF WALL LISTING: UL SYSTEM NO. HW-D-0284 OR HW-D-0396

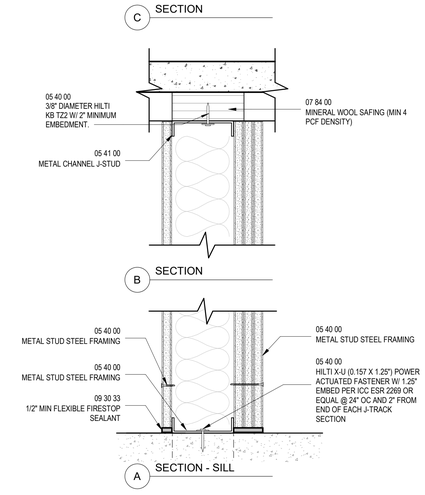


ONE HOUR FIRE RATING: UL SYSTEM NO. U419





HEAD OF WALL LISTING: UL SYSTEM NO. HW-D-0045

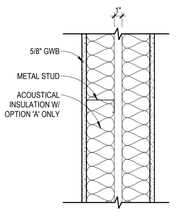


ONE HOUR FIRE RATING: UL SYSTEM NO. U408

C1 **PARTITION TYPES STUD (PLANS)**
SCALE: NTS

C5 **1-HR RATED ASSEMBLY - HEAD AND SILL**
SCALE: 3" = 1'-0"

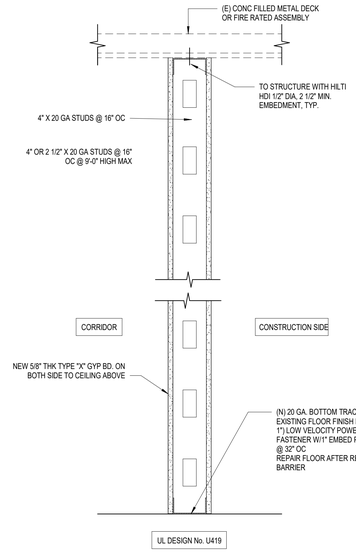
C7 **2-HR RATED ASSEMBLY - HEAD AND SILL**
SCALE: 3" = 1'-0"



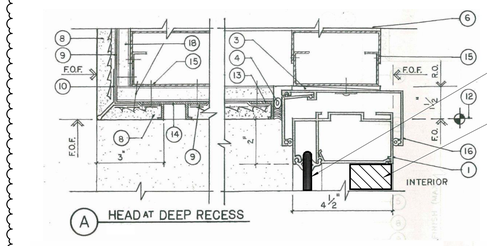
PLUMBING PARTITION

S9 — (2) 4" x 16 GA METAL STUDS @ 16" OC TO STRUCTURE ABOVE W/ 5/8" GWB ONE FACE ONLY AND 1" AIR GAP IN BETWEEN

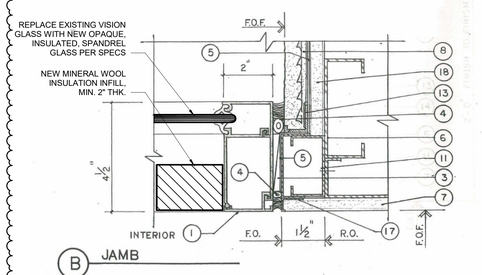
A1 **PARTITION TYPES STUD (PLUMBING)**
SCALE: 1 1/2" = 1'-0"



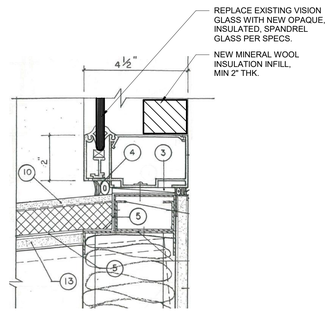
A2 **TEMPORARY CONSTRUCTION BARRIER**
SCALE: 1 1/2" = 1'-0"



A **HEAD AT DEEP RECESS**



B **JAMB**



C **SILL**

KEYNOTES

1. EXISTING WINDOW FRAME
2. FASTENER PER WINDOW MANUFACTURER'S SPECIFICATIONS AND/OR OSHPD REQUIREMENTS AND APPROVAL.
3. SHIM PER WINDOW MANUFACTURER'S SPECIFICATIONS.
4. CONTINUOUS CAULKING SEALANT WITH BACKER ROD AS REQUIRED.
5. CONTINUOUS SHEET WATERPROOF MEMBRANE.
6. METAL STUD FRAMING MEMBER. SEE STRUCTURAL DRAWINGS.
7. 5/8" GYPSUM BOARD.
8. STUCCO WITH PAPER-BACKED LATH.
9. BUILDING PAPER TO BE EXTENDED OVER METAL EXTRUSION FLANGES.
10. G.I. CORNER SCREED.
11. 2½" X 1-3/8" METAL STUD INSIDE 2½" X 1¼" STUD TRACK FOR LEVELING/SQUARING OF ROUGH OPENING.
12. FINISH CEILING LINE. SEE REFLECTED CEILING PLAN OR FINISH SCHEDULE.
13. CONTINUOUS EXTRUDED METAL STANDARD "J" MOLD.
14. CONTINUOUS G.I. METAL STANDARD "J" MOLD.
15. 4" X 1-5/8" METAL STUD INSIDE 4" X 1¼" STUD TRACK FOR LEVELING/SQUARING OF ROUGH OPENING.
16. CONTINUOUS SEISMIC WINDOW RECEPTOR FRAME.
17. STANDARD GYPSUM BOARD "J" MOLD.
18. 5/8" EXTERIOR GYPSUM SHEATHING.

A3 **WINDOW DETAIL - JAMB AT DEEP RECESS**
SCALE: NTS

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LICENSED ARCHITECT STEVEN A. HEATH C-27299 REN. 7/31/25 STATE OF CALIFORNIA

CONSULTANT

CONSULTANT STAMP

KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	04/30/2025

FILE LOG

ACTIVITY	BY
Design	Designer
Draw	Author
Check	Checker
Issue Date	2023/9/29

AGENCY APPLICATION NUMBER
S231455-33-00

AGENCY APPROVAL STAMP

BUILDING TITLE
RIVERSIDE UNIVERSITY HEALTH SYSTEM MEDICAL CENTER

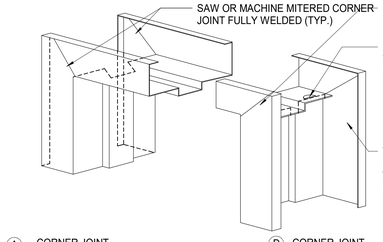
PROJECT TITLE
NEW CARDIAC CATHETERIZATION LAB SUITE & HYPERBARIC FACILITY EXPANSION

RUHS-MC PROJ. NO.: FM08430011869
CONSULTANT PROJ. NO.: 047-10071-002

SHEET NAME
PARTITION TYPES

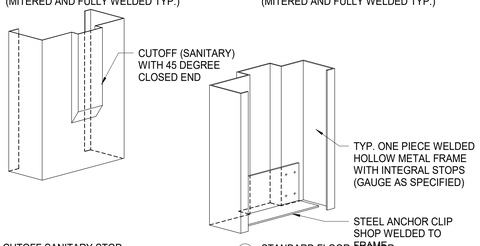
SHEET NUMBER
AE511

5/8/2025 3:11:40 PM Autodesk Docs://047-10071-002_RUHS-TCO-1_Riverside_County_Health_Cath_Lab/ RUHS-2ND-CATH-LAB-ARCH.rvt



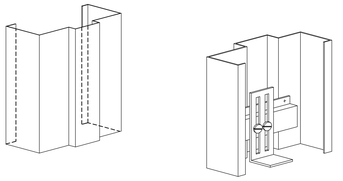
A CORNER JOINT (MITERED AND FULLY WELDED TYP.)

D CORNER JOINT (MITERED AND FULLY WELDED TYP.)



B CUTOFF SANITARY STOP (WHERE SCHEDULED)

E STANDARD FLOOR ANCHOR (TYPICAL, UON)

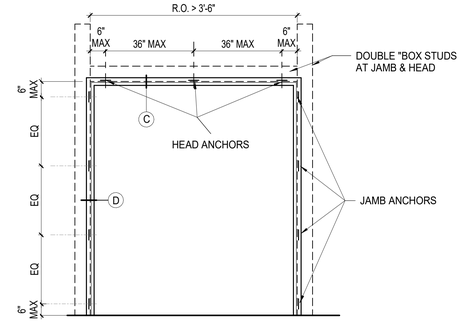


C STANDARD STOP (TYPICAL, UON)

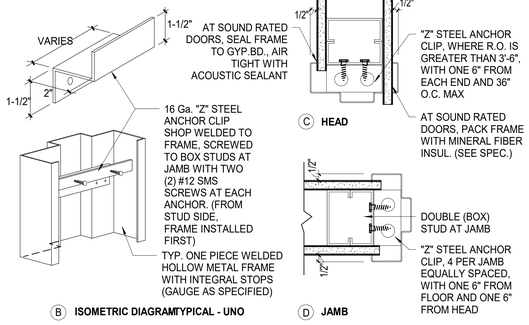
F ADJUSTABLE FLOOR ANCHOR (TYPICAL AT FLOORS WITH SETTING BED)

D1 HOLLOW METAL FRAMES

SCALE: 3" = 1'-0"



A **FRAME ELEVATIONTYPICAL - UNO**



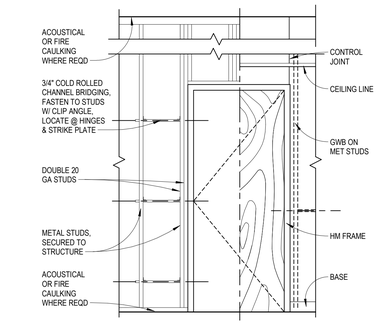
B **ISOMETRIC DIAGRAMTYPICAL - UNO**

C **HEAD**

D **JAMB**

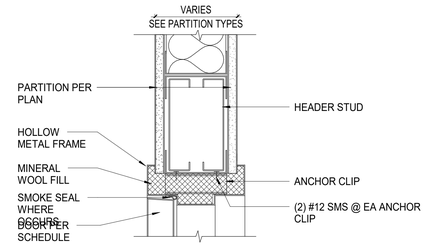
D2 FRAME ATTACHMENT

SCALE: 3" = 1'-0"



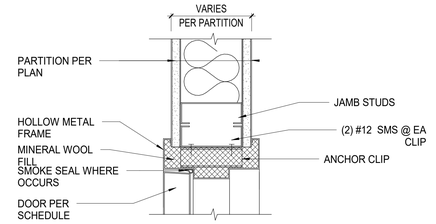
F4 TYPICAL DOOR FRAMING

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



F5 TYPICAL INTERIOR DOOR HEAD

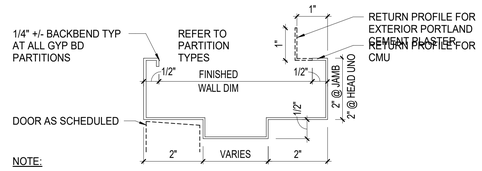
SCALE: 3" = 1'-0"



HEAD SIMILAR

D5 TYP. INT. DOOR JAMB

SCALE: 3" = 1'-0"

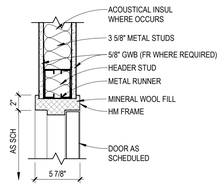


NOTE:

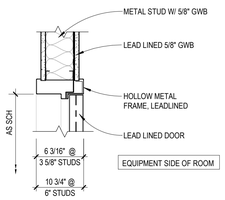
1. ALL FRAMES ARE WELDED UNLESS NOTED OTHERWISE
2. EXTEND STOPS TO FLOOR WHERE WEATHER STRIPPING, AUTOMATIC DOOR BOTTOMS
3. CLOSE BOTTOM OF STOP WELD & GRIND SMOOTH

C6 TYP. HM FRAME PROFILE

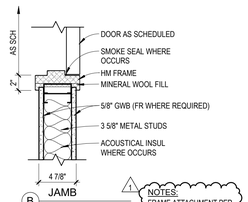
SCALE:1" = N.T.S.



A HEAD

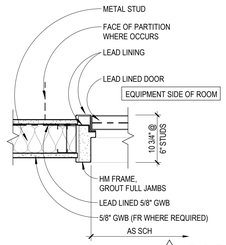


A HEAD



B JAMB

1 NOTES: FRAME ATTACHMENT PER DETAIL D2/AE551



B JAMB

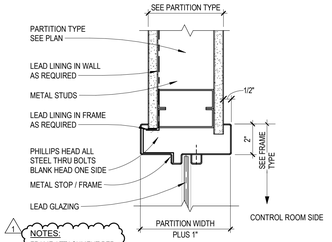
1 NOTES: FRAME ATTACHMENT PER DETAIL D2/AE551

B1 HM DOOR FRAME IN METAL STUD

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

B2 HM FRAME DOOR DETAIL - LEADLINED

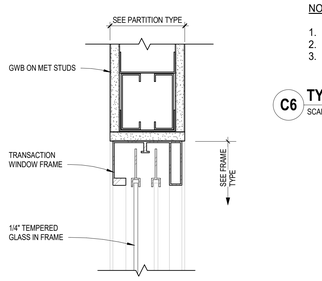
SCALE: 1 1/2" = 1'-0"



1 NOTES: FRAME ATTACHMENT PER DETAIL D2/AE551

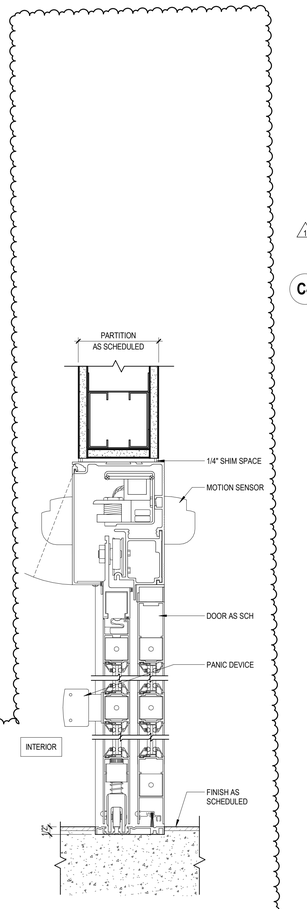
C4 LEAD-LINED WDW FRAME JAMB/HEAD/SILL

SCALE: 3" = 1'-0"



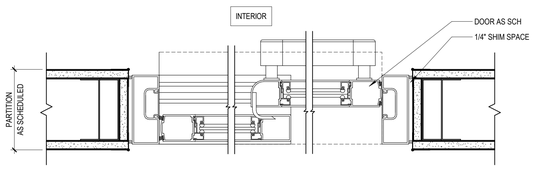
B5 TRANSACTION WINDOW DETAIL

SCALE: 3" = 1'-0"



A3 SLIDING DOOR - VERTICAL

SCALE: 3" = 1'-0"



A1 SLIDING DOOR - HORIZONTAL

SCALE: 3" = 1'-0"

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LICENSED ARCHITECT STEVEN A. HEATH C-27299 REN. 7/31/25 STATE OF CALIFORNIA

CONSULTANT

CONSULTANT STAMP

KEY PLAN

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1	ADDENDUM 01	04/30/2025

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Issue Date	2023/9/29

AGENCY APPLICATION NUMBER

S231455-33-00

AGENCY APPROVAL STAMP

BUILDING TITLE

RIVERSIDE UNIVERSITY HEALTH SYSTEM MEDICAL CENTER

PROJECT TITLE

NEW CARDIAC CATHETERIZATION LAB SUITE & HYPERBARIC FACILITY EXPANSION

RUHS-MC PROJ. NO.	CONSULTANT PROJ. NO.
FM08430011869	047-10071-002

SHEET NAME

DETAILS - DOOR AND WINDOW

SHEET NUMBER

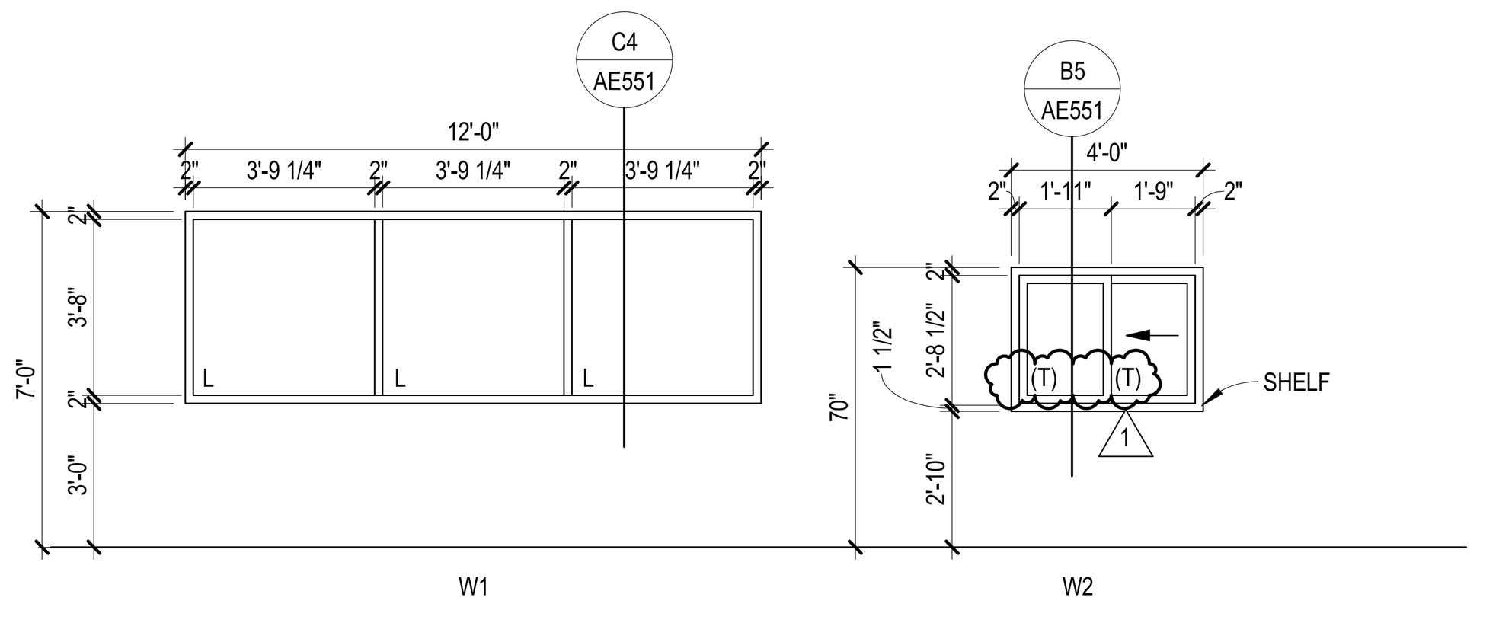
AE551

WINDOW SCHEDULE - NEW WINDOWS

WINDOW TYPE	Width	Height	FRAME TYPE	FRAME FINISH	DETAIL NO.	DETAIL SHEET	COMMENTS
W1	12'-0"	4'-0"	HM	PT-	C4	AE551	LEAD-LINED (L)
W2	4'-0"	3'-0"	HM	PT-	B5	AE551	(T)
W3	5'-0"	4'-2"	EXISTING	EXISTING	A4/AE601	A4/AE601	EXISTING GLAZING AND FRAME TO REMAIN (E)
W4	3'-0"	4'-0"	EXISTING	EXISTING	A4/AE601	A4/AE601	REPLACE EXISTING GLASS PANEL WITH NEW SPANDREL GLASS IN EXISTING FRAME (S)

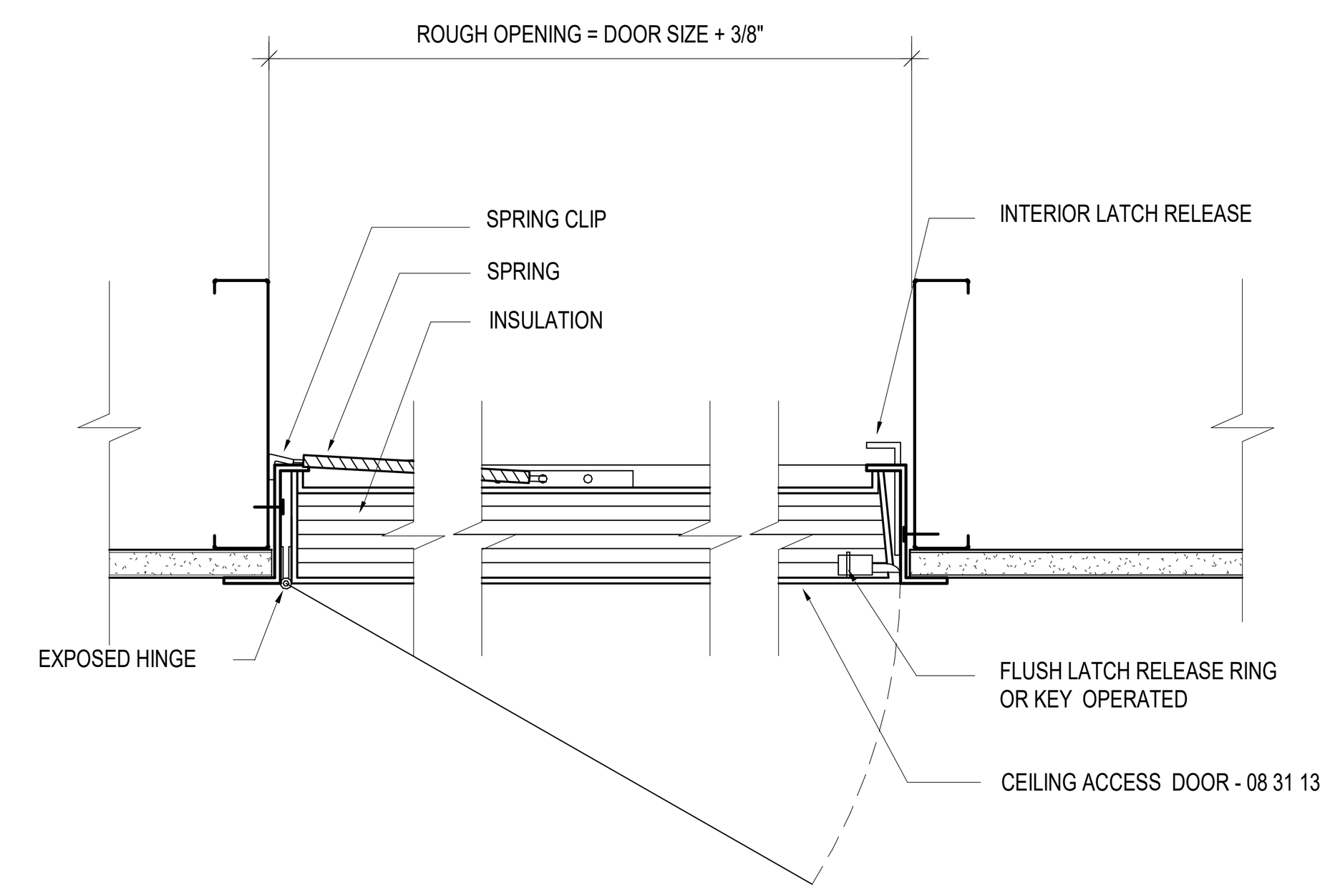
WINDOW REMARKS:

A = 1/4" LAMINATED, CLEAR GLASS
E = EXISTING GLAZING TO REMIAN
F = FIRE RATED GLAZING PER OPENING PROTECTION LABEL HOUR RATING IN DOOR SCHEDULE
L = LEAD LINED (MEET SHIELDING REQUIREMENTS ON AE141
T = 1/4" TEMPERED, CLEAR GLASS
S = SPANDREL (COORDINATE TO MATCH EXISTING HOSPITAL GLASS COLOR AND CERAMIC FRIT COLOR, V.I.F.)



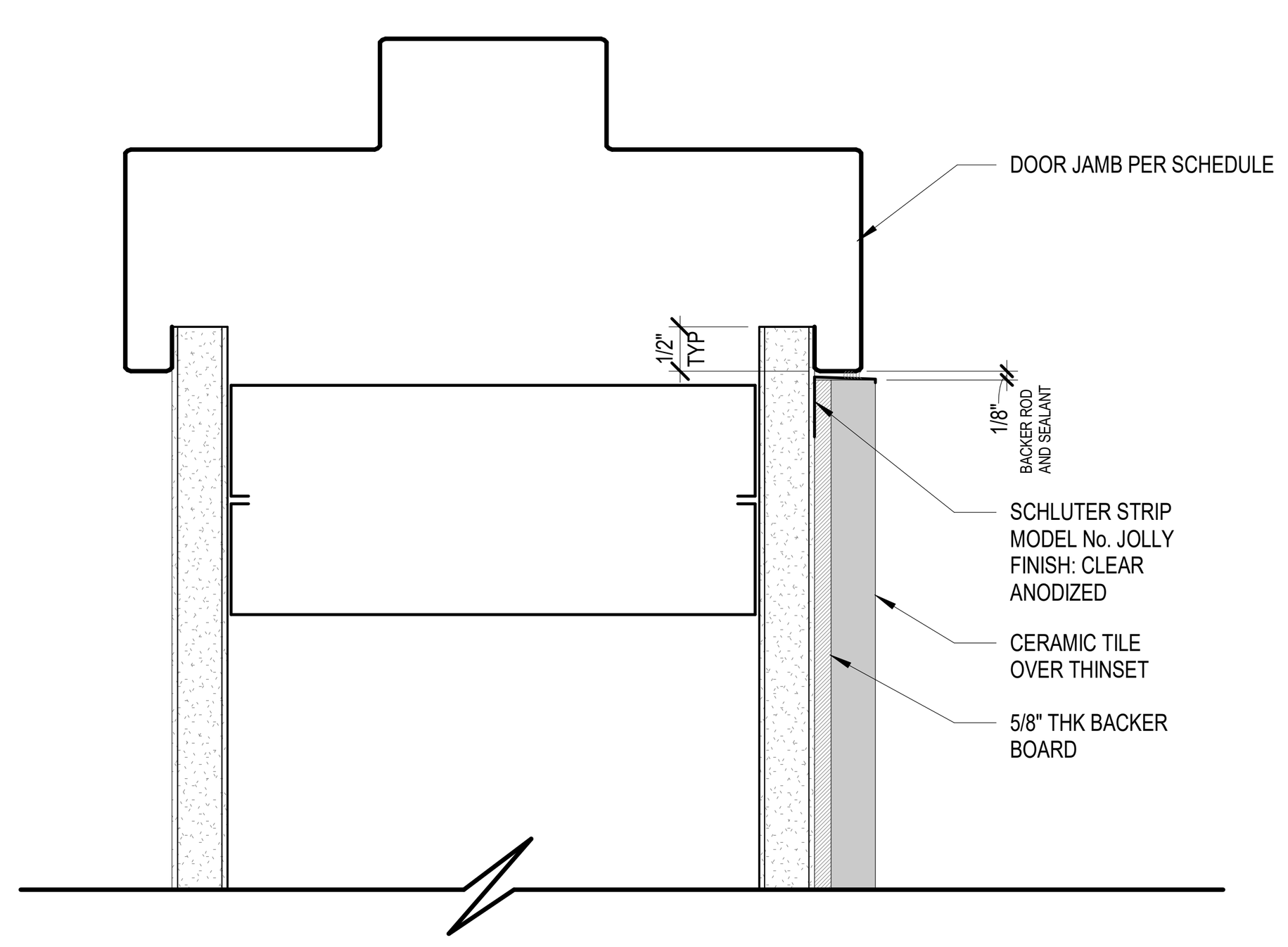
WINDOW FRAME TYPES

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



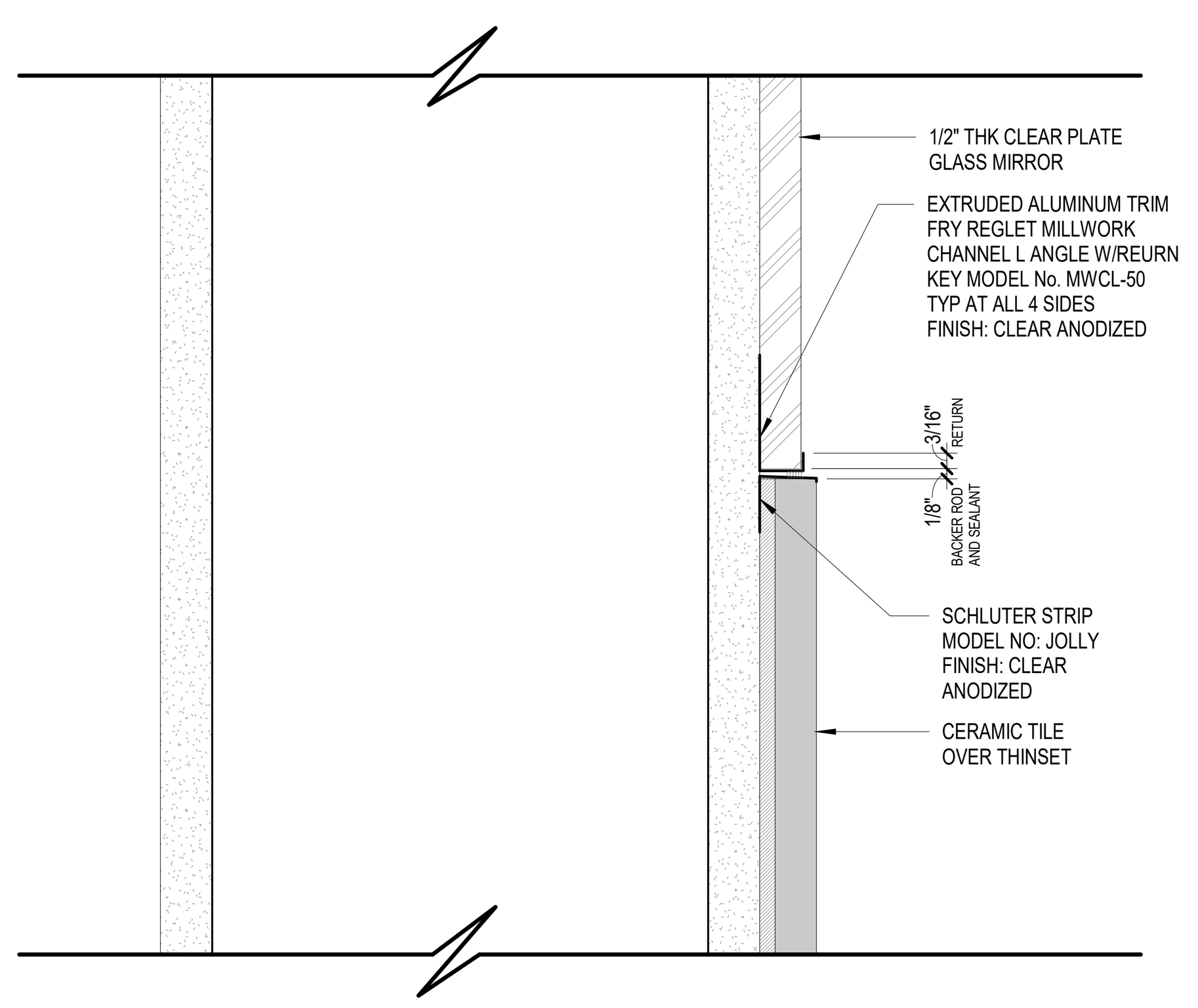
D1 **CL- ACCESS DOOR**

SCALE: 3" = 1'-0"



B1 **DETAIL AT TILE EDGE AT DOOR JAMB AND HEAD**

SCALE: 6" = 1'-0"

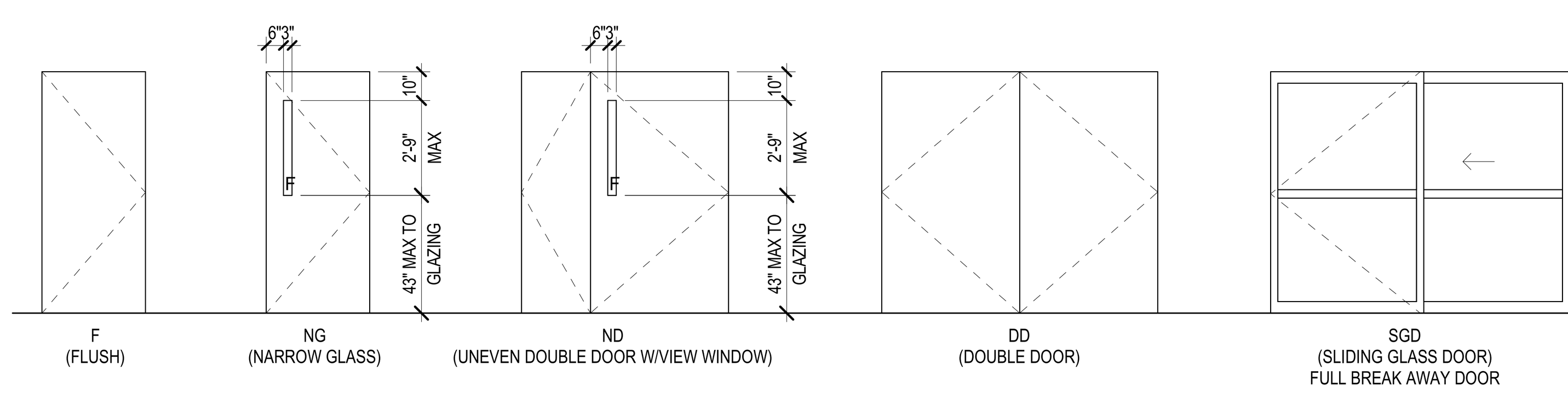


A1 **DETAIL AT MIRROR AND TILE EDGE**

SCALE: 6" = 1'-0"

DOOR SCHEDULE

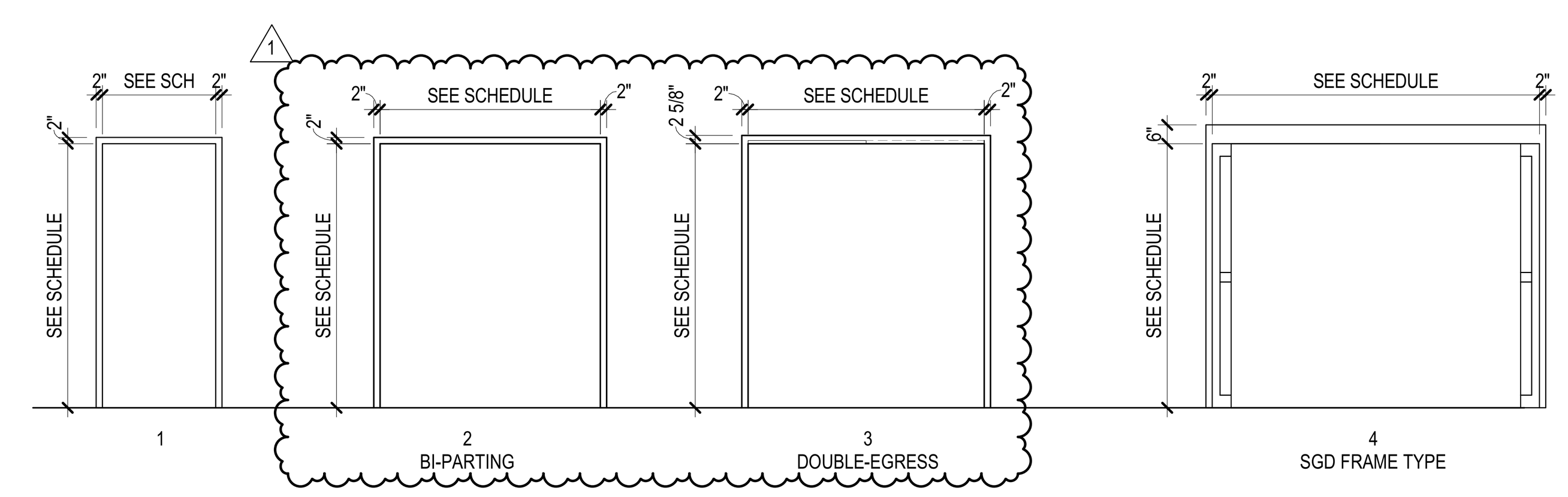
DOOR NO.	DOOR TYPE	Width	DOOR HEIGHT	HDWE SET	DOOR TYPE	DOOR MAT'L	DOOR FIN.	FRAME TYPE	FRAME MAT'L	FRAME FIN.	FRAME DET NOS	FRAME DET SHT	LABEL HOUR	REMARKS
1034		3'-6"	7'-0"	119	F	WD	P-1	1	HM	P-2	B1	AE551	45	SMOKE DOOR
1035		3'-6"	7'-0"	119	F	WD	P-1	1	HM	P-2	B1	AE551	45	
1037		3'-6"	7'-0"	120	F	WD	P-1	1	HM	P-2	B1	AE551	45	
1038		3'-0"	7'-0"	119	F	WD	P-1	1	HM	P-2	B1	AE551	20 MIN.	
1039		3'-0"	7'-0"	108	F	WD	P-1	1	HM	P-2	B1	AE551	20 MIN.	NOTE 1, 5
1040A	UN	7'-0"	7'-0"	124	F	WD	P-1	3	HM	P-2	B1	AE551	20 MIN.	NOTE 4, PANIC HARDWARE; EACH DOOR LEAF TO BE 20 MIN. FIRE RATED ; UNEVEN PAIR DOOR, ONE LEAF 44" CLR WIDTH; PANIC HDWR; HOLD OPENS; OPPOSIT SWING
1040B	UN	7'-0"	7'-0"	124	F	WD	P-1	3	HM	P-2	B1	AE551	20 MIN.	UNEVEN PAIR DOORS, ONE LEAF 44" MIN CLR WIDTH; PANIC HDWR; HOLD OPENS; OPPOSIT SWING
1040C		3'-6"	7'-0"	112	F	WD	P-1	1	HM	P-2	B1	AE551	45	
1041A		3'-0"	7'-0"	118	F	WD	P-1	1	HM	P-2	B1	AE551	45	
1041B		3'-0"	7'-0"	108	F	WD	P-1	1	HM	P-2	B1	AE551	--	NOTE 1, 5
1041C		2'-2"	7'-0"	122	F	WD	P-1	1	HM	P-2	B1	AE551	--	
1046	UN	8'-0"	7'-0"	101	F/NG	HM	P-1	2	HM	P-2	B1	AE551	--	NOTE 1, 2, 3, 5 PANIC HARDWARE, ONE LEAF 44" MIN CLR WIDTH
1047	UN	6'-0"	7'-0"	104	F/F	WD	P-1	2	HM	P-2	B2	AE551	20 MIN.	NOTE 2, 3, 5, LEAD-LINED
1047A		3'-6"	7'-0"	116	F	WD	P-1	1	HM	P-2	B2	AE551	45 MIN.	LEAD-LINED
1047A.1		3'-6"	7'-0"	117	F	WD	P-1	1	HM	P-2	B1	AE551	20 MIN.	
1047B		3'-6"	7'-0"	116	F	WD	P-1	1	HM	P-2	B2	AE551	45 MIN.	LEAD-LINED
1047B.1		3'-0"	7'-0"	116.1	F	WD	P-1	1	HM	P-2	B1	AE551	--	
1049	UN	6'-0"	7'-0"	104	F/F	WD	P-1	2	HM	P-2	B2	AE551	20 MIN.	NOTE 2, 3, 5
1049A		3'-6"	7'-0"	116	F	WD	P-1	1	HM	P-2	B2	AE551	45 MIN.	LEAD-LINED
1049A.1		3'-6"	7'-0"	117	F	WD	P-1	1	HM	P-2	B1	AE551	20 MIN.	
1049B		3'-6"	7'-0"	116	F	WD	P-1	1	HM	P-2	B2	AE551	45 MIN.	LEAD-LINED
1051	UN	7'-0"	7'-0"	105	F/F	WD	P-1	2	HM	P-2	B1	AE551	20 MIN.	NOTE 1, 2, 3, 5 LEAD-LINED
1051A		3'-0"	7'-0"	114	F	WD	P-1	1	HM	P-2	B1	AE551	--	
1051B		3'-0"	7'-0"	115	F	WD	P-1	1	HM	P-2	B1	AE551	--	
1051C		3'-0"	7'-0"	121	F	WD	P-1	1	HM	P-2	B1	AE551	20 MIN.	
1053	PR	7'-0"	7'-0"	103	F	HM	P-1	2	HM	P-2	B1	AE551	45 MIN.	NOTE 2, 3, 5; EACH DOOR LEAF TO BE 45 MIN FIRE RATED
1054		3'-0"	7'-0"	114	F	WD	P-1	1	HM	P-2	B1	AE551	--	
1055		3'-0"	7'-0"	114	F	WD	P-1	1	HM	P-2	B1	AE551	--	
1057		3'-0"	7'-0"	113	F	WD	P-1	1	HM	P-2	B1	AE551	--	
1059A	PR*	6'-2"	7'-0"	107	F/NG	WD	P-1	2	HM	P-2	B1	AE551	--	NOTE 1, 4, 5 PANIC HARDWARE
1059B		3'-8"	7'-0"	126	NG	WD	P-1	1	HM	P-2	B1	AE551	--	NOTE 1, 4
1059C		3'-6"	7'-0"	125	F	HM	P-1	1	HM	P-2	B1	AE551	45	
1060		9'-0"	7'-6"	106	SGD	AL	ANOD	4	AL	ANOD	A1, A3	AE551	--	SLIDING DOOR TO BE EQUIPPED WITH AN AUTO-CLOSER AND POSITIVE LATCH, SLIDER IN OPEN POSITION SHALL ALLOW 44" MIN. CLR
1060A		3'-0"	7'-0"	123	F	WD	P-1	1	HM	P-2	B1	AE551	45	NOTE 1, 5
1060B		3'-0"	7'-0"	108	F	WD	P-1	1	HM	P-2	B1	AE551	--	NOTE 1
1061		3'-0"	7'-0"	115	F	WD	P-1	1	HM	P-2	B1	AE551	--	
1062		3'-0"	7'-0"	108	F	WD	P-1	1	HM	P-2	B1	AE551	45	NOTE 1, 5
1071		3'-0"	7'-0"	115	F	WD	P-1	1	HM	P-2	B1	AE551	--	
1071C	UN	7'-0"	7'-0"	102	F/NG	WD	P-1	2	HM	P-2	B1	AE551	45 MIN.	NOTE 1, 2, 3, 5
1072A	PR	8'-0"	7'-0"	101.1	NG	HM	P-1	3	HM	P-2	B1	AE551	20 MIN.	NOTE 1, 2, 3, 5 PANIC HARDWARE; EACH DOOR LEAF TO BE 20 MIN FIRE RATED
1072B	PR	8'-0"	7'-0"	124	NG	HM	P-1	3	HM	P-2	B1	AE551	20 MIN.	NOTE 4
1074		3'-0"	7'-0"	111	F	WD	P-1	1	HM	P-2	B1	AE551	90 MIN.	
1075		3'-0"	7'-0"	110	F	WD	P-1	1	HM	P-2	B1	AE551	90 MIN.	NOTE 1, 5, 6
1076		3'-0"	7'-0"	109	F	WD	P-1	1	HM	P-2	B1	AE551	20 MIN.	NOTE 1, 5
1077		3'-0"	7'-0"	126	F	WD	P-1	1	HM	P-2	B1	AE551	--	
1079		3'-0"	7'-0"		F	WD	P-1	1	HM	P-2	B1	AE551	--	



NOTE:
FOR VISION PANELS IN DOORS ACROSS FIRE BARRIERS AND FIRE PARTITIONS, THE FIRE-RESISTANCE-RATED GLAZING TESTED TO ASTM E119 IN ACCORDANCE WITH SECTION CCBC 716.1.2.3 SHALL BE PERMITTED, IN THE MAXIMUM SIZE TESTED

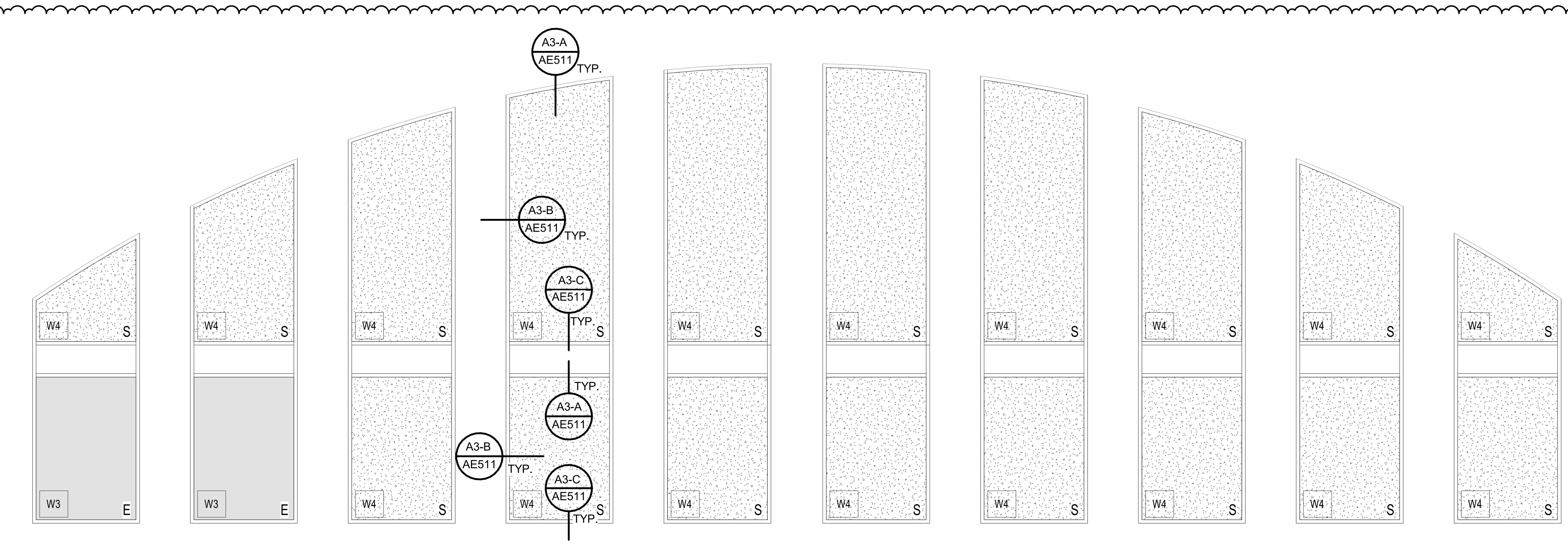
DOOR TYPES

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



DOOR FRAME TYPES

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



NOTE: SEE WINDOW SCHEDULE FOR GLAZING TYPE

A4 **EXTERIOR WINDOW TYPES ELEVATION**

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

DOOR HARDWARE REMARKS

AO AUTOMATIC OPENER
CR CARD READER
DA DELAYED ALARM
EH ELECTRIC HARDWARE
FAR FIRE ALARM RELAY
HO HOLD OPEN
IB INTEGRAL BLINDS
LD ER LOCKDOWN
PR EQUAL PAIR DOOR
UN UNEQUAL PAIR DOOR

DOOR HARDWARE NOTES

NOTE 1 - HARD-WIRED CARD READER: HARD-WIRED CARD READER LOCATIONS REQUIRE ELECTRICAL AND/OR SECURITY TO COORDINATE, FURNISH & INSTALL COMPONENTS INCLUDING BUT NOT LIMITED TO WIRE, CONDUIT, AND CONNECTIVITY FROM CEILING THROUGH FRAME TO ALL ELECTRIFIED HARDWARE SPECIFIED IN SECTIONS 08 71 00, 08 71 13 AND/OR 08 17 13.

NOTE 2 - AUTOMATIC OPERATOR LOCATIONS: HARD-WIRED, ELECTRICAL 120V LOCATIONS REQUIRED. ELECTRICAL AND/OR SECURITY TO COORDINATE, FURNISH & INSTALL COMPONENTS INCLUDING BUT NOT LIMITED TO WIRE, CONDUIT, AND CONNECTIVITY FROM CEILING THROUGH FRAME TO COMPLETE ELECTRIFIED HARDWARE SPECIFIED (INCLUDING FOR SWING DOORS 6'X6" BOLLARDS WITH FULL HEIGHT PUSH-PLATE/ACTUATORS AT EACH LEAF INTERIOR AND EXTERIOR) AND AS SEEN IN SECTIONS 08 71 00, 08 71 13, 08 17 13 AND/OR IN DIVISION 08 SLIDING OR REVOLVING DOOR SPECIFICATIONS.

NOTE 3 - AUTOMATIC OPERATOR SURFACE OVERHEAD LOCATIONS REQUIRING 6" OVERHEAD CLEARANCE. SEE SPECIFIED IN SECTIONS 08 17 13.

NOTE 4 (HO) - WALL ELECTRO-MECHANICAL MAG HOLD-OPENS. FURNISH AND INSTALL FIRE ALARM DROP. IN THE EVENT OF FLS(FIRE LIKE SAFETY) OR EMERGENCY OR LOSS OF BUILDING POWER. WALL MOUNTED ELECTRO-MECHANICAL HOLD-OPEN DEVICES TO HAVE POWER DROPPED (DOOR TO SELF-CLOSE AND SELF-LATCH DOORS IN AN EMERGENCY). ELECTRICAL TO FURNISH & INSTALL COMPONENTS INCLUDING BUT NOT LIMITED TO WIRE, CONDUIT, AND CONNECTIVITY.

NOTE 5 - DOORS WHERE ELECTRICAL SYSTEMS THAT MONITOR OR RECORD EGRESS ACTIVITY ARE INCORPORATED, THE LOCKING SYSTEM SHALL COMPLY WITH SECTION 1010.2.11, 1010.2.12, 1010.2.13, 1010.2.14 OR 1010.2.15 OR SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

NOTE 6 - PROVIDE SIGNAGE FOR ELECTRICAL ROOM LABELED AS "ELECTRICAL ROOM" PER CODE

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LICENSED ARCHITECT STEFAN A. REICH C-27292 REN. 7/31/25 STATE OF CALIFORNIA

CONSULTANT

CONSULTANT STAMP

KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	04/30/2025

FILE LOG

ACTIVITY	BY
Design	Designer
Draw	Author
Check	Checker
Issue Date	2023/9/29

AGENCY APPLICATION NUMBER
S231455-33-00

AGENCY APPROVAL STAMP

BUILDING TITLE
RIVERSIDE UNIVERSITY HEALTH SYSTEM MEDICAL CENTER

PROJECT TITLE
NEW CARDIAC CATHETERIZATION LAB SUITE & HYPERBARIC FACILITY EXPANSION

RUHS-MC PROJ. NO. FM08430011869
CONSULTANT PROJ. NO. 047-10071-002

SHEET NAME
DOOR SCHEDULE, DOOR TYPES, AND FRAMES

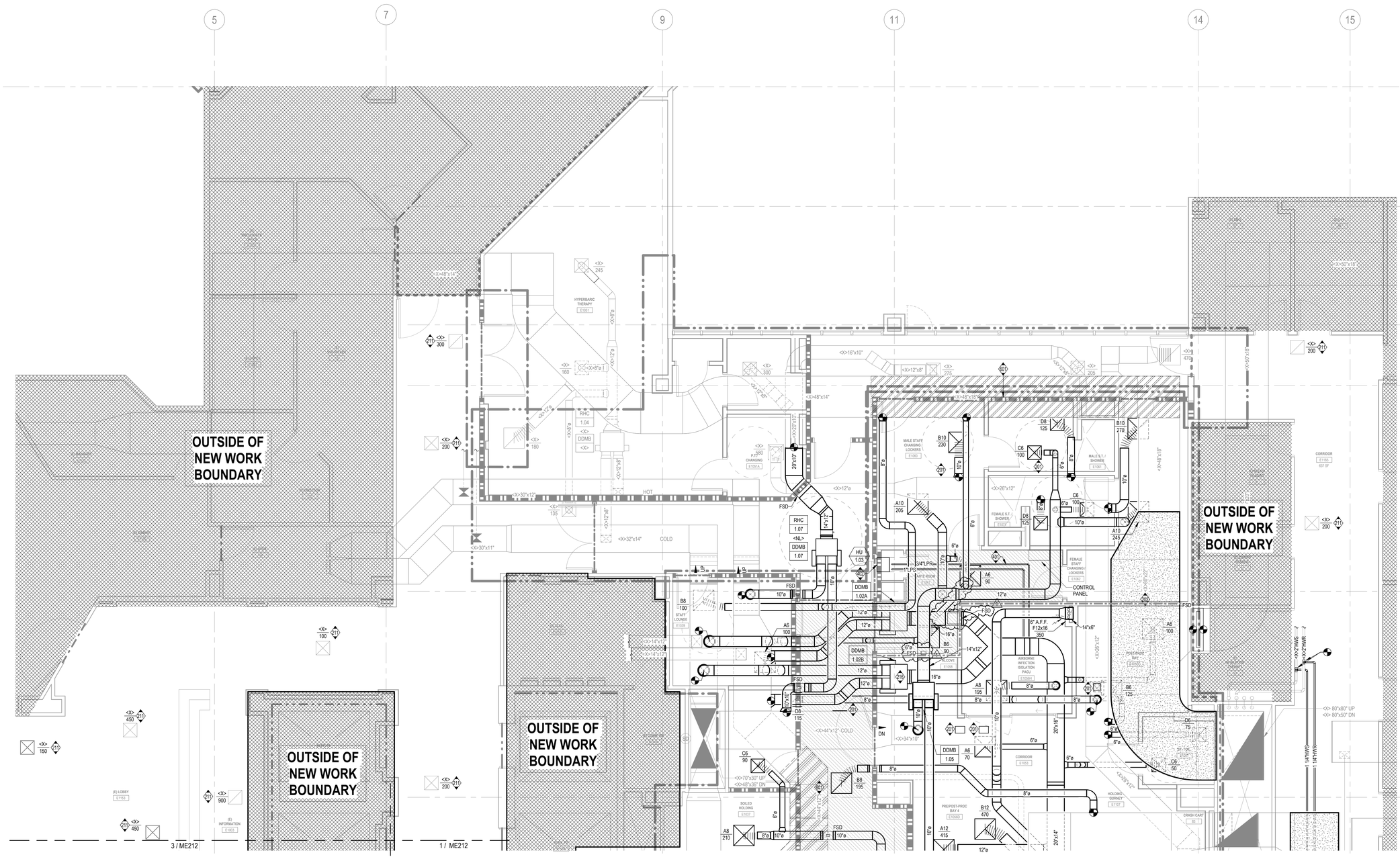
SHEET NUMBER
AE601

GENERAL NOTES:

1 REBALANCE RETURN AIR FLOW EACH TIME DEMOLITION AND BYPASS DUCTS ARE TOUCHED (MULTIPLE AIR BALANCE) TO ASSURE RETURN AIR REGISTERS REMAIN THE SAME AS PRE-TEST VALUES.

KEY NOTES

201 CAP & SEAL DUCT OPENING.
202 PROVIDE SEISMIC BRACING FOR EXISTING DUCTS LARGER THAN 6 SF CROSS SECTION.
211 BALANCE EXISTING REGISTERS AS REQUIRED PER WORK SEQUENCE TO MAINTAIN COMPLIANCE WITH HCAI CAN-102.6.
216 REFER TO ELECTRICAL DRAWINGS FOR TERMINAL LOCATIONS OF 120V POWER FOR CONTROLS (TYP.)
401 STEAM HOSE AND CONDENSATE LINES
402 REFER TO PLUMBING DRAWINGS FOR MAKE-UP WATER AND DRAIN CONNECTIONS FOR HUMIDIFIER.
601 REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL OF OFFSET IN RATED WALLS TO MAINTAIN EXISTING DUCT MAIN LOCATION. REGION SHOWN ON MECHANICAL FLOOR PLANS INDICATE EXTENT AND LOCATION OF DUCT REQUIRING WALL OFFSET.



1 LEVEL 1 - MECHANICAL PLAN ENLARGED REMODEL PHASE 1 - NORTH

1/4" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
DEAN SHELLENBERGER
No. M 22419
Exp. 12-31-25
MECHANICAL
STATE OF CALIFORNIA

KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	04/30/2025

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Draw	Author
Check	Checker
Issue Date	2023/6/12

AGENCY APPLICATION NUMBER

S231455-33-00

AGENCY APPROVAL STAMP

BUILDING TITLE

RIVERSIDE UNIVERSITY HEALTH SYSTEM MEDICAL CENTER

PROJECT TITLE

NEW CARDIAC CATHETERIZATION LAB SUITE & HYPERBARIC FACILITY EXPANSION

RUHS-MC PROJ. NO.	CONSULTANT PROJ. NO.
FM08430011869	047-10071-002

SHEET NAME

MECHANICAL ENLARGED PLAN REMODEL PHASE 1 - LEVEL 1 - NORTH

SHEET NUMBER

ME211

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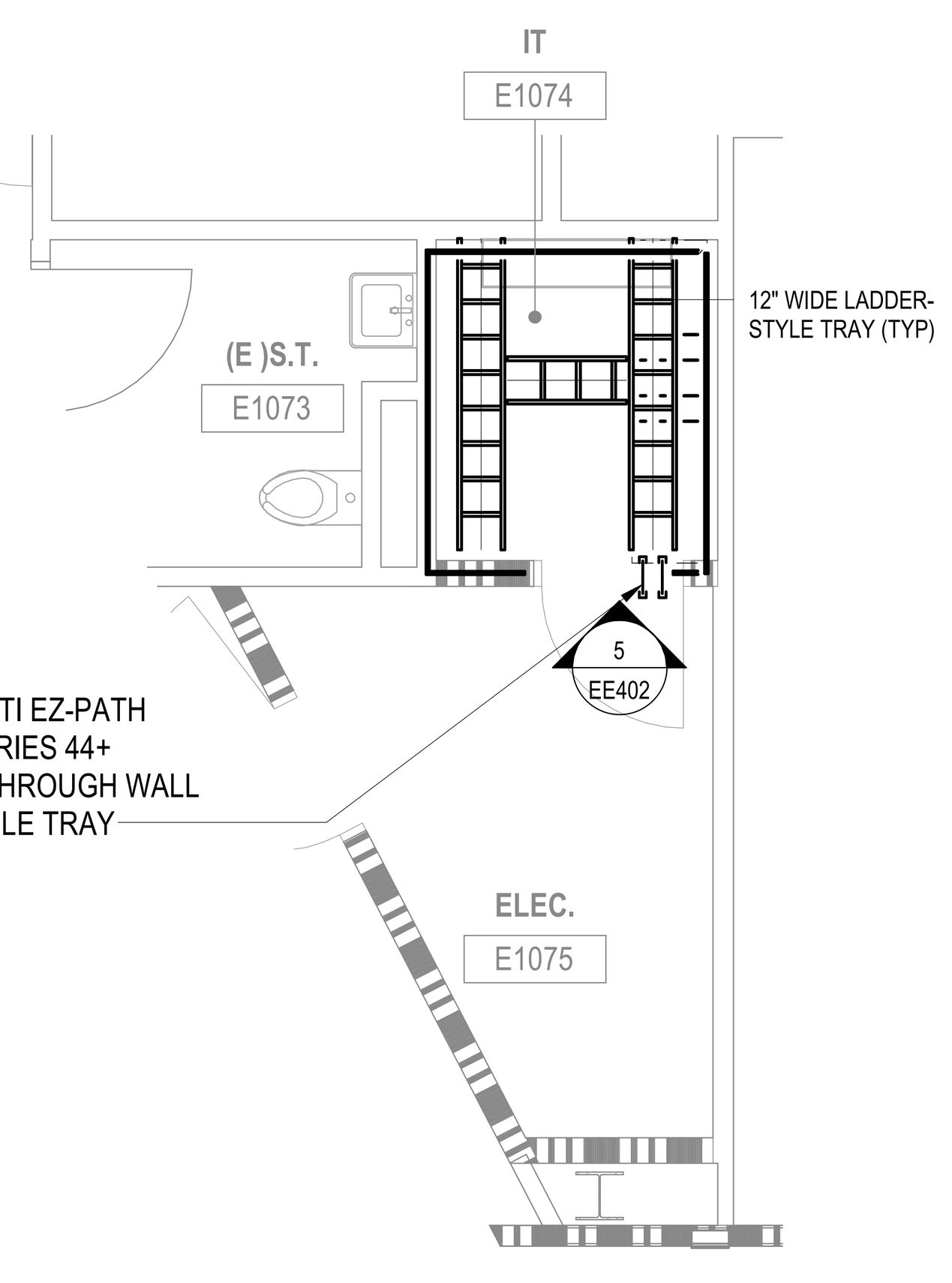
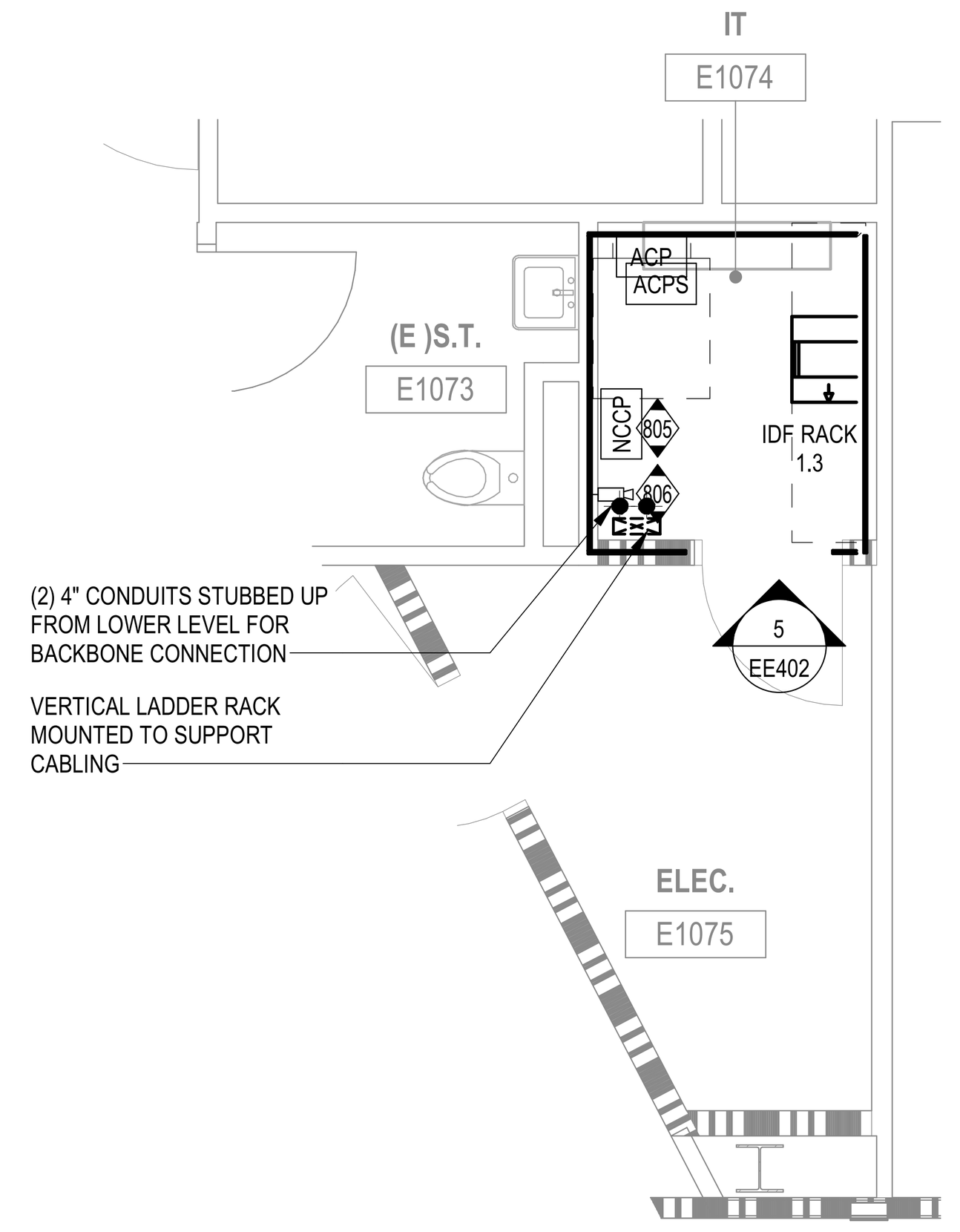
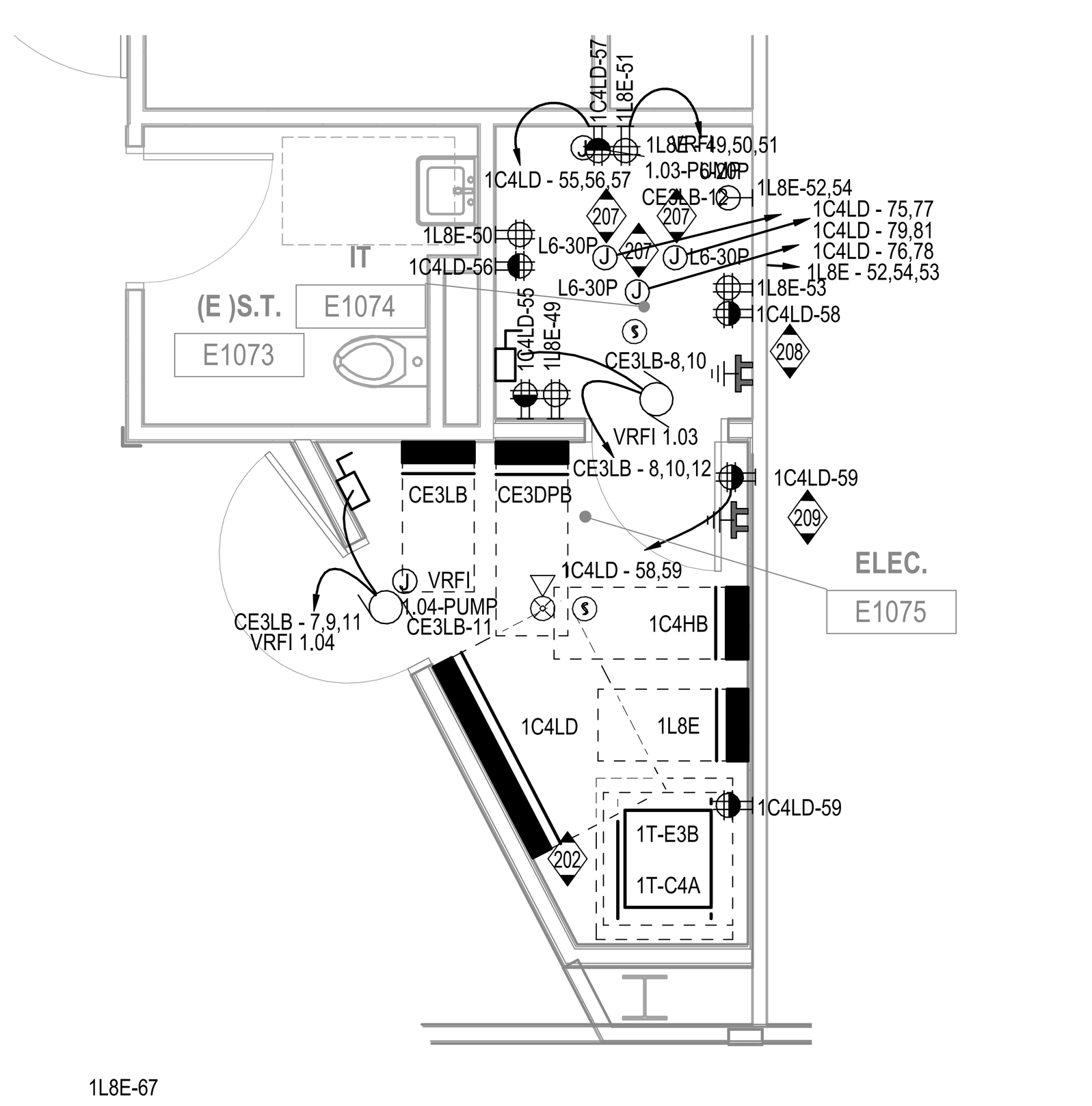


6 LEVEL 1 - TELECOMM ENLARGED PATHWAY PLAN - IT & ELEC CLOSETS
1/4" = 1'-0"



4 LEVEL 1 - TELECOMM ENLARGED PLAN - IT & ELEC CLOSETS
1/4" = 1'-0"



2 LEVEL 1 - ELECTRICAL ENLARGED POWER PLAN - IT CLOSET & ELEC CLOSET
1/4" = 1'-0"

GENERAL NOTES:

1 ALL NEW NURSE CALL CABLING SHALL BE ROUTED AND TERMINATED AT THE NEW NURSE CALL TERMINAL CABINET LOCATED IN ROOM E1047.
2 CONTRACTOR SHALL REINSTALL THE EXISTING SPEAKERS FROM THE DEMOLISHING PHASE, ADJUST AS NECESSARY TO AVOID CONFLICTS WITH ARCHITECTURE AND OTHER DEVICES AND EQUIPMENTS. CONNECT SPEAKERS TO EXISTING PROTECTED IN PLACE SPEAKER CABLING. IF EXISTING CABLING IS NOT AVAILABLE, OR IN POOR CONDITION, CONTRACTOR SHALL PULL NEW CABLE TO SPEAKER FROM EXISTING HEAD-END CABINET. CONTRACTOR TO PRICE NEW HOMERUNS IF CAPACITY IS NEEDED FOR NEW SPEAKERS.
3 REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET EE606 FOR ADDITIONAL INFORMATION.
4 DISCONNECTING MEANS FOR EACH SERVICE, FEEDER OR BRANCH CIRUCIT ORIGINATING ON A SWITCHBOARD OR PANELBOARD SHALL BE LEGIBLY AND DURABLY MARKED TO INDICATE ITS PURPOSE UNLESS SUCH PURPOSE IS CLEARLY EVIDENT. WHERE BUILDINGS OR STRUCTURES ARE SUPPLIED BY MORE THAN ONE POWER SOURCE, MARKINGS SHALL BE PROVIDED AT EACH SERVICE EQUIPMENT LOCATION AND AT ALL INTERCONNECTED ELECTRIC POWER PRODUCTION SOURCES IDENTIFYING ALL ELECTRIC POWER SOURCES AT THE PREMISES IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE PER 2022 CFC, SECTION 603.4.1.
5 REFER TO COPPER FEEDER SCHEDULE GENERAL NOTES ON SHEET EE606 TO ENSURE COMPLIANCE WITH CEC 300.17 REQUIREMENTS.

KEY NOTES

201 6 DUPLEX RECEPTACLES (4 CRITICAL, 2 NORMAL) INSTALLED WITHIN HEADWALL.
202 REFER TO STRUCTURAL DRAWING DETAILS A1, S504 AND A1, S507 FOR SEISMIC MOUNTING DETAILS FOR TRANSFORMERS AND PANELBOARDS.
207 PROVIDE 1 X 120V, 20A-1P AND 1 X 208V, 30A-1P CIRCUIT TERMINATED IN A SURFACE MOUNTED 4S BOX, ATTACHED TO THE LADDER RACK USING CPI POWER BOX BRACKET PART # TS1006073 (NO KNOWN EQUAL).
208 THE GROUNDING BUSBAR MUST BE CPI CHATSWORTH PRODUCTS PART #13622-020 (NO KNOWN EQUAL). THE BUSBAR MUST BE INSULATED FROM ITS SUPPORTING STRUCTURE BY AT LEAST TWO INCHES OF SEPARATION. BOND THE BUSBAR TO THE BUILDING AC GROUNDING ELECTRODE SYSTEM. THE MINIMUM SIZE OF THE BONDING CONDUCTOR WILL BE #3 AWG AND BE SIZED TO CARRY THE MAXIMUM SHORT TIME RATING AMPS OF THE BUILDING GROUNDING ELECTRODE CONDUCTOR. A SUPPLEMENTAL BONDING CONNECTION IS REQUIRED TO BE
EXOTHERMICALLY WELDED TO THE STRUCTURAL STEEL OF THE BUILDING AND AC SUB PANEL FEEDING THE ELECTRICAL CIRCUITS IN THIS ROOM. RESISTANCE WILL BE NO MORE THAN 0.1 OHMS BETWEEN THE TMGB AND THE BUILDING MAIN GROUNDING SOURCE MEASURED FOLLOWING THE TWO-POINT BONDING TEST METHOD USING AN EARTH GROUND RESISTANCE TESTER. ALL GROUNDING CONDUCTORS MUST BE RUN IN EMT CONDUIT.
209 INTERCONNECT TELECOMMUNICATION GROUND BAR AND NEW ELECTRICAL ROOM GROUND BAR TO BUILDING GROUNDING SYSTEM IN NEAREST ELECTRICAL ROOM. WIRE SHALL BE 3/0 AND BE RUN IN EMT CONDUIT.
213 VERIFY EXACT LOCATION WITH PLUMBING DRAWINGS PRIOR TO INSTALLATION.
214 POWER AND DATA FOR NURSING STATION WILL BE SERVED FROM BELOW THROUGH SINGLE FLOOR PENETRATION. POWER/DATA CONDUIT WILL BE DISTRIBUTED WITHIN PONY WALL - COORDINATE WITH ARCHITECTURAL DETAILS PRIOR TO ROUGH-IN.
217 PROVIDE 120V POWER FOR MECHANICAL CONTROLS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
218 PROVIDE 120V POWER FOR FIRE SMOKE DAMPERS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS PRIOR TO ROUGH IN.
226 WALL SHALL BE 1-HOUR-FIRE RATED, ALL PENETRATIONS, FIXTURES AND INSTALLATIONS WITHIN OR THROUGH WALL SHALL BE FIRE RATED AND COMPLIANT.
804 DATA OUTLET DEDICATED FOR P-TUBE SYSTEM.
805 NEW RAULAND RESPONDER 5 NURSE TERMINAL CABINET SHALL BE CONNECTED TO THE EXISTING RAULAND NURSE TERMINAL CABINET LOCATED IN ROOM #F1079.
806 PROVIDE MERAKI CAMERA "MODEL:MV22X" AND TERMINATE AT THE NEW RACK LOCATED IN THE SAME ROOM.
807 ROUTE (1) 1-1/2" CONDUIT FROM MILLWORK TO NEAREST WALL, STUBBING ABOVE ACCESSIBLE PATHWAY. REFER TO DETAIL 9/EE502

CABINET ELEVATIONS	
RACK UNITS	19" EQUIPMENT RACK IDF RACK 1.3 [ER-WA] (VERTICAL PDU [PDF/B] each side)
1	FIBER ENCLOSURE (NEW)
2	WIRE MANAGEMENT [WM1]
3	48-PORT PoE SWITCH (NEW)
4	WIRE MANAGEMENT [WM1]
5	48 PORT PATCH PANEL (NEW)
6	
7	48-PORT PoE SWITCH (NEW)
8	WIRE MANAGEMENT [WM1]
9	48 PORT PATCH PANEL (NEW)
10	
11	48-PORT PoE SWITCH (NEW)
12	WIRE MANAGEMENT [WM1]
13	48 PORT PATCH PANEL (NEW)
14	
15	48-PORT PoE SWITCH (NEW)
16	WIRE MANAGEMENT [WM1]
17	48 PORT PATCH PANEL (NEW)
18	
19	SPACE RESERVED FOR OWNER EQUIPMENT
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42	UPS [UPS/A]
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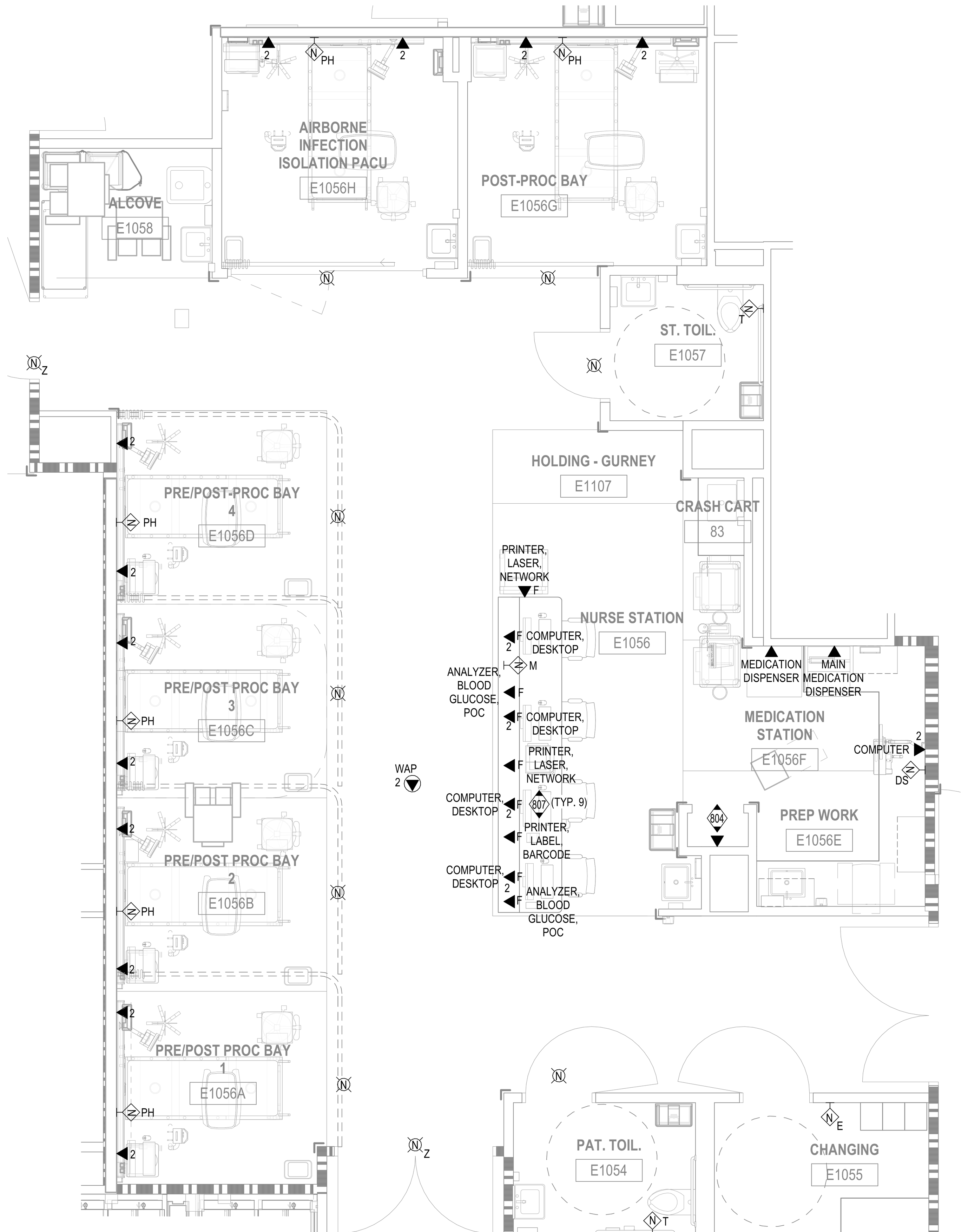
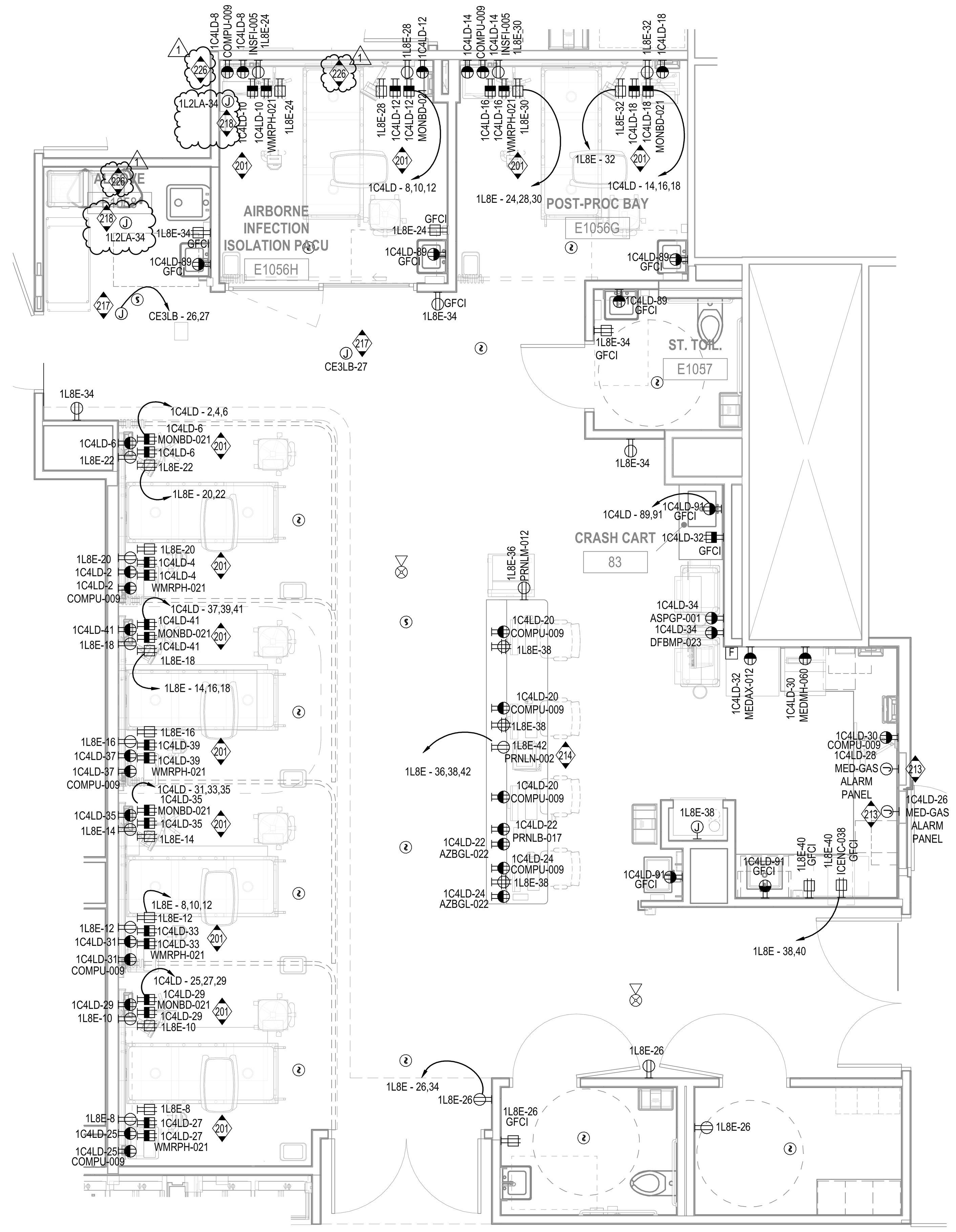
5 NEW RACK ELEVATION - IT CLOSET # E1074
NTS



3 LEVEL 1 - TELECOMM ENLARGED PLAN - NURSE STATION
1/4" = 1'-0"



1 LEVEL 1 - ELECTRICAL ENLARGED POWER PLAN - NURSE STATION
1/4" = 1'-0"

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KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	04/30/2025

FILE LOG

ACTIVITY	BY
Design	RY
Draw	Author
Check	PH
Issue Date	2023/6/12

AGENCY APPLICATION NUMBER
S231455-33-00

AGENCY APPROVAL STAMP

BUILDING TITLE
RIVERSIDE UNIVERSITY HEALTH SYSTEM MEDICAL CENTER

PROJECT TITLE
NEW CARDIAC CATHETERIZATION LAB SUITE & HYPERBARIC FACILITY EXPANSION

RUHS-MC PROJ. NO.	CONSULTANT PROJ. NO.
FM08430011869	047-10071-002

SHEET NAME
ELECTRICAL TELECOMM ENLARGED PLANS

SHEET NUMBER
EE202

PANEL	AVAILABLE FAULT CURRENT (A)	VD%
1C4DBA	18371.06	1.18
CE3LB	4242.42	0.46
1C4DPA	17462.47	1.24
CE3DPB	6601.13	0.83
1C4HB	12137.74	1.54
1C4LD	5991.54	1.83
1DP8A	11972.13	0.57
1H7B	10159.16	1.84
1L2HA	6698.79	1.39
1L2LA	3950.64	0.74
1JE	6586.39	1.17
ATS-C4-1	22750.19	0.9
ATS-L3-1	21912.42	0.89
CB-1	12201.16	1.49
CB-2	8990.08	1.73
DSB-7	23300	0.87
DSB-8	25200	0.22
LDP7A	18200	0.87
LL3DPA	20667.49	0.9
MDP-1	12323.48	1.48
MDP-2	9067.5	1.72

LOAD SUMMARY - PANEL "1DP8A"

EXISTING LOAD			
3 DAY LOAD RECORDING X 1.25	=	12.00	kVA
REMOVED LOAD	=	0.00	kVA
ADDED LOAD	=	27.85	kVA
TOTAL LOAD	=	**39.85**	**kVA**
AMPS @ 208Y/120V, 3Ø, 4W	=	111	A
MAIN BUS RATING	=	400	A

LOAD SUMMARY - PANEL "1H7B"

EXISTING LOAD			
3 DAY LOAD RECORDING X 1.25	=	20.50	kVA
REMOVED LOAD	=	0.00	kVA
ADDED LOAD	=	6.83	kVA
TOTAL LOAD	=	**27.33**	**kVA**
AMPS @ 480Y/277V, 3Ø, 4W	=	33	A
MAIN BUS RATING	=	225	A

LOAD SUMMARY - PANEL "DSB-2"

EXISTING LOAD			
30 DAY LOAD RECORDING X 1.25	=	775.25	kVA
REMOVED LOAD	=	0.00	kVA
ADDED LOAD	=	84.45	kVA
TOTAL LOAD	=	**859.70**	**kVA**
AMPS @ 480Y/277V, 3Ø, 4W	=	1034	A
MAIN BUS RATING	=	2000	A

LOAD SUMMARY - PANEL "1L2HA"

EXISTING LOAD			
3 DAY LOAD RECORDING X 1.25	=	10.50	kVA
REMOVED LOAD	=	0.00	kVA
ADDED LOAD	=	4.33	kVA
TOTAL LOAD	=	**14.83**	**kVA**
AMPS @ 480Y/277V, 3Ø, 4W	=	18	A
MAIN BUS RATING	=	100	A

LOAD SUMMARY - PANEL "1L2LA"

EXISTING LOAD			
3 DAY LOAD RECORDING X 1.25	=	4.38	kVA
REMOVED LOAD	=	0.00	kVA
ADDED LOAD	=	3.13	kVA
TOTAL LOAD	=	**7.51**	**kVA**
AMPS @ 208Y/120V,3P,4W	=	21	A
MAIN BUS RATING	=	50	A

LOAD SUMMARY - PANEL "CE3DBA"

EXISTING LOAD			
30 DAY LOAD RECORDING X 1.25	=	224.13	kVA
REMOVED LOAD	=	0.00	kVA
ADDED LOAD (CE3DPB)	=	84.45	kVA
TOTAL LOAD	=	**308.58**	**kVA**
AMPS @ 480Y/277V, 3Ø, 4W	=	371	A
MAIN BUS RATING	=	800	A

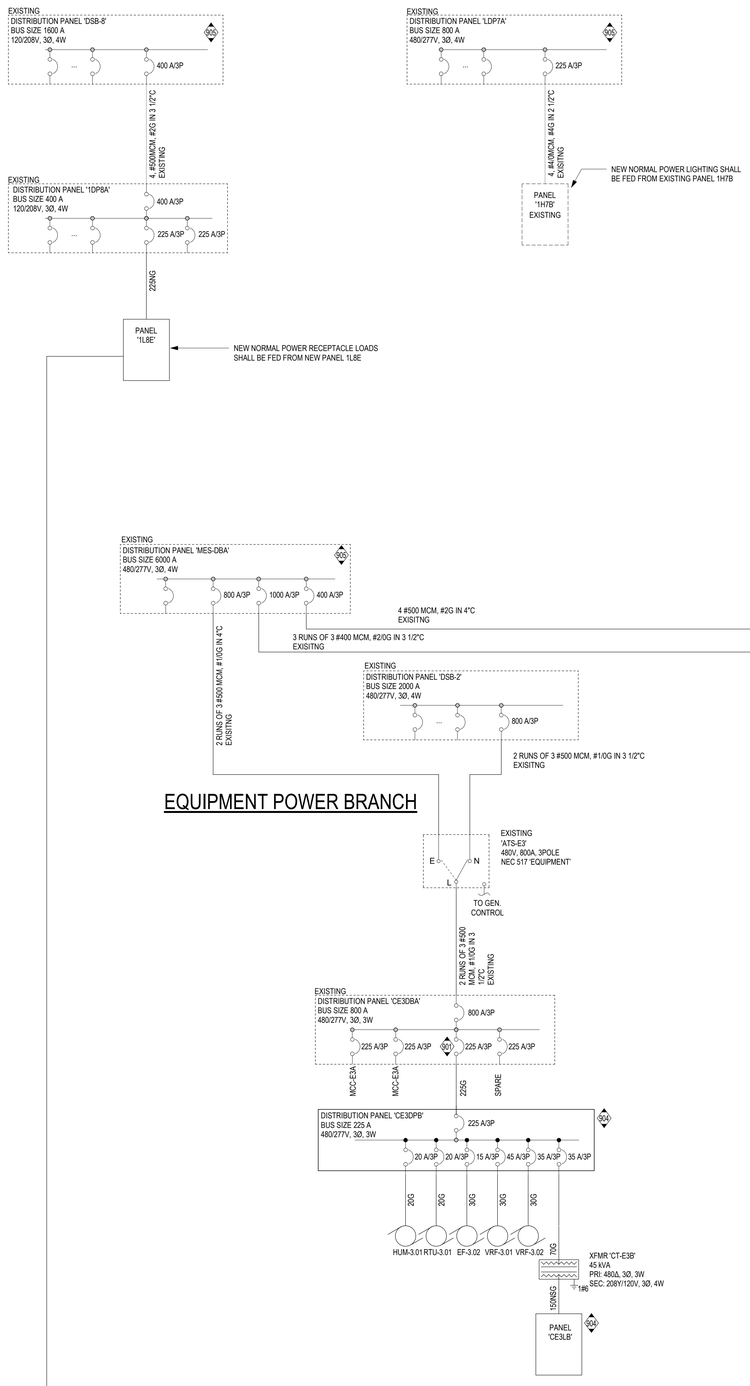
LOAD SUMMARY - PANEL "1C4DBA"

EXISTING LOAD			
3 DAY LOAD RECORDING X 1.25	=	132.38	kVA
REMOVED LOAD	=	0.00	kVA
ADDED LOAD (1C4DPA ADDED LOAD)	=	245.40	kVA
TOTAL LOAD	=	**377.78**	**kVA**
AMPS @ 480Y/277V, 3Ø, 4W	=	454	A
MAIN BUS RATING	=	800	A

LOAD SUMMARY - PANEL "1C4DPA"

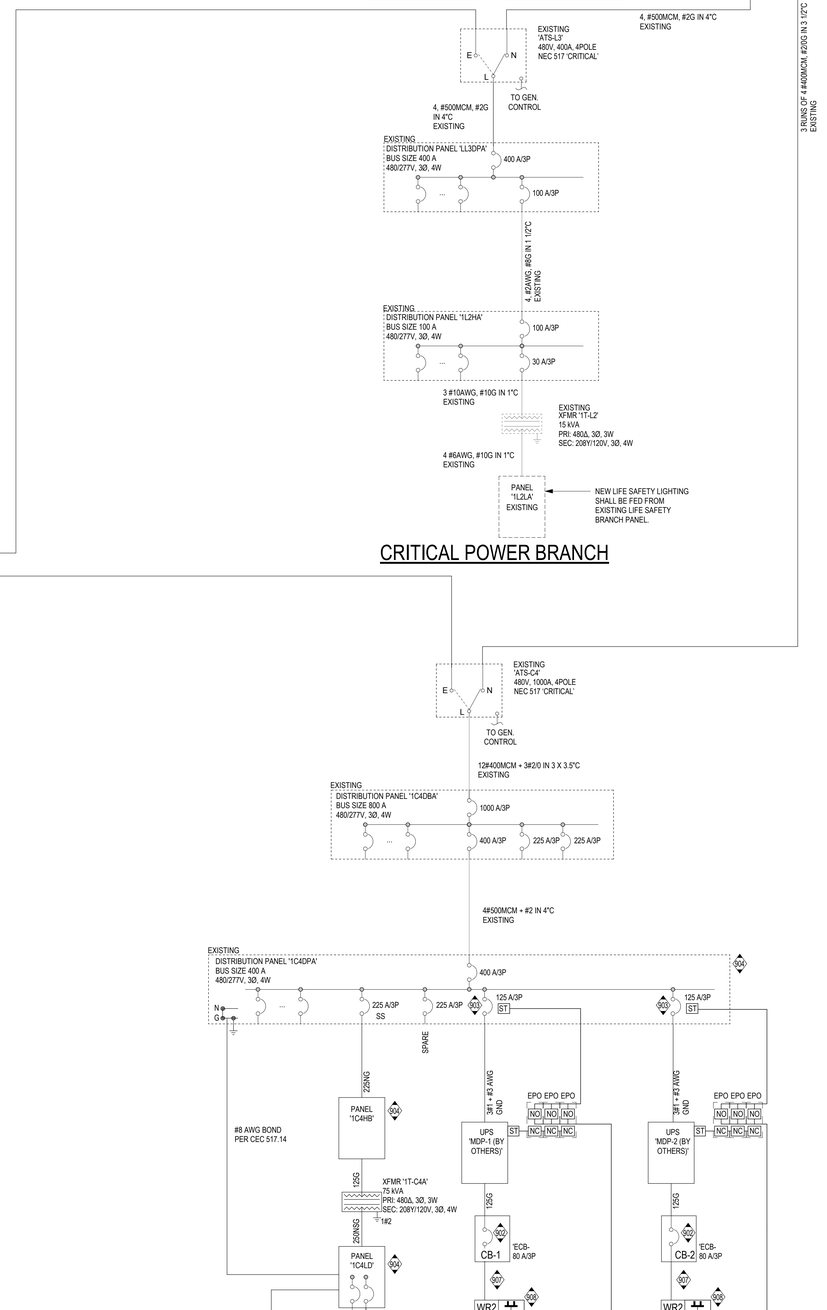
EXISTING LOAD			
3 DAY LOAD RECORDING X 1.25	=	23.88	kVA
REMOVED LOAD	=	0.00	kVA
ADDED LOAD (1C4HB)	=	45.35	kVA
ADDED LOAD (UPS MDP-1)	=	100.00	kVA
ADDED LOAD (UPS MDP-2)	=	100.00	kVA
TOTAL LOAD	=	**245.35**	**kVA**
AMPS @ 480Y/277V, 3Ø, 4W	=	295	A
MAIN BUS RATING	=	400	A

NORMAL POWER BRANCH

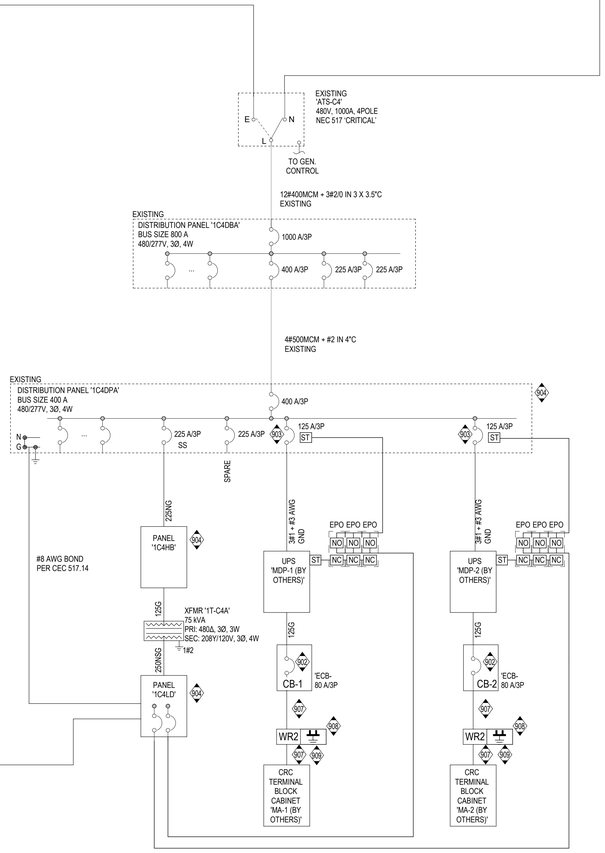


EQUIPMENT POWER BRANCH

LIFE SAFETY POWER BRANCH



CRITICAL POWER BRANCH



GENERAL NOTES:

1. ALL NEW ELECTRICAL EQUIPMENT SHALL BE SIEMENS/WESTINGHOUSE TO MATCH EXISTING.
2. THE SCOPE SHOWN ON THESE DRAWINGS REFLECTS THE BASE BUILDING RENOVATION SCOPE REQUIRED TO SUPPORT THE INSTALLATION OF THE NEW PHILIPS AZURION SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR THE WORK SHOWN HERE AS WELL AS THE WORK REQUIRED TO FACILITATE INSTALLATION OF THE PHILIPS EQUIPMENT IDENTIFIED IN THE PHILIPS DRAWINGS. REFER TO R1 SERIES ARCHITECTURAL DRAWINGS WHICH CONTAIN SITE SPECIFIC VENDOR DRAWINGS FOR DETAILS. CONTRACTOR MUST REVIEW THESE DOCUMENTS IN CONJUNCTION WITH THESE ELECTRICAL PLANS TO DETERMINE THE FULL SCOPE OF WORK. DETAILED SCOPE DELINEATION IS PROVIDED ON PHILIPS SHEET EL1/EL2.
3. POWER QUALITY REQUIREMENTS SHALL BE IN ACCORDANCE WITH PHILIPS REQUIREMENTS NOTED ON PHILIPS DRAWING ED1.
4. BRANCH CIRCUIT AND WIRE GUAGRE REQUIREMENTS SHALL BE IN ACCORDANCE WITH PHILIPS REQUIREMENTS NOTED ON PHILIPS DRAWING ED1.
5. ALL SWITCHGEAR AND PANELBOARDS SHALL BE PROVIDED WITH FIELD MAKRINGS FOR THE AVAILABLE FAULT CURRENT AT THE EQUIPMENT TERMINALS WITH THE DATE THAT THE FINAL CALCULATION WAS COMPLETED
6. THE EQUIPMENT GROUNDING TERMINAL BUSES OF THE NORMAL AND ESSENTIAL BRANCH-CIRCUIT PANELBOARDS SERVING THE SAME INDIVIDUAL PATIENT CARE VICINITY SHALL BE CONNECTED TOGETHER WITH AN INSULATED CONTINUOUS COPPER CONDUCTOR NOT SMALLER THAN 10 AWG. REFER TO SINGLE LINE DIAGRAM FOR CONNECTIONS BETWEEN PANELS.

KEY NOTES

- 901 UTILIZE EXISTING 225A-3P SPARE BREAKER WITHIN CE3DBA TO FEED NEW EQUIPMENT BRANCH DISTRIBUTION BOARD CE3DPB
- 902 PROVIDE AND 80/3 CIRCUIT BREAKER IN ACCORDANCE WITH VENDOR DRAWINGS. REFER TO GENERAL NOTE 6 ON SHEET EE203 FOR ADDITIONAL INFORMATION.
- 903 USE EXISTING PREPARED SPACES FOR NEW FEEDS TO IMAGING EQUIPMENT. COORDINATE WITH EXISTING EQUIPMENT TO ENSURE COMPATIBLE BREAKERS ARE USED. PROVIDE BREAKERS WITH SHUNT TRIP FUNCTIONALITY AND INTERCONNECT WITH EMERGENCY POWER OFF DEVICES WITHIN CATH LAB, EQUIPMENT ROOM AND CONTROL ROOM.
- 904 PROVIDE SPDS ON ALL SWITCHBOARDS AND PANELBOARDS CONNECTED TO THE ESSENTIAL ELECTRICAL DISTRIBUTION.
- 905 PER OSHPD PIN 38, THE ENGINEER OF RECORD HAS VERIFIED THAT THIS EQUIPMENT, FEEDER AND OCPD HAS SUFFICIENT CAPACITY FOR THE LOAD ADDED.
- 907 3#4AWG + #4AWG INSULATED EQUIPMENT GROUNDING CONDUCTOR.
- 908 PROVIDE GROUND BAR AND GROUND WIRING IN ACCORDANCE WITH VENDOR DRAWINGS. REFER TO GENERAL NOTE 6 ON SHEET EE203 FOR ADDITIONAL INFORMATION.
- 909 CRC TERMINAL BLOCK CABINET MA-1 AND MA-2 HAVE A MOMENTARY RATING OF 125A AT 480V AND A LONG TERM RATING OF 63A AT 480V.

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KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	04/30/2025

FILE LOG

ACTIVITY	BY
Design	RY
Draw	Author
Check	IPH
Issue Date	2023/6/12

AGENCY APPLICATION NUMBER

S231455-33-00

AGENCY APPROVAL STAMP

BUILDING TITLE

RIVERSIDE UNIVERSITY HEALTH SYSTEM MEDICAL CENTER

PROJECT TITLE

NEW CARDIAC CATHETERIZATION LAB SUITE & HYPERBARIC FACILITY EXPANSION

RUHS-MC PROJ. NO.	CONSULTANT PROJ. NO.
FM08430011869	047-10071-002

SHEET NAME

ELECTRICAL DIAGRAMS

SHEET NUMBER

EE601

1/31/2025 12:10:06 PM Autodesk Docs://047-10071-002_RUHS-TO-1_Riverside_County_Health_Cath_Lab/ RUHS-2ND-CATH-LAB-ARCH.rvt

PANELBOARD: 1H7B (EXISTING)

VOLTAGE : 480Y/277V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 225
BRANCH TYPE : NORMAL

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)...

A.I.C. RATING: 14kA
MOUNTING: SURFACE
ENCLOSURE:

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	CLERICAL OFFIC <x>	20	1	--	0	0					--	1	20	ADMITTING TOILETS <x>	2	--
--	3	CLERKS AV OFFICES <x>	20	1	--			0	0			--	1	20	GIFT SHOP <x>	4	--
--	5	OFFICE STORAGE <x>	20	1	--					0	0	--	1	20	TOILET,EVS, ELEC. RM. <x>	6	--
--	7	PASSAGE TREATMENT RM <x>	20	1	--	0	0					--	1	20	OFFICES <x>	8	--
--	9	TREATMENT RM CARDIO <x>	20	1	--			0	0			--	1	20	THERAPY <x>	10	--
--	11	PHYSICAL THERAPY <x>	20	1	--					0	0	--	1	20	EXAM RMS, TOILETS, CORR <x>	12	--
--	13	EXAM ROOMS <x>	20	1	--	0	0					--	1	20	EXAM, WAITING, OFFICES <x>	14	--
--	15	TOILET ,CONTROL ,CORR <x>	20	1	--			0	0			--	1	20	INFUSION CENTER <x>	16	--
--	17	WAITING <x>	20	1	--					0	0	--	1	20	INFUSION CENTER <x>	18	--
--	19	EAST ENTRY <x>	20	1	--	0	0					--	1	20	OCCUP. THERAPY OFFICE <x>	20	--
--	21	MAIN CORRIDOR <x>	20	1	--			0	0			--	1	20	MAIN ENTRY <x>	22	--
--	23	MAIN LOBBY, CORRIDOR <x>	20	1	--					0	0	--	1	20	MAIN ENTRY <x>	24	--
--	25	CORRIDOR <x>	20	1	--	0	0					--	1	20	WAITING, LOBBY, CORRIDOR <x>	26	--
--	27	CORRIDOR <x>	20	1	--			0	88				1	20	E1051	28	LIGHTING
--	29	NEW VISTOR LOUNGE <x>	20	1	--					0	432		1	20	E1034;E1039;E1040	30	LIGHTING
LIGHTING	31	E1051	20	1		273	222						1	20	E1046;E1072;E1073,E1073	32	LIGHTING
LIGHTING	33	E1059	20	1				96	48				1	20	E1043;E1044,E1045	34	LIGHTING
LIGHTING	35	E1045;E1055,E1053,E1056	20	1						302	933		1	20	E1056,E1057	36	LIGHTING
LIGHTING	37	E1051; E052	20	1		1168	1216						1	20	E1047,E1048	38	LIGHTING
LIGHTING	39	E1076,E1077;E1078	20	1				411	271				1	20	E1041;E1060;E1061;E1062;E1071	40	LIGHTING
--	41	SPARE	20	1	--					0	0	--	1	20	SPARE	42	--
					TOTAL LOAD:	2879 VA		914 VA		1667 VA							
					FEED THROUGH LOAD:	0 VA		0 VA		0 VA							

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR LEGEND					
LIGHTING	5460 VA	ELEVATOR	PER NEC 620.14	MOTOR	100%	PANEL TOTALS	
		HOTEL	PER NEC 220.42	HEAT	100%	TOTAL CONNECTED LOAD	5460 VA
		KITCHEN	PER NEC 220.56	MISC	100%	TOTAL DEMAND LOAD	6825 VA
		RECEPTACLE	PER NEC 220.44	LIGHTING	125%	TOTAL DEMAND CURRENT	8 A
		RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%	VOLTAGE	480Y/277V, 3Ø, 4W
		UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%	SPARE LOAD CAPACITY %	
		X-RAY	PER NEC 517.73(2)	EV CHARGE	125%	PANEL AMPS	8 A

NOTES & SPECIAL OPTIONS:
PROVIDE WITH FEED THROUGH LUGS.

PANELBOARD: 1L2HA (EXISTING)

VOLTAGE : 480Y/277V, 3Ø, 4W
BUS RATING : 125 A
MAIN : 100 A
BRANCH TYPE : LIFE SAFETY

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)...

A.I.C. RATING: 14kA
MOUNTING: SURFACE
ENCLOSURE:

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	PHARMACY, LOBBY, COR <x>	20	1	--	0	0					--	1	20	CORRIDOR <x>	2	--
--	3	EXTERIOR ENTRY <x>	20	1	--			0	0			--	1	20	STAIRS, MAIN LOBBY, BR <x>	4	--
--	5	CORRIDOR <x>	20	1	--					0	0	--	1	20	SPARE	6	--
--	7	CLASSROOM CAN LTS <x>	20	1	--	0	0					--	1	20	SPARE	8	--
--	9	EOC RM A1019 <x>	20	1	--			0	0			--	1	20	SPARE	10	--
LIGHTING	11	E1040;E1041;E1062	20	1						240	0	--	1	20	SPARE	12	--
LIGHTING	13	E1046,E1053,E1072;1078	20	1		528	0					--	1	20	SPARE	14	--
LIGHTING	15	E1059	20	1				192	0			--	1	20	SPARE	16	--
--	17	SPARE	20	1	--					0	0	--	1	20	SPARE	18	--
--	19	SPARE	20	1	--	0	626						3	20	1T-L2; E1036	20	LIGHTING; MISC; SPARE
--	21	SPARE	20	1	--			0	1900							22	
--	23	SPARE	20	1	--					0	600					24	
--	25	SPARE	20	1	--	0	0					--	1	20	SPARE	26	--
--	27	SPARE	20	1	--			0	0			--	1	20	SPARE	28	--
--	29	SPARE	20	1	--					0	0	--	1	20	SPARE	30	--
--	31	SPARE	20	1	--	0	0					--	1	20	SPARE	32	--
--	33	SPARE	20	1	--			0	0			--	1	20	SPARE	34	--
--	35	SPARE	20	1	--					0	0	--	1	20	SPARE	36	--
--	37	SPARE	20	1	--	0	0					--	1	20	SPARE	38	--
--	39	SPARE	20	1	--			0	0			--	1	20	SPARE	40	--
--	41	SPARE	20	1	--					0	0	--	1	20	SPARE	42	--
					TOTAL LOAD:	1154 VA		2092 VA		840 VA							
					FEED THROUGH LOAD:	0 VA		0 VA		0 VA							

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR LEGEND					
LIGHTING	986 VA	ELEVATOR	PER NEC 620.14	MOTOR	100%	PANEL TOTALS	
MISC	3100 VA	HOTEL	PER NEC 220.42	HEAT	100%	TOTAL CONNECTED LOAD	4086 VA
		KITCHEN	PER NEC 220.56	MISC	100%	TOTAL DEMAND LOAD	4332 VA
		RECEPTACLE	PER NEC 220.44	LIGHTING	125%	TOTAL DEMAND CURRENT	5 A
		RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%	VOLTAGE	480Y/277V, 3Ø, 4W
		UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%	SPARE LOAD CAPACITY %	
		X-RAY	PER NEC 517.73(2)	EV CHARGE	125%	PANEL AMPS	5 A

NOTES & SPECIAL OPTIONS:
PROVIDE WITH FEED THROUGH LUGS.

PANELBOARD: CE3LB

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 225 A
MAIN : 150A
BRANCH TYPE : EQUIPMENT

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)...

A.I.C. RATING: 22kA
MOUNTING: SURFACE
ENCLOSURE:

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
MOTORS	1	HU 1.01	45	2		3744	180						1	20	CWASC-011;E1040	2	MISC
	3							3744	1872				2	25	HU-1.03	4	MOTORS
MISC	5	MECHANICAL CONTROLS;E1051	15	1						200	1872					6	
MOTORS	7	VRFI 1.04	15	2		66	66						2	15	VRFI 1.03	8	MOTORS
	9							66	66							10	
MISC	11	VRFI 1.04-PUMP	15	1						180	0		1	15	VRFI 1.03-PUMP	12	MISC
MOTORS	13	HU 1.02	45	2		3744	180						1	15	VRFI 1.02-PUMP;E1052	14	MISC
	15							3744	456				2	15	VRFI 1.02	16	MOTORS
MISC	17	VRFI 1.01 - PUMP	15	1						180	456					18	
MOTORS	19	VRFI 1.01	15	2		456	180						1	20	MECHANICAL CONTROLS;E1050	20	MISC
	21							456	180				1	20	MECHAMICAL CONTROLS;E1049	22	MISC
MISC	23	RTU 3.01 - CNTRL	20	1						180	180		1	20	RTU 3.01 - LTG	24	MISC
MOTORS	25	EF 3.01	20	1		696	2400						1	30	MISC ALCOVE E1058	26	MISC
MISC	27	MECHANICAL CONTROLS; E1053	20	1				180	180				1	20	VRF PANEL; ROOF	28	MISC
	29															30	
	31															32	
	33															34	
	35															36	
	37															38	
	39															40	
	41															42	
					TOTAL LOAD:	11711 VA		10942 VA		3248 VA							
					FEED THROUGH LOAD:	0 VA		0 VA		0 VA							

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR LEGEND					
MISC	4400 VA	ELEVATOR	PER NEC 620.14	MOTOR	100%	PANEL TOTALS	
MOTORS	21500 VA	HOTEL	PER NEC 220.42	HEAT	100%	TOTAL CONNECTED LOAD	25900 VA
		KITCHEN	PER NEC 220.56	MISC	100%	TOTAL DEMAND LOAD	27772 VA
		RECEPTACLE	PER NEC 220.44	LIGHTING	125%	TOTAL DEMAND CURRENT	77 A
		RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%	VOLTAGE	208Y/120V, 3Ø, 4W
		UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%	SPARE LOAD CAPACITY %	
		X-RAY	PER NEC 517.73(2)	EV CHARGE	125%	PANEL AMPS	77 A

NOTES & SPECIAL OPTIONS:
PROVIDE WITH FEED THROUGH LUGS.

PANELBOARD: 1L2LA (EXISTING)

VOLTAGE : 208Y/120V, 3Ø, 4W
BUS RATING : 100 A
MAIN : 50 A
BRANCH TYPE : LIFE SAFETY

CB OPT : ST – SHUNT TRIP, FR – 100% RATED, L – LOCKABLE
AF – ARC FAULT CIRCUIT INTERRUPTER
GF – GROUND FAULT CIRCUIT INTERRUPTER
EO – ELECTRICALLY OPERATED, SS – SOLID STATE
ERMS – ENERGY-REDUCING MAINTENANCE SWITCH
EP – EQUIPMENT GROUND FAULT (30mA)...

A.I.C. RATING: 10kA
MOUNTING: SURFACE
ENCLOSURE:

LOAD TYPE	CKT NO	LOAD SERVED	CB	P	CB OPT	A (VA)		B (VA)		C (VA)		CB OPT	P	CB	LOAD SERVED	CKT NO	LOAD TYPE
--	1	COM CLOSET <x>	20	1	--	0	0					--	1	20	FIRE-FLY <x>	2	--
--	3	COM CLOSET <x>	20	1	--			0	0			--	1	20	FIRE-FLY <x>	4	--
--	5	COM CLOSET <x>	20	1	--					0	0	--	1	20	FIRE-FLY <x>	6	--
--	7	COM CLOSET <x>	20	1	--	0	0					--	1	20	SFD <x>	8	--
--	9	COM CLOSET <x>	20	1	--			0	0			--	1	20	SFD <x>	10	--
--	11	CANOPY-EAST <x>	20	1	--					0	0	--	1	20	SPARE	12	--
--	13	CANOPY-SOUTH <x>	20	1	--	0	0					--	1	20	FAC-2 <x>	14	--
--	15	COM CLOSET <x>	20	1	--			0	0			--	1	20	FAC-2 <x>	16	--
--	17	POWER SUPPLY P54 <x>	20	1	--					0	0	--	1	20	SPARE	18	--
--	19	VISITOR LNG DOOR <x>	20	1	--	0	0					--	1	20	EOC-A1019 FL RECPT <x>	20	--
--	21	SPARE	20	1	--			0	0			--	1	20	EOX-A1019 COUNT RECPT <x>	22	--
--	23	SPARE	20	1	--					0	0	--	1	20	EOC-A1019 TV <x>	24	--
--	25	EOC-A1019 FL RECPT <x>	20	1	--	0	0					--	1	20	EOC-A1019 RECPT <x>	26	--
--	27	EOC-A1019 TV <x>	20	1	--			0	0			--	1	20	EOC-A1019 RECPT <x>	28	--
--	29	EOC-A1019 FL RECPT <x>	20	1	--					0	0	--	1	20	EOC-A1019 TV <x>	30	--
LIGHTING	31	EXIT LIGHTING; E1040,E1046;	20	1		13	13						1	20	EXIT LIGHTING; E1072	32	LIGHTING
MISC	33	DOOR HOLD DEVICES;...	20	1				600	700				1	20	FIRE SMOKE DAMPER; E1072; E1058	34	MISC
MISC	35	FIRE SMOKE DAMPER; E1043	20	1						600	0	--	1	20	SPARE	36	--
MISC	37	DOOR OPERATOR DEVICES; E1046	20	1		600	0					--	1	20	SPARE	38	--
MISC	39	DOOR OPERATOR DEVICES E1072...	20	1				600	0			--	1	20	SPARE	40	--
--	41	SPARE	20	1	--					0	0	--	1	20	SPARE	42	--
					TOTAL LOAD:	626 VA		1900 VA		600 VA							
					FEED THROUGH LOAD:	0 VA		0 VA		0 VA							

1

PANEL CALCULATIONS : LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR LEGEND					
LIGHTING	26 VA	ELEVATOR	PER NEC 620.14	MOTOR	100%	PANEL TOTALS	
MISC	3100 VA	HOTEL	PER NEC 220.42	HEAT	100%	TOTAL CONNECTED LOAD	3126 VA
		KITCHEN	PER NEC 220.56	MISC	100%	TOTAL DEMAND LOAD	3132 VA
		RECEPTACLE	PER NEC 220.44	LIGHTING	125%	TOTAL DEMAND CURRENT	9 A
		RECEPT(HEALTHCARE)	PER NEC 220.42	LARGEST MOTOR	125%	VOLTAGE	208Y/120V, 3Ø, 4W
		UNIT PANEL	PER NEC 220.84	NON-COINCIDENT...	100%	SPARE LOAD CAPACITY %	
		X-RAY	PER NEC 517.73(2)	EV CHARGE	125%	PANEL AMPS	9 A

NOTES & SPECIAL OPTIONS:
PROVIDE WITH FEED THROUGH LUGS.

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KEY PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM 01	04/30/2025

FILE LOG

ACTIVITY	BY
Design	RY
Draw	Author
Check	PH
Issue Date	2023/6/12

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AGENCY APPROVAL STAMP

BUILDING TITLE
RIVERSIDE UNIVERSITY HEALTH SYSTEM MEDICAL CENTER

PROJECT TITLE
NEW CARDIAC CATHETERIZATION LAB SUITE & HYPERBARIC FACILITY EXPANSION

RUHS-MC PROJ. NO.
FM08430011869

CONSULTANT PROJ. NO.
047-10071-002

SHEET NAME
ELECTRICAL PANEL SCHEDULES

SHEET NUMBER
EE604

SECTION 08 81 10 – INTERIOR GLASS GLAZING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Tempered glass.
   2. Fire-resistant glass ceramic material.
   3. Ceramic-coated spandrel glass
   4. Supplementary components and accessories normally furnished or necessary for a complete installation, whether or not such items are indicated on the Drawings or included in the Specifications.

B. Related Requirements:
   1. Section 08 83 13 for mirrored glass.

1.2 REFERENCES

A. Definitions:
   1. Manufacturer: Means the primary glass manufacturer, unless otherwise indicated.
   2. Fabricator: Means the secondary glass fabricator, unless otherwise indicated.

1.3 ADMINISTRATIVE REQUIREMENTS

A. Performance Requirements:
   1. Minimum Glass Bite Depth: At least 3/8-inch glass bite depth for 6mm (nominal 1/4-inch) monolithic lites, unless otherwise indicated.
   2. Minimum Edge Clearance: At least 1/4-inch for 6mm (nominal 1/4-inch) monolithic lites, unless otherwise indicated
   3. Minimum Face Clearance: At least 1/8-inch inch for 6mm (nominal 1/4-inch) monolithic lites, unless otherwise indicated.
   4. Safety Glazing Requirements: Provided either fully tempered or laminated glass conforming to ANSI Z97.1 requirements for Drop Height Class A wherever safety glazing is indicated or required. Wire glass is prohibited.
   5. Other Requirements: Installed glass must be free from rattle.

1.4 SUBMITTALS

A. Action Submittals: Submit the following for responsive action (formal review and approval).

1. Product Data: Submit manufacturer's product data, specifications, and all other information necessary to show conformance to the Contract Documents, excluding material safety data sheets (MSDSs) and safety data sheets (SDSs), both of which are returned to the Contractor without review or responsive action.
2. Glazing Schedule: Submit glazing schedule indicating glazing types, locations, sizes, thicknesses, and extents.
3. Samples: Submit at least 8-inch square representative samples of each glass type, color, finish, and variety.

B. Informational Submittals: Submit written descriptions confirming experience specified in QUALITY ASSURANCE article below.

1.5 QUALITY ASSURANCE

A. Source Limitations: Glazing must be obtained through one source from the same manufacturer (to ensure compatibility, regulatory conformance, and a warrantable installation).
1. Certain items may be obtained from more than one manufacturer, but only when used for separate installations.
2. Items provided for each different installation must be obtained from the same source and manufacturer.

B. Safety Glazing Certification:
1. Each pane of safety glass delivered to the project site must be furnished with a permanent identification label or mark that identifies the labeler and indicates that safety glazing material is utilized for the installation. Each label must be permanently affixed in a location such that the label remains visible after the pane of glass is installed.
2. Each pane of tempered glass delivered to the project site must be furnished with a permanent identification label or mark etched or ceramic-fired onto the glass surface that identifies the manufacturer or fabricator and indicates that tempered glass is utilized for the installation. Each label or mark must be permanently affixed in a location such that the label or mark remains visible after the pane of glass is installed.

C. Qualifications:
1. Manufacturer: Company or individuals must have at least 10 years' experience manufacturing glazing installed on at least 200 previous projects similar to this project in size, material, design, and complexity.
2. Fabricator: Company or individuals must have at least 10 years' experience fabricating glazing installed on at least 100 previous projects similar to this project in size, material, design, and complexity.
3. Installer: Company or individuals must have at least 5 years' experience installing glazing for at least 30 previous projects similar to this project in size, material, design, and complexity.

4. Supervisors: Individuals must have at least 7 years' experience installing glazing for at least 30 previous projects similar to this project in size, material, design, and complexity, including at least 2 years' supervisory experience directing and leading glazing installers.

1.6 HANDLING

A. Receiving: Inspect all deliveries for deteriorated, damaged, and defective items.
   1. Reject items that are not packaged in a manner that prevents damage; or that exhibit deterioration or damage or have damaged or open packaging or containers.
   2. Unload and store only inspected and accepted items.

B. Storage: Store unloaded items as shipped and in conformance with manufacturer's instructions and other requirements and recommendations for storage. Furnish adequate dunnage and bracing during storage.
   1. Prevent stored items from contacting the floor or ground, from soiling and staining, and from deterioration and damage.
   2. If items are not stored in an enclosed location, then cover the tops and sides with securely-tied, waterproof, and breathable covers. Unvented polyethylene tarpaulins do not qualify as breathable covers and are prohibited. (due to potential accumulation of moisture beneath tarpaulin during certain environmental conditions)
   3. Incline covered items to ensure maximum drainage of accumulated moisture.
   4. Do not leave items uncovered where they might be exposed to weather or become wet; or exposed to other sources of deterioration and damage.

C. Handling: Handle items in conformance with manufacturer's instructions and other requirements and recommendations, and in a manner that that prevents damage.

D. Damaged Item Replacement: Promptly remove and replace deteriorated, damaged, or defective glass with undamaged new glass that do not exhibit deterioration, damage, or defects.

E. Packaging Waste Management: Do not burn or bury construction waste at the project site. Remove and legally dispose of all construction waste away from the project site.

PART 2 - PRODUCTS

2.1 PRIMARY GLASS MANUFACTURERS

A. Manufacturers: Provide products manufactured by one of the following, or equal.
   1. Guardian Industries Corp.
   2. Pilkington North America, Inc.
   3. PPG Industries.

4. Saint-Gobain Corp.

2.2 MANUFACTURED GLASS

A. Ultra-Clear (Low Iron) Annealed Vision Glass:
   1. Description: ASTM C 1036, Type I (transparent flat glass), Class 1 (clear), Quality Q3 (select glazing applications).
   2. Products: Provide one of the following, or equal.
      a. “Starphire” manufactured by PPG Industries.
      b. “UltraWhite” manufactured by Guardian Industries Corp.
      c. “OptiWhite” manufactured by Pilkington North America, Inc.
      d. “DIAMANT” manufactured by Saint-Gobain Glass.
   3. Performance Requirements:
      a. Visible Light Transmittance (VLT): At least 90 percent at 6mm thickness.

2.3 SECONDARY GLASS FABRICATORS

A. Fabricators: Provide products fabricated by one of the following, or equal.
   1. Oldcastle BuildingEnvelope Corp.
   2. PPG Industries.
   3. Viracon, Inc.

2.4 TEMPERED GLASS

A. Description: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated surfaces), fabricated from ultra-clear (low iron) annealed vision glass.

B. Minimum Surface Compression Strength: At least 10,000 pounds per square inch.

C. Fabrication:
   1. Fabricate tempered glass by the horizontal (roller hearth) process with roll wave distortion parallel to the bottom glass edge when installed, unless otherwise indicated.
   2. Glazing materials must be free from bubbles, smoke vanes, air holes, scratches and other defects, having ground and arrised edges; provide polished edges where exposed.

D. Source Quality Control:
   1. Individual tempered glass lites installed overhead, and floor-to-ceiling tempered glass lites installed adjacent to walking surfaces must be fully heat soak tested by the manufacturer or fabricator before delivery to the project site.
   2. Other tempered glass lites may have statistical heat soak testing performed to demonstrate nickel sulfide breakage does not exceed 0.1 percent.

2.5 FIRE-RESISTANT GLASS CERAMIC MATERIAL

A. Description: Clear and wireless fire- and impact safety-rated glass ceramic material conforming to ANSI Z97.1 and CPSC 16CFR1201 (Cat. I and II) with high performance surface-applied fire-rated film.

B. Products: “FireLite NT” manufactured by Technical Glass Products (TGP), or equal.

C. Requisite Properties:
1. Fire-Resistance Rating: 20 minutes to180 minutes with fire hose test.
2. Thickness: 5mm (nominal 3/16-inch).
3. Surface Grade: Premium.
4. Identification: Each fire-rated glazing panel must be labeled with a permanent logo indicating the name of product, manufacture, testing laboratory (UL), fire rating period, safety glazing standards, and date of manufacture.

2.6 CERAMIC-COATED SPANDREL GLASS:

A. Description: ASTM C 1048, Kind HS (heat strengthened) or FT (fully tempered) as indicated, Condition C (spandrel glass, one surface ceramic coated), Type I (transparent flat glass), Class 1 (clear), Quality Q3 (select glazing applications).

B. Coating: Ceramic enamel coating applied by the silk-screen process.

~~2.6~~2.7 ACCESSORIES

A. Extruded Polystyrene (XPS):
1. Description: Unfaced, rigid, CFC- and HCFC-free, closed cell plastic XPS foam insulation board conforming to ASTM C 578 Type IV physical property requirements, with grooves on one face.
2. Products: “FOAMULAR” manufactured by Owens Corning, or equal.
3. Requisite Properties:
a. Minimum Compressive Strength: At least 30 pounds per square inch, when measured in conformance with ASTM D 1621 at either 5 percent deformation or yield, whichever occurs first.
b. Minimum Density: At least 25 pounds per square inch, when measured in conformance with ASTM D 1622.
c. Minimum Thermal Resistance: Provide material having an R-value of at least R-5 per inch of thickness.
d. Minimum Size: At least 8 feet long by 4 feet wide.
e. Minimum Thickness: At least 2 inches.
f. Edges: Square edges.

~~A.~~B. Shoes for Butt Joint Glazing Installations:

1. Description: Brushed stainless steel wide U-channel with top load roll-in glazing gasket for 3/4- glass.
2. Product: “Catalog No. NH3BSCL” manufactured by C.R. Laurence, or equal.
3. Finish: Brushed stainless steel finish.

~~B.~~C. Shims: Continuous shims fabricated from load-bearing, non-leaching, high-impact polystyrene.

~~C.~~D. Setting Blocks: Elastomeric silicone rubber conforming to ASTM C 1115, CH9.

~~D.~~E. Spacers and End Blocks: Provide the following, unless another type, hardness, class, or surface is supplied, required, recommended, authorized, sanctioned, or accepted by the glass installer.

~~E.~~F. Glazing Gaskets: Fabricate compression gaskets in lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.

1. Firm, Dense Gaskets: Elastomeric silicone or EPDM rubber conforming to ASTM C 1115, CH7S2 unless another type, hardness, class or surface is supplied, required, recommended, approved, or accepted by the glass installer.
2. Soft, Closed Cell Gaskets: ASTM C 509. Provide silicone or EPDM rubber with pre-molded corners.

~~F.~~G. Cleaners, Primers, Sealers: Supplied, required, recommended, or accepted by the manufacturer or fabricator.

~~G.~~H. Other Accessories: Provide other accessories and secondary items normally furnished or necessary for a complete installation; or supplied, required, recommended, or accepted by the manufacturer for actual in-service conditions applicable to the project.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Oversight: Ensure an adequate number of supervisors are present and proper supervision practices are followed at the project site before the installer begins work and at all times during installation.

B. Verification: Verify in-place construction conforms to the manufacturer’s requirements or recommendations and satisfies all other conditions that might affect the quality of installation or the durability, appearance, or performance of installed and adjacent items.

C. Evaluation and Assessment:

1. Identify project conditions that do not conform to the manufacturer’s instructions and other requirements and recommendations.

2. Perform or arrange and pay costs without reimbursement from Owner for all remedial work necessary to correct or improve deficient conditions, without limitation, before the installer begins work.

3.2 INSTALLATION

A. General Requirements:
   1. Install glazing using materials and methods required, recommended, or accepted by the manufacturer, along with manufacturer-recommended accessories and techniques.
   2. Set glazing true to line; plumb, level, and square without warp or rack; with flush, well-fitted joints; and in alignment with adjacent construction.
   3. Completed work must match approved samples, as accepted by the Architect.
   4. Installed glazing must be warrantable. Do not install, correct, or replace glazing in a manner that is un-warrantable by the manufacturer; or that results in any warranty or guarantee becoming void.

B. Interface with Adjacent Items: Provide materials, components, and accessories normally furnished or necessary to securely attach glazing to supporting construction.

3.3 CORRECTION AND REPAIR

A. Non-conforming, damaged, and defective work must be brought into conformance with the Contract Documents. Correct and repair as necessary, without limitation, including arranging all correction and repair work and paying all correction and repair costs without reimbursement from Owner, until accepted in writing by the Architect.

B. Corrective and repair work must be performed in conformance with a correction and repair plan submitted to and accepted in writing by the Architect before correction or repair work begins. At a minimum, correction and repair plans must include
   1. written descriptions of non-conforming, damaged, and defective work;
   2. supporting sketches, diagrams, photographs, and other visual depictions of non-conforming, damaged, and defective work; and
   3. similar written descriptions and visual depictions of Contractor-proposed corrections and repairs.

C. Arrange and pay costs without reimbursement from Owner for removing and replacing work that cannot be corrected or repaired to the Architect’s acceptance.

3.4 CLEANING

A. Cleaning Work: Clean all visible glazing surfaces in a manner that does not result in any warranty or guarantee becoming void. Clean spills, stains, soiling, overspray, and fallout from adjacent surfaces.

1. Use cleaning materials, equipment, and accessories supplied, and means, methods, techniques, and procedures required, recommended, or accepted by the manufacturer.
2. Do not use cleaning materials or procedures known to change, or that might change, the appearance of exposed finishes or adjacent surfaces; or cause deterioration or damage to exposed finishes or adjacent surfaces.
3. Protect adjacent surfaces not being cleaned from staining, deterioration, damage, or other detrimental effects caused by cleaning.
4. Arrange and pay costs without reimbursement from Owner for removing and replacing work that cannot be cleaned to the Architect's acceptance.

B. Waste Management: After completing the work of this specification section, leave work areas free from debris, waste, scrap, equipment, tools, and other items.

3.5 PROTECTION

A. Protect installed glazing in place from deterioration and damage until Substantial Completion.

B. Do not store anything adjacent to or against installed glazing unless it is protected from damage, as accepted in writing by the manufacturer's representative. Do not use installed glazing surfaces as work surfaces.

C. Remove protection when it's no longer needed and before Substantial Completion.

END OF SECTION