EXHIBIT B

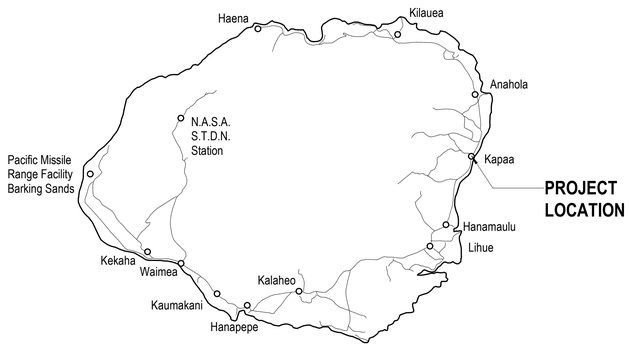
SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

4800 KAWAIHAU ROAD
KAPA`A, HAWAII, 96746
TMK#: 4-6-014:113

CONSTRUCTION DOCUMENTS / BID SET

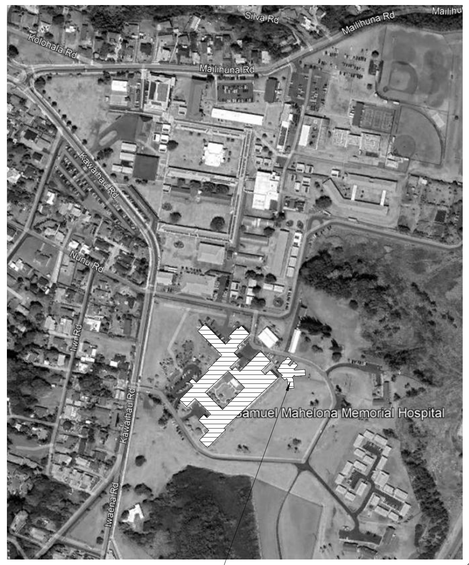
PROJECT LOCATION





DRAWING NOT TO SCALE

VICINITY MAP



DRAWING NOT TO SCALE

PROJECT TEAM

CLIENT:
HAWAII HEALTH SYSTEMS CORPORATION - KAUAI DIVISION
4643 Waimea Canyon Drive
Waimea, HI 96796

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REVISIONS

#	Date	Description

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02/27/26

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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SHEET NAME
TITLE, LOCATION PLAN, VICINITY MAP, PROJECT DIRECTORY

SCALE: As indicated

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	0cs1
SHEET ISSUE DATE	
02/27/2026	

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0cs4	ABBREVIATIONS
0cs5	ARCHITECTURAL SYMBOLS
0cs6	BUILDING CODE SUMMARY, ZONING SUMMARY
0cs7	OCCUPANCY LOAD AND EXIT CALCULATION
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CIVIL

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TA702	AV SYSTEM ONE LINE DIAGRAMS

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REVISIONS

#	Date	Description

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This work was prepared by me or under my supervision and construction of this project will be under my observation

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
INDEX TO DRAWINGS

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Author	Checker

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GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE WITH COUNTY OF KAUAI AMENDMENTS INCLUDING ALL AMENDMENTS AND AMERICANS WITH DISABILITIES ACT & ARCHITECTURAL BARRIERS ACT ACCESSIBILITY GUIDELINES (ADAAG), FIRE DEPARTMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS AND THE BEST TRADE PRACTICES.

2. ALL WORK SHALL CONFORM TO SEISMIC REQUIREMENTS AS REQUIRED BY APPLICABLE BUILDING CODES.

3. ALL EQUIPMENT AND SUPPORTS SHALL BE SECURELY FASTENED TO MEET WIND LOAD REQUIREMENTS PER BUILDING CODE.

4. FULLY EXECUTE ALL CONDITIONS OF THE CONTRACT.

5. BEFORE COMMENCING WORK, VERIFY EXTENT OF DEMOLITION WITH ARCHITECT.

6. BEFORE COMMENCING WORK, VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND SHALL REPORT ANY CONDITIONS OF DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS REQUIRING MODIFICATIONS BEFORE PROCEEDING WITH WORK TO THE ARCHITECT.

7. FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE BUILDING DEPARTMENT, OBTAIN ALL REQUIRED PERMITS, AND PAY ALL FEES REQUIRED BY GOVERNING LOCAL AGENCIES AND SHALL COORDINATE ALL WORK PROCEDURES WITH REQUIREMENTS OF LOCAL AUTHORITIES AND/OR BUILDING MANAGEMENT.

8. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS AND SPECIFICATIONS.

9. BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. ALL ELEMENTS/ITEMS DAMAGED AS A RESULT OF THE CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK, AND THE COST OF RESTORING DAMAGED IMPROVEMENTS.

10. LAYOUT OWN WORK, AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR OTHER TRADES (PLUMBING, ELECTRICAL, ETC.).

11. VERIFY EXISTING CONDITIONS AND LIMITATIONS UNDER WHICH THE WORK IS TO BE PERFORMED, AND INCLUDE IN THE PRICE, A SUM TO COVER THE COST OF ITEMS NECESSARY TO PERFORM THE WORK AS SET FORTH IN THE PROPOSED CONTRACT DOCUMENTS. NO ALLOWANCE WILL BE MADE DUE TO THE LACK OF SUCH EXAMINATION OR KNOWLEDGE.

12. COOPERATE WITH OWNER'S CONTRACTORS [FF&E, SECURITY, DATA, ETC.] FOR SCHEDULING, ACCESS, AND/OR INSTALLATION OF ALL ASSOCIATIVE EQUIPMENT WITHIN THE WORK AREA.

13. PLUMBING AND ELECTRICAL WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN INSPECTIONS AND SIGN-OFFS.

14. DO ALL CUTTING, PATCHING, REPAIRING AS REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS, AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB.

15. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOL LEGENDS. ALL NOTES ARE TO BE REVIEWED AND APPLIED TO RELATED BUILDING COMPONENTS.

16. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON ANY ONE SHEET ARE TO BE APPLIED TO RELATED SYSTEMS AND MATERIALS DEPICTED ON OTHER DRAWINGS.

17. WHERE DETAILS ARE NOT CALLED OUT BUT ARE NOTABLY SIMILAR IN CHARACTER/DESIGN INTENT TO THOSE THAT ARE CALLED OUT WITH A DETAIL/DIMENSION, UTILIZE SIMILAR DETAILS. WHERE CHARACTER/DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

18. NOTIFY ARCHITECT OF ANY DAMAGE DISCOVERED TO STRUCTURAL SUPPORTS, METAL DECKING OR SUBSTRATES. CONTRACTOR IS RESPONSIBLE TO INSPECT SUBSTRATE FOR ANY WATER DAMAGE & INVESTIGATE EXTENT OF MOISTURE INFILTRATION.

19. PROVIDE WEATHER PROTECTION FOR ANY AREAS WHERE REMOVAL OF MATERIAL MAY CAUSE WATER INFILTRATION.

GENERAL DEMOLITION NOTES

A. THE INTENT OF THE DEMOLITION PLANS IS TO SHOW THE GENERAL NATURE OF THE DEMOLITION SCOPE. THE DRAWINGS REPRESENT EXISTING FIELD CONDITIONS THAT HAVE NOT BEEN FIELD VERIFIED BY AS-BUILT DOCUMENTATION. THE CONTRACTOR AND SUBCONTRACTOR(S) ARE RESPONSIBLE TO BECOME FAMILIAR WITH ALL EXISTING FIELD CONDITIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES. VERIFY EXISTING CONDITIONS AND CONSTRAINTS UNDER WHICH THE WORK IS TO BE PERFORMED. NO CLAIM FOR EXTRA COST WILL BE ALLOWED BECAUSE OF LACK OF EXAMINATION OR KNOWLEDGE OF EXISTING CONDITIONS. SUBMITTAL OF BID IMPLIES THAT CONTRACTOR AND HIS SUBCONTRACTORS HAVE MADE SUCH EXAMINATIONS AND ARE FAMILIAR WITH SITE CONDITIONS. COORDINATE AND VERIFY WITH THE OWNER ALL ITEMS TO BE SALVAGED PRIOR TO DEMOLITION. THE ITEMS MAY INCLUDE BUT NOT LIMITED TO THE FOLLOWING: LIGHT FIXTURES, OUTLETS, DOORS, WINDOWS, EXISTING FFE, HOODS, VENT STACKS, MECHANICAL A.C. EQUIPMENT, ETC.

B. MAINTAIN A SAFE SEPARATION BETWEEN AREAS WITHIN THE SCOPE OF WORK AND AREAS OUTSIDE OF THE SCOPE OF THE WORK BY PROVIDING PLYWOOD BARRIER AND/OR PLASTIC SHEATHING BETWEEN CONTINUOUS SPACES AND / OR TEMPORARILY TAPING OF JOINTS AND GAPS TO PROVIDE APPROPRIATE DUST MIGRATION MEASURES. PREVENT DUST FROM ENTERING VERTICAL SHAFTS, EQUIPMENT, DUCTS, VENTS ETC. TO REMAIN. PREVENT DUST FROM ENTERING ADJACENT BUILDING AREAS, OCCUPIED OR OTHERWISE.

C. DO NOT DAMAGE EXISTING CONSTRUCTION THAT IS TO REMAIN. DO NOT ENCROACH ON ADJACENT OCCUPIED SPACES. PROTECT ALL EXISTING FINISHES, DOORS, FRAMES, ETC WHICH ARE TO REMAIN. PROVIDE SAFE PASSAGE TO ALL TENANT SPACE TO REMAIN, PROTECT PATH OF TRAVEL OF ANY EGRESS ROUTES TO AND FROM SPACE TO PUBLIC WAY OR EXIT.

D. USE ALL MEANS NECESSARY TO PREVENT THE SPREAD OF DUST TO ADJACENT AREAS.

E. CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH STREETS, TRAFFIC, WALKWAYS, SIDEWALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. COMPLY WITH LOCAL JURISDICTION REQUIREMENTS FOR RECYCLING AND TREATMENT OF ITEMS TO BE RECYCLED.

F. DISPOSE OF ALL DEMOLISHED OR REMOVED MATERIALS LEGALLY OFF THE SITE. COMPLY WITH ALL LOCAL HAULING AND DISPOSAL REQUIREMENTS.

G. IMMEDIATELY ISOLATE THE AFFECTED AREA IF ASBESTOS OR OTHER HAZARDOUS MATERIAL ARE DISCOVERED DURING CONSTRUCTION. NOTIFY OWNER FOR FURTHER INSTRUCTION BEFORE PROCEEDING WITH WORK. THE ARCHITECT HAS NO KNOWLEDGE OF AND SHALL NOT BE HELD LIABLE FOR ANY ASBESTOS OR OTHER HAZARDOUS MATERIALS ON THE PROJECT/JOBSITE.

H. EXISTING UTILITIES TO REMAIN IN SERVICE. PROTECT AGAINST DAMAGE DURING DEMOLITION OPERATIONS.

I. SCHEDULE ANY SHUT DOWNS WITH OWNER, PROJECT MANAGER AND PROPERTY MANAGER AS SOON AS POSSIBLE OR A MINIMUM OF ONE (1) WEEK PRIOR AND NOTIFY PROPERTY MANAGER AND AFFECTED TENANTS AT LEAST ONE (1) DAY PRIOR TO SCHEDULED SERVICE SHUT DOWN(S) FOR UTILITIES AND ALL OTHER SERVICES.

J. REMOVE ALL NON-STRUCTURAL ITEMS THAT PROTRUDE ABOVE THE CONCRETE FLOOR SURFACE.

K. REMOVE MISCELLANEOUS ANCHORS, CLIPS, BOLTS, ETC EXCEPT WHERE THEY ARE SUPPORTING ALL SERVICES, SYSTEMS, OR OTHER ELEMENTS INDICATED TO REMAIN.

L. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SPECIFIC DEMOLITION NOTES. ALL HVAC, ELECTRICAL AND PLUMBING ITEMS REMOVED SHALL BE CUT AND CAPPED BELOW FINISH AND IDENTIFIED.

M. UPON COMPLETION, CLEAN AREA OF DEMOLITION TO A TIDY, UNIFORM CONDITION REMOVING ALL DEBRIS. DUST ALL REMAINING AREAS AFFECTED BY DEMOLITION. CLEAN ALL AREAS IMPACTED BY THE DEMOLITION, INCLUDING BUT NOT LIMITED TO, ADJACENT OCCUPIED AREAS AND AREAS NOT WITHIN THE SCOPE OF WORK.

N. PROVIDE NEW SUPPORT RACK OR HANGERS AS NEEDED FOR CEILING AREA REMAINING IN PLACE IF ORIGINAL SUPPORTING WALLS ARE INDICATED TO BE REMOVED.

O. ABANDONING ITEMS OR UNUSED UTILITIES IN PLACE IS PROHIBITED UNLESS SPECIFICALLY PERMITTED BY THE OWNER.

P. REPAIR, PATCH, PAINT, RE-FINISH FINISHES AS NEEDED DURING DEMOLITION. ALL ADJACENT EXISTING FINISHES DAMAGED OR AFFECTED BY DEMOLITION OR CONSTRUCTION OF NEW AREAS IN SCOPE OF WORK SHALL BE PATCHED AND REPAIRED TO MEET CLIENT SATISFACTION.

Q. COMPLY WITH ALL STANDARD LOCAL, NATIONAL, STATE AND FEDERAL SAFETY REQUIREMENTS FOR DEMOLITION

R. REMOVE ALL INTERIOR FURNISHINGS, FIXTURES, AND EQUIPMENT INCLUDING FURNITURE, SHELVING, CASH WRAPS/CUSTOMER SERVICE COUNTERS, BLINDS, VAULTS, SAFES, FOOD PREPARATION AND FOOD SERVICE EQUIPMENT.

S. CONFIRM WITH OWNER LOCATION OF ALL SALVAGED MATERIALS FOR STORAGE.

T. PROVIDE TEMPORARY, DECORATIVE AND NONCOMBUSTIBLE CONSTRUCTION BARRICADES AS APPROVED BY OWNER.

U. ANY COLUMNS OR WALLS SHOWN TO BE DEMOLISHED THAT ARE CONCRETE, CMU OR APPEAR TO BE STRUCTURAL IN NATURE, IMMEDIATELY NOTIFY ARCHITECT AND STRUCTURAL ENGINEER TO CONFIRM DEMOLITION PRIOR TO STARTING DEMOLITION WORK.

CONSTRUCTION NOTES

1. ALL EXTERIOR OPENINGS SHALL BE FLASHED IN SUCH A WAY AS TO MAKE THEM WEATHERPROOF.

2. FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT AS REQUIRED BY 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

3. EXTERIOR FENESTRATION AND FENESTRATION ENCLOSING CONDITIONED SPACE SHALL BE WEATHERSTRIPPED OR OTHERWISE TIGHTLY SEALED TO MINIMIZE AIR LEAKAGE.

4. EXTERIOR DOORS AND DOORS ENCLOSING CONDITIONED SPACE SHALL MINIMIZE AIR LEAKAGE AROUND THEIR PERIMETER WHEN IN A CLOSED POSITION.

5. WHERE MULTIPLE SWITCHES OR RECEPTACLES ARE LOCATED IN NEAR VICINITY, GANG SWITCHES OR RECEPTACLES UP TO THE MAXIMUM WIDTH AVAILABLE FOR FACE PLATES.

6. ALL SWITCHES AND/OR RECEPTACLES MOUNTED ABOVE COUNTERS SHALL BE INSTALLED SO THAT LENGTH OF FACE PLATE IS ORIENTED HORIZONTALLY.

FIRE SAFETY NOTES

1. STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION OPERATIONS INCLUDING THOSE IN UNDERGROUND LOCATIONS, SHALL COMPLY WITH NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS AND THIS CHAPTER. (2012 NFPA 1)

2. FIRE SAFETY DURING ALTERATION: SEE MECHANICAL DRAWINGS FOR ADDITIONAL NOTES.

A. WHERE THE BUILDING IS PROTECTED BY FIRE PROTECTION SYSTEMS, SUCH SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES DURING ALTERATION.

B. WHERE ALTERATION REQUIRES MODIFICATION OF A PORTION OF FIRE PROTECTION SYSTEMS, THE REMAINDER OF THE SYSTEM SHALL BE KEPT IN SERVICE AND THE FIRE DEPARTMENT SHALL BE NOTIFIED.

C. WHEN IT IS NECESSARY TO SHUT DOWN THE SYSTEM, THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE ALTERNATE MEASURES OF PROTECTION UNTIL THE SYSTEM IS RETURNED TO SERVICE.

D. AS NECESSARY, DURING EMERGENCIES, MAINTENANCE, DRILLS, PRESCRIBED TESTING, ALTERATIONS, OR RENOVATION, PORTABLE OR FIXED FIRE-EXTINGUISHING SYSTEMS OR DEVICES OR ANY FIRE-WARNING SYSTEM SHALL BE PERMITTED TO BE MADE INOPERABLE OR INACCESSIBLE. A FIRE WATCH SHALL BE REQUIRED AS SPECIFIED IN SECTIONS 13.3.4.3.5.2 (3), 13.7.1.4.4, 16.5.4, 20.2.3.6, 34.6.3.3, 41.2.2.5, 41.2.2.6, 41.2.4, 41.3.4, 41.4.1, 34.5.4.3 AND 25.1.8 AT NO COST TO THE AHJ. NFPA 1, 2012 AS AMENDED.

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

#	Date	Description

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
GENERAL NOTES, CONSTRUCTION NOTES, DEMOLITION NOTES, FIRE SAFETY NOTES

SCALE:

DRAWN BY	CHECKED BY
Author	Checker
PROJECT NO.	SHEET NO.
221093-01	0cs3
SHEET ISSUE DATE	
02/27/2026	

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ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED

&	AND
∠	ANGLE
@	AT
℄	CENTER LINE
⌀	DIAMETER
∅	FOOT; FEET
"	INCH
%	PERCENT
⊥	PERPENDICULAR
#	POUND OR NUMBER
℘	PROPERTY LINE
(E)	EXISTING
(N)	NEW
W/	WITH

A

A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ABBREV	ABBREVIATION
ABV	ABOVE
AC	ASPHALT CONCRETE
ACC	ACCESSIBLE
ACP	ACOUSTIC PANEL
ACCU	AIR COOLED CONDENSING UNIT
ACT	ACOUSTICAL CEILING TILE
ACOUS	ACOUSTICAL
ADA	AMERICAN WITH DISABILITIES ACT
AD	AREA DRAIN
ADD	ADDITIVE, ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
ADJA	ADJACENT
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
AL/ALUM	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASB	ASBESTOS
ASPH	ASPHALT

B

BATHRM	BATHROOM
BD	BOARD
BITUM	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLVD	BOULEVARD
BM	BEAM
BOH	BACK OF HOUSE
BOT	BOTTOM
BR	BEDROOM
BRG	BEARING
BRKT	BRACKET
BS	BOTH SIDES
BTWN	BETWEEN
BUR	BUILT-UP ROOFING

C

CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CER	CERAMIC
CG	CORNER GUARD
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONSTRUCTION OR CONTROL JOINT
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNITS
CNTR	COUNTER
CO	CLEAN OUT; CASED OPENING
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONN	CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUOUS; CONTINUE
COORD	COORDINATE
CONTR	CONTRACTOR
COP	COPPER
CG	CORNER GUARD
CORR	CORRIDOR
COTD	CLEAN OUT TO DRAIN
CPT	CARPET
CRM	CONC RUBBLE MASONRY
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTERSINK
CW	COLD WATER

D

D	DRYER; DEEP; DEPTH
DA	DOUBLE ACTING
DBL	DOUBLE
DD	DECK DRAIN
DECOR	DECORATIVE
DEFS	DIRECT EXTERIOR FINISH SYSTEM
DEMO	DEMOLITION; DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGRAM
DIM	DIMENSION
DISP	DISPENSER
DN	DOWN
DPTN	DEMOUNTABLE PARTITION
DR	DOOR
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER

E

E	EAST
(E)	EXISTING
EA	EACH
EC	ELASTOMERIC COATING
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EPS	EXPANDED POLYSTYRENE
EQ	EQUAL
EQPT	EQUIPMENT
EXP	EXPANSION
EWC	ELEC. WATER COOLER
EXIST	EXISTING
EXT	EXTERIOR

F

F	FEMALE
FA	FIRE ALARM
FAB	FABRICATE
FAWP	FLUID APPLIED WATERPROOFING
FB	FLAT BAR
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC-S	FIRE EXTINGUISHER CABINET-SURFACE
FEC-SR	FIRE EXTINGUISHER CABINET-SEMI RECESSED
FEC-R	FIRE EXTINGUISHER CABINET-RECESSED
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FF&E	FURNITURE, FIXTURE & EQUIPMENT
FHC	FIRE HOSE CABINET
FIN	FINISH
FIXT	FIXTURE
FLR	FLOOR
FLASH'G	FLASHING
FLDG	FOLDING
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS, SLAB OR STRUCTURE
FOW	FACE OF WALL
FR	FRAME
FRP	FIBERGLASS REINFORCED PLASTIC
FRPF	FIREPROOF
FRT	FIRE RETARDANT TREATED
FS	FULL SIZE; FLOOR SINK
FT	FOOT OR FEET
FTF	FACE OF FINISH TO FACE OF FINISH
FTG	FOOTING
FURR	FURRING; FURRED
FUT	FUTURE

G

GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GFRC	GLASS FIBER REINFORCED CONCRETE
GI	GALVANIZED IRON
GL	GLASS
GLT	GLASS TILE
GLULAM	GLUE LAMINATED WOOD BEAM
GND	GROUND
GR	GRADE
GRN	GRANITE
GS	GYPSUM SHEATHING
GWB	GYPSUM WALL BOARD
GYP	GYPSUM

H

H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAD; HAND DRYER
HDCP	HANDICAPPED
HDWD	HARDWOOD
HDWE	HARDWARE
HT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR; HANDRAIL
HS	HAND SINK
HT	HEIGHT
HP	HIGH POINT
HVAC	HEATING, VENTILATION & AIR CONDITIONING

I

ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUSIVE, INCLUDED OR INCLUDING
INSUL	INSULATION
INT	INTERIOR
INTEG	INTEGRATED
INFO	INFORMATION
INV	INVERT

J

JAL	JALOUSIE
JAN	JANITOR
JB	JUNCTION BOX
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT

K

KD	KNOCK DOWN
KIT	KITCHEN
KO	KNOCK OUT

L

L	LENGTH OR LONG
LAB	LABORATORY
LAM	LAMINATE OR LAMINATED
LAV	LAVATORY
LB	POUND
LDG	LANDING
LF	LINEAR FOOT
LH	LEFT HAND
LOC	LOCATION
LR	LIVING ROOM
LT	LIGHT
LP	LOW POINT
LVR	LOUVER

M

M	MALE
MAR	MARBLE
MAS	MASONRY
MAX	MAXIMUM
MAT	MATERIAL
MB	MACHINE BELT
MBR	MASTER BEDROOM
MC	MEDICINE CABINET
MECH	MECHANICAL
MEMB	MEMBRANE
MET/MTL	METAL
MFR	MANUFACTURER
MH	MANHOLE; MOP HOLDER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING
MR	MIRROR
MO	MASONRY OPENING
MS	MOP SINK
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MUL	MULLION
MUN	MUNTIN

N

N	
NIC	NORTH
NO	NOT IN CONTRACT
NOM	NUMBER
NTS	NOMINAL
	NOT TO SCALE

O

OA	OVERALL
OBS	OBSCURED
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OFF	OFFICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OH	OVERHANG
OI	OWNER INSTALLED
OPNG	OPENING
OPP	OPPOSITE
OVHD	OVERHEAD

P

PC	PIECE
PD	PLANTER DRAIN
PERIM	PERIMETER
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PRCST	PRECAST
PREFAB	PREFABRICATE
PREP	PREPARATION
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PT	PAINT, POINT
PTD	PAPER TOWEL DISPENSER
PTDR	PAPER TOWEL DISPENSER AND RECEPTACLE
PTN	PARTITION
PIP	POURED IN PLACE
PV	PHOTOVOLTAIC
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT

Q

QT	QUARRY TILE

R

R	RISER, RADIUS
RAD	RADIUS
RB	RESILIENT BASE
RC	RAIN CHAIN
RD	ROOF DRAIN
REBAR	REINFORCING BAR
REC	RECESSED
REF	REFERENCE
REFL	REFLECTED
REFER	REFRIGERATOR
REINF	REINFORCED OR REINFORCING
REQD	REQUIRED
RESIL	RESILIENT
REV	REVISED, REVISION OR REVERSED
RF	ROOF, RESILIENT FLOOR
RFG	ROOFING
RGH	ROUGH
RGTR	REGISTER
RH	ROBE HOOK, RIGHT HAND
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
RWC	RAIN WATER CONDUCTOR
RWD	REDWOOD
RWL	RAIN WATER LEADER

S

S	SOUTH
SA	SINGLE ACTING
SAFB	SOUND ATTENUATION FIRE BLANKET
SB	SPLASH BLOCK
SC	SCALE OR SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SCP	SCUPPER
SCR	SCREEN
SD	SMOKE DETECTOR; SOAP DISPENSER; SOAP DISH
SEC	SECTION
SEP	SEPARATION
SF	SQUARE FOOT
SH	SHELF
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SL	SLOPE
SLDG	SLIDING
SLNT	SEALANT
SM	SHEET METAL
SND	SANITARY NAPKIN DIPOSAL
SP	SOLID PHENOLIC
SPEC	SPECIFICATION
SQ	SQUARE
SS	SOLID SURFACE
SST	STAINLESS STEEL
ST	STONE
STA	STATION
STD	STANDARD
STL	STEEL
STN	STAIN
STOR	STORAGE
STRL	STRUCTURAL
STRUC	STRUCTURE
SURR	SURROUND
SUSP	SUSPENDED
SVC	SERVICE
SW	SWITCH
SYM	SYMMETRICAL
SYS	SYSTEM

T

T	TREAD
TB	TOWEL BAR
TBB	TILE BACKER BOARD
TBD	TO BE DETERMINED
TD	TRENCH DRAIN
TEL	TELEPHONE
TEMP	TEMPERED; TEMPORARY
TG	TEMPERED GLASS
T&G	TONGUE & GROOVE
THK	THICK; THICKNESS
THR	THRESHOLD
THRU	THROUGH
TJ	TOOLED JOINT
TLT	TOILET
TO ( )	TOP OF (ITEM)
TOC	TOP OF CURB
TOP	TOP OF PAVEMENT
TOW	TOP OF WALL
TP	TOILET PARTITION
TPD	TOILET PAPER DISPENSER
TPH	TOILET PAPER HOLDER
TPT	TEXTURED PAINT
TR	TOWEL RING
TS	TENSILE STRUCTURE
TRANS	TRANSITION
TSC	TOILET SEAT COVER
TTD	TOILET TISSUE DISPENSER
TTH	TUMBLER & TOOTHBRUSH HOLDER
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL

U

UC	UNDERCUT
UL	UNDERWRITER'S LABORATORY
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UR	URINAL

V

VAR	VARIES
VAT	VINYL ASBESTOS TILE
VCT	VINYL COMPOSITION TILE
VER	VERIFY
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOL	VOLUME
VP	VENEER PLASTER
VTR	VENT THROUGH ROOF

W

W	WEST; WASHER; WIDE; WIDTH
W/	WITH
WC	WATER CLOSET; WALL COVERING
WD	WOOD
W/D	WASHER DRYER STACKED
WDW	WINDOW
WGL	WIRE GLASS
WH	WALL HYDRANT
WJ	WALL JOINT
WO	WHERE OCCURS
W/O	WITHOUT
WP	WATERPROOF
WPT	WORK POINT
WR	WATER RESISTANT
WRD	WARDROBE
WSCT	WAINSCOT
WT	WEIGHT
WHL	WEEP HOLE
WSP	WET STANDPIPE
WWF	WELDED WIRE FABRIC

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REVISIONS

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SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
ABBREVIATIONS

SCALE: 1" = 1'-0"

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	0cs4
SHEET ISSUE DATE	
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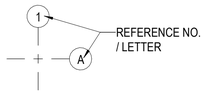
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SYMBOLS

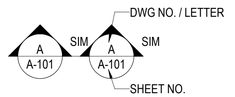
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1 View Name
SCALE: 1/8" = 1'-0"

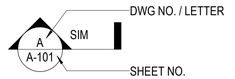
COLUMN LINE / GRID LINE



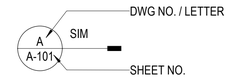
BUILDING SECTION



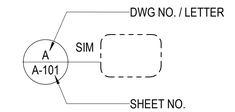
WALL SECTION OR DETAIL SECTION



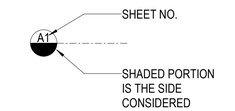
DETAIL



SECTION / DETAIL CALLOUT



MATCHLINE



ROOM TAG



AREA TAG

ELEVATION CHANGE



SLOPE



DOOR MARK



WINDOW TYPE (no. desig.)



LOUVER MARK (letter desig.)



PARTITION MARK



KEYNOTE MARK

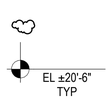


REVISION



REVISION CLOUD

FINISH CEILING ELEVATION CHANGE



WORKING POINT, CONTROL POINT OR DATUM POINT

WPT / CONTROL PT OR DATUM POINT

POINT ELEVATION

ELEVATION CALL OUT



ELEVATION CALL OUT



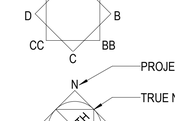
ELEVATION CALL OUT



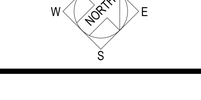
ELEVATION CALL OUT



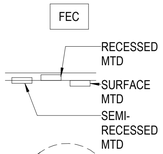
TYP JAMB CONDITION (UNO)



DIMENSIONS



FIRE EXTINGUISHER CABINET



5'-0" ADA TURNING CIRCLE



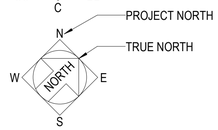
ADA MOBILIITY UNIT



ADA HEARING IMPAIRED UNIT

KEY TO INTERIOR ELEVATIONS

NORTH ARROW



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SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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SHEET NAME
ARCHITECTURAL SYMBOLS

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

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	0cs5
SHEET ISSUE DATE	
02/27/2026	

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ZONING SUMMARY

ZONING INFORMATION

ZONING DISTRICT: R-1 RESIDENTIAL & ST-P SPECIAL TREATMENT DISTRICT PUBLIC FACILITIES

FEMA FLOOD DESIGNATION: ZONE X

STATE LAND USE: URBAN DISTRICT

REQUIRED SETBACKS:
FRONT: 10'-0"
ACTUAL: 150'-0"
SIDE: 5'-0" OR 1/2 TOTAL HEIGHT OF THE BUILDING NEAREST THE REAR PROPERTY LINE
ACTUAL: 230'-0"
REAR: 5'-0" OR 1/2 TOTAL HEIGHT OF THE BUILDING NEAREST THE REAR PROPERTY LINE
ACTUAL: 360'-0"

MAX BUILDING HEIGHT: ST-P
ACTUAL BUILDING HEIGHT: 25'-6"

LOT COVERAGE:
MAX BUILDING AREA: ST-P
TOTAL LOT AREA: N/A
BUILDING AREA: N/A
LOT COVERAGE: N/A

PARKING INFORMATION

OFF-STREET PARKING REQUIREMENTS (LUO TABLE 21-6.3)

TOTAL REQUIRED: ST-P

TOTAL PROVIDED: 18

LOADING REQUIREMENTS:

TOTAL REQUIRED: N/A

TOTAL PROVIDED: 0

ADA ACCESSIBLE PARKING SPACE REQUIREMENTS:

STANDARD STALL:
TOTAL REQUIRED: 1

TOTAL PROVIDED: 1
VAN STALL:
TOTAL REQUIRED: 1

TOTAL PROVIDED: 1

ELECTRICAL VEHICLE STALLS:

TOTAL REQUIRED: 0
NOT REQUIRED IF LESS THAN 100 STALLS PROVIDED (TABLE 8-31.3.1

TOTAL PROVIDED: 2

BUILDING CODE SUMMARY

GENERAL

DESCRIPTION OF WORK:
NEW BEHAVIORAL HEALTH FACILITY CONSTRUCTION INCLUDES NEW SLAB ON GRADE AND STEM WALLS, NEW CONCRETE, CMU AND METAL STUD WALLS, NEW METAL FRAME HIP ROOF, AND METAL FRAME CANOPY. WORK INCLUDES SITE GRADING, UTILITY INSTALLATION, CONNECTING RAMP, DRIVE WAY, TURN AROUND, PARKING LOT , SEATING AREA AND LANDSCAPE AREAS TO SUPPORT THE NEW BEHAVIORAL HEALTH FACILITY.

PROJECT LOCATION AND DESCRIPTION:
4800 KAWAIHAU ROAD
KAPAA, HI 96846

THE PROJECT IS LOCATED ON THE SAMUEL MAHELONA MEMORIAL HOSPITAL CAMPUS.

TAX MAP KEY: 4-6-014:113

USE AND OCCUPANCY CLASSIFICATION

BUILDING INFORMATION:
BUILDING CLASSIFICATION (SECTION 304 & 308):
GROUP I-2 PSYCHIATRIC HOSPITALS, CONDITION 1
GROUP B OFFICE, CLINIC, OUTPATIENT

NOTES:
1. SEE LIFE SAFETY DIAGRAM ON 0cs8 FOR DETAILED OCCUPANCY INFORMATION, INCLUDING OCCUPANCY TYPE, OCCUPANCY LOAD FACTORS, AND OCCUPANCY LOADS, FOR EACH INDIVIDUAL PROGRAM SPACE.

2. SEE 0cs7 FOR OCCUPANCY LOAD AND EXIT CALCULATION

INTERIOR FINISHES

INTERIOR FINISH REQUIREMENTS BASED ON OCCUPANCY (TABLE 803.13):

GROUP	EXIT ENCL/PASSAGEWAYS	CORRIDORS	ROOM/ENCLOSED SPACES
I-2	B	B	B

NOTES:
1. REQUIREMENTS BASED ON FULLY SPRINKLERED BUILDINGS.

INTERIOR FLOOR FINISH (SEC 804.4):
CLASS I
(SECTION 804.4.2) EXCEPTION:
CLASS II MATERIALS ARE PERMITTED WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM

REFERENCE CODES

2018 INTERNATIONAL BUILDING CODE WITH COUNTY OF KAUAI AMENDMENTS
2021 UNIFORM PLUMBING CODE WITH COUNTY OF KAUAI AMENDMENTS
2020 NATIONAL ELECTRICAL CODE WITH COUNTY OF KAUAI AMENDMENTS
2018 INTERNATIONAL ENERGY CONSERVATION CODE WITH COUNTY OF KAUAI AMENDMENTS
2010 AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES – REFERENCING IBC 2003
2021 NFPA 1: UNIFORM FIRE CODE WITH COUNTY OF KAUAI AMENDMENTS
2012 NFPA 101 LIFE SAFETY CODE
2012 NFPA 99 HEALTH CARE FACILITIES CODE
DEPARTMENT OF HEALTH (DOH) HAWAII ADMINISTRATIVE RULES, TITLE 11, CH. 39 - AIR CONDITIONING AND VENTILATION
DEPARTMENT OF HEALTH (DOH) HAWAII ADMINISTATIVE RULES, TITLE 11, CH. 93 HOSPITALS

GENERAL BUILDING INFORMATION

OCCUPANCY(S): GROUP I-2, CONDITION 1 & GROUP B

TYPE OF CONSTRUCTION: TYPE II-B

FIRE PROTECTION: AUTOMATIC SPRINKLER SYSTEM THROUGHOUT

FLOOR AREA (TABLE 506.2)
ALLOWABLE: 44,000 SF, FOR I-2 OCCUPANCY
S1 = ONE STORY MAX WITH AN AUTOMATIC SPRINKLER SYSTEM
ACTUAL (AGGREGATE): 11,758 NSF

NUMBER OF STORIES / HEIGHT (FT) (TABLE 504.3 AND 504.4)
IBC ALLOWABLE: 1 / 55'-0", FOR I-2 OCCUPANCY
ACTUAL: 1 / 25'-0"

NONSEPARATED OCCUPANCY (TABLE 508.3.2): OCCUPANCY CLASSIFICATION BASED ON THE MOST RESTRICTIVE GROUP I-2.

FIRE PROTECTION SYSTEMS

AUTOMATIC SPRINKLER SYSTEMS (SEC 903.2.6):
BUILDINGS SHALL BE FULLY SPRINKLERED THROUGHOUT TO COMPLY WITH THE REQUIREMENTS FOR MIXED USE OCCUPANCIES WITH NON SEPARATED USES. MOST RESTRICTIVE OCCUPANCY IS I-2 (AUTOMATIC SPRINKLER SYSTEM REQUIRED THROUGHOUT BUILDING WITH A GROUP I FIRE AREA).

STANDPIPE SYSTEMS:
PROVIDED

PORTABLE FIRE EXTINGUISHERS:
AS REQUIRED BY INTERNATIONAL FIRE CODE. (SEE LIFE SAFETY DIAGRAM)

FIRE ALARM AND DETECTION SYSTEMS:
PROVIDED

NOTES:
1. SEE ELEC, MECH, AND FIRE PROTECTION SHEETS FOR FIRE PROTECTION SYSTEMS AND REQUIREMENTS

COMPLIANCE NOTES/APPLICATIONS

1. THIS PROJECT IS SUBJECT TO CONFORMANCE WITH THE DESIGN AND CONSTRUCTION REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES ADMINISTERED BY THE DEPARTMENT OF JUSTICE.

2. ENERGY CONFORMANCE STATEMENT AND BLOCK:

COUNTY OF KAUA'I
CHAPTER 12, KAUA'I COUNTY BUILDING CODE
KAUA'I COUNTY CODE 1987, AS AMENDED
ARTICLE 6 - ENERGY CONSERVATION CODE

To the best of my knowledge, this project's design substantially conforms to:
Section 12-6.3 Adoption of the International Energy Conservation Code (IECC)
Section 12-6.4 Local Amendments to the IECC
For **building envelope components** (Section C402).

	COMPLIANCE METHOD Check applicable method
☐	2018 IECC as amended. Mandatory & Prescriptive
☐	2018 IECC as amended. Mandatory & Total Building Performance
☐	ASHRAE Standard 90.1 Mandatory & Prescriptive
☐	ASHRAE Standard 90.1 Mandatory & Energy Cost Budget

INFORMATION IN CONSTRUCTION DOCUMENTS	**YES**	**N/A**
Roof insulation R-value	☐	☐
Roof insulation type and location	☐	☐
Roof membrane solar reflectance and thermal emittance	☐	☐
Wall insulation R-value	☐	☐
Wall insulation type and location	☐	☐
Window SHGC	☐	☐
Window U-factor	☐	☐
Skylight SHGC	☐	☐
Skylight U-factor	☐	☐

Signature: _____ Date: _____
Name: _____
Title: _____
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FIRE RESISTANCE RATINGS

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601):

BUILDING ELEMENT	FIRE RESISTANCE RATING (HRS)
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	
• EXTERIOR	0
• INTERIOR	0
NONBEARING WALLS AND PARTITIONS	
• EXTERIOR	0
• INTERIOR	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS (TABLE 602):

FIRE SEPARATION DISTANCE	CONSTRUCTION TYPE	GROUP I-2 OCCUPANCY
X <5'	ALL	1 HOUR
X > OR = 5' AND < 10'	ALL (EXCEPT IA)	1 HOUR
X > OR = 10' AND < 30'	IIB, VB	0 HOUR
X > OR = 30'	ALL	0 HOUR

BUILDINGS ON THE SAME LOT (SEC 705.3):
THE NEW PATIENT FACILITY IS SITED NEXT TO THE EXISTING HOSPITAL BUILDING, WITH 34'-10" BETWEEN THE NEW ROOF EAVE AND THE EXISTING EXTERIOR WALL.

FIRE-RESISTANCE RATINGS (SEC 705.5):
EXTERIOR WALLS SHALL BE FIRE-RESISTANCE RATED IN ACCORDANCE WITH TABLES 601 AND 602. THE FIRE-RESISTANCE RATING OF EXTERIOR WALLS WITH A FIRE SEPARATION DISTANCE OF GREATER THAN 10 FEET SHALL BE RATED FOR EXPOSURE TO FIRE FROM THE INSIDE.

MAXIMUM AREA OF EXTERIOR WALL OPENINGS (TABLE 705.8):
AREA OF PROTECTED/UNPROTECTED OPENINGS IN EXTERIOR WALLS SHALL BE UNLIMITED FOR EXTERIOR WALLS HAVING A FIRE SEPARATION DISTANCE OF GREATER THAN 30'-0".

PLUMBING FIXTURES

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES (TABLE 2902.1):

OCCUPANCY(S): INSTITUTIONAL
TOTAL OCCUPANT LOAD (TABLE 1004.5): 53

WATERCLOSETS: 1 PER 10
PROVIDED: 10
LAVATORIES: 1 PER 10
PROVIDED: 14
BATHTUBS OR SHOWERS: 1 PER 15
PROVIDED: 6
DRINKING FOUNTAINS: 1 PER 100
PROVIDED: 1
OTHER: 2 SERVICE SINKS PROVIDED

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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SHEET NAME
BUILDING CODE SUMMARY, ZONING SUMMARY

SCALE:

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221093-01	0cs6
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OCCUPANT LOAD (TABLE 1004.5):

ROOM NO.	ROOM NAME	AREA	OLF	OCCUPANCY LOAD	FUNCTION
STAFF AREAS					
11	SECURITY TLT ADA	45 SF	150	0.3	BUSINESS
13	EQUIPMENT ROOM	67 SF	150	0.4	BUSINESS
14	BREAK ROOM	182 SF	150	1.2	BUSINESS
15	TLT & SHW	74 SF	150	0.5	BUSINESS
16	STAFF CORRIDOR	445 SF	150	3.0	BUSINESS
17	OFFICE (1)	114 SF	150	0.8	BUSINESS
18	OFFICE (1)	114 SF	150	0.8	BUSINESS
19	OFFICE (1)	114 SF	150	0.8	BUSINESS
22	COPIER WRKRM	72 SF	150	0.5	BUSINESS
25	CHART	191 SF	150	1.3	BUSINESS
26	TLT	37 SF	150	0.2	BUSINESS
27	MED RM	117 SF	150	0.8	BUSINESS
40	NURSE STATION	262 SF	240	1.1	INPATIENT TREATMENT AREAS
57	NOURISH	91 SF	240	0.4	INPATIENT TREATMENT AREAS
58	CLEAN	69 SF	240	0.3	INPATIENT TREATMENT AREAS
66	SOILED	79 SF	240	0.3	INPATIENT TREATMENT AREAS
67	TRASH	56 SF	240	0.2	INPATIENT TREATMENT AREAS
68	VESTIBULE	44 SF	240	0.2	INPATIENT TREATMENT AREAS
70	IP PAT BELONG	95 SF	240	0.4	INPATIENT TREATMENT AREAS
72	SALLYPORT	109 SF	240	0.5	INPATIENT TREATMENT AREAS
73	SECURITY	194 SF	150	1.3	BUSINESS
75	TRANSPORT LOBBY	150 SF	150	1.0	BUSINESS
STAFF AREAS		2721 SF		16.1	
PUBLIC AREAS					
1	IP LOBBY	419 SF	150	2.8	BUSINESS
4	CONFERENCE	160 SF	150	1.1	BUSINESS
9	TLT ADA	47 SF	150	0.3	BUSINESS
10	SALLYPORT	51 SF	150	0.3	BUSINESS
12	CORRIDOR	166 SF	150	1.1	BUSINESS
PUBLIC AREAS		843 SF		5.6	
PATIENT AREAS					
28	CONSULT	120 SF	240	0.5	INPATIENT TREATMENT AREAS
29	PATIENT ROOM 6	115 SF	240	0.5	INPATIENT TREATMENT AREAS
30	PATIENT ROOM 5	115 SF	240	0.5	INPATIENT TREATMENT AREAS
31	PATIENT ROOM 3	115 SF	240	0.5	INPATIENT TREATMENT AREAS
32	PATIENT ROOM 1	115 SF	240	0.5	INPATIENT TREATMENT AREAS
33	CORRIDOR	455 SF	240	1.9	INPATIENT TREATMENT AREAS
34	PATIENT ROOM 2	108 SF	240	0.4	INPATIENT TREATMENT AREAS
35	EXIT 1	57 SF	240	0.2	INPATIENT TREATMENT AREAS
37	TLT/SHWR ADA	98 SF	240	0.4	INPATIENT TREATMENT AREAS
38	SHW	40 SF	240	0.2	INPATIENT TREATMENT AREAS
39	TLT	49 SF	240	0.2	INPATIENT TREATMENT AREAS
41	DAYROOM	1594 SF	240	6.6	INPATIENT TREATMENT AREAS
42	TEL	26 SF	240	0.1	INPATIENT TREATMENT AREAS
43	TLT ADA	48 SF	240	0.2	INPATIENT TREATMENT AREAS
44	TLT	40 SF		0.0	
45	SHW	41 SF	240	0.2	INPATIENT TREATMENT AREAS
46	TLT/SHWR ADA	100 SF	240	0.4	INPATIENT TREATMENT AREAS
47	PATIENT ROOM 7	115 SF	240	0.5	INPATIENT TREATMENT AREAS
48	PATIENT ROOM 9	115 SF	240	0.5	INPATIENT TREATMENT AREAS
49	CORRIDOR	420 SF	240	1.8	INPATIENT TREATMENT AREAS
50	PATIENT ROOM 10	108 SF	240	0.4	INPATIENT TREATMENT AREAS
52	PATIENT ROOM 8 (ADA)	129 SF	240	0.5	INPATIENT TREATMENT AREAS
53	HSKP	64 SF		0.0	
54	QUIET	91 SF	240	0.4	INPATIENT TREATMENT AREAS
55	LAUNDRY	89 SF	240	0.4	INPATIENT TREATMENT AREAS
56	LARGE THERAPY/ CRAFT	250 SF	240	1.0	INPATIENT TREATMENT AREAS
59	ANTE	54 SF	240	0.2	INPATIENT TREATMENT AREAS
60	TLT & SHW	63 SF	240	0.3	INPATIENT TREATMENT AREAS
61	CORRIDOR	278 SF	240	1.2	INPATIENT TREATMENT AREAS
62	SECLUSION	105 SF	240	0.4	INPATIENT TREATMENT AREAS
63	VISIT/TELE	114 SF	240	0.5	INPATIENT TREATMENT AREAS
64	VISIT/INTAKE/DISCHARGE	124 SF	240	0.5	INPATIENT TREATMENT AREAS
PATIENT AREAS		5353 SF		21.9	
OUTPATIENT					
3	STAFF CORRIDOR	144 SF	150	1.0	BUSINESS
7	STAFF TLT	36 SF	150	0.2	BUSINESS
79	CR QUIET ROOM	56 SF	150	0.4	BUSINESS
81	CR NURSE STATION	170 SF	150	1.1	BUSINESS
OUTPATIENT		407 SF		2.7	
OUTDOOR SPACE					
76	SECURED YARD	2225 SF		0.0	
OUTDOOR SPACE		2225 SF		0.0	

ROOM NO.	ROOM NAME	AREA	OLF	OCCUPANCY LOAD	FUNCTION
MEP/BOH					
	CHASE	86 SF	300	0.3	ACCESSORY
8	DATA ROOM	80 SF	300	0.3	ACCESSORY
23	ELEC PANEL	18 SF	300	0.1	ACCESSORY
65	HW	39 SF	300	0.1	ACCESSORY
69	FIRE	33 SF	300	0.1	ACCESSORY
71	ELEC	92 SF	300	0.3	ACCESSORY
74	SECURITY/ ELECTRONICS	96 SF	300	0.3	ACCESSORY
MEP/BOH		444 SF		1.5	
2	ALCOVE	0 SF		0.0	
5	CR PAT BELONG	67 SF		0.0	
6	CR LOBBY/ WAITING	84 SF		0.0	
20	SHARED OFFICE (2)	119 SF		0.0	
21	EXIT 3	56 SF		0.0	
24	HSKP	22 SF		0.0	
36	PATIENT ROOM 4 (ADA)	126 SF		0.0	
51	EXIT 2	57 SF		0.0	
77	CR INTAKE/CONSULT	88 SF		0.0	
78	CR PATIENT TOILET	48 SF		0.0	
80	CR OBSERVATION	427 SF		0.0	
82	CR PATIENT SHOWER	43 SF		0.0	
83	OFFICE (1)	110 SF		0.0	
84	OFFICE (1)	104 SF		0.0	
85	STORAGE	29 SF		0.0	
		1380 SF		0.0	
GRAND TOTALS		13373 SF		47.8	

STAIRWAY WIDTH (SEC 1005.3.1)

EGRESS WIDTH PER OCCUPANT SERVED (INCHES PER OCCUPANT): 0.3 x 55 OCCUPANT LOAD = 18
48" MIN STAIRWAY WIDTH

OTHER EGRESS WIDTH (SEC 1005.3.2)

EGRESS WIDTH PER OCCUPANT SERVED (INCHES PER OCCUPANT): 0.15 x 53 OCCUPANT LOAD = 7.95
36" MIN EGRESS OPENING
(EXCEPTION FOR BUILDINGS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM)

EXIT AND EXIT ACCESS DOORWAYS (TABLE 1006.2.1)

WITH AUTOMATIC SPRINKLER SYSTEM
OCCUPANCY B: MAXIMUM OCCUPANT LOAD OF 49 FOR ONE EXIT
OCCUPANCY I-2: MAXIMUM OCCUPANT LOAD OF 10 FOR ONE EXIT

COMMON PATH OF TRAVEL(TABLE 1006.2.1)

OCCUPANCY B - SHALL NOT EXCEED 100' - 0"
OCCUPANCY I-2 - SHALL NOT EXCEED 75'-0"

NUMBER OF EXITS PER STORY (TABLE 1006.3.2)

OCCUPANT LOAD: 1 - 500
MINIMUM NUMBER OF EXITS (PER STORY): 2

EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)

WITH SPRINKLER SYSTEM
OCCUPANCY B: MAXIMUM EXIT ACCESS TRAVEL DISTANCE = 300' - 0"
OCCUPANCY I-2: MAXIMUM EXIT ACCESS TRAVEL DISTANCE = 200'-0"

CORRIDOR FIRE RESISTIVE RATING (TABLE 1020.1)

WITH SPRINKLER SYSTEM
OCCUPANCY B REQUIRED FIRE-RESISTANCE RATING (HOURS): 0
OCCUPANCY I-2 REQUIRED FIRE-RESISTANCE RATING (HOURS): 0

CORRIDOR WIDTH (TABLE 1020.2)

GROUP I-2 IN AREAS WHERE REQUIRED FOR BED MOVEMENT = 96"
MINIMUM WIDTH = 44"

DEAD END CORRIDORS (SEC 1020.4)

THE LENGTH OF DEAD-END CORRIDORS SHALL NOT EXCEED 20'.
EXCEPTION 2: IN OCCUPANCIES IN GROUPS B, E, F, I-1, M. R-1, R-4, S AND U WHERE THE BUILDING IS EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM, THE LENGTH OF THE DEAD END CORRIDOR SHALL NOT EXCEED 50 FEET.

ACCESSIBLE MEANS OF EGRESS REQUIRED (SEC 1009.1)

WHERE MORE THAN ONE MEANS OF EGRESS IS REQUIRED, EACH SPACE SHALL BE SERVED BY NOT LESS THAN TWO ACCESSIBLE MEANS OF EGRESS PROVIDED: 2

AREA OF REFUGE (SEC 1009.4.2)

EVERY REQUIRED AREA OF REFUGE SHALL BE ACCESSIBLE FROM THE SPACE IT SERVES BY AN ACCESSIBLE MEAN OF EGRESS

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TMK#: 4-6-014:113

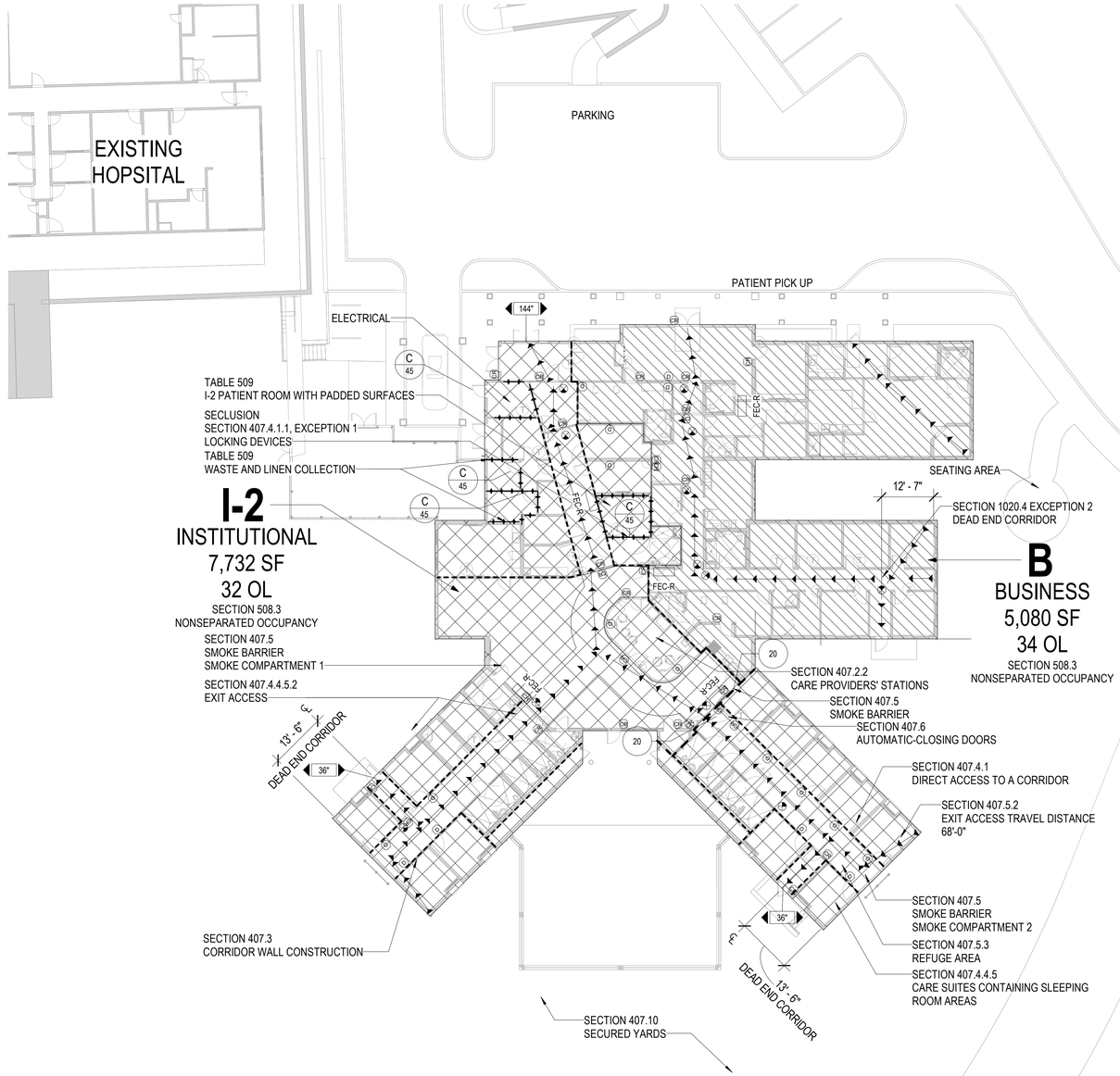
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SHEET NAME
OCCUPANCY LOAD AND EXIT CALCULATION

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LIFE SAFETY LEGEND

- 2 HOUR FIRE RATED
- 1 HOUR FIRE RATED
- SMOKE BARRIER
- SMOKE PARTITION
- FEC-S FEC-R FEC-SR — FIRE EXTINGUISHER CABINET
- 36" — EXIT WIDTH
- 20 — 20 MINUTE DOOR RATED ASSEMBLY
- C / 45 — 45 MINUTE RATED CLASS "C" DOOR RATED ASSEMBLY
- B / 60 — 1 HOUR RATED CLASS "B" DOOR RATED ASSEMBLY
- B / 90 — 1-1/2 HOUR RATED CLASS "B" DOOR RATED ASSEMBLY
- EGRESS PATH AND TRAVEL DISTANCE
- EXIT SIGN
- I-2 INSTITUTIONAL
- B BUSINESS

1 LIFE SAFETY DIAGRAM
SCALE: 1/16" = 1'-0"

N W E S NORTH

16' 8' 0' 16' 32'

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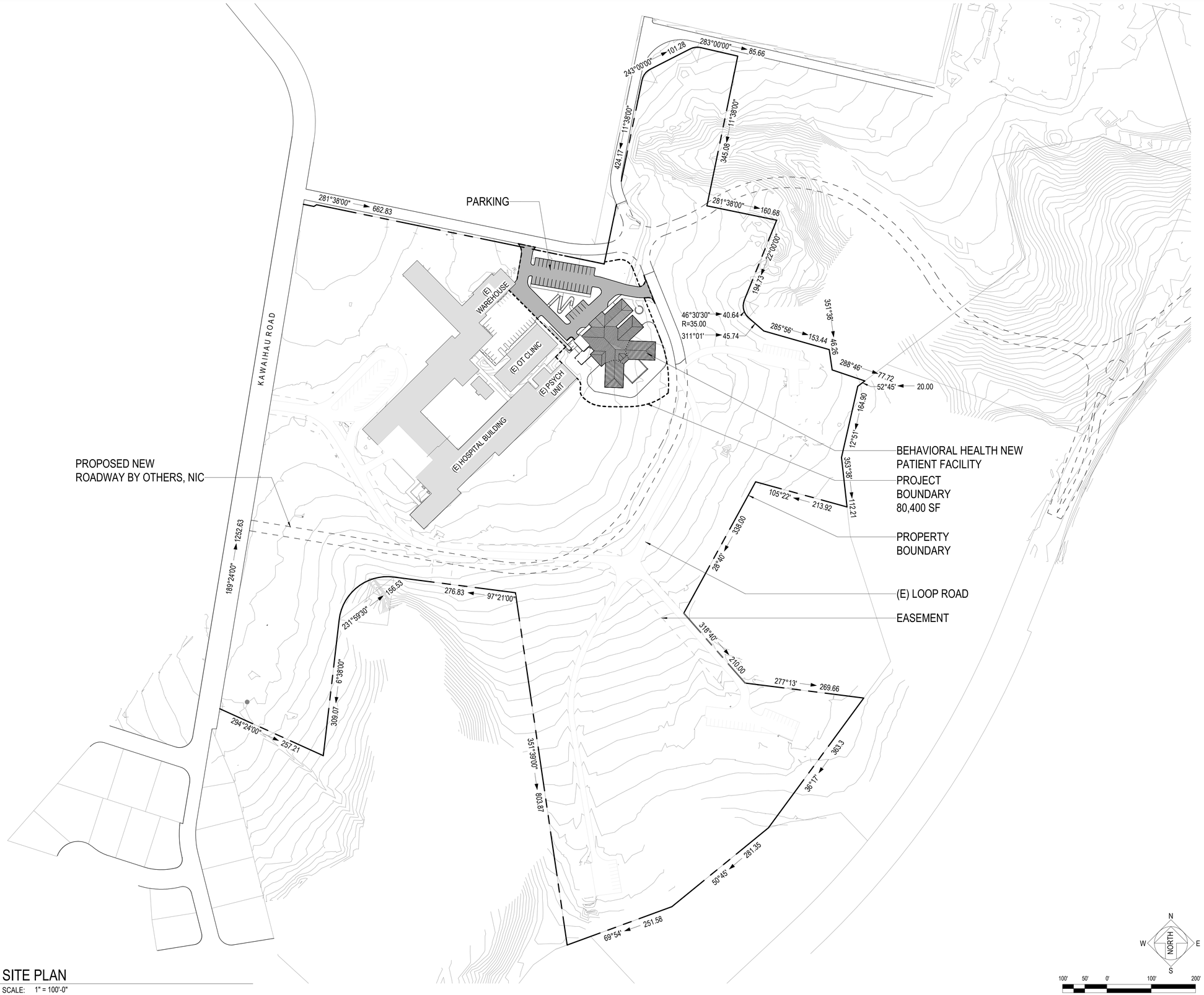
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LIFE SAFETY DIAGRAM

SCALE: 1" = 10'-0"

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1 SITE PLAN
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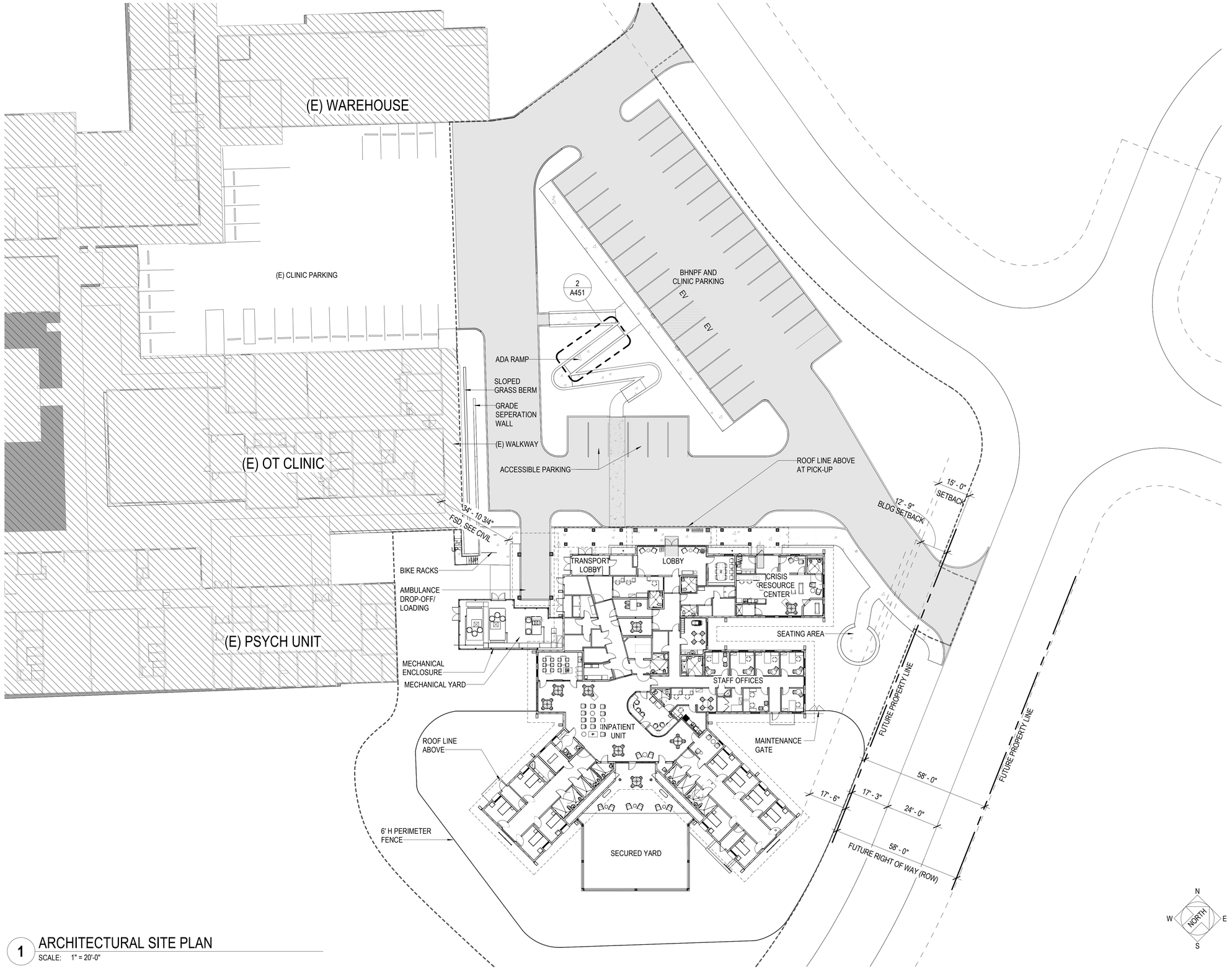
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1 ARCHITECTURAL SITE PLAN
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SHEET NAME
ARCHITECTURAL SITE PLAN

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WATER POLLUTION AND EROSION CONTROL NOTES

1. GENERAL:
   A. THE CONTRACTOR SHALL FOLLOW THE GUIDELINES IN THE "INTERIM BEST MANAGEMENT PRACTICES MANUAL FOR CONSTRUCTION SITES FOR THE COUNTY OF KAUA'I, APRIL 2004" IN DEVELOPING, INSTALLING AND MAINTAINING THE BEST MANAGEMENT PRACTICES (BMP'S) FOR THE PROJECT. THE CONTRACTOR MAY SUBMIT ALTERNATE METHODS TO THE COUNTY FOR ACCEPTANCE.
   B. THE CONTRACTOR SHALL KEEP A COPY OF THE APPROVED BMP PLAN, NOI, ETC. ON THE PROJECT SITE. THE BMP PLAN SHALL BE UPDATED TO REFLECT ANY CHANGES MADE DURING THE COURSE OF CONSTRUCTION FOR THE DURATION OF THE PROJECT.
   C. THE ENGINEER MAY ASSESS DAMAGES OF UP TO $27,500 FOR NON-COMPLIANCE OF EACH BMP REQUIREMENT AND EACH REQUIREMENT STATED IN SECTION 209, FOR EVERY DAY ON NON-COMPLIANCE. THERE IS NO MAXIMUM LIMIT ON THE AMOUNT ASSESSED PER DAY.
   D. THE ENGINEER WILL DEDUCT THE COST FROM THE PROGRESS PAYMENT THE COSTS OF ALL CITATIONS RECEIVED FOR NON-COMPLIANCE, OR THE CONTRACTOR/OWNER SHALL REIMBURSE THE OWNER FOR THE FULL AMOUNT OF ALL OUTSTANDING COSTS INCURRED.
2. WASTE DISPOSAL:
   A. WASTE MATERIALS: ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER THAT DOES NOT LEAK. THE DUMPSTER SHALL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER SHALL BE EMPTIED AT A MINIMUM OF TWICE PER WEEK OR AS OFTEN AS IS DEEMED NECESSARY. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ONSITE. THE CONTRACTOR'S SUPERVISORY PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES SHALL BE POSTED IN THE OFFICE TRAILER AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.
   B. HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS OR BY THE MANUFACTURER. THE CONTRACTORS SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES AND SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.
   C. SANITARY WASTE: ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK, OR AS REQUIRED.
3. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:
   A. ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS FOLLOWING ANY RAINFALL EVENT OF 0.5 INCHES OR GREATER.
   B. ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS AFTER THE INSPECTION.
   C. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
   D. SILT SCREEN OR FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO VERIFY THAT THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS OR CONCRETE SLAB AND TO VERIFY THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
   E. TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASH OUTS AND HEATHY GROWTH.
   F. THE CONTRACTOR SHALL SUBMIT TO THE COUNTY A MAINTENANCE INSPECTION REPORT PROMPTLY AFTER EACH WEEKLY INSPECTION.
   G. THE CONTRACTOR SHALL SELECT A MINIMUM OF THREE PERSONNEL WHO SHALL BE RESPONSIBLE FOR INSPECTION, MAINTENANCE AND REPAIR ACTIVITIES AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
   H. PERSONNEL SELECTED FOR THE INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE CONTRACTOR. THEY SHALL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
   I. ALL SLOPES AND EXPOSED AREAS SHALL BE GRASSED AS FINAL GRADES HAVE BEEN ESTABLISHED. GRADING TO FINAL GRADE SHALL BE CONTINUOUS, AND ANY AREA IN WHICH WORK HAS BEEN INTERRUPTED OR DELAYED OR EXPOSED FOR MORE THAN 15 DAYS SHALL BE GRASSED IN ORDER TO PREVENT DUST EMISSION, EROSION AND SILT RUNOFF. AREAS WITH IMPORTED SOILS SHALL BE GRASSED NOT MORE THAN 5 WORKING DAYS AFTER THE FINAL GRADES HAVE BEEN ESTABLISHED.
   J. TEMPORARY EROSION CONTROL SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.
4. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:
   A. MATERIALS POLLUTION PREVENTION PLAN:
   - APPLICABLE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION. OTHER MATERIALS AND SUBSTANCES NOT LISTED BELOW SHALL BE ADDED TO THE INVENTORY OF THE CONSTRUCTION CONTRACTOR'S SITE-SPECIFIC BMP PLAN.

CONCRETE	FERTILIZERS
DETERGENTS	PETROLEUM BASED PRODUCTS
PAINTS (ENAMEL AND LATEX)	CLEANING SOLVENTS
METAL STUDS	WOOD
TAR	MASONRY BLOCK

   - MATERIAL MANAGEMENT PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF. AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCTS AS IS REQUIRED TO DO THE JOB.
   - ALL MATERIALS STORED ONSITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
   - PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURES LABEL.
   - SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
   - A PRODUCT SHALL BE USED UP COMPLETELY BEFORE DISPOSING OF THE CONTAINER.
   - MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
   - THE CONTRACTOR SHALL CONDUCT A DAILY INSPECTION TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

   B. HAZARDOUS MATERIAL POLLUTION PREVENTION PLAN:
   - PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
   - ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS (MSDS) SHALL BE RETAINED AND MADE AVAILABLE TO THE COUNTY UPON REQUEST.
   - SURPLUS PRODUCTS SHALL BE DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR LOCAL AND STATE RECOMMENDED REGULATIONS.
   - HAZARDOUS MATERIAL CONTAINERS ONSITE SHALL NOT BE STORED ON THE GROUND AND SHALL BE STORED AND MAINTAINED UNDER COVER AND FULLY PROTECTED FROM RAINFALL.

   C. ONSITE AND OFFSITE PRODUCTS SPECIFIC PLANS:
   THE FOLLOWING PRODUCTS SPECIFIC PRACTICES SHALL BE FOLLOWED ONSITE:
   - PETROLEUM BASED PRODUCTS: ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVED REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION. FERTILIZERS: APPLY FERTILIZERS USED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, WORK FERTILIZER INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE SHALL BE KEPT IN A COVERED SHED. TRANSFER THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
   - PAINTS: SEAL AND STORE ALL CONTAINERS WHEN NOT REQUIRED FOR USE. DO NOT DISCHARGE EXCESS PAINT TO THE ROADWAY DRAINAGE SYSTEM. DISPOSE PROPERLY ACCORDING TO THE MANUFACTURER'S INSTRUCTION OR STATE AND LOCAL REGULATIONS.
   - CONCRETE TRUCKS: WASH OUT OR DISCHARGE CONCRETE TRUCK DRUM WASH WATER ONLY AT A DESIGNATED SITE. DO NOT DISCHARGE WATER IN THE ROADWAY DRAINAGE SYSTEM OR WATERS OF THE UNITED STATES. CONTACT DRINKING WATER BRANCH, DEPARTMENT OF HEALTH AT (808) 586-4309 TO RECEIVE PERMISSION TO DESIGNATE A DISPOSAL SITE. CLEAN DISPOSAL SITE AS REQUIRED OR AS REPRESENTED BY THE OWNER'S REPRESENTATIVE.

   D. SPILL CONTROL PLAN:
   - POST A SPILL PREVENTION PLAN TO INCLUDE MEASURES TO PREVENT AND CLEAN UP EACH SPILL.
   - THE CONTRACTOR SHALL BE THE PREVENTION AND CLEAN-UP COORDINATOR. DESIGNATE AT LEAST THREE SITE PERSONNEL WHO SHALL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS SHALL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. POST THE NAMES OF RESPONSIBLE SPILL PERSONNEL IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.
   - CLEARLY POST MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP. MAKE SITE PERSONNEL AWARE OF THE PROCEDURES AND THE LOCATION OF INFORMATION AND CLEANUP SUPPLIES.
   - KEEP MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP IN THE MATERIAL STORAGE AREA ONSITE.
   - CLEAN UP ALL SPILLS IMMEDIATELY AFTER DISCOVERY.
   - KEEP THE SPILL AREA WELL VENTILATED. PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH HAZARDOUS SUBSTANCES.
   - REPORT SPILLS OF TOXIC HAZARDOUS MATERIAL TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF SIZE.

5. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS:
   A. THE CONTRACTOR SHALL APPLY FOR, OBTAIN AND COMPLY WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS FOR KAUA'I DISTRICT PERMIT PROJECTS. THIS IS AVAILABLE AT THE KAUA'I DISTRICT OFFICE AT 3040 UMI STREET, SUITE 205. DUE TO POTENTIAL COSTS AND IMPACTS, THE CONTRACTOR NEEDS TO BE AWARE OF THESE REQUIREMENTS.
   B. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS FOR ALL PROJECTS WHICH WILL DISTURB ONE (1) ACRE OR MORE OF LAND. THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL NOTICE OF GENERAL PERMIT COVERAGE (NGPC) IS RECEIVED FROM THE DEPARTMENT OF HEALTH, STATE OF HAWAI'I AND HAS SATISFIED ANY OTHER APPLICABLE REQUIREMENTS OF THE NPDES PERMIT PROGRAM.
   C. THE CONTRACTOR SHALL COMPLETE AND SUBMIT A CONTRACTOR'S CERTIFICATION OF NPDES COMPLIANCE, INCLUDING COMPLETION OF THE BEST MANAGEMENT PRACTICE (BMP) CHECKLIST AND SUBMITTAL OF A WRITTEN BMP PLAN AND DRAWINGS, PRIOR TO ISSUANCE OF THE PERMIT TO PERFORM WORK UPON COUNTY ROADWAYS.

GRADING NOTES (PRIVATE)

1. ALL GRADING WORK SHALL CONFORM TO THE EROSION AND SEDIMENTATION CONTROL STANDARDS AND GUIDELINES ESTABLISHED BY THE DEPARTMENT OF PUBLIC WORKS IN CONFORMANCE WITH ACT 249, SLH 1974 AS AMENDED, AND SOILS REPORT BY **KOKUA GEOTECH LLC. DATED DECEMBER 10, 2021**
2. NO CONTRACTOR SHALL PERFORM ANY GRADING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS OR NATURAL WATERCOURSES. SHOULD SUCH VIOLATIONS OCCUR, THE CONTRACTOR MAY BE CITED AND THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REMEDIAL ACTIONS NECESSARY.
3. THE CONTRACTOR, AT HIS/HER OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS CONTAINED IN THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 60.1, "AIR POLLUTION CONTROL".
4. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS/HER SEARCH OF AVAILABLE RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
5. ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATERS FROM DAMAGING THE CUT FACE OF AN EXCAVATION OR THE SLOPED SURFACES OF A FILL. FURTHERMORE, ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE SITE.
6. ALL SLOPES AND EXPOSED AREAS SHALL BE MULCHED, SODDED OR PLANTED AS SOON AS FINAL GRADES HAVE BEEEN ESTABLISHED. PLANTING SHALL NOT BE DELAYED UNTIL ALL GRADING WORK HAS BEEN COMPLETED. GRADING TO FINAL GRADE SHALL BE CONTINUOUS, AND ANY AREA WITHIN WHICH WORK HAS BEEN INTERRUPTED OR DELAYED SHALL BE PLANTED.
7. FILLS ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED.
8. THE KAUA'I COUNTY DEPARTMENT OF PUBLIC WORKS SHALL BE INFORMED OF THE LOCATION OF THE BORROW/DISPOSAL SITE FOR THE PROJECT WHEN THE APPLICATION FOR A GRADING PERMIT IS MADE. THE BORROW/DISPOSAL SITE MUST ALSO FULFILL THE REQUIREMENTS OF THE GRADING ORDINANCE.
9. NO GRADING WORK SHALL BE DONE ON SATURDAYS, SUNDAYS AND HOLIDAYS AT ANY TIME WITHOUT PRIOR NOTICE TO THE DPW, PROVIDED SUCH GRADING WORK IS ALSO IN CONFORMANCE WITH THE COMMUNITY NOISE CONTROL STANDARDS CONTAINED IN THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 46, "COMMUNITY NOISE CONTROL".
10. THE LIMITS OF THE AREA TO BE GRADED SHALL BE FLAGGED BEFORE THE COMMENCEMENT OF THE GRADING WORK.
11. THE GENERAL CONTRACTOR/DEVELOPER/OWNER OF THE PROJECT SHALL BE RESPONSIBLE FOR CONFORMANCE WITH APPLICABLE PROVISIONS OF THE HAWAII ADMINISTRATIVE RULES, TITLE 11, CHAPTER 54, "WATER QUALITY STANDARDS," AND TITLE 11, CHAPTER 55, "WATER POLLUTION CONTROL", AS AMENDED. BEST MANAGEMENT PRACTICES SHALL BE EMPLOYED AT ALL TIMES DURING CONSTRUCTION.

    THE GENERAL CONTRACTOR hOF THE PROJECT SHALL OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE(S) FOR THE FOLLOWING:

    1. STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES THAT DISTURB ONE (1) ACRE OR MORE, AND
    2. DISCHARGES OF HYDROTESTING EFFLUENT, DEWATERING EFFLUENT, AND WELL DRILLING EFFLUENT TO STATE WATERS.

    IN ACCORDANCE WITH STATE LAW, ALL DISCHARGES RELATED TO PROJECT CONSTRUCTION OR OPERATIONS ARE REQUIRED TO COMPLY WITH STATE WATER QUALITY STANDARDS (HAWAII ADMINISTRATIVE RULES, CHAPTER 11-54). BEST MANAGEMENT PRACTICES SHALL BE USED TO MINIMIZE OR PREVENT THE DISCHARGE OF SEDIMENT, DEBRIS, AND OTHER POLLUTANTS TO STATE WATERS. PERMIT COVERAGE IS AVAILABLE FROM THE DEPARTMENT OF HEALTH, CLEAN WATER BRANCH AT http://health.hawaii.gov/cwb. THE OWNER/DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR OBTAINING OTHER FEDERAL, STATE OR LOCAL AUTHORIZATIONS AS REQUIRED BY LAW.
12. WHERE APPLICABLE AND FEASIBLE THE MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS SHALL BE IN PLACE BEFORE ANY EARTH MOVING PHASE OF THE GRADING IS INITIATED.
13. TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED.
14. TEMPORARY EROSION CONTROL PROCEDURES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO APPLICATION FOR GRADING PERMIT.
15. IF THE GRADING WORK INVOLVES CONTAMINATED SOIL, THEN ALL GRADING WORK SHALL BE DONE IN CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS.
16. THE CONTRACTOR SHALL NOTIFY THE ENGINEERING DIVISION, D.P.W. AT 241-4883 TO ARRANGE FOR INSPECTION SERVICES AND SUBMIT TWO (2) SETS OF APPROVED CONSTRUCTION PLANS SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION WORK.
17. PURSUANT TO CHAPTER 6E, HRS, IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK AND NOTIFY THE KAUAI POLICE DEPARTMENT, THE STATE DEPARTMENT OF LAND AND NATURAL RESOURCES-HISTORIC PRESERVATION DIVISION (692-8015). IN ADDITION, FOR NON-CITY PROJECTS, THE CONTRACTOR SHALL INFORM THE CIVIL ENGINEERING BRANCH, D.P.P. (768-8084); AND FOR CITY PROJECTS, NOTIFY THE RESPONSIBLE CITY AGENCY.
18. FOR ALL PROJECTS, WHICH WILL DISTURB ONE (1) ACRE OR MORE OF LAND, THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL A NOTICE OF GENERAL PERMIT COVERAGE (NGPC) IS RECEIVED FROM THE DEPARTMENT OF HEALTH, STATE OF HAWAII, AND HAS SATISFIED ANY OTHER APPLICABLE REQUIREMENTS OF THE NPDES PERMIT PROGRAM. ALSO, FOR NON-CITY AND OTHER NON-GOVERNMENTAL AGENCY PROJECTS, THE CONTRACTOR SHALL PROVIDE A WRITTEN COPY OF THE NGPC TO THE PERMITTING AND INSPECTION SECTION, CIVIL ENGINEERING BRANCH, D.P.P., AT LEAST SEVEN (7) CALENDAR DAYS BEFORE THE START OF THE CONSTRUCTION. FOR CITY OR OTHER GOVERNMENTAL PROJECTS, THE CONTRACTOR SHOULD PROVIDE A WRITTEN COPY OF THE NGPC TO THE APPROPRIATE CITY DEPARTMENT OR GOVERNMENTAL AGENCY PER THEIR REQUIREMENTS.
19. ALL GRADING AND CONSTRUCTION WORK SHALL IMPLEMENT MEASURES TO ENSURE THAT THE DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE WILL BE REDUCED TO THE MAXIMUM EXTENT PRACTICABLE AND WILL NOT CAUSE OR CONTRIBUTE TO AN EXCEEDANCE OF WATER QUALITY STANDARDS.
20. NON-COMPLIANCE TO ANY OF THE ABOVE REQUIREMENTS SHALL MEAN IMMEDIATE SUSPENSION OF ALL WORK, AND REMEDIAL WORK SHALL COMMENCE IMMEDIATELY. ALL COSTS INCURRED SHALL BE BILLED TO THE VIOLATOR. FURTHERMORE, VIOLATORS SHALL BE SUBJECTED TO ADMINISTRATIVE, CIVIL AND/OR CRIMINAL PENALTIES.
21. FOR BENCH MARK, LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF KAWAIHAU AND NUNU ROADS 30 FT. WEST OF THE CORNER OF THE CHAIN LINK FENCE "K-1" RAILROAD SPIKE, ELEV.=138.08 FT. MSL

TEMPORARY DUST CONTROL MEASURES FOR GRADING

1. THE GRADED OR PROJECT SITE THAT IS CLEARED OF VEGETATION SHALL BE KEPT DAMP WITH WATER CONTINUOUSLY FOR SEVEN (7) DAYS A WEEK. AT THE END OF EACH DAY, THE SITE SHALL BE SUFFICIENTLY DAMPENED WITH WATER ON A CONTINUAL BASIS SO THAT THE SITE WILL REMAIN MOISTENED DURING THE NIGHT.
2. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO THAT EXCAVATION, EMBANKMENT AND IMPORTED MATERIAL SHALL BE DAMPENED WITH WATER ON A CONTINUAL BASIS TO PREVENT DUST PROBLEMS.
3. IN APPLYING FOR A GRADING PERMIT, THE CONTRACTOR SHALL SUBMIT PLANS, SCHEDULES AND/OR WRITTEN MEASURES WHICH PROVIDES FOR DUST CONTROL. THE DUST CONTROL MEASURES SHALL CONTAIN POSITIVE STATEMENTS WHICH REQUIRE ACTIONS OR WORK THAT PREVENT DUST PROBLEMS. NO PERMIT WILL BE ISSUED UNLESS THE COUNTY IS ASSURED THAT DUST AND EROSION PROBLEMS WILL BE MINIMIZED.
4. TEMPORARY VEGETATIVE COVER SHALL BE PLANTED WITHIN A PERIOD OF 30 CALENDAR DAYS AFTER THE SITE HAS BEEN GRADED OR BARED OF VEGETATION OR IF THE SITE WILL BE SUSPENDED FOR MORE THAN 30 CALENDAR DAYS.
5. TEMPORARY VEGETATIVE COVER SHALL CONSIST OF 40 LBS. COMMON RYE GRASS SEED PER ACRE, 400 LBS. PER ACRE 10-10-10 OR EQUIVALENT FERTILIZER WORKED INTO THE SEED BED BEFORE PLANTING. TEMPORARY SPRINKLER SYSTEMS IS TO BE INSTALLED CONCURRENTLY WITH ALL PLANTINGS. PLANTING AND MAINTENANCE OF GRASS SHALL CONFORM TO THE "HAWAI'I STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2005" AND ITS AMENDMENTS.

PERMANENT EROSION CONTROL MEASURES FOR GRADING

1. THE CONTRACTOR SHALL GRASS THE ENTIRE PROJECT SITE, EXCEPT PAVED AREAS WITH BERMUDA GRASS SPRIGS. THE GRASS SHALL BE PLANTED, FERTILIZED, AND MAINTAINED IN ACCORDANCE WITH THE "HAWAI'I STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2005" AND ITS AMENDMENTS.
2. THE CONTRACTOR SHALL GRASS ALL EXPOSED AREAS THAT HAVE BEEN CONSTRUCTED TO FINAL GRADES WITHIN A PERIOD OF 30 CALENDAR DAYS.
3. IN LIEU OF GRASS SPRIGS (NOTE 1), THE CONTRACTOR MAY USE HYDROMULCH SEEDING AND IRRIGATION SPRINKLER SYSTEM.

ENVIRONMENTAL CONTROL NOTES FOR GRADING

1. IN ACCORDANCE WITH CHAPTER 11-60.1, AIR POLLUTION CONTROL, TITLE 11, HAWAI'I ADMINISTRATIVE RULES, THE PROPERTY OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ENSURING THAT EFFECTIVE CONTROL MEASURES ARE PROVIDED TO MINIMIZE OR PREVENT ANY VISIBLE DUST EMISSION CAUSED BY THE CONSTRUCTION WORK FROM IMPACTING THE SURROUNDING AREAS INCLUDING THE OFF-SITE ROADWAYS USED TO ENTER/EXIT THE PROJECT. THESE MEASURES INCLUDE BUT ARE NOT LIMITED TO THE USE OF WATER WAGONS, SPRINKLER SYSTEMS, DUST FENCES, ETC.
2. IN ACCORDANCE WITH CHAPTER 11-55, WATER POLLUTION CONTROL AND CHAPTER 11-54, WATER QUALITY STANDARDS, TITLE 11, HAWAI'I ADMINISTRATIVE RULES, THE PROPERTY OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ENSURING THAT THE BEST MANAGEMENT PRACTICE (BMP) TO MINIMIZE OR PREVENT THE DISCHARGE OF SEDIMENTS, DEBRIS AND OTHER WATER POLLUTANT INTO STATE WATERS ARE PROVIDED AT ALL TIMES.
3. IN ACCORDANCE WITH CHAPTER 11-58, SOLID WASTE MANAGEMENT CONTROL, TITLE 11, HAWAI'I ADMINISTRATIVE RULES, THE PROPERTY OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ENSURING THAT GRUBBED MATERIAL, DEMOLITION WASTE AND CONSTRUCTION WASTE GENERATED BY THE PROJECT ARE DISPOSED OF IN A MANNER OR AT A SITE APPROVED BY THE STATE DEPARTMENT OF HEALTH. DISPOSAL OF ANY OF THESE WASTES BY BURNING IS PROHIBITED.
4. THE PROPERTY OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL APPLICABLE PERMITS FROM THE DEPARTMENT OF HEALTH INCLUDING BUT NOT LIMITED TO NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), NOTICE OF INTENT AND GENERAL PERMIT FOR STORM WATER PRIOR TO COMMENCING CONSTRUCTION. AN NPDES PERMIT SHALL BE REQUIRED PRIOR TO GRADING OR GRUBBING WORK OVER AN AREA OF ONE ACRE OR MORE.
5. AFTER EACH RAINFALL EVENT, THE CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS AND OTHER AREAS. THE COST INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE COUNTY ENGINEER SHALL BE PAYABLE BY THE CONTRACTOR.
6. BEST MANAGEMENT PRACTICES (BMPS) SHALL BE EMPLOYED AT ALL TIMES TO THE MAXIMUM EXTENT PRACTICABLE TO PREVENT DAMAGE BY SEDIMENTATION, EROSION OR DUST TO STREAMS, WATERCOURSE, NATURAL AREAS AND THE PROPERTY OF OTHERS.
7. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEMS (NPDES) PERMIT REQUIREMENTS FOR ALL PROJECTS WHICH WILL DISTURB ONE (1) ACRE OR MORE OF LAND. THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL NOTICE OF GENERAL PERMIT COVERAGE (NGPC) IS RECEIVED FROM THE DEPARTMENT OF HEALTH, STATE OF HAWAI'I AND HAS SATISFIED ANY OTHER APPLICABLE REQUIREMENTS OF THE NPDES PERMIT PROGRAM.
8. IN ACCORDANCE WITH CHAPTER 11-46, COMMUNITY NOISE, HAWAI'I ADMINISTRATIVE RULES, THE PROPERTY OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR PROVIDING EFFECTIVE CONTROL MEASURES TO MINIMIZE OR PREVENT CONSTRUCTION RELATED NOISE FROM IMPACTING THE RESIDENTS IN THE IMMEDIATE AREA. IF REQUIRED, NOISE REDUCTION MEASURES SHALL BE IMPLEMENTED BY THE CONTRACTOR DURING THE CONSTRUCTION WORK.
9. THE PROPERTY MAY HARBOR RODENTS WHICH WILL BE DISPERSED TO THE SURROUNDING AREAS WHEN THE SITE IS CLEARED. IN ACCORDANCE WITH CHAPTER 11-26, ENTITLED VECTOR CONTROL OF TITLE 11, HAR, THE APPLICANT SHALL ASCERTAIN THE PRESENCE OR ABSENCE OF RODENTS ON THE PROPERTY. SHOULD THE PRESENCE OF RODENTS BE DETERMINED, THE APPLICANT SHALL ERADICATE THE RODENTS PRIOR TO CLEARING THE SITE.
10. A COPY OF THE PLANS, CONSTRUCTION SCHEDULE AND/OR WRITTEN MEASURES THAT IS REQUIRED TO BE SUBMITTED BY THE CONTRACTOR (DUST CONTROL MEASURES/PLANS) SHOULD ALSO BE SENT TO THE DEPARTMENT OF HEALTH FOR MONITORING PURPOSES.

PUBLIC HEALTH, SAFETY AND CONVENIENCE NOTES

1. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL FEDERAL, STATE AND COUNTY LAWS REQUIRED FOR THE PROTECTION OF PUBLIC HEALTH AND SAFETY AND ENVIRONMENTAL QUALITY.
2. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE DEPARTMENT OF HEALTH.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANING AND REMOVAL OF ALL SILT AND DEBRIS RESULTING FROM HIS WORK AND DEPOSITED AND ACCUMULATED WITHIN DOWNSTREAM WATERWAYS, DITCHES, AND DRAIN PIPES AND ON PUBLIC ROADWAYS.
4. THE CONTRACTOR SHALL PROVIDE, INSTALL, MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, MARKERS, CONES AND OTHER PROTECTIVE FACILITIES AND SHALL TAKE ALL PRECAUTIONS FOR THE PROTECTION AND FOR THE CONVENIENCE AND SAFETY OF PUBLIC TRAFFIC. ALL SUCH PROTECTIVE FACILITIES, AND PRECAUTIONS TO BE TAKEN SHALL CONFORM WITH "RULES AND REGULATIONS GOVERNING THE USE OF TRAFFIC CONTROL DEVICES AT WORK SITES ON OR ADJACENT TO PUBLIC STREETS AND HIGHWAYS OF THE STATE OF HAWAI'I" AND U.S. FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" DATED JANUARY 2003.

HISTORICAL PRESERVATION NOTES

1. SHOULD HISTORIC REMAINS SUCH AS ARTIFACTS, BURIALS, CONCENTRATIONS OF SHELL OR CHARCOAL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES, WORK SHALL CEASE IMMEDIATELY IN THE IMMEDIATE VICINITY OF THE FIND AND THE FIND SHALL BE PROTECTED FROM FURTHER DAMAGE. THE CONTRACTOR SHALL CORDON OFF THE AREA AND IMMEDIATELY NOTIFY THE PLANNING DEPARTMENT AT (808) 241-4050 AND THE STATE HISTORIC PRESERVATION DIVISION AT (808) 692-8015, WHICH WILL ASSESS THE SIGNIFICANCE OF THE FIND AND RECOMMEND THE APPROPRIATE MITIGATION MEASURES, IF NECESSARY. IN ADDITION, IF HUMAN BURIALS ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COUNTY OF K

WATER NOTES

1. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION OF WATER FACILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE "WATER SYSTEM STANDARDS, 2002" AS ADOPTED BY THE DEPARTMENT OF WATER, COUNTY OF KAUAI, INCLUDING ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.

2. ALL REQUIRED PROJECT SUBMITTALS (MATERIALS, SHOP DRAWINGS, ETC.) SHALL BE APPROVED BY THE DOW'S PROJECT MANAGEMENT SECTION BEFORE A PRE-CONSTRUCTION CONFERENCE CAN BE SCHEDULED. ONCE ALL PROJECT SUBMITTALS HAVE BEEN APPROVED BY DOW CONSTRUCTION ENGINEER, THE DOW CONSTRUCTION ENGINEER WILL NOTIFY THE CONTRACTOR THAT A PRECONSTRUCTION CONFERENCE CAN BE ARRANGED. THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE AT LEAST TEN (10) CALENDAR DAYS BEFORE CONSTRUCTION AND SHALL NOTIFY THE DEPARTMENT OF WATER AT LEAST THREE (3) WORKING DAYS PRIOR TO START OF CONSTRUCTION.

3. THE CONTRACTOR SHALL SUBMIT THE NAMES AND TELEPHONE NUMBERS OF ITS AUTHORIZED JOB SUPERINTENDENT AND AT LEAST THREE (3) ADDITIONAL PERSONS TO CONTACT IN CASE OF AN EMERGENCY DURING NON-WORKING HOURS.

4. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF WATER AT LEAST 24 HOURS PRIOR TO ANY TRENCHING, PIPE LAYING, BACKFILLING, TESTING OR DISINFECTION ACTIVITIES TO ENSURE THAT INSPECTION SERVICES WILL BE AVAILABLE.

5. ALL MATERIALS (PIPE, LUBRICANTS, PAINTS, SEALANTS, FORM OIL, CONCRETE ADMIXTURES, ETC.) IN DIRECT CONTACT WITH THE POTABLE WATER SHALL HAVE NATIONAL SANITATION FOUNDATION (NSF) CERTIFICATIONS. THE CONTRACTOR SHALL SUBMIT THESE CERTIFICATIONS TO THE DEPARTMENT OF WATER FOR REVIEW AND APPROVAL PRIOR TO ITS APPLICATION.

6. THE LOCATION OF EXISTING WATER MAINS AND APPURTENANCES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD. EXCAVATION AROUND ANY EXISTING WATER MAIN SHALL BE DONE BY HAND.

7. THE CONTRACTOR SHALL PROVIDE UNOBSTRUCTED ACCESS TO EXISTING HYDRANTS, VALVES AND WATER METERS AT ALL TIMES.

8. THE CONTRACTOR SHALL SECURE ALL EXCAVATIONS IN ACCORDANCE WITH OSHA REGULATIONS.

9. THERE SHALL BE NO PHYSICAL CONNECTION BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SYSTEM AND A NON-POTABLE WATER SYSTEM, SEWER, OR APPURTENANCE THERETO WHICH COULD PERMIT THE PASSAGE OF ANY SEWAGE OR POLLUTED WATER INTO THE POTABLE WATER SUPPLY.

10. TRENCH EXCAVATION, BACKFILLING IN LIFTS, AND REPAVING SHALL CONFORM TO THE "HAWAI'I STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2005" AS AMENDED.

11. WARNING TAPE SHALL BE IN ACCORDANCE WITH DIVISION 200, SECTION 212.08 OF THE "WATER SYSTEM STANDARDS." THE WARNING TAPE SHALL BE FOUR MIL THICK, NON-METALLIC, ACID AND ALKALI RESISTANT POLYETHYLENE AND 6-INCHES WIDE WITH MINIMUM STRENGTH OF 1750 PSI LENGTHWISE AND 1500 PSI CROSSWISE. TAPE COLOR SHALL BE "SAFETY PRECAUTION BLUE" AND SHALL BEAR A CONTINUOUS PRINTED INSCRIPTION "CAUTION WATER LINE BURIED BELOW". INSCRIPTION SHALL BE 2-INCHES HIGH, BLACK TEXT.

12. ALL HYDRANTS SHALL RECEIVE A MINIMUM SSPC SP3 SURFACE PREPARATION AND COATED IN ACCORDANCE WITH DIVISION 200, SECTION 206.01 OF THE "WATER SYSTEM STANDARDS."

13. UNLESS OTHERWISE DIRECTED, PRIOR TO THE CONNECTION OF ANY PIPELINES TO THE EXISTING MAIN, THE PIPELINES INSTALLED SHALL BE CLEANED, PRESSURE TESTED, CHLORINATED, FLUSHED, AND SAMPLED IN ACCORDANCE WITH DIVISION 300, SECTIONS 302.27 TO 302.29 OF THE "WATER SYSTEM STANDARDS."

    WATER SAMPLES SHALL BE TESTED FOR TOTAL COLIFORMS BY A LABORATORY CERTIFIED BY THE STATE OF HAWAII TO PERFORM COLIFORM ANALYSIS PRESENCE OF COLIFORM BACTERIA IS UNACCEPTABLE.

    IN ADDITION TO THE TEST FOR COLIFORMS, A SEPARATE TEST FOR HETEROTROPHIC PLATE COUNT (HPC) SHALL BE CONDUCTED. THE HPC COUNT SHALL BE LESS THAN 300 CFU/ML.

    PRIOR TO CHLORINATION, A WATER CHLORINATION AND SANITATION CONTRACTOR WITH A C-37D LICENSE SHALL SUBMIT A CHLORINATION PLAN WITH WATER SOURCE, INJECTION POINTS, SAMPLING POINTS AND PROCEDURE CLEARLY DEFINED FOR APPROVAL BY THE DOW THIRTY (30) CALENDAR DAYS PRIOR TO STARTING ANTICIPATED CHLORINATION OPERATIONS. THE CHLORINATION PLAN MUST BE APPROVED BY THE DOW'S PROJECT MANAGEMENT SECTION PRIOR TO STARTING CHLORINATION OPERATIONS. ALL CHLORINATION PLANS WILL BE APPROVED BASED ON THE CURRENT DOW REQUIREMENTS AT THE TIME OF CHLORINATION PLAN SUBMITTAL.

    THE TESTED PIPELINES MUST BE CONNECTED TO THE EXISTING DOW SYSTEM WITHIN 14 CALENDAR DAYS OF PULLING THE FIRST DISINFECTION SAMPLE TESTED BY A CERTIFIED LABORATORY. THE DEPARTMENT OF WATER WILL REQUIRE THE CONTRACTOR TO REDO THE CLEANING, PRESSURE TESTING, AND/OR DISINFECTION OF THE PIPELINES AND/OR LATERALS AT THE CONTRACTOR'S EXPENSE IF THE CONNECTION IS NOT COMPLETED WITHIN THESE 14 CALENDAR DAYS.

    FOR DISINFECTION OF WATER LATERALS (SERVICE AND FIRE) THAT ARE TO BE CONNECTED DIRECTLY TO EXISTING DOW WATER LINES, SERVICE AND FIRE LATERALS SHALL BE DISINFECTED WITH A 1% (MINIMUM) FREE CHLORINE (LIQUID SODIUM HYPOCHLORITE) SOLUTION BY SWABBING AND/OR SOAKING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

    FOR RESERVOIRS, SECTION 303.10 SUBSECTION B.3.e.2. IS REPLACED WITH "TOTAL BACTERIAL COUNT IS LESS THAN 300 CFU/ML."

14. POLYURETHANE FOAM "PIGS" SHALL BE "PUSHED" THROUGH THE LENGTH OF THE INSTALLED PIPELINE USING PRESSURIZED WATER.

15. ALL CONNECTIONS SHALL BE SCHEDULED IN COORDINATION WITH THE DEPARTMENT OF WATER.

    a. AN ADVANCE DEPOSIT IS REQUIRED FOR OPERATING VALVES, FLUSHING LINES AND NOTIFYING CONSUMERS AFFECTED BY A WATER SHUTDOWN DURING CONNECTIONS. THE CONTRACTOR WILL BE CHARGED THE ACTUAL COST.

    b. THE CONTRACTOR SHALL PLACE THE DEPOSIT PRIOR TO SCHEDULING THE CONNECTION DATE.

    c. SHUTDOWN CONNECTIONS SHALL BE SCHEDULED ON TUESDAYS THROUGH THURSDAYS. NO CONNECTIONS SHALL BE SCHEDULED ON MONDAYS, FRIDAYS, WEEKENDS, AND HOLIDAYS, OR FROM DECEMBER 18 – JANUARY 8 OF EACH YEAR.

    d. ALL MATERIALS SHALL BE ON HAND AND APPROVED BY THE ENGINEER PRIOR TO SCHEDULING THE CONNECTION DATE.

    e. PUMPS USED TO DE-WATER THE CONNECTION AREA SHALL BE OPERATED IN THE PRESENCE OF THE ENGINEER PRIOR TO SCHEDULING THE CONNECTION DATE.

    f. ALL CONNECTIONS SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER.

    g. NO LIVE TAPS SHALL BE SCHEDULED FROM DECEMBER 24 – DECEMBER 31 OF EACH YEAR.

16. IN ORDER TO PREVENT DAMAGE TO THE POLYETHYLENE ENCASEMENT FROM EXCESSIVE HANDLING, THE POLYETHYLENE ENCASEMENT SHALL BE INSTALLED AROUND THE BARREL OF THE DUCTILE IRON PIPE AT ITS FINAL LOCATION ALONG THE TRENCHLINE. THE POLYETHYLENE ENCASED PIPE SHALL BE LIFTED USING A FABRIC TYPE SLING OR A SUITABLY PADDED CABLE OR CHAIN TO PREVENT DAMAGE TO THE POLYETHYLENE.

17. THE CONTRACTOR SHALL TAKE ALL NECESSARY COMPACTION TESTS WHILE THE WATERLINE TRENCH IS BEING BACKFILLED AND WHILE THE SUBBASE/BASECOURSE IS BEING PLACED. IF THE TEST RESULTS INDICATE THAT ADDITIONAL COMPACTION IS REQUIRED, THE CORRECTIVE WORK SHALL BE COMPLETED BEFORE ANY ADDITIONAL TRENCH EXCAVATION OR PLACING OF SUBBASE/ BASECOURSE IS ALLOWED.

18. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED GEOTECHNICAL ENGINEER FOR QUALITY CONTROL. THE COMPACTION TEST RESULTS SHALL BE CERTIFIED BY THE GEOTECHNICAL ENGINEER AND SUBMITTED TO THE DEPARTMENT OF WATER, STATE HIGHWAYS DIVISION (FOR WORK DONE WITHIN STATE R/W) AND THE DEPARTMENT OF PUBLIC WORKS (FOR WORK DONE WITHIN COUNTY R/W). THE GEOTECHNICAL ENGINEER SHALL CERTIFY THAT THE COMPACTION RESULTS MEET THE REQUIREMENTS OF THE CURRENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

19. THE CONTRACTOR SHALL CONNECT ALL EXISTING CONSUMER PIPING TO THE NEW SERVICE LATERALS. THE DEPARTMENT OF WATER WILL TRANSFER THE EXISTING WATER METERS ONLY.

20. ALL FITTINGS SHALL BE MECHANICAL JOINT (MJ) AT EACH END UNLESS OTHERWISE NOTED. "MEGALUG" RETAINER GLANDS SHALL BE USED WITH ALL MECHANICAL JOINT FITTINGS AND VALVES USED IN CONNECTING NEW WATER MAINS TO EXISTING WATER MAINS UNLESS OTHERWISE NOTED.

21. ALL WATER VALVES THAT WILL BE ABANDONED IN PLACE SHALL BE PLACED IN THE "CLOSED" POSITION. REMOVE TOP SECTION OF VALVE BOX AND CONCRETE SETTLEMENT SLAB. FILL REMAINDER OF VALVE BOX WITH CONCRETE. PLACE BACKFILL AND REPAIR PAVEMENT SECTION TO APPLICABLE STATE OR COUNTY STANDARDS. BACKFILL TO FINISH GRADE IN ROAD SHOULDER AREA.

22. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE DEPARTMENT OF HEALTH PERMITS PRIOR TO THE START OF CONSTRUCTION. PERMITS INCLUDE, BUT ARE NOT LIMITED TO, NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMITS FOR STORM WATER, HYDROSTATIC TEST, DEWATERING, AND FOR CONSTRUCTION ACTIVITIES, INCLUDING CLEARING, GRADING, AND EXCAVATION, THAT RESULT IN THE DISTURBANCE OF EQUAL TO OR GREATER THAN ONE (1) ACRE OF TOTAL LAND AREA.

23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF STORM WATER DISCHARGES AND EFFLUENT ASSOCIATED WITH CONSTRUCTION ACTIVITIES INCLUDING HYDROTESTING AND DISINFECTION OPERATIONS, TO SAFEGUARD PUBLIC HEALTH AND SAFETY IN ACCORDANCE WITH APPLICABLE DEPARTMENT OF HEALTH REQUIREMENTS. ALL PERMITS AND LICENSES FOR STORM WATER AND CONSTRUCTION WATER DISPOSAL, INCLUDING ALL APPLICATION, CHARGES, FEES, AND TAXES, ARE THE RESPONSIBILITY OF THE CONTRACTOR.

24. THE CONTRACTOR IS RESPONSIBLE FOR DEWATERING TRENCH AS NECESSARY WHERE GROUNDWATER IS ENCOUNTERED. ALL ASSOCIATED COSTS FOR DEWATERING SHALL BE BORNE BY THE CONTRACTOR.

25. THE USE OF KNOWN SEWER PUMP TRUCKS IS PROHIBITED FOR DOW PROJECTS FOR ANY USE, INCLUDING BUT NOT LIMITED TO DEWATERING AND TESTING OF NEW FACILITIES.

26. THE CONTRACTOR SHALL VERIFY OUTSIDE DIAMETER OF ALL EXISTING ASBESTOS-CEMENT (AC) WATERLINES TO BE CONNECTED. CONTRACTOR SHALL VERIFY USE OF PROPER GASKETS PRIOR TO CONNECTION. AC PIPE AND GASKET INFORMATION SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.

27. ALL REMOVAL, DISPOSAL AND CONNECTION WORK THAT INVOLVES ASBESTOS PIPE/MATERIAL SHALL BE DONE IN THE PRESENCE OF OR BY A LICENSED ASBESTOS CONTRACTOR.

28. THE LICENSED ASBESTOS CONTRACTOR SHALL SUBMIT THEIR PLAN FOR ALL ASSOCIATED REMOVAL, DISPOSAL AND CONNECTION WORK FOR THE PROJECT TO DOW FOR REVIEW AND APPROVAL PRIOR TO CONDUCTING THE WORK.

29. ALL CONNECTIONS TO EXISTING AC PIPE SHALL BE AT THE NEAREST AC PIPE JOINT. AC PIPE SHALL BE REMOVED BY ENTIRE LENGTH(S) TO FACILITATE THE CONNECTION. CUTTING OF AC PIPE IS PROHIBITED.

30. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE OSHA, HIOSH AND FEDERAL REGULATIONS IN HANDLING AND DISPOSAL OF ASBESTOS-CEMENT PIPE. DISPOSAL OF THE PIPE SHALL BE AT AN APPROVED ASBESTOS MATERIAL DISPOSAL SITE.

31. ALL WATERWORKS BRASS FITTINGS SHALL BE IN COMPLIANCE WITH THE AMENDED SECTION 1417 OF SAFE DRINKING WATER ACT (SDWA) WHICH TAKES EFFECT ON JANUARY 4, 2014. THE AMENDMENT INCLUDES A CHANGE TO THE DEFINITION OF "LEAD-FREE" BY REDUCING LEAD CONTENT FROM 8% TO A WEIGHTED AVERAGE OF NOT MORE THAN 0.25% IN THE WETTED SURFACE MATERIAL. ALL WATERWORKS BRASS FITTINGS INSTALLED FOR POTABLE WATER SERVICE ON JANUARY 4, 2014 AND BEYOND SHALL CONFORM TO THE AMENDED DEFINITION OF "LEAD-FREE."

32. AS INDICATED IN SECTION 211 OF WATER SYSTEM STANDARDS – BRASS PRODUCTS, ALL BRASS FITTINGS SHALL CONFORM TO NSF STANDARD 61 AND SECTION 1417 OF THE SAFE DRINKING WATER ACT (SDWA), IN ADDITION, ALL BRASS FITTINGS SHALL CONFORM TO NSF STANDARD 372.

33. CONTRACTOR SHALL INSTALL WATER FACILITIES ONLY AFTER REACHING FINAL SUBGRADE OR HIGHER. THE DEPARTMENT OF WATER WILL NOT ALLOW INSTALLATION OF ANY WATER FACILITIES UNTIL THE FINAL SUBGRADE LAYER AT MINIMUM HAS BEEN ACHIEVED.

34. THE RIGHT OF WAY, EASEMENT AND RELEVANT PROPERTY CORNERS OR EASEMENTS AT THE PROPOSED APPURTANANCE AND/OR FACILITY LOCATION(S) SHALL BE SURVEYED AND STAKED OUT BY A LICENSED SURVEYOR PRIOR TO CONSTRUCTION. THE SURVEYED POINTS SHALL BE PRESERVED THROUGHOUT THE PROJECT'S CONSTRUCTION.

35. THE CONTRACTOR SHALL EXPOSE, VERIFY, AND BACKFILL ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES IN CLOSE PROXIMITY TO CROSSINGS AND CONNECTIONS PRIOR TO EXCAVATION OF PIPELINE TRENCH. CONTRACTOR SHALL PROVIDE THE LICENSED SURVEYOR CUT SHEET AND THE PROBING INFORMATION TO THE DOW CONSTRUCTION ENGINEER FOR REVIEW AND APPROVAL BEFORE MOVING FORWARD WITH INSTALLATION VIA THE SUBMITTAL REVIEW PROCESS.

36. THE DEPARTMENT SHALL BE PROVIDED TWENTY (20) WORKING DAYS FOR ALL SUBMITTAL REVIEWS FROM THE TIME OF SUBMISSION BY THE CONTRACTOR.

37. UNLESS OTHERWISE SPECIFIED, ALL DUCTILE IRON PIPES, VALVES, AND FITTINGS, SHALL BE ENCASED IN ONE LAYER OF 8 MIL MINIMUM THICKNESS POLYETHYLENE MATERIAL IN ACCORDANCE WITH ANSI A-21.5 AND AWWA C105. THE POLYETHYLENE ENCASEMENT FILM SHALL BE MANUFACTURED FROM VIRGIN POLYETHYLENE AND SHALL CONSIST OF THREE LAYERS OF CO-EXTRUDED LINEAR LOW DENSITY POLYETHYLENE (LLDPE), FUSED INTO A SINGLE THICKNESS OF NOT LESS THAN 8 MILS. THE INSIDE SURFACE OF THE POLYETHYLENE WRAP TO BE IN CONTACT WITH THE PIPE EXTERIOR SHALL BE INFUSED WITH A BLEND OF AN ANTIMICROBIAL TO MITIGATE MICROBIOLOGICALLY INFLUENCED CORROSION AND A VOLATILE CORROSION INHIBITOR TO CONTROL GALVANIC CORROSION. POLYETHYLENE MATERIAL SHALL HAVE PERMANENT MARKINGS PER AWWA C105.

38. COPPER SERVICE LATERALS SHALL BE ENCASED WITH POLYETHYLENE WRAP FROM THE CONNECTION TO THE WATER MAIN TO THE ANGLE BALL VALVE LOCATED IN THE WATER METER BOX.

SEWER NOTES

FEBRUARY 1, 2019

1. ALL SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY'S "STANDARD SPECIFICATIONS," SEPT. 1986, THE DEPARTMENT OF ENVIRONMENTAL SERVICES "WASTEWATER SYSTEM DESIGN STANDARDS," JULY 2017, AND "WASTEWATER SYSTEM STANDARD DETAILS," JULY 2017, CURRENT CITY PRACTICES AND REVISED ORDINANCES OF HONOLULU, 1990 AS AMENDED.

2. IN THE EVENT THAT ANY CHANGE IN ALIGNMENT OR GRADE FOR THE PROPOSED SEWERS ARE REQUIRED DUE TO UNFORESEEN CONFLICT WITH OTHER UTILITIES, THE ENGINEER IN CHARGE OR THE MAKER OF THE PLANS SHALL BE RESPONSIBLE FOR THE REQUIRED CHANGES WHICH ARE TO BE PRESENTED TO THE DEPARTMENT OF PLANNING AND PERMITTING (DPP) FOR APPROVAL.

3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGEMENT BRANCH, WASTEWATER ENGINEERING AND CONSTRUCTION DIVISION, ENV, AT (808) 768-8785, (808) 768-8769, OR (808) 768-8755 TO ARRANGE FOR INSPECTION SERVICES AND SUBMIT FIVE (5) SETS OF APPROVED CONSTRUCTION PLANS TO THE WASTEWATER BRANCH, DPP SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF SEWER WORK. THE CONTRACTOR SHALL PAY FOR ALL INSPECTION COSTS.

4. CRUSHED ROCK CRADLE IS PERMITTED WHERE SOIL IS STABLE. IN AREAS OF UNSTABLE SOIL, THE MAKER OF THE PLANS AND THE CONSTRUCTION ENGINEER WILL DETERMINE THE PIPE SUPPORT REQUIRED.

5. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS RESEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF THE FACILITIES, INCLUDING AND AFFECTING SEWER LINES, IN THE PRESENCE OF THE WASTEWATER INSPECTOR AND EXERCISE PROPER CARE IN EXCAVATING THE AREA. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL PAY FOR ALL DAMAGED UTILITIES.

6. SEWER LATERALS SHALL BE CLEAR OF AND NOT CONFLICTING WITH ANY OTHER UTILITY. MINIMUM HORIZONTAL AND VERTICAL CLEARANCES SHALL BE STRICTLY OBSERVED AND FOLLOWED.

7. SLOPE FOR SEWER LATERALS SHALL BE A MINIMUM OF 2.00% UNLESS OTHERWISE NOTED.

8. BUILDING PLUMBING FACILITIES SHALL BE CONTROLLED BY SEWER LATERAL INVERTS.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUOUS SEWER SERVICE TO ALL AFFECTED AREAS DURING CONSTRUCTION.

10. THE CONSULTING ENGINEER SHALL SUBMIT TO THE WASTEWATER BRANCH, DPP "AS-BUILT" TRACINGS AND ELECTRONIC FILES OF THE CONSTRUCTION PLANS AS ACTUALLY CONSTRUCTED, SHOWING ALL CHANGES FROM THE ORIGINAL PLANS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SEWAGE SPILLS CAUSED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE STATE DEPARTMENT OF HEALTH AND UTILIZE APPROPRIATE SAMPLING AND ANALYZING PROCEDURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PUBLIC NOTIFICATIONS AND PRESS RELEASES.

12. THE CONTRACTOR SHALL INSTALL "RAINSTOPPER" MANHOLE INSERTS IN ALL SEWER MANHOLES WITH TYPE "SA" FRAME AND COVER.

13. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR ADVANCE SEWER RISER AGREEMENT AT THE DPP AND OBTAIN BUILDING PERMIT FOR PLUMBING WORK BEFORE ANY ADVANCE RISER IS MADE.

14. ALL SEWER PIPE JOINTS WITHIN EASEMENTS SHALL BE WRAPPED WITH GEOTEXTILE ROOT BARRIER.

15. S4C PIPE CRADLE SEALS SHALL BE INSTALLED 10 FEET FROM ALL SEWER MANHOLES TO PREVENT SOIL MIGRATION. SEE DETAIL [C-__].

16. CONFINED SPACE

    FOR ENTRY BY CITY PERSONNEL, INCLUDING INSPECTORS, INTO A PERMIT REQUIRED CONFINED SPACE AS DEFINED IN 29 CFR PART 1910.146(B), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING:

    I. ALL SAFETY EQUIPMENT REQUIRED BY THE CONFINED SPACE REGULATIONS APPLICABLE TO ALL PARTIES OTHER THAN THE CONSTRUCTION INDUSTRY, TO INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:

        A. FULL BODY HARNESSES FOR UP TO TWO PERSONNEL.
        B. LIFELINE AND ASSOCIATED CLIPS.
        C. INGRESS/EGRESS AND FALL PROTECTION EQUIPMENT.
        D. TWO-WAY RADIOS (WALKIE-TALKIES) IF OUT OF LINE-OF-SIGHT.
        E. EMERGENCY (ESCAPE) RESPIRATOR (10 MINUTE DURATION).
        F. CELLULAR TELEPHONE TO CALL FOR EMERGENCY ASSISTANCE.
        G. CONTINUOUS GAS DETECTOR (CALIBRATED) TO MEASURE OXYGEN, HYDROGEN SULFIDE, CARBON MONOXIDE AND FLAMMABLES (CAPABLE OF MONITORING AT A DISTANCE AT LEAST 20-FEET AWAY).
        H. PERSONAL MULTI-GAS DETECTOR TO BE CARRIED BY INSPECTOR.

    II. CONTINUOUS FORCED AIR VENTILATION ADEQUATE TO PROVIDE SAFE ENTRY CONDITIONS.

    III. ONE ATTENDANT/RESCUE PERSONNEL TOPSIDE (TWO, IF CONDITIONS WARRANT IT).

17. WHEN CONNECTING TO A LIVE SEWER LINE, THE CONTRACTOR SHALL ABIDE BY ALL CONDITIONS THAT THE STATE DEPARTMENT OF HEALTH SETS FORTH TO MITIGATE ANY WASTEWATER SPILL THAT MAY OCCUR. THE CONTRACTOR SHALL INFORM THE CITY INSPECTOR FIVE (5) WORKING DAYS PRIOR TO THE ACTUAL CONNECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES AND PENALTIES DUE TO ANY SPILLS RESULTING FROM THE CONNECTION.

18. NO RUNGS SHALL BE INSTALLED INSIDE NEW SEWER MANHOLES.

19. FOR SEWER MANHOLE ADJUSTMENTS UPWARD LESS THAN 3", SEE STD. DETAIL S-28. FOR SMH ADJUSTMENTS UPWARD GREATER THAN 3" OR FOR ANY ADJUSTMENTS DOWNWARD, RECONSTRUCT SMH TOP FROM BELOW THE CONE SECTION.

20. IF CONTRACTOR ENCOUNTERS FLOW MONITORING DEVICES SUCH AS SPECIAL SEWER MANHOLE COVER EMBEDDED WITH SOLAR PANELS, NOTIFY COLLECTION SYSTEMS MAINTENANCE (CSM), ENV AT (808) 768-7272 TO COORDINATE TEMPORARY REMOVAL.

21. THE CONTRACTOR SHALL MAINTAIN VISIBILITY AND MAINTENANCE ACCESS TO LIVE SEWER MANHOLE LOCATIONS AT ALL TIMES, INCLUDING DURING NON-WORK HOURS AND PAVING OPERATIONS.

22. THE CONTRACTOR SHALL USE MANHOLE DEBRIS CATCHING DEVICE WHEN PERFORMING MANHOLE HEIGHT ADJUSTMENT WORK AND REMOVE ANY CONSTRUCTION DEBRIS THAT HAS FALLEN INTO THE MANHOLE. DISPOSAL OF CONSTRUCTION DEBRIS IN THE SEWER SYSTEM IS STRICTLY PROHIBITED.

23. FOR PRECAST SEWER MANHOLES, THE CONSULTING ENGINEER SHALL SUBMIT FOUR (4) SETS OF SHOP DRAWINGS TO THE WASTEWATER BRANCH, DPP FOR APPROVAL. AFTER THE SHOP DRAWING ARE APPROVED, THE MANUFACTURER SHALL NOTIFY THE CONSTRUCTION MANAGEMENT BRANCH, WASTEWATER ENGINEERING AND CONSTRUCTION DIVISION, ENV, AT (808) 768-8785, (808) 768-8769, OR (808) 768-8755 TO ARRANGE FOR INSPECTION SERVICES FOR CONCRETE POURS MADE AT ITS PLANT SEVEN (7) DAYS PRIOR TO POUR.

TRENCHING NOTES

MARCH 10, 2017

1. PERFORM ALL WORK IN A NEAT AND WORKMANLIKE MANNER AND IN CONFORMITY WITH THE PROVISIONS OF CHAPTER 14, REVISED ORDINANCE OF HONOLULU 1990, AS AMENDED, OR AS MANY BE SUBSEQUENTLY AMENDED.

2. BEFORE PAVEMENT RESTORATION MAY COMMENCE, NOTIFY THE DIRECTOR OR AN AUTHORIZED REPRESENTATIVE AND FURNISH DATA ON TESTS PERFORMED UNDER THE SUPERVISION OF A REGISTERED CIVIL ENGINEER SUBSTANTIATING THAT THE BACKFILL HAS BEEN COMPACTED TO THE DENSITY SPECIFIED IN THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR ALL TRENCHES THAT ARE OVER 2 FEET IN DEPTH IN MAJOR AND SECONDARY STREETS AND FOR ALL TRENCHES OVER FIFTY FEET HIGH IN LENGTH AND OVER 2 FEET IN DEPTH IN MINOR AND DEAD END STREETS. THE DIRECTOR MAY ALSO REQUIRE COMPACTION TESTS OF BACKFILL FOR HOLES AND FOR TRENCHES OF LESS THAN 2 FEET IN DEPTH AND ADDITIONAL COMPACTION TESTS ON TRENCHES FOR WHICH THE PERMITTEE HAS FURNISHED TEST DATA.

3. CONTACT THE DEPARTMENT OF PLANNING AND PERMITTING, SITE DEVELOPMENT DIVISION, CIVIL ENGINEERING BRANCH, PERMITTING AND INSPECTION SECTION TO SCHEDULE A FINAL INSPECTION OF PAVEMENT RESTORATION WORK. THE BOND FILED WITH THE CITY WILL BE RELEASED ONE (1) YEAR AFTER THE DATE OF THE FINAL INSPECTION, PHONE NUMBER: (808) 768-8084.

4. PROVIDE SHORING AND TEMPORARY TRENCH COVERS ADEQUATE TO SUPPORT LEGAL TRAFFIC LOADS.

5. ACCOMPLISH EMERGENCY WORK INCLUDING BUT NOT LIMITED TO PATCHING HOLES, REPAIRING TEMPORARY TRENCH COVERS AND INSTALLATION OF WARNING LIGHTS OR BARRICADES WHEN THE "CONTACT FOR EMERGENCY REPAIRS" FURNISHED BY THE APPLICANT IS NOTIFIED. IF THE EMERGENCY WORK IS NOT MADE IN A REASONABLE TIME WHEN NOTIFIED OR UPON FAILURE OF THE "CONTACT FOR EMERGENCY REPAIRS," RESPOND AND PAY THE COST OF THE EMERGENCY WORK MADE BY THE DEPARTMENT OF FACILITY MAINTENANCE, DIVISION OF ROAD MAINTENANCE.

6. PURSUANT TO CHAPTER 6E, HRS, IN THE EVENT ANY ARTIFACTS OR HUMAN REMAINS ARE UNCOVERED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND WORK AND NOTIFY THE HONOLULU POLICE DEPARTMENT, THE STATE DEPARTMENT OF LAND AND NATURAL RESOURCES-HISTORIC PRESERVATION DIVISION (808) 692-8015. IN ADDITION, FOR NON-CITY PROJECTS, THE CONTRACTOR SHALL INFORM THE CIVIL ENGINEERING BRANCH, DPP (808) 768-8084; AND FOR CITY PROJECTS, NOTIFY THE RESPONSIBLE CITY AGENCY.

7. UNDERTAKE, FOR A PERIOD OF ONE (1) YEAR AFTER THE SATISFACTORY COMPLETION AND APPROVAL OF RESTORATION WORK, ANY NECESSARY REPAIRS TO THE RESTORED WORK OR FACILITIES DISTURBED AND/OR BY THE WORK PERFORMED UNDER THIS PERMIT.

8. REMOVE, RELOCATE, REPLACE, RECONSTRUCT OR ADJUST, AT HIS/HER OWN EXPENSE, ANY OF HIS/HER FACILITIES THAT MAY EXIST ON OR UNDER THE RIGHT OF WAY WHENEVER AND AS OFTEN AS MAY BE REQUIRED BY THE DIRECTOR OR AN AUTHORIZED REPRESENTATIVE IN ORDER TO UNDERTAKE THE CONSTRUCTION, RECONSTRUCTION OR MAINTENANCE OF SAID RIGHT-OF-WAY.

9. KEEP ALL FACILITIES INSTALLED UNDER THE SAID PERMIT IN GOOD REPAIR SO THAT THE PRESENCE OF SUCH FACILITY ON OR UNDER THE RIGHT OF WAY WILL IN NO WAY IMPAIR THE USE OF USEFULNESS OF ANY IMPROVEMENT WHICH MAY NOW EXIST OR HEREAFTER COME INTO EXISTENCE.

10. PROCURE, AT HIS/HER OWN EXPENSE, AND KEEP IN FORCE AT ALL TIME INSURANCE NAMING THE CITY AS AN ADDITIONAL INSURED AS REQUIRED BY CHAPTER 14 AFORESAID AND SUPPLY EVIDENCE SATISFACTORY TO THE CITY THAT THE REQUIRED INSURANCE HAS BEEN PROCURED AND IS IN FORCE PRIOR TO ISSUANCE OF THE PERMIT.

11. KEEP A COPY OF PERMIT AND A COPY OF THE PLANS IN THE HANDS OF THE WORKING CREW FOR EXHIBIT UPON REQUEST OF ANY AUTHORIZED REPRESENTATIVE OF THE CITY.

12. SUBMIT AS-BUILT DRAWINGS TO THE DIRECTOR SHOWING THE ACTUAL CONSTRUCTION PERFORMED. AS-BUILT DRAWINGS ARE NOT REQUIRED FOR EMERGENCY REPAIRS AND SERVICE CONNECTIONS.

13. THE PERMIT FEE IS NOT REFUNDABLE UNDER ANY CONDITION.

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

Date	Description

CD / BID SET

02/27/26

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

RYAN M. K. CHAR
LICENSED PROFESSIONAL ENGINEER
No. 15480-C
HAWAII, U.S.A.

License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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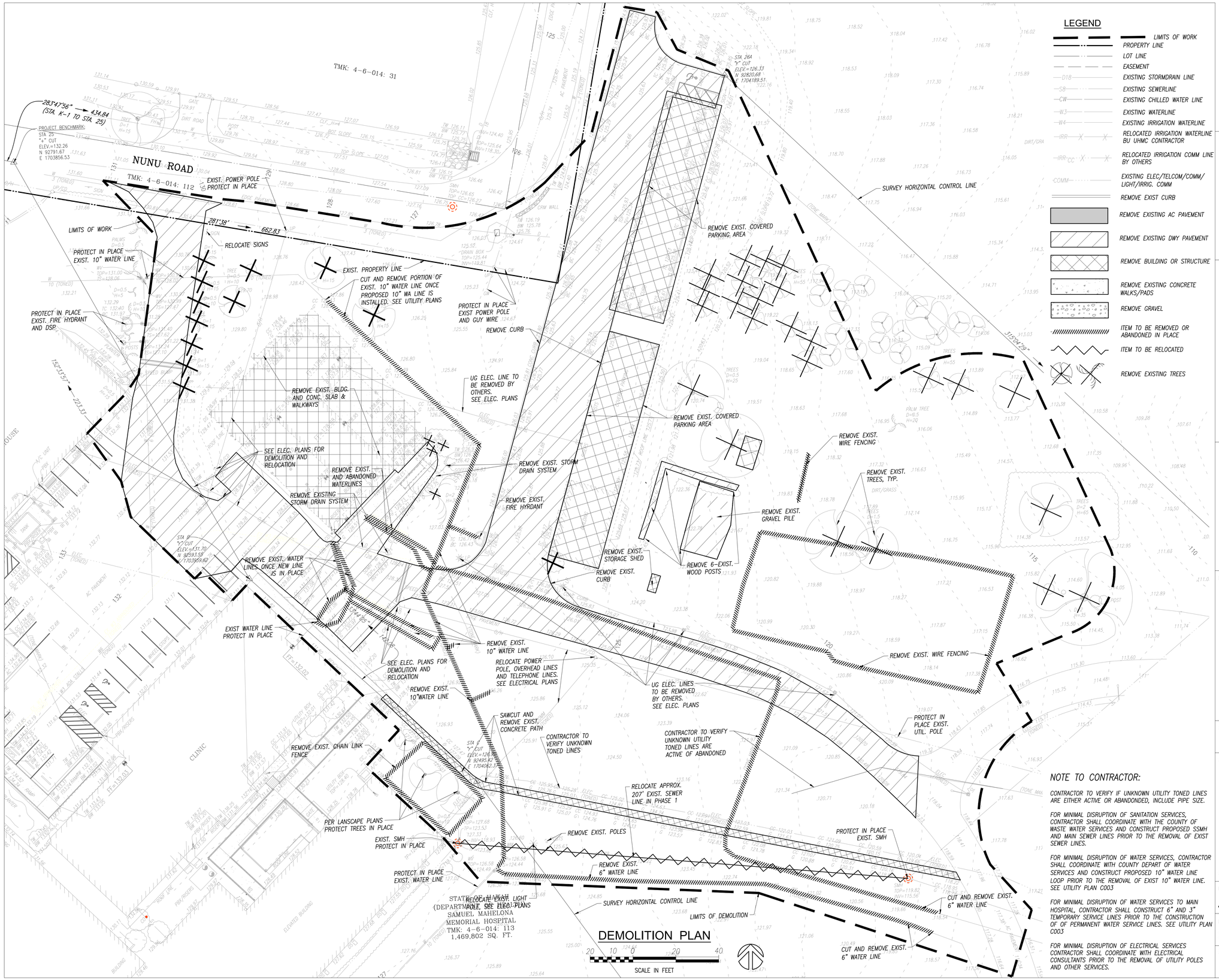
SHEET NAME
GENERAL UTILITY NOTES

SCALE: As indicated

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TMC	RMKC
PROJECT NO.	SHEET NO.
221093-01	C002
SHEET ISSUE DATE	
02/27/2026	

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NOTE TO CONTRACTOR:

CONTRACTOR TO VERIFY IF UNKNOWN UTILITY TONED LINES ARE EITHER ACTIVE OR ABANDONDED, INCLUDE PIPE SIZE.

FOR MINIMAL DISRUPTION OF SANITATION SERVICES, CONTRACTOR SHALL COORDINATE WITH THE COUNTY OF WASTE WATER SERVICES AND CONSTRUCT PROPOSED SSMH AND MAIN SEWER LINES PRIOR TO THE REMOVAL OF EXIST SEWER LINES.

FOR MINIMAL DISRUPTION OF WATER SERVICES, CONTRACTOR SHALL COORDINATE WITH COUNTY DEPART OF WATER SERVICES AND CONSTRUCT PROPOSED 10" WATER LINE LOOP PRIOR TO THE REMOVAL OF EXIST 10" WATER LINE. SEE UTILITY PLAN C003

FOR MINIMAL DISRUPTION OF WATER SERVICES TO MAIN HOSPITAL, CONTRACTOR SHALL CONSTRUCT 6" AND 3" TEMPORARY SERVICE LINES PRIOR TO THE CONSTRUCTION OF OF PERMANENT WATER SERVICE LINES. SEE UTILITY PLAN C003

FOR MINIMAL DISRUPTION OF ELECTRICAL SERVICES CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONSULTANTS PRIOR TO THE REMOVAL OF UTILITY POLES AND OTHER SERVICES.

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

Date	Description

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Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

RYAN M. K. CHAR
LICENSED PROFESSIONAL ENGINEER
No. 15480-C
HAWAII, U.S.A.

License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

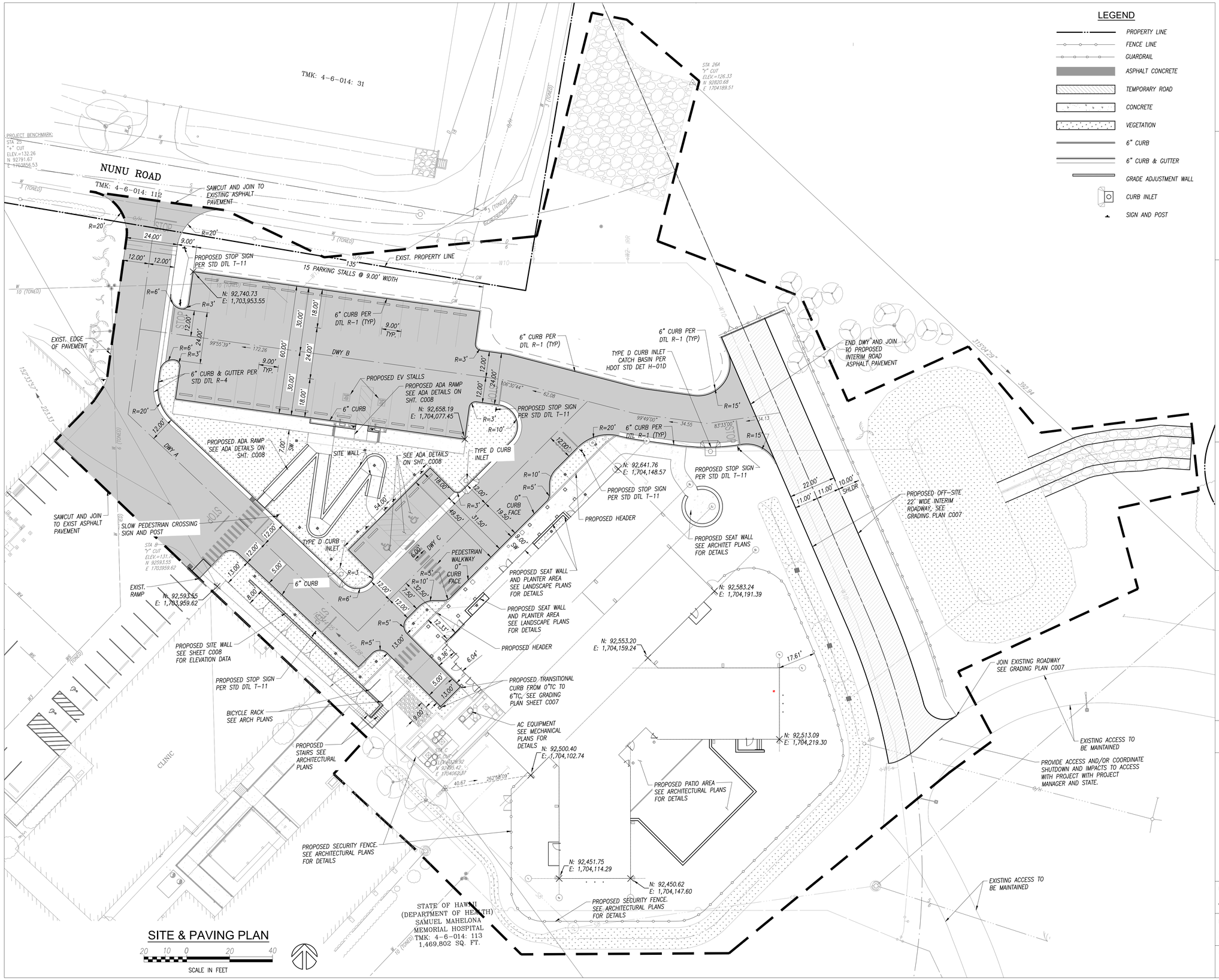
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DEMOLITION PLAN

SCALE: As indicated

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PROJECT NO.	SHEET NO.
221093-01	C003
SHEET ISSUE DATE	
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TMK#: 4-6-014:113

FILENAME
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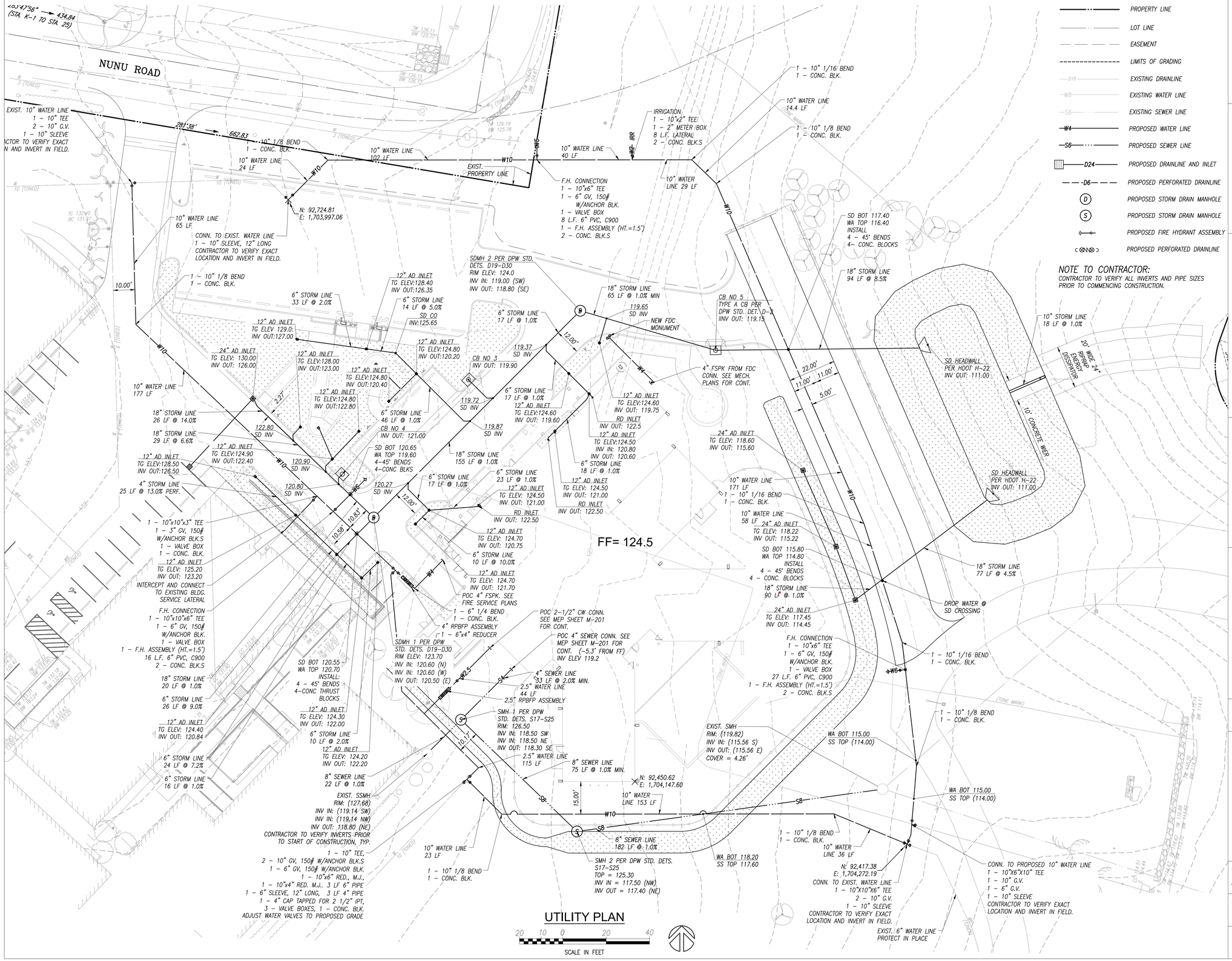
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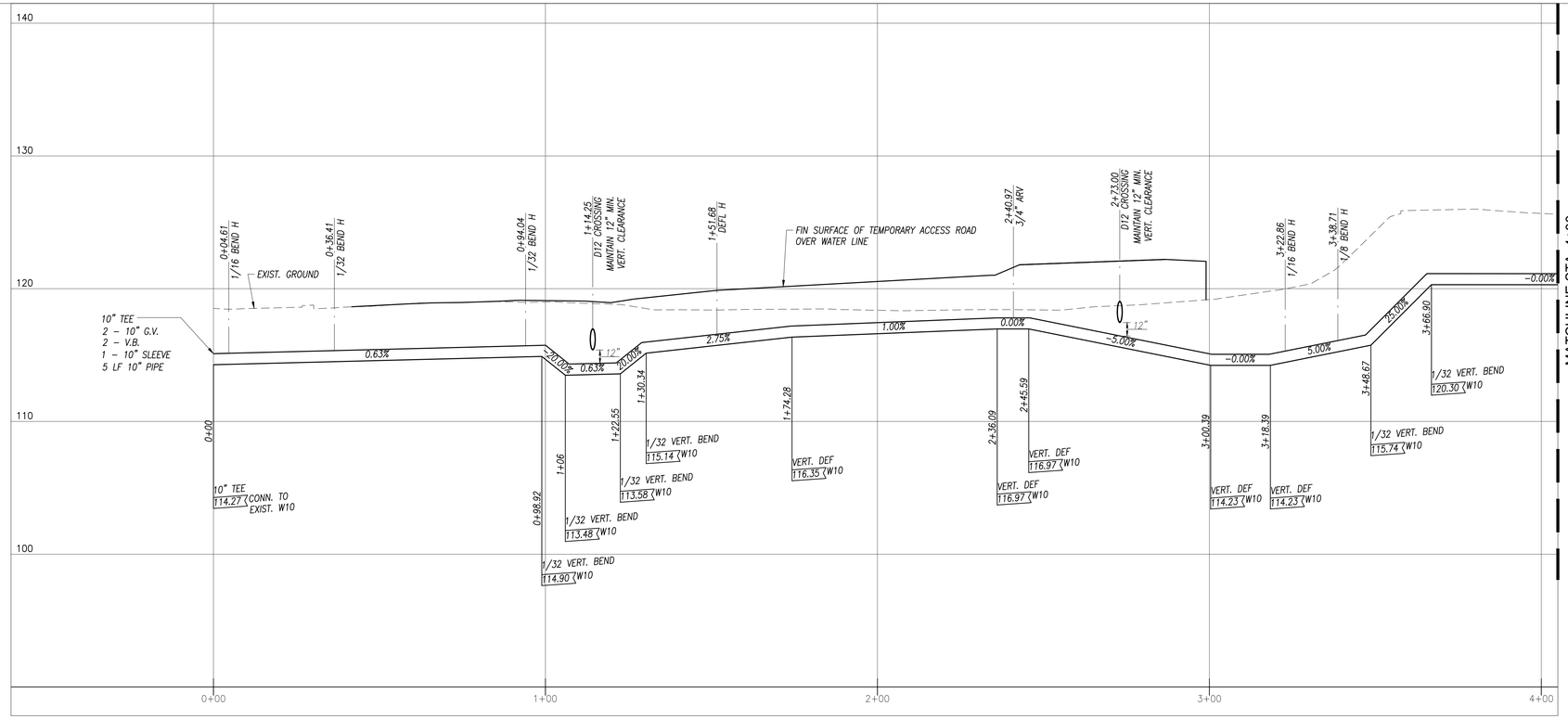
SITE & PAVING PLAN

SCALE: As indicated

DRAWN BY	CHECKED BY
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PROJECT NO.	SHEET NO.
221093-01	C004
SHEET ISSUE DATE	
02/27/2026	

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NUNU ROAD
EXIST. 10" WATER LINE
1 – 10" TEE
2 – 10" G.V.
1 – 10" SLEEVE
CONTRACTOR TO VERIFY EXACT LOCATION AND INVERT IN FIELD.
281'39"
662.83
10" 1/8 BEND
1 – CONC. BLK.
10" WATER LINE
24 LF
W10
10" WATER LINE
102 LF
EXIST. PROPERTY LINE
10" WATER LINE
40 LF
W6
W2.5
IRR
IRRIGATION
1 – 10"x2" TEE
1 – 2" METER BOX
8 LF. LATERAL
2 – CONC. BLK.S
F.H. CONNECTION
1 – 10"x6" TEE
1 – 6" GV, 150# W/ANCHOR BLK.
1 – VALVE BOX
8 L.F. 6" PVC, C900
1 – F.H. ASSEMBLY (HT.=1.5')
2 – CONC. BLK.S
10" WATER LINE 29 LF
1 – 10" 1/16 BEND
1 – CONC. BLK.
10" WATER LINE
14.4 LF
1 – 10" 1/8 BEND
1 – CONC. BLK.
N: 92,724.81
E: 1,703,997.06
10" WATER LINE
65 LF
CONN. TO EXIST. WATER LINE
1 – 10" SLEEVE, 12" LONG
CONTRACTOR TO VERIFY EXACT LOCATION AND INVERT IN FIELD.
10.00'
1 – 10" 1/8 BEND
1 – CONC. BLK.
W10
10" WATER LINE
177 LF
SDMH 2 PER DPW STD. DETS. D19–D30
RIM ELEV: 124.0
INV IN: 119.00 (SW)
INV OUT: 118.80 (SE)
18" STORM LINE
65 LF @ 1.0% MIN
119.65
SD INV
NEW FDC MONUMENT
CB NO 5
TYPE A CB PER DPW STD. DET. D-2
IINV OUT: 119.15
4" FSPK FROM FDC
CONN. SEE MECH. PLANS FOR CONT.
SD BOT 117.40
WA TOP 116.40
INSTALL
4 – 45° BENDS
4– CONC. BLOCKS
18" STORM LINE
94 LF @ 8.5%
6" STORM LINE
33 LF @ 2.0%
12" AD INLET
TG ELEV:128.40
INV OUT:126.35
6" STORM LINE
14 LF @ 5.0%
SD CO
INV:125.65
12" AD INLET
TG ELEV 129.0:
INV OUT:127.00
24" AD INLET
TG ELEV: 130.00
INV OUT: 126.00
12" AD INLET
TG ELEV:128.00
INV OUT:123.00
12" AD INLET
TG ELEV:124.80
INV OUT:120.20
12" AD INLET
TG ELEV:124.80
INV OUT:120.40
12" AD INLET
TG ELEV:124.80
INV OUT:122.80
6" STORM LINE
46 LF @ 1.0%
CB NO 4
INV OUT: 121.00
SD BOT 120.65
WA TOP 119.60
4–45° BENDS
4–CONC BLKS
6" STORM LINE
17 LF @ 1.0%
6" STORM LINE
17 LF @ 1.0%
119.37
SD INV
CB NO 3
INV OUT: 119.90
119.72
SD INV
119.87
SD INV
6" STORM LINE
17 LF @ 1.0%
12" AD INLET
TG ELEV:124.60
INV OUT: 119.60
12" AD INLET
TG ELEV:124.60
INV OUT: 119.75
RD INLET
INV OUT: 122.5
12" AD INLET
TG ELEV:124.50
INV IN: 120.80
INV OUT: 120.60
6" STORM LINE
18 LF @ 1.0%
12" AD INLET
TG ELEV: 124.50
INV OUT: 121.00
RD INLET
INV OUT: 122.50
18" STORM LINE
155 LF @ 1.0%
6" STORM LINE
23 LF @ 1.0%
12" AD INLET
TG ELEV: 124.50
INV OUT: 121.00
RD INLET
INV OUT: 122.50
12" AD INLET
TG ELEV: 124.70
INV OUT: 120.75
6" STORM LINE
10 LF @ 10.0%
12" AD INLET
TG ELEV: 124.70
INV OUT: 121.70
POC 4" FSPK. SEE FIRE SERVICE PLANS
1 – 6" 1/4 BEND
1 – CONC. BLK.
4" RPBFP ASSEMBLY
(1 – 6"x4" REDUCER
FF= 124.5
POC 2–1/2" CW CONN. SEE MEP SHEET M–201 FOR CONT.
POC 4" SEWER CONN. SEE MEP SHEET M–201 FOR CONT. (–5.3' FROM FF)
INV ELEV 119.2
SDMH 1 PER DPW STD. DETS. D19–D30
RIM ELEV: 123.70
INV IN: 120.60 (N)
INV IN: 120.60 (W)
INV OUT: 120.50 (E)
4" SEWER LINE
33 LF @ 2.0% MIN.
2.5" WATER LINE
44 LF
2.5" RPBFP ASSEMBLY
SMH 1 PER DPW STD. DETS. S17–S25
RIM: 126.50
INV IN: 118.50 SW
INV IN: 118.50 NE
INV OUT: 118.30 SE
2.5" WATER LINE
115 LF
8" SEWER LINE
75 LF @ 1.0% MIN.
N: 92,450.62
E: 1,704,147.60
10" WATER LINE 153 LF
8" SEWER LINE
182 LF @ 1.0%
SMH 2 PER DPW STD. DETS. S17–S25
TOP = 125.30
INV IN = 117.50 (NW)
INV OUT = 117.40 (NE)
WA BOT 118.20
SS TOP 117.60
EXIST. SMH
RIM: (119.82)
INV IN: (115.56 S)
INV OUT: (115.56 E)
COVER = 4.26'
WA BOT 115.00
SS TOP (114.00)
WA BOT 115.00
SS TOP (114.00)
1 – 10" 1/8 BEND
1 – CONC. BLK.
10" WATER LINE 36 LF
N: 92,417.38
E: 1,704,272.19
CONN. TO EXIST. WATER LINE
1 – 10"X10"x6" TEE
2 – 10" G.V.
1 – 10" SLEEVE
CONTRACTOR TO VERIFY EXACT LOCATION AND INVERT IN FIELD.
EXIST. 6" WATER LINE PROTECT IN PLACE
CONN. TO PROPOSED 10" WATER LINE
1 – 10"X6"X10" TEE
1 – 10" G.V.
1 – 6" G.V.
1 – 10" SLEEVE
CONTRACTOR TO VERIFY EXACT LOCATION AND INVERT IN FIELD.
10" STORM LINE
18 LF @ 1.0%
20' WIDE 24" RIPRAP ENERGY DISSIPATOR
SD HEADWALL PER HDOT H–22
INV OUT: 111.00
10' CONCRETE WIER
SD HEADWALL PER HDOT H–22
INV OUT: 111.00
22.00'
11.00'
11.00'
5.00'
10" WATER LINE
171 LF
1 – 10" 1/16 BEND
1 – CONC. BLK.
10" WATER LINE
58 LF
24" AD INLET
TG ELEV: 118.22
INV OUT: 115.22
SD BOT 115.80
WA TOP 114.80
INSTALL
4 – 45° BENDS
4 – CONC. BLOCKS
18" STORM LINE
90 LF @ 1.0%
24" AD INLET
TG ELEV: 117.45
INV OUT: 114.45
F.H. CONNECTION
1 – 10"x6" TEE
1 – 6" GV, 150# W/ANCHOR BLK.
1 – VALVE BOX
27 L.F. 6" PVC, C900
1 – F.H. ASSEMBLY (HT.=1.5')
2 – CONC. BLK.S
DROP WATER @ SD CROSSING
18" STORM LINE
77 LF @ 4.5%
1 – 10" 1/16 BEND
1 – CONC. BLK.
1 – 10" 1/8 BEND
1 – CONC. BLK.
12" AD INLET
TG ELEV:128.50
INV OUT:126.50
4" STORM LINE
25 LF @ 13.0% PERF.
1 – 10"x10"x3" TEE
1 – 3" GV, 150# W/ANCHOR BLK.S
1 – VALVE BOX
1 – CONC. BLK.
12" AD INLET
TG ELEV: 125.20
INV OUT: 123.20
INTERCEPT AND CONNECT TO EXISTING BLDG. SERVICE LATERAL
F.H. CONNECTION
1 – 10"x10"x6" TEE
1 – 6" GV, 150# W/ANCHOR BLK.
1 – VALVE BOX
1 – F.H. ASSEMBLY (HT.=1.5')
16 L.F. 6" PVC, C900
2 – CONC. BLK.S
18" STORM LINE
20 LF @ 1.0%
6" STORM LINE
26 LF @ 9.0%
12" AD INLET
TG ELEV: 124.40
INV OUT: 120.84
6" STORM LINE
24 LF @ 7.2%
6" STORM LINE
16 LF @ 1.0%
18" STORM LINE
26 LF @ 14.0%
18" STORM LINE
29 LF @ 6.6%
122.80
SD INV
120.90
SD INV
120.80
SD INV
120.27
SD INV
2.27'
10.83'
10.58'
12.00'
12.00'
10.71'
15.00'
SD BOT 120.55
WA TOP 120.70
INSTALL:
4 – 45° BENDS
4–CONC THRUST BLOCKS
12" AD INLET
TG ELEV: 124.30
INV OUT: 122.00
6" STORM LINE
10 LF @ 2.0%
12" AD INLET
TG ELEV: 124.20
INV OUT: 122.20
8" SEWER LINE
22 LF @ 1.0%
EXIST. SSMH
RIM: (127.68)
INV IN: (119.14 SW)
INV IN: (119.14 NW)
INV OUT: 118.80 (NE)
CONTRACTOR TO VERIFY INVERTS PRIOR TO START OF CONSTRUCTION, TYP.
1 – 10" TEE,
2 – 10" GV, 150# W/ANCHOR BLK.S
1 – 6" GV, 150# W/ANCHOR BLK.
1 – 10"x6" RED., M.J.,
1 – 10"x4" RED. M.J., 3 LF 6" PIPE
1 – 6" SLEEVE, 12" LONG, 3 LF 4" PIPE
1 – 4" CAP TAPPED FOR 2 1/2" IPT,
3 – VALVE BOXES, 1 – CONC. BLK.
ADJUST WATER VALVES TO PROPOSED GRADE
10" WATER LINE
23 LF
1 – 10" 1/8 BEND
1 – CONC. BLK.
(TONE MARK)
(TONE MARK)
(TONE MARK)



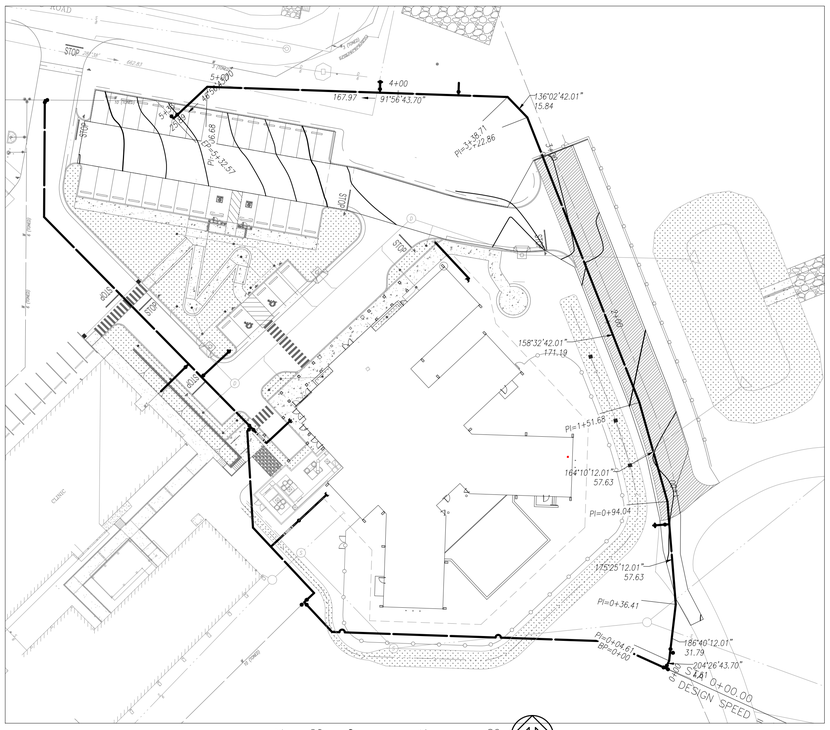
PROFILE – 10" WATER LINE

SCALE: HORIZ: 1"=20'

HORIZ 20 10 0 20 40

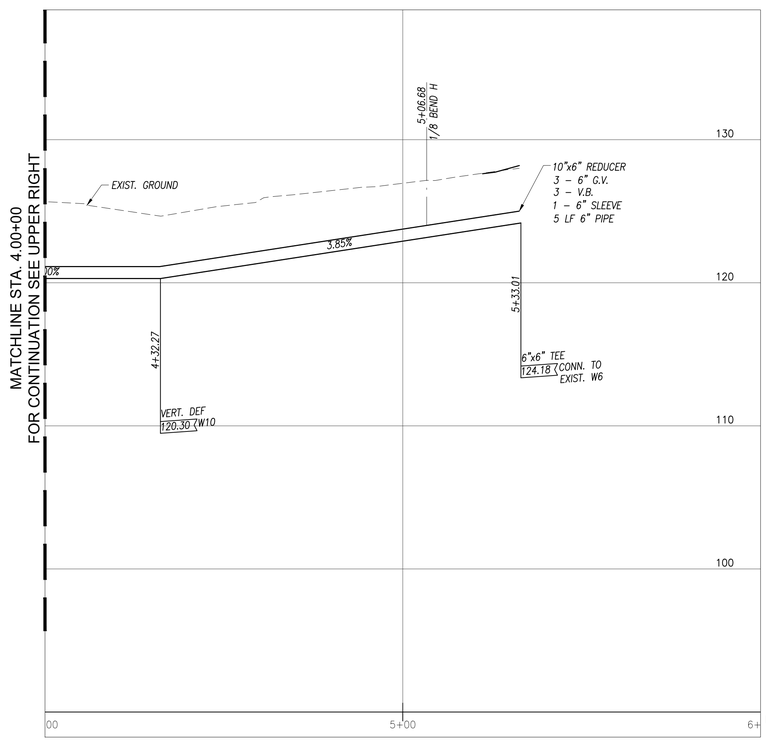
VERT 4 0 4 8

SCALE IN FEET



40 20 0 40 80

SCALE IN FEET



PROFILE – 10" WATER LINE

HORIZ 20 10 0 20 40

VERT 4 0 4 8

SCALE IN FEET

G70

111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
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REVISIONS

△	Date	Description

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

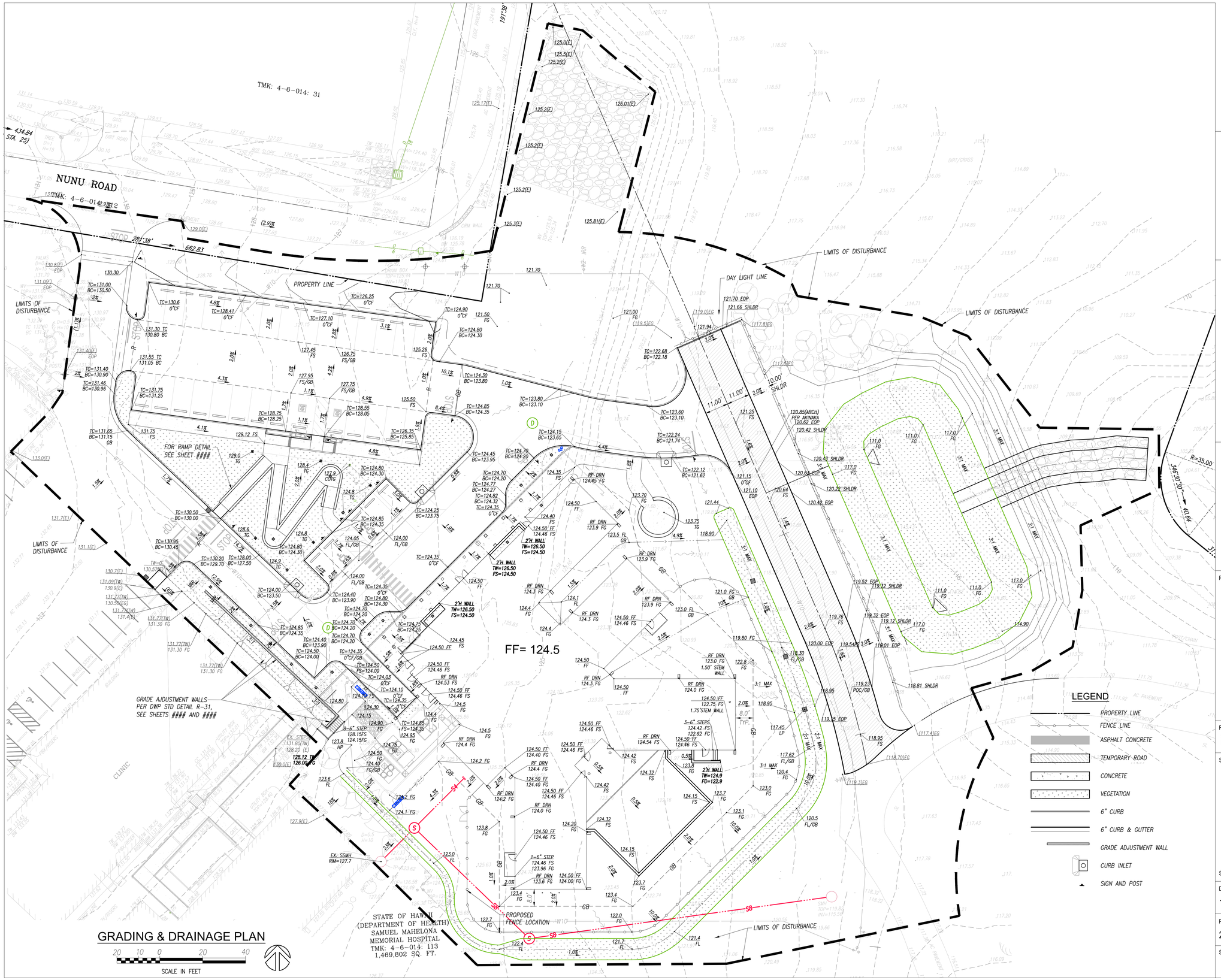
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SHEET NAME
UTILITY PROFILE

SCALE: As indicated

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221093-01	C006
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GRADING & DRAINAGE PLAN

20 10 0 20 40

SCALE IN FEET

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TMK#: 4-6-014:113

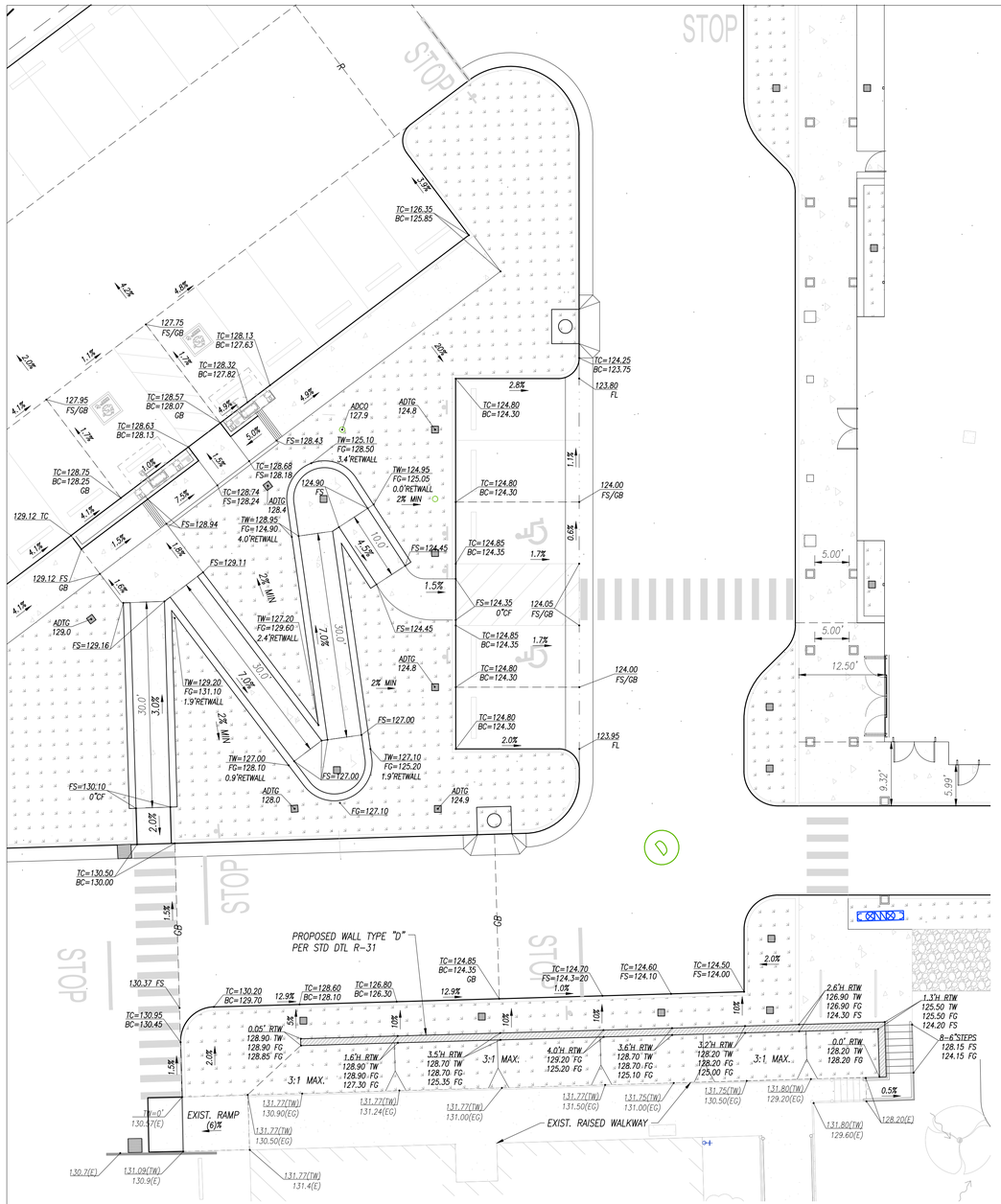
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SHEET NAME
GRADING & DRAINAGE PLAN

SCALE: As indicated

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PROJECT NO.	SHEET NO.
221093-01	C007
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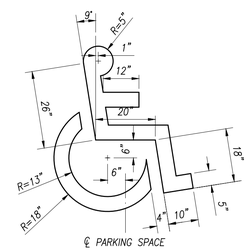
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ACCESSIBLE RAMPS, PARKING AND LOADING DETAILS

10 5 0 10 20

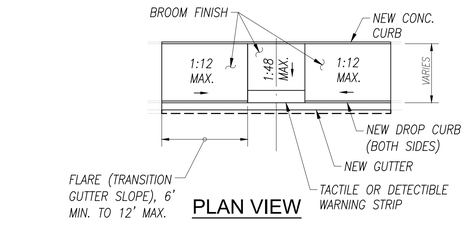
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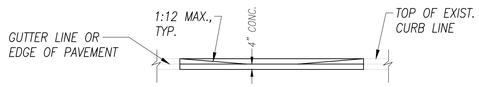
℄ PARKING SPACE

INTERNATIONAL SYMBOL OF ACCESSIBILITY

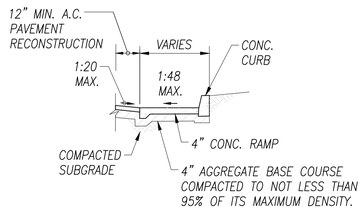
NOT TO SCALE



PLAN VIEW



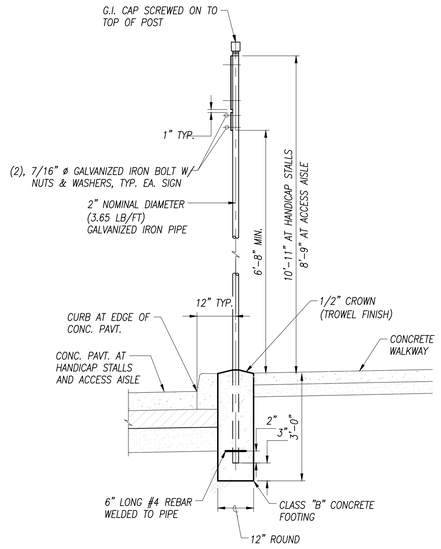
ELEVATION



SECTION

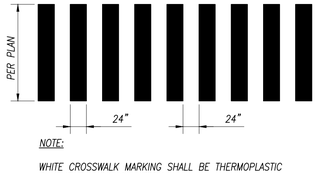
ACCESSIBLE CURB RAMP TYPE B

NOT TO SCALE



ACCESSIBLE PARKING SIGN POST

NOT TO SCALE

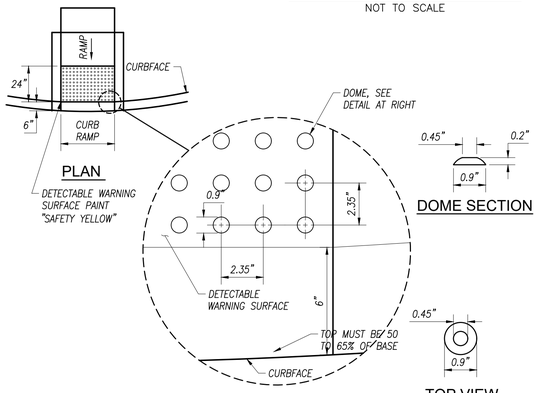


NOTE:

WHITE CROSSWALK MARKING SHALL BE THERMOPLASTIC PAVEMENT MARKING MATERIAL.

CROSSWALK (PRIVATE)

NOT TO SCALE

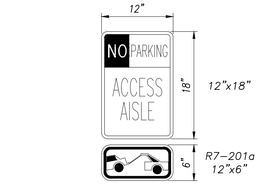


NOTES:

1. DOME SIZE: TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A BASE DIAMETER OF 0.9 INCH MINIMUM AND 1.4 INCHES MAXIMUM, A TOP DIAMETER OF 50 PERCENT OF THE BASE DIAMETER MINIMUM TO 65 PERCENT OF THE BASE DIAMETER MAXIMUM, AND A HEIGHT OF 0.2 INCH.
2. DOME SPACING: TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A CENTER-TO-CENTER SPACING OF 1.6 INCHES MINIMUM AND 2.4 INCHES MAXIMUM, AND A BASE-TO-BASE SPACING OF 0.65 INCH MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID.
3. CONTRAST: DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT DOMES ON A SQUARE GRID.
4. PLATFORM EDGES: DETECTABLE WARNING SURFACES AT PLATFORM BOARDING EDGES SHALL BE 24 INCHES WIDE AND SHALL EXTEND THE FULL LENGTH OF THE PUBLIC USE AREAS OF THE PLATFORM
5. THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP (EXCLUSIVE OF FLARED SIDES) AND SHALL EXTEND EITHER THE FULL DEPTH OF THE CURB RAMP OR 24 INCHES DEEP MINIMUM MEASURED FROM THE BACK OF THE CURB ON THE RAMP SURFACE.

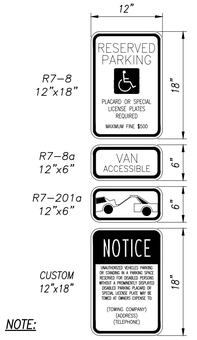
DETECTABLE WARNING ON CURB RAMP DETAIL

NOT TO SCALE



ACCESSIBLE ACCESS AISLE SIGNS

NOT TO SCALE



NOTE:

CONTRACTOR SHALL CONFIRM THE TOW OPERATOR NAME, ADDRESS AND TELEPHONE NUMBER WITH THE FACILITY MANAGER PRIOR TO THE FABRICATION OF THE SIGN.

ACCESSIBLE STALL SIGNS

NOT TO SCALE

G70

111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

	Date	Description

CD / BID SET

02/27/26

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

RYAN M. K. CHAN
LICENSED PROFESSIONAL ENGINEER
No. 15480-C
HAWAII, U.S.A.

License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

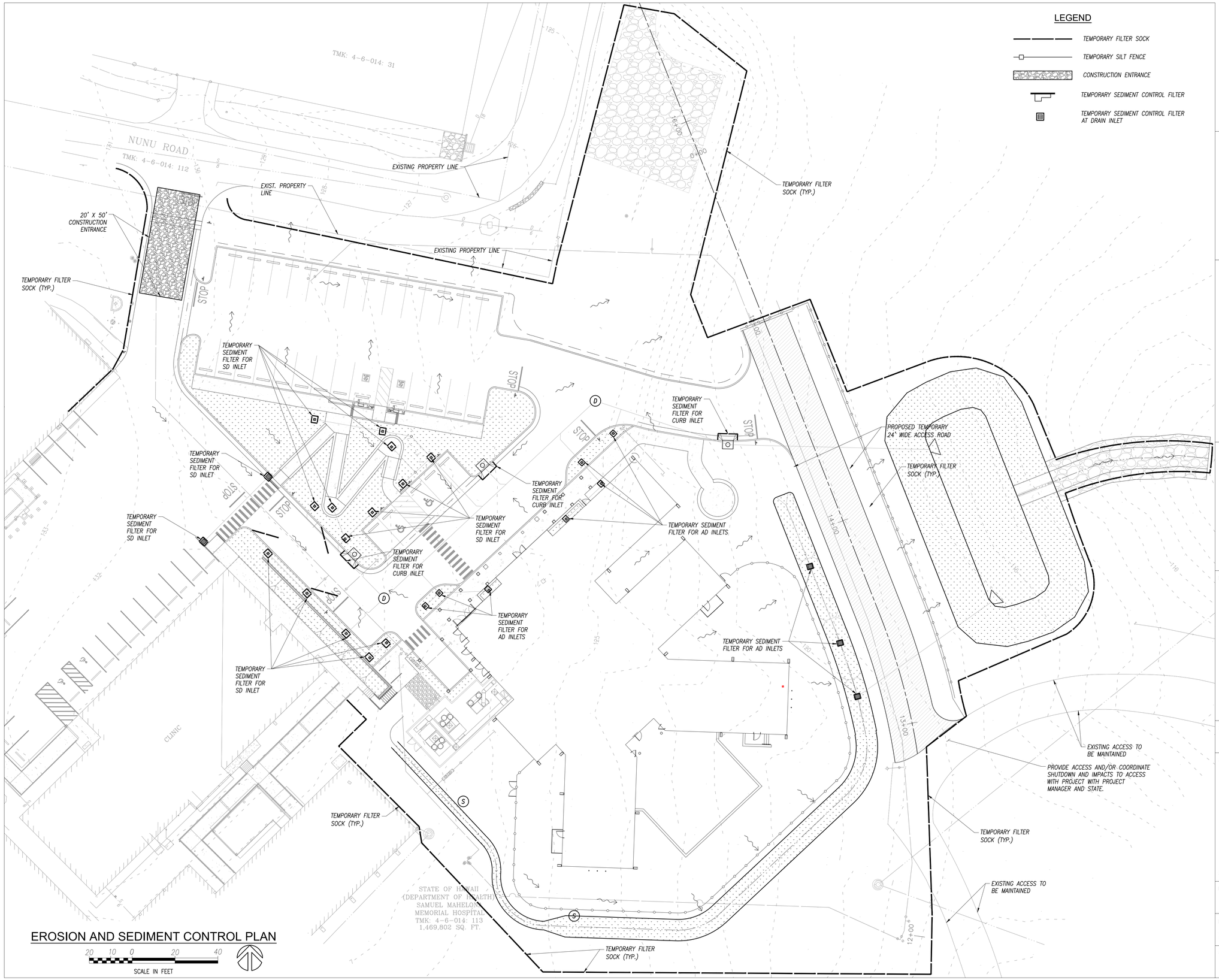
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SHEET NAME
ADA DETAILS

SCALE: As indicated

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TMC	RMKC
PROJECT NO.	SHEET NO.
221093-01	C008
SHEET ISSUE DATE	
02/27/2026	

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EROSION AND SEDIMENT CONTROL PLAN

20 10 0 20 40

SCALE IN FEET

G70

111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

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TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME

EROSION AND SEDIMENT CONTROL PLAN

SCALE: As indicated

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221093-01	C009
SHEET ISSUE DATE	
02/27/2026	

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EROSION CONTROL/BEST MANAGEMENT PRACTICES (BMP) NOTES:

1. REFER TO EROSION CONTROL BMP DETAILS ON THIS SHEET.
2. EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO START OF PROJECT AND BE MAINTAINED UNTIL COMPLETION OF PROJECT AND ALL DISTURBED AREAS AREAS ARE FULLY STABILIZED.
3. TEMPORARY EROSION CONTROLS SHALL BE IN PLACE PRIOR TO ANY GRADING, DEMOLITION, OR CONSTRUCTION.
4. THE BMP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS AND SHALL BE UPGRADED DURING THE CONSTRUCTION PERIOD AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN RUNOFF DOES NOT LEAVE THE WORK SITE.
5. ALL POINTS OF INGRESS AND EGRESS TO THE SITE SHALL BE PROTECTED WITH A STABILIZED CONSTRUCTION ENTRANCE. THE CONTRACTOR SHALL ENSURE THAT ALL TIRES OF CONSTRUCTION VEHICLES ARE SUFFICIENTLY CLEANED OFF SO THAT DIRT OR DEBRIS IS NOT TRACKED OFF THE CONSTRUCTION SITE. WASHING OFF TIRES WITH WATER WILL NOT BE ACCEPTABLE UNLESS THE RUNOFF IS CONTAINED AND DOES NOT ENTER THE STORM DRAIN SYSTEM OR ONTO THE STATE'S ROW. GOOD HOUSEKEEPING SHALL BE UTILIZED TO ENSURE PROTECTION OF ROADWAYS FROM MUD, DIRT, AND DEBRIS.
6. ALL STORM DRAIN INLETS ON SITE AND THOSE OFFSITE WHICH MAY RECEIVE RUNOFF FOR THE SITE SHALL USE AN INLET PROTECTION DEVICE.
7. PROVIDE INLET FILTER (TRUE DAM ® INLET PROTECTION OR APPROVED EQUAL) FOR ALL CATCH BASIN OPENINGS.
8. CONTRACTOR TO PERIODICALLY INSPECT CATCH BASIN AND INLET FILTERS ESPECIALLY DURING HEAVY RAINFALL. CONTRACTOR SHALL ALSO ENSURE DRAINAGE THROUGH FILTER MATERIAL IS MAINTAINED.
9. SEDIMENT FENCES OR BARRIERS (FILTER SOCKS) SHALL BE USED DOWN SLOPE OF ALL DISTURBED AREAS AND ALONG THE PERIMETER OF THE PROJECT AREA.
10. DUST CONTROL SHOULD BE APPLIED TO REDUCE DUST EMISSIONS. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS CONTAINED IN HAWAII ADMINISTRATIVE RULES: CHAPTER 11-60, "AIR POLLUTION CONTROL".
11. STOCKPILING CONSTRUCTION MATERIAL IN THE ROADWAY, SIDEWALK AND PUBLIC RIGHT-OF-WAY AREAS ARE PROHIBITED.
12. STABILIZATION CONTROL
    A. TEMPORARY – ALL SLOPES AND EXPOSED AREAS SHALL BE IMMEDIATELY MULCHED OR PLANTED WHEN FINAL GRADES ARE ESTABLISHED OR WHEN GRADING WORK WILL BE DELAYED FOR MORE THAN TWO WEEKS AND BEFORE THE REMOVAL OF THE PROJECT'S TEMPORARY BMP.
    B. PERMANENT – AREA WILL BE COVERED WITH BY EITHER BUILDINGS, CONCRETE WALKWAY OR AC PAVEMENT AND EXPOSED AREAS SHALL BE LANDSCAPED WHEN FINAL GRADES ARE ESTABLISHED
13. THE FINAL LIFT OF EACH DAY'S WORK SHALL BE COMPACTED TO PREVENT EROSION OF FILL MATERIAL.
14. AT THE END OF CONSTRUCTION OPERATIONS AND AT THE COMPLETION OF PROJECT, CONTRACTOR SHALL INSPECT ALL CATCH BASIN, DRAIN INLET AND DRAIN MANHOLE SURROUNDING THE PROJECT SITE. ANY ACCUMULATED SEDIMENT AND DEBRIS FOUND IN THE STORM DRAIN STRUCTURES SHALL BE REMOVED. PLEASE NOTE THAT FLUSHING INTO THE DRAIN STRUCTURES ARE PROHIBITED.
15. ANY DIRT OR GRASSED AREA DISTURBED SHALL BE RESTORED BY RE-GRASSING THE AREA OR BY SEEDED HYDROMULCH. THE GRASS SHALL BE FULLY ESTABLISHED AT COMPLETION OF PROJECT.

EROSION AND SEDIMENT CONTROL PLAN SCHEDULE:

1. INSTALL INLET PROTECTION AND PERIMETER CONTROLS AROUND STAGING AREAS AND MATERIAL STOCKPILES AS NEEDED.
2. PROCEED WITH CONSTRUCTION WITH LEAST POSSIBLE DISTURBANCE OF VEGETATIVE AREAS AND TEMPORARY STRUCTURES.
3. INSTALL PERIMETER CONTROLS AROUND ACTIVE WORK AREAS AT THE END OF EACH BUSINESS DAY IF NOT STABILIZED.
4. PLANT PERMANENT GROUND COVER ACCORDING TO THE LANDSCAPING PLAN AS SOON AS POSSIBLE.
5. REMOVE OR DISMANTLE TEMPORARY EROSION CONTROL STRUCTURES AFTER PERMANENT STABILIZATION.

DUST CONTROL NOTE:

THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE MEASURES IT WILL TAKE FOR THE CONTROL OF FUGITIVE DUST FROM THE WORK SITE. THE MEASURES MAY INCLUDE BUT NOT BE LIMITED TO THE INSTALLATION OF DUST SCREENS, WATERING OF THE SITE, FILL MATERIAL BEING PLACED, AND DELAYING WORK IN THE WEEK THAT PREVAILING WIND DIRECTION SHOULD SHIFT.

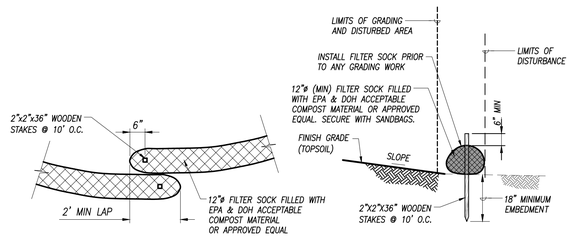
MAINTENANCE NOTE:

EROSION CONTROL MEASURES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

RAIN RESPONSE PLAN:

THE FOLLOWING WILL BE PERFORMED WHEN RAIN IS IMMINENT OR IS FORECASTED IN THE NEXT 48 HOURS:

1. TEMPORARY SUSPENSION OF ACTIVE GRADING.
2. INSPECT ALL PERIMETER CONTROLS, AND INLET PROTECTION DEVICES, AND MAINTAIN AS NEEDED. REINSTALL ANY PERIMETER CONTROLS THAT WERE REMOVED DUE TO ACTIVE WORK IN THE AREA. IF SEVERE STORM IS EXPECTED, REMOVE INLET PROTECTION DEVICES TO PREVENT FLOODING ON SURROUNDING STREETS.
3. COVER OR RELOCATE MATERIAL STOCKPILES AND LIQUID MATERIAL CONTAINERS TO AVOID CONTACT WITH RAINWATER.
4. PLACE SPILL PANS OR OIL-ONLY SPILL PADS UNDER CONSTRUCTION VEHICLES TO PREVENT RUNOFF FROM CONTACTING ANY SPILLED PETROLEUM PRODUCTS. PROPERLY DISPOSE OF ANY ACCUMULATED OILY WATER AFTER THE RAIN EVENT.
5. RE-INSPECT AFTER THE RAIN EVENT AND REPLACE OR MAINTAIN BMPS AS NEEDED.

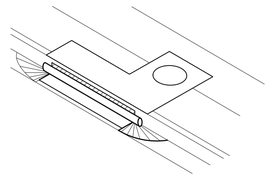


NOTES:

1. WHEN JOINING TWO SECTIONS OF FILTER SOCK, A MINIMUM OF 2 FEET SHOULD BE MADE SO THAT FILTER SOCK SIT SIDE BY SIDE.
2. CONTRACTOR SHALL REMOVE ANY DEBRIS IN PATH OF FILTER SOCK TO ENSURE GOOD GROUND CONTACT.
3. COMPOST SHALL NOT CONTAIN BIOSOLIDS AND SHOULD BE CONSISTENT WITH EPA GUIDELINES.
4. SHOULD THE FILTER FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE FILTER SOCK STILL BE NECESSARY, THE FILTER SOCK SHALL BE REPLACED PROMPTLY.

FILTER SOCK/FILTRATION TUBE

NOT TO SCALE

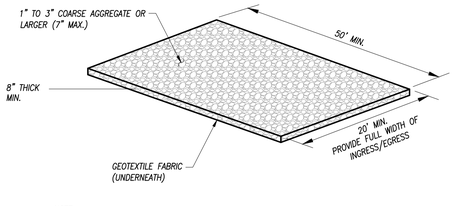


NOTES:

1. SEDIMENT CONTROL FILTERS SHALL BE INSTALLED ON ALL NEW CATCH BASINS WITHIN PROJECT SITE AS WELL AS ALL CATCH BASINS FRONTING THE PROJECT SITE AS SHOWN ON THIS SHEET.
2. AT THE END OF THE OPERATIONS, ALL THE CATCH BASINS SURROUNDING THE PROJECT SITE SHALL BE INSPECTED FOR ANY ACCUMULATION OF SEDIMENT AND DEBRIS. THE ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM THE CATCH BASINS. FLUSHING INTO THE CATCH BASINS IS PROHIBITED.
3. CONTRACTOR SHALL REMOVE SEDIMENT CONTROL FILTERS DURING TIMES OF ABOVE-NORMAL RAINFALL EVENTS AND REPLACE THEM AFTER THE EVENT HAS PASSED.

SEDIMENT FILTER FOR CATCH BASINS

NOT TO SCALE

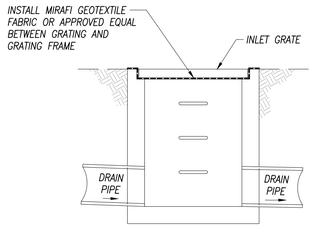


NOTE:

1. ANY SEDIMENT CARRIED FROM THE SITE ONTO THE STREET SHALL BE CLEANED UP IMMEDIATELY.

CONSTRUCTION ENTRANCE

NOT TO SCALE



NOTE:

1. MIRAFI GEOTEXTILE FABRIC SHALL BE INSTALLED UNDER ALL DRAIN INLET GRATES WITHIN THE IMMEDIATE VICINITY OF THE PROJECT SITE.

TEMPORARY GEOTEXTILE FABRIC FOR GRATED DRAIN INLETS

NOT TO SCALE

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

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TMK#: 4-6-014:113

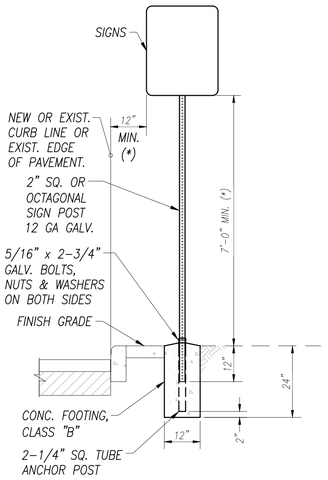
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SHEET NAME
EROSION CONTROL NOTES AND DETAILS

SCALE: As indicated

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JCR	RMKC
PROJECT NO.	SHEET NO.
221093-01	C010
SHEET ISSUE DATE	
02/27/2026	

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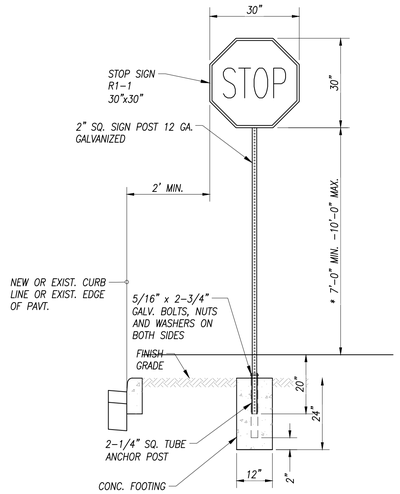
ANCHOR POST NOTES:

1. KEEP INSIDE OF 2-1/4" ANCHOR POST FREE FROM IMPEDIMENTS THAT MAY PREVENT PROPER SEATING OF 2" SIGN POST.
2. SQUARE TUBING SIGN POST SHALL BE TELESCOPING TYPE WITH 7/16" DIA. HOLES AT 1" O.C. ON FOUR SIDES.
3. OCTAGON SIGN POST SHALL BE TELESCOPING TYPE WITH 7/16" DIA. HOLES AT 1" O.C. ON TWO SIDES.
4. USE 5/16" x 2-3/4" BOLTS TO SECURE THE OCTAGONAL AND SQUARE TUBING POST ONTO THE 2-1/4" SQUARE ANCHOR POST.

(*) ALL SIGN(S) INSTALLATIONS MUST MEET LATERAL AND HEIGHT CLEARANCES, INCLUDING NEW SIGNS THAT WILL BE POSTED ON TO EXIST. SIGN POST. EXTEND, RELOCATE OR REPLACE AS REQUIRED TO MEET CLEARANCE REQUIREMENTS.

INSTALLATION OF NEW OR RELOCATED SIGN POST WITH ANCHOR POST & CONCRETE FOOTING

NOT TO SCALE



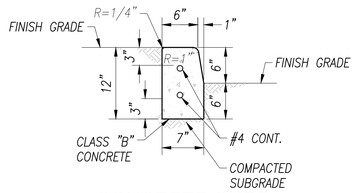
NOTES:

1. KEEP INSIDE OF 2-1/4" ANCHOR POST FREE FROM IMPEDIMENTS THAT MAY PREVENT PROPER SEATING OF 2" SIGN POST.
2. SIGN POST SHALL BE TELESCOPING TYPE WITH 7/16" DIA. HOLES AT 1" O.C. ON FOUR SIDES.
3. USE 5/16" x 2-3/4" BOLTS TO SECURE THE POST ONTO THE 2-1/4" ANCHOR POST.

(*) ALL SIGN(S) INSTALLATIONS MUST MEET LATERAL AND HEIGHT CLEARANCES, INCLUDING NEW SIGNS THAT WILL BE POSTED ON TO EXIST. SIGN POST. EXTEND, RELOCATE OR REPLACE AS REQUIRED TO MEET CLEARANCE REQUIREMENTS.

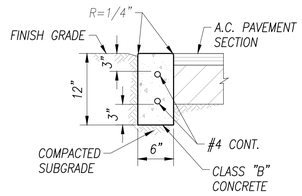
STOP SIGN POST

NOT TO SCALE



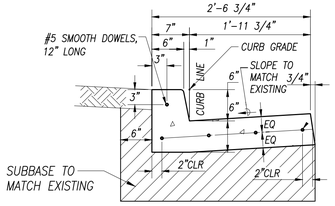
CONCRETE CURB

NOT TO SCALE



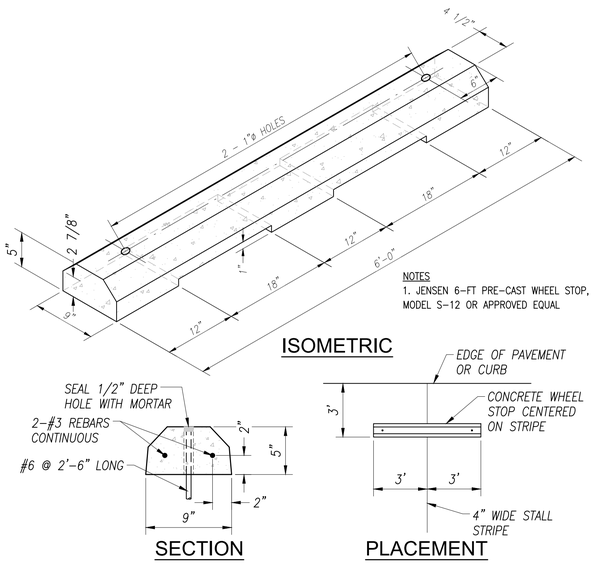
CONCRETE HEADER

NOT TO SCALE



CONCRETE CURB & GUTTER DETAIL (PRIVATE)

NOT TO SCALE



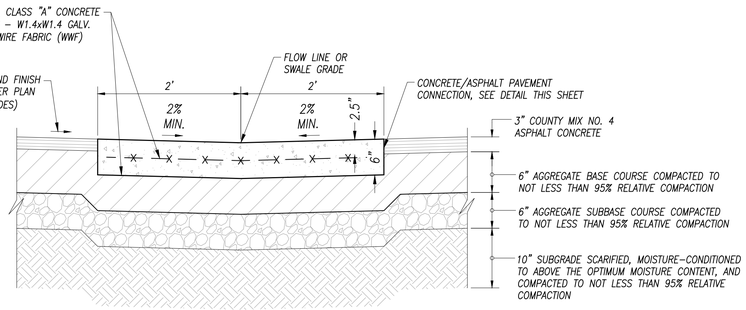
NOTES
1. JENSEN 6-FT PRE-CAST WHEEL STOP, MODEL S-12 OR APPROVED EQUAL

ISOMETRIC

SECTION PLACEMENT

6-FT AND 4-FT PRE-CAST CONCRETE WHEEL STOP

NOT TO SCALE

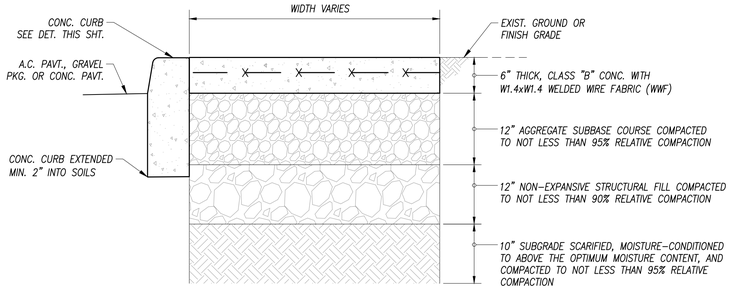


NOTES:

1. TRANSVERSE WEAKENED PLANE JOINTS SHALL BE FORMED ON THE VALLEY GUTTER AND SPACED AS SHOWN ON THE PLANS. JOINTS SHALL NOT EXCEED 12' INTERVALS. THE JOINTS MAY BE FORMED WITH A REMOVABLE METAL STRIP OR BY SAWING. CONSTRUCTION JOINTS SHALL BE KEYED WITH A MINIMUM OF ONE #3 TIE BAR 15 INCHES LONG. THE WIDTH OF CONTRACTION JOINTS SHALL BE AT LEAST 1/8", BUT NOT GREATER THAN 3/16".
2. EXPANSION JOINTS SHALL BE CONSTRUCTED AT EVERY 96- TO 100-FOOT SPACING, AT THE BEGINNING AND AT THE END OF CHANGES IN DIRECTION, AND AT FIXED STRUCTURES, SUCH AS DRAINAGE STRUCTURE, BUILDINGS, BRIDGES, OR WALLS. THE JOINTS SHALL BE CONSTRUCTED WITH 1/2" THICK PRE-MOLDED EXPANSION-TYPE FILLER, EXTENDING FROM THE BOTTOM OF VALLEY GUTTER TO APPROXIMATELY 1/2" BELOW THE TOP OF VALLEY GUTTER, THEN FILLED WITH JOINT SEALER.
3. CONCRETE SWALES SHALL BE BROOM FINISHED LONGITUDINALLY.

CONCRETE SWALE

NOT TO SCALE

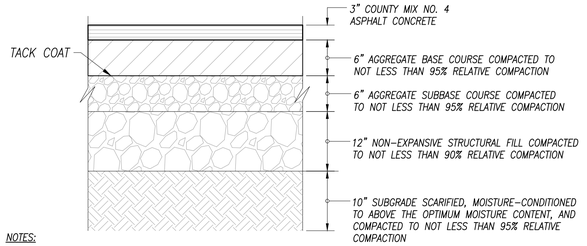


NOTES:

1. SEE SITE & PAVING PLAN ON SHEET C004 FOR PAVEMENT TYPE AND LOCATIONS
2. CONCRETE AND AGGREGATE SUBBASE COURSE MATERIALS SHALL MEET THE MATERIAL REQUIREMENTS AS SPECIFIED IN THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CITY & COUNTY OF KAUAI, SEPTEMBER 1986.

CONCRETE SIDEWALK PAVEMENT SECTION

NOT TO SCALE

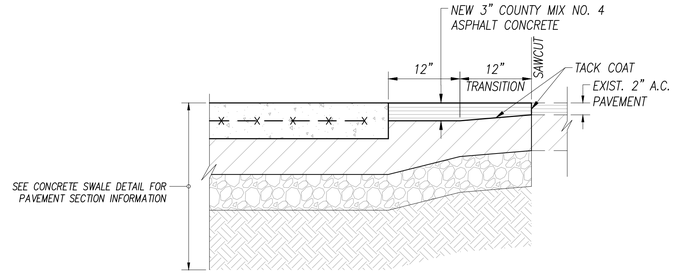


NOTES:

1. SEE SITE & PAVING PLAN ON SHEET C004 FOR PAVEMENT TYPE AND LOCATIONS
2. ASPHALT CONCRETE, AGGREGATE BASE AND SUBBASE COURSE MATERIALS SHALL MEET THE MATERIAL REQUIREMENTS AS SPECIFIED IN THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CITY & COUNTY OF KAUAI, SEPTEMBER 1986.

ASPHALT CONCRETE PAVEMENT SECTION

NOT TO SCALE



TYPICAL CONCRETE PAVEMENT/ASPHALT CONCRETE PAVEMENT/EXISTING ACP CONNECTIONS

NOT TO SCALE

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111 S. KING STREET, SUITE 170
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808.523.5866
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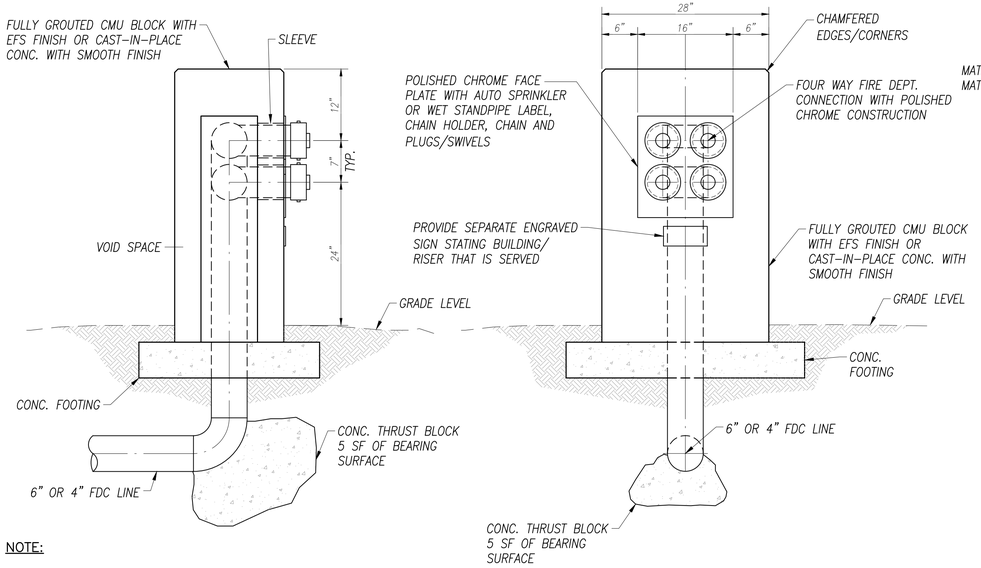
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SHEET NAME
SITE DETAILS

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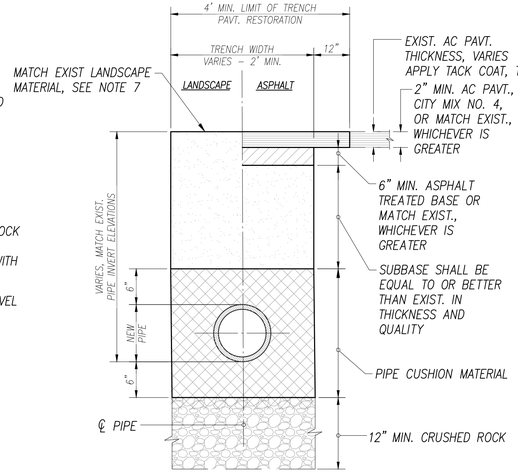
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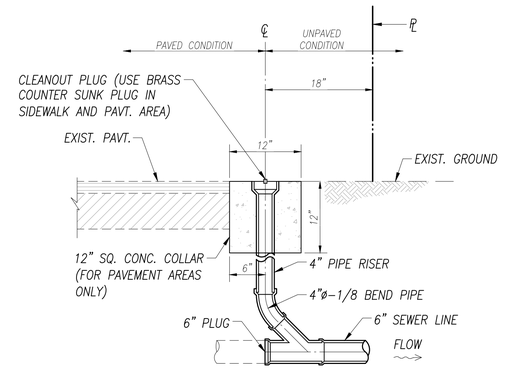
NOTE:

1. FIRE DEPARTMENT HOSE CONNECTIONS SERVING STANDPIPE AND SPRINKLER SYSTEMS SHALL BE LOCATED WITHIN 20 FEET OF A FIRE APPARATUS ACCESS ROAD, NOT LESS THAN 18 INCHES AND NOT MORE THAN 4 FEET ABOVE GRADE, OR AS APPROVED BY THE AHJ. APPROPRIATE IDENTIFICATION SIGNS SHALL BE PROVIDED AS REQUIRED BY THE AHJ.

FIRE DEPARTMENT CONNECTION MONUMENT (PRIVATE)
NOT TO SCALE



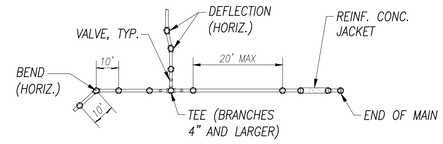
WATER TRENCH RESTORATION
NOT TO SCALE



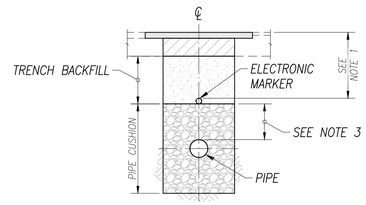
CLEAN OUT TO GRADE (PRIVATE)
NOT TO SCALE

NOTES:

1. PAVEMENT STRUCTURE SHALL BE EQUAL TO OR BETTER THAN EXISTING IN THICKNESS AND QUALITY.
2. FOR ROAD GRADES 0% TO 7.99% PRIME COAT IS NOT REQUIRED.
3. ALL DISTURBED PAVEMENT MARKINGS SHALL BE REPLACED AND ALL REQUIRED UTILITY ADJUSTMENTS SUCH AS MANHOLE COVERS ETC. SHALL BE DONE BY THE CONTRACTOR.
4. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER UTILITIES WITHIN THE VICINITY.
5. FINISH GRADES SHALL MATCH EXISTING GRADES.
6. IN LANDSCAPED AREAS, MATCH EXISTING ADJACENT LANDSCAPE MATERIALS. IN GRASSED AREAS, PROVIDE 6" MIN. EXIST. TOPSOIL AND ENSURE FULL ESTABLISHMENT OF TURF.



PLAN VIEW

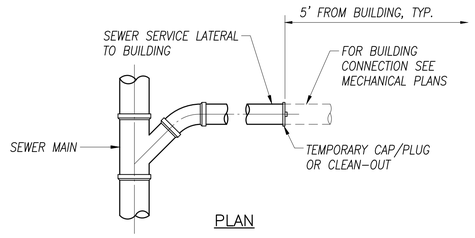


SECTION VIEW

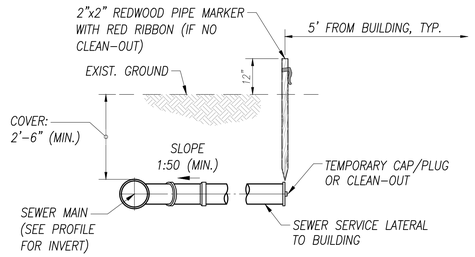
NOTES:

1. INSTALL ELECTRONIC MARKER OVER CENTER LINE OF PIPE AT A MINIMUM DEPTH OF 2 FEET AND A MAXIMUM DEPTH OF 3 FEET FROM FINISH GRADE.
2. INSTALL TRENCH BACKFILL AND PIPE CUSHION MATERIAL IN ACCORDANCE TO THE PLANS AND SPECIFICATIONS.
3. INSTALL ELECTRONIC MARKER AT A MINIMUM CLEARANCE OF 6-INCHES ABOVE THE PIPE OR ABOVE CONCRETE JACKETS.

ELECTRONIC MARKER INSTALLATION
NOT TO SCALE

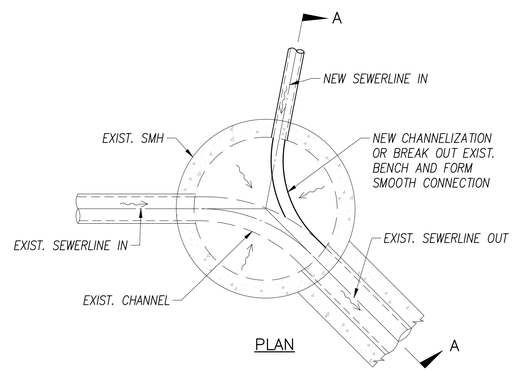


PLAN

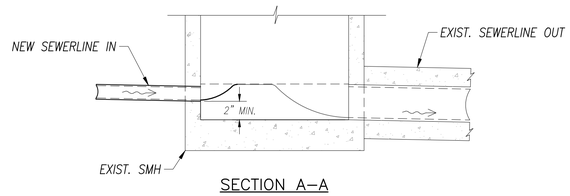


ELEVATION

SEWER LATERAL (PRIVATE)
NOT TO SCALE

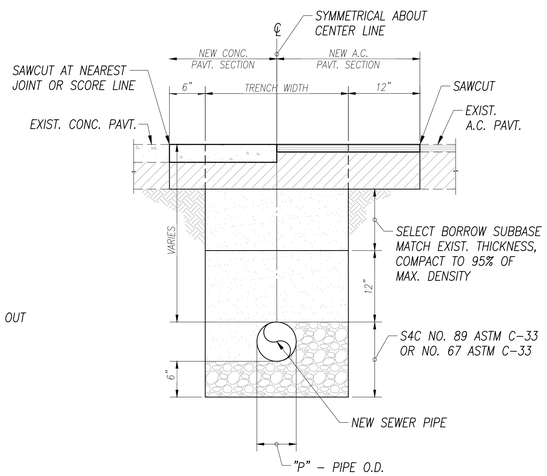


PLAN



SECTION A-A

SEWER MANHOLE CHANNELIZATION (PRIVATE)
NOT TO SCALE



TYPICAL TRENCH RESTORATION FOR SEWER PIPE (PRIVATE)
NOT TO SCALE

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

	Date	Description

CD / BID SET

02/27/26

This work was prepared by me or under my supervision and construction of this project will be under my observation

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RYAN M. K. CHAN
LICENSED PROFESSIONAL ENGINEER
No. 15480-C
HAWAII, U.S.A.

License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

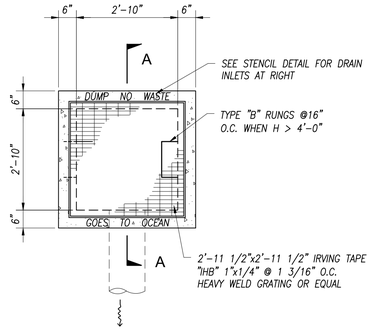
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
WATER & SEWER DETAILS

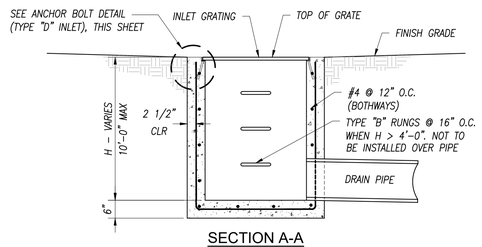
SCALE: As indicated

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TMC	RMKC
PROJECT NO.	SHEET NO.
221093-01	C012
SHEET ISSUE DATE	
02/27/2026	

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Publish By: TMC
Publish Name: C012 WATER & SEWER DETAILS.dwg



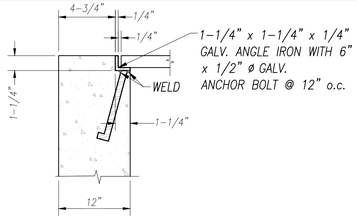
PLAN



SECTION A-A

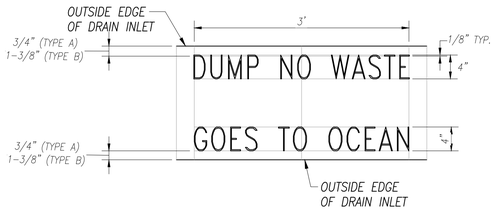
DRAIN INLET

NOT TO SCALE



DETAIL – ANCHOR BOLT

NOT TO SCALE



SPECIFICATIONS

MATERIAL: ALUMINUM ALLOY (CAST ALUMINUM), LEAD, OR EQUAL

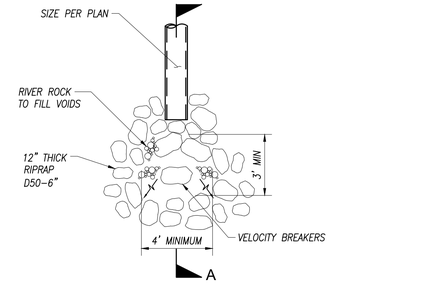
LETTERING: HEIGHT OF LETTERS SHALL BE 2" HIGH AND 1/8" WIDE. THE UNDER SIDE OF ALL LETTERING SHALL BE V-SHAPED.

PLACEMENT: THE STENCIL SHALL BE CENTERED ON THE EXPOSED PORTION OF CONCRETE AND SHALL BE 3/4" (TYPE "A") OR 1-3/8" (TYPE "B") AWAY FROM THE OUTSIDE EDGE OF THE INLET.

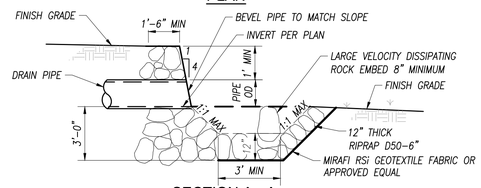
IMPRESSION: THE STENCIL SHALL BE PRESSED 1/4" INTO THE GREEN.

STENCIL FOR DRAIN INLET

NOT TO SCALE



PLAN



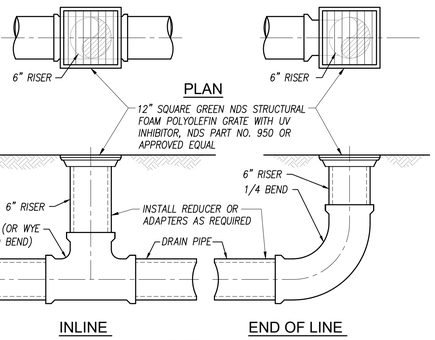
SECTION A - A

NOTES:

1. UNLESS SPECIFIED OTHERWISE, ALL CONSTRUCTION SHALL BE PURSUANT TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS REVISED BY THE CITY AND COUNTY OF HONOLULU.
2. FOR DRAIN PIPES, PIPE MATERIALS SHALL BE PURSUANT TO "SECTION 24 – DRAIN PIPES" OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS REVISED BY THE CITY AND COUNTY OF HONOLULU.
3. FOR RIPRAP, MATERIALS SHALL BE PURSUANT TO "SECTION 611 – HAND-LAID RIPRAP" OF THE HAWAII STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION BY THE STATE OF HAWAII DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION.

DRAIN OUTLET

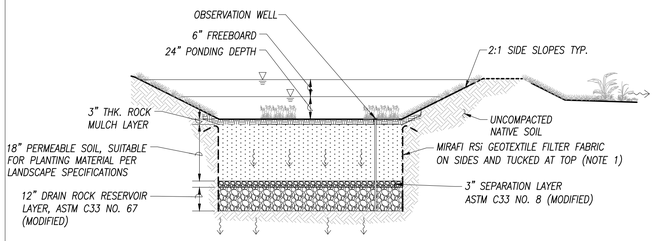
NOT TO SCALE



SECTION

AREA DRAIN

NOT TO SCALE

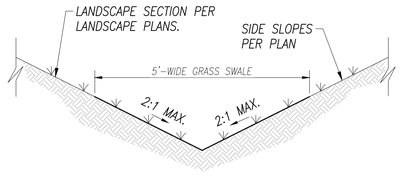


NOTES:

1. BIORETENTION BASINS SHALL BE FENCED AND PROTECTED WITH TEMPORARY BMPS FROM THE FIRST DAY OF EARTH-MOVING ACTIVITIES UNTIL PROJECT COMPLETION TO PREVENT COMPACTION OF SUBGRADE AND SEDIMENT TRACKING.
2. A DENSE VEGETATIVE COVER MUST BE ESTABLISHED ON GRADED SLOPES BEFORE ANY STORMWATER RUNOFF IS DIRECTED TO THE FACILITY.

BIORETENTION BASIN (PRIVATE)

NOT TO SCALE



GRASS SWALE (PRIVATE)

NOT TO SCALE

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

	Date	Description

CD / BID SET

02/27/26

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LICENSED PROFESSIONAL ENGINEER
No. 15480-C
HAWAII, U.S.A.

License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
DRAINAGE DETAILS

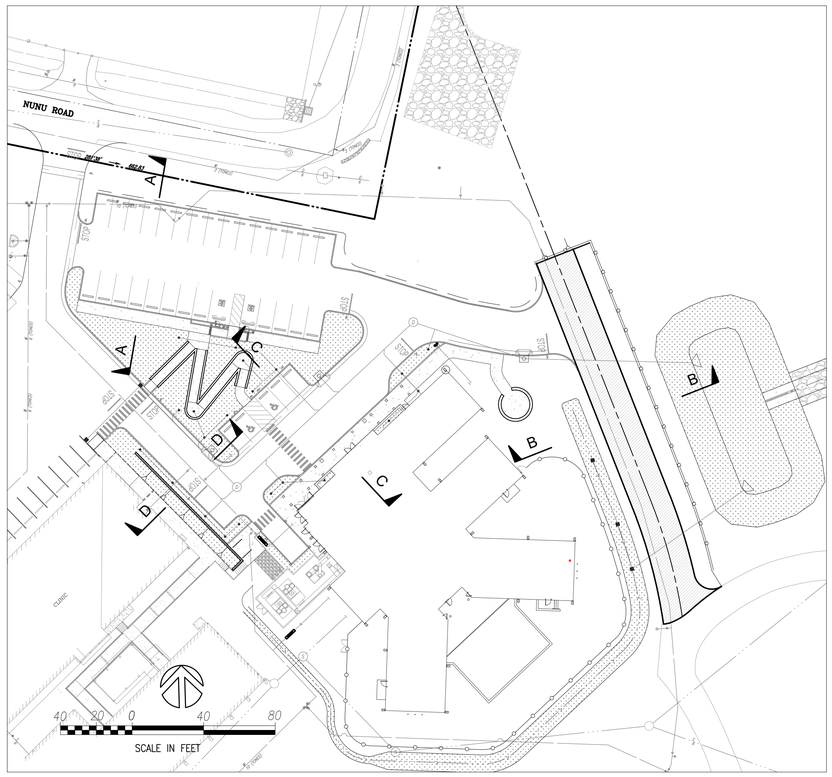
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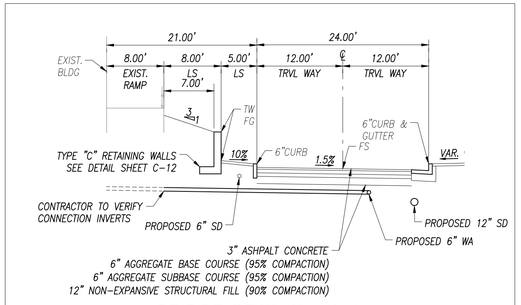
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JR	RMKC
PROJECT NO.	SHEET NO.
221093-01	C013
SHEET ISSUE DATE	
02/27/2026	

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GEOTECHNICAL NOTES

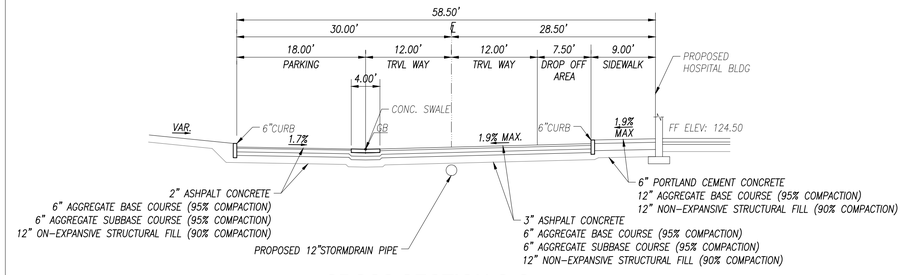
1. NON–EXPANSIVE, SELECT GRANULAR FILL SHALL AT A MINIMUM BE EXTENDED TO THE LIMITS OF CONCRETE CURB, GUTTER, AND SIDEWALK.
2. A MINIMUM 12" THICK LAYER OF NON–EXPANSIVE, SELECT GRANULAR FILL TO BE PLACED BELOW ALL PAVEMENT SECTIONS. THE NON–EXPANSIVE, SELECT GRANULAR FILL SHOULD BE PLACED IN LEVEL LIFTS OF ABOUT 8 INCHES IN LOOSE THICKNESS, MOISTURE–CONDITIONED TO ABOVE THE OPTIMUM MOISTURE, AND COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION.
3. SURFACE VEGETATION, DEBRIS, DELETERIOUS MATERIALS, EXISTING STOCKPILED SOILS, AND OTHER UNSUITABLE MATERIALS SHOULD BE REMOVED AND DISPOSED OF PROPERLY OFF–SITE.
4. AFTER CLEARING AND GRUBBING, PRIOR TO PLACING THE NON–EXPANSIVE, SELECT GRANULAR FILL, THE SUBGRADE SHOULD BE PROPERLY SCARIFIED TO A DEPTH OF AT LEAST 10", MOISTURE–CONDITIONED TO BETWEEN 2 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT, AND RECOMPACTING TO A MINIMUM OF 90 PERCENT RELATIVE COMPACTION.





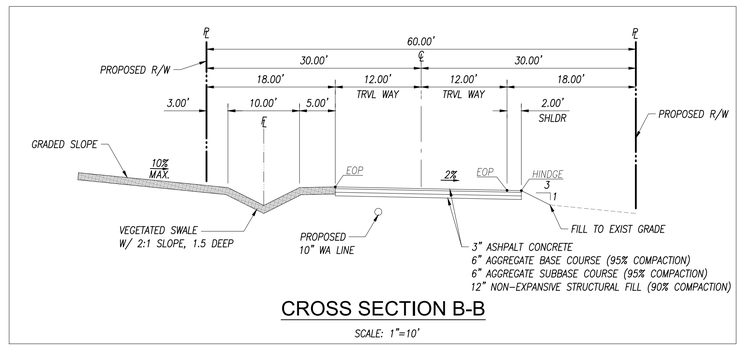
CROSS SECTION D-D

SCALE: 1"=10'



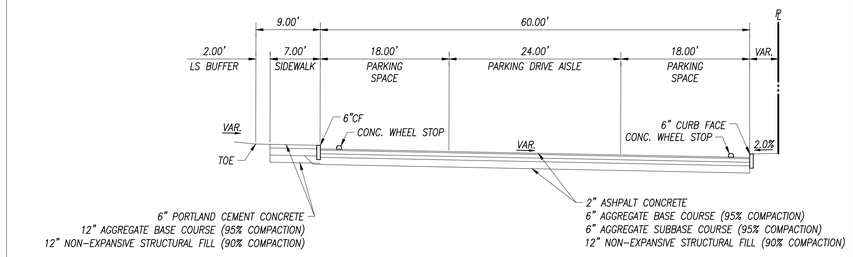
CROSS SECTION C-C

SCALE: 1"=10'



CROSS SECTION B-B

SCALE: 1"=10'



CROSS SECTION A-A

SCALE: 1"=10'

G70

111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

△	Date	Description

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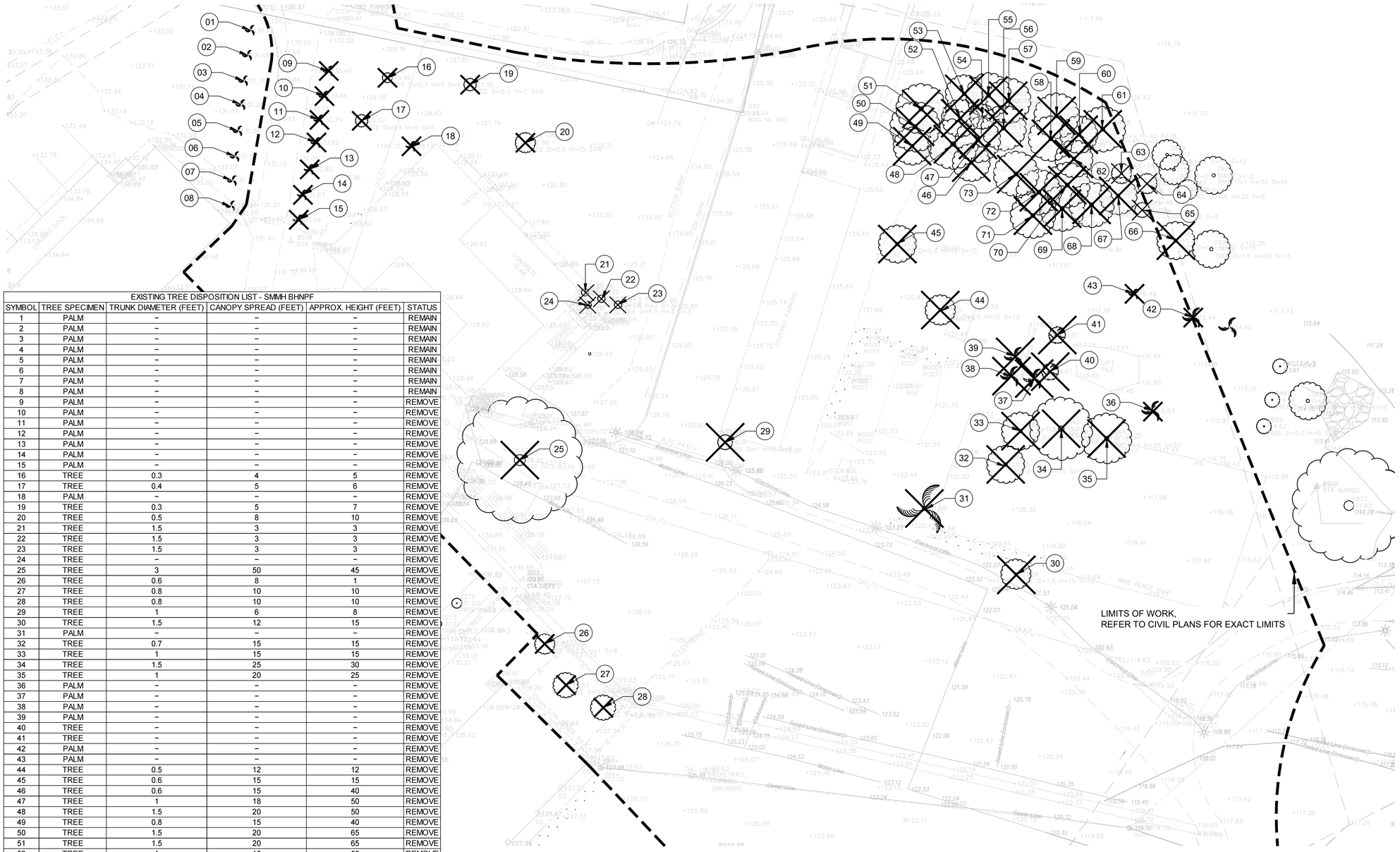
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SHEET NAME
CROSS SECTIONS

SCALE: As indicated

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TMC	RMKC
PROJECT NO.	SHEET NO.
221093-01	C014
SHEET ISSUE DATE	
02/27/2026	

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3/2/2026 9:45:40 AM



EXISTING TREE DISPOSITION LIST - SMMH BHNPF

SYMBOL	TREE SPECIMEN	TRUNK DIAMETER (FEET)	CANOPY SPREAD (FEET)	APPROX. HEIGHT (FEET)	STATUS
1	PALM	–	–	–	REMAIN
2	PALM	–	–	–	REMAIN
3	PALM	–	–	–	REMAIN
4	PALM	–	–	–	REMAIN
5	PALM	–	–	–	REMAIN
6	PALM	–	–	–	REMAIN
7	PALM	–	–	–	REMAIN
8	PALM	–	–	–	REMAIN
9	PALM	–	–	–	REMOVE
10	PALM	–	–	–	REMOVE
11	PALM	–	–	–	REMOVE
12	PALM	–	–	–	REMOVE
13	PALM	–	–	–	REMOVE
14	PALM	–	–	–	REMOVE
15	PALM	–	–	–	REMOVE
16	TREE	0.3	4	5	REMOVE
17	TREE	0.4	5	6	REMOVE
18	PALM	–	–	–	REMOVE
19	TREE	0.3	5	7	REMOVE
20	TREE	0.5	8	10	REMOVE
21	TREE	1.5	3	3	REMOVE
22	TREE	1.5	3	3	REMOVE
23	TREE	1.5	3	3	REMOVE
24	TREE	–	–	–	REMOVE
25	TREE	3	50	45	REMOVE
26	TREE	0.6	8	1	REMOVE
27	TREE	0.8	10	10	REMOVE
28	TREE	0.8	10	10	REMOVE
29	TREE	1	6	8	REMOVE
30	TREE	1.5	12	15	REMOVE
31	PALM	–	–	–	REMOVE
32	TREE	0.7	15	15	REMOVE
33	TREE	1	15	15	REMOVE
34	TREE	1.5	25	30	REMOVE
35	TREE	1	20	25	REMOVE
36	PALM	–	–	–	REMOVE
37	PALM	–	–	–	REMOVE
38	PALM	–	–	–	REMOVE
39	PALM	–	–	–	REMOVE
40	TREE	–	–	–	REMOVE
41	TREE	–	–	–	REMOVE
42	PALM	–	–	–	REMOVE
43	PALM	–	–	–	REMOVE
44	TREE	0.5	12	12	REMOVE
45	TREE	0.6	15	15	REMOVE
46	TREE	0.6	15	40	REMOVE
47	TREE	1	18	50	REMOVE
48	TREE	1.5	20	50	REMOVE
49	TREE	0.8	15	40	REMOVE
50	TREE	1.5	20	65	REMOVE
51	TREE	1.5	20	65	REMOVE
52	TREE	1	15	50	REMOVE
53	TREE	1	15	50	REMOVE
54	TREE	0.6	10	20	REMOVE
55	TREE	1	18	60	REMOVE
56	TREE	1	18	60	REMOVE
57	TREE	1	18	60	REMOVE
58	TREE	1	18	50	REMOVE
59	TREE	1	18	50	REMOVE
60	TREE	0.8	15	45	REMOVE
61	TREE	1	18	40	REMOVE
62	TREE	0.8	15	45	REMOVE
63	TREE	0.6	8	20	REMOVE
64	TREE	0.6	8	20	REMOVE
65	TREE	0.3	6	15	REMOVE
66	TREE	1.5	15	50	REMOVE
67	TREE	1	15	40	REMOVE
68	TREE	1.2	18	60	REMOVE
69	TREE	1	18	60	REMOVE
70	TREE	1	18	60	REMOVE
71	TREE	1	18	60	REMOVE
72	TREE	1	18	60	REMOVE
73	TREE	1	18	50	REMOVE

LEGEND

PALM/ TREE TO BE DEMOLISHED AND REMOVED FROM SITE

PALM/ TREE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.

TREES OUTSIDE OF CONSTRUCTION AREA TO REMAIN AND BE PROTECTED

NOTE:

1. REFER TO CIVIL DRAWINGS FOR SITE DEMOLITION WORK
2. REFER TO L101 AND L102 FOR ADDITIONAL TREE/PALM DISPOSITION AND LANDSCAPE DEMOLITION NOTES.
3. TO PROTECT THE WHITE TERN AND HAWAIIAN HOARY BAT HABITATS DURING CONSTRUCTION, CONTRACTOR SHALL TAKE SPECIAL CARE WHEN TRIMMING, RELOCATING, OR REMOVING TREES ON THE PROJECT SITE. WOODY PLANTS GREATER THAN 15-FEET IN HEIGHT MUST NOT BE DISTURBED, TRIMMED, OR REMOVED DURING THE WHITE TERN NESTING AND FLEDGING SEASON, AND THE JUNE 1 THROUGH SEPTEMBER 15 HAWAIIAN HOARY BAT BIRTHING AND PUP REARING SEASON. TREE REMOVAL IS RESTRICTED TO THE FALL AND EARLY WINTER. TREES MUST BE INSPECTED PRIOR TO TRIMMING OR REMOVAL, AND IF THERE ARE SIGNS THAT WHITE TERNS MAY BE NESTING OR THAT HAWAIIAN HOARY BATS MAY BE ROOSTING IN A TREE, TRIMMING OR REMOVAL OF THE TREE MUST BE DELAYED UNTIL THE WHITE TERN CHICKS HAVE FULLY FLEDGED, OR THE HAWAIIAN HOARY BATS HAVE FINISHED ROOSTING.
4. CONTRACTOR SHALL SURVEY AND STAKE LOCATIONS OF BUILDINGS AS WELL AS APPROXIMATE LIMITS OF GRADING AND TREES TO REMAIN.

GRAPHIC SCALE: 1" = 20'=0"
0 5 10 20 40

PBR HAWAII
& ASSOCIATES, INC.
1001 BISHOP STREET
AMERICAN SAVINGS BANK TOWER,
SUITE 650
HONOLULU, HAWAII 96813-3484
TEL: (808) 521-5631 FAX: (808) 523-1402
WEB: WWW.PBRHAWAII.COM
EMAIL: SYSADMIN@PBRHAWAII.COM

REVISIONS

Date	Description

CD / BID SET

02/27/26

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
TREE DISPOSITION PLAN

SCALE: AS SHOWN

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PW/AF	MS
PROJECT NO.	SHEET NO.
221093-01	L100
SHEET ISSUE DATE	
02/27/2026	

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TREE PROTECTION ZONE:

1. ALL TREES IDENTIFIED ON THE PLANS TO BE PROTECTED. ALL TREES 24" CALIPER OR GREATER (AS MEASURED AT 4½ FEET HEIGHT) SHALL BE PROTECTED. IF TREES OTHER THAN THOSE DESIGNATED FOR REMOVAL ARE DAMAGED BEYOND SURVIVAL CONDITION AS DETERMINED BY THE ARCHITECT, THE CONTRACTOR SHALL REMOVE SUCH TREES AND REPLACE WITH A TREE OF THE SAME SPECIES AND SIZE AND MAINTAIN FOR THE DURATION OF THE CONSTRUCTION OR 12 MONTHS WHICHEVER IS GREATER.

2. THE RECOMMENDED TREE PROTECTION ZONE SHOULD BE LOCATED AT THE OUTER DRIP LINE OF THE CANOPY OF THE TREE. HOWEVER, THE MINIMUM PROTECTION ZONE AROUND A TREE SHOULD BE AT LEAST 20 FEET FROM THE EXTERNAL SURFACE OF THE TREE'S TRUNK. FOR ALL PALMS, THE MINIMUM PROTECTION ZONE SHOULD BE AT LEAST 10 FEET.

3. ALL UNDERGROUND UTILITIES AND IRRIGATION LINES SHOULD BE ROUTED OUTSIDE OF THE TREE PROTECTION ZONE. IF UTILITIES MUST TRAVERSE THE TREE PROTECTION ZONE, THEY SHALL BE TUNNELED OR BORED AT A DEPTH OF 4 FEET OR GREATER WITHIN THE TREE PROTECTION ZONE.

4. ALL PROTECTED TREES SHALL BE LISTED ON THE DEMOLITION, LANDSCAPE, GRADING AND UTILITIES PLANS. IF THERE IS A DISCREPANCY WITH ALL PLANS, CONTRACTOR SHALL CONTACT ARCHITECT IMMEDIATELY.

5. PROTECTIVE FENCES SHALL BE ERECTED AROUND TREES IDENTIFIED ON PLAN OR TREES WITH A TRUNK DIAMETER GREATER THAN 24 INCHES (AS MEASURED AT A HEIGHT OF 4 ½ FEET.) PROTECTIVE FENCE SHALL BE 4 FEET HIGH ORANGE PLASTIC MESH OR APPROVED EQUIVALENT SUPPORTED ON STEEL T–POST AT A MINIMUM OF 6 FEET LONG. PROTECTIVE FENCE SHALL SURROUND TREE AT A MINIMUM OF 10 FEET FROM TREE TRUNK WITH STEEL T–POST AT A MINIMUM OF 5 FEET ON CENTER. FENCE SHALL BE INSTALLED PRIOR TO ANY DEMOLITION WORK AND SHALL REMAIN IN PLACE UNTIL SITE WORK IS COMPLETED.

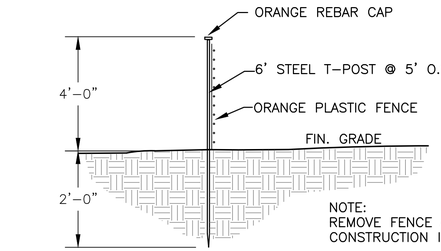
6. FOR THE DURATION OF CONSTRUCTION WITHIN THE DRIP LINE OF THE TREES TO REMAIN THERE MUST BE:

   - NO CHANGES, ALTERATION OR DISTURBANCE TO THE GRADE BY ADDING FILL, EXCAVATING OR SCRAPING EXCEPT AS NOTED ON PLANS;
   - NO STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT;
   - NO STOCKPILING OF ANY CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS;
   - NO DISPOSAL OF ANY LIQUIDS e.g. CONCRETE SLEUTH, GAS, OIL, PAINT;
   - NO VEHICULAR TRAFFIC, EQUIPMENT OR EXCESSIVE PEDESTRIAN TRAFFIC;
   - NO ATTACHMENT OF ANY WIRES, ROPES, LIGHTS OR ANY OTHER SUCH ATTACHMENT OTHER THAN THOSE OF A PROTECTIVE NATURE TO ANY TREE TO BE PRESERVED;

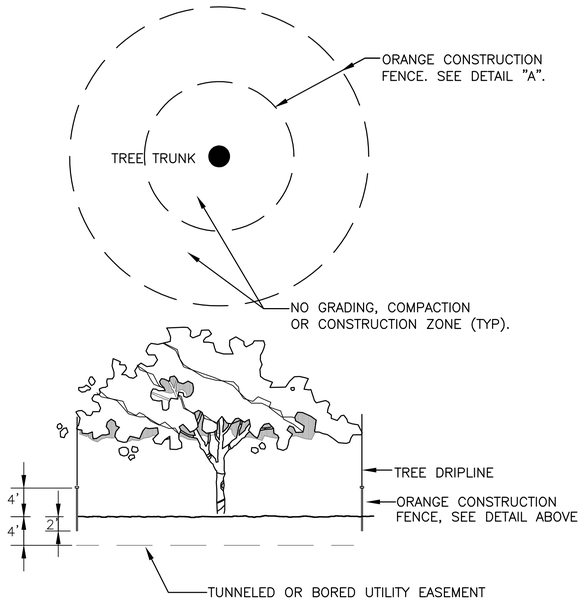
     AND

   - NO CLEANING OF EQUIPMENT OR MATERIAL UNDER THE CANOPY OF ANY TREE OR GROUP OF TREES TO BE PRESERVED

7. AUGER TUNNELING, NOT TRENCHING, SHALL BE USED WHERE POSSIBLE FOR UTILITY PLACEMENT WITHIN THE DRIP LINE OF THE TREE. IF TRENCHING IS NECESSARY IT SHALL BE HAND DUG WITHIN THE DRIP LINE OF THE TREE.



ORANGE CONSTRUCTION FENCE
NOT TO SCALE



1 TREE PROTECTION

NOT TO SCALE

P–KA–4015.01–12

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△	Date	Description

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TMK#: 4-6-014:113

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SHEET NAME
TREE DISPOSITION DETAILS - 1

SCALE: AS SHOWN

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PROJECT NO. 221093-01	SHEET NO. L101
SHEET ISSUE DATE 02/27/2026	

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TREE REMOVAL NOTES

1. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD AND NOT SHOWN ON THESE PLANS.

2. CONTRACTOR SHALL REPAIR AT THEIR OWN EXPENSE, ANY DAMAGE, WHETHER INSIDE OR OUTSIDE OF THE PROJECT LIMITS, TO UTILITY SYSTEMS, SURFACE PAVEMENTS, FIXTURES, STRUCTURES, OR VEGETATION THAT IS NOT SPECIFICALLY INDICATED TO BE REMOVED AS PART OF THIS DEMOLITION PLAN. ALL DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED TO THEIR ORIGINAL CONDITION, AS ACCEPTABLE TO THE OWNER.

3. THE CONTRACTOR SHALL SUBMIT PHOTOGRAPHS, SUFFICIENTLY DETAILED, OF EXISTING CONDITIONS OF TREES AND PLANTINGS, ADJOINING CONSTRUCTION, AND SITE IMPROVEMENTS THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY SITE CLEARING.

4. LOCATE AND CLEARLY FLAG ALL TREES AND VEGETATION TO REMAIN OR BE RELOCATED PRIOR TO ANY DEMOLITION WORK. THE ZONES BENEATH THE TREE CANOPIES TO REMAIN SHALL BE PROTECTED. REFER TO TREE PROTECTION DETAILS FOR ADDITIONAL INFORMATION.

5. TREE REMOVAL WORK SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A CERTIFIED ARBORIST.

6. CONTRACTOR SHALL FOLLOW THE LATEST AND APPROVED ANSI - A300 TREE CARE STANDARDS AND ANSI - Z133 AMERICAN NATIONAL STANDARD FOR ALL TREE REMOVAL.

7. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE ARCHITECT PRIOR TO STARTING WORK.

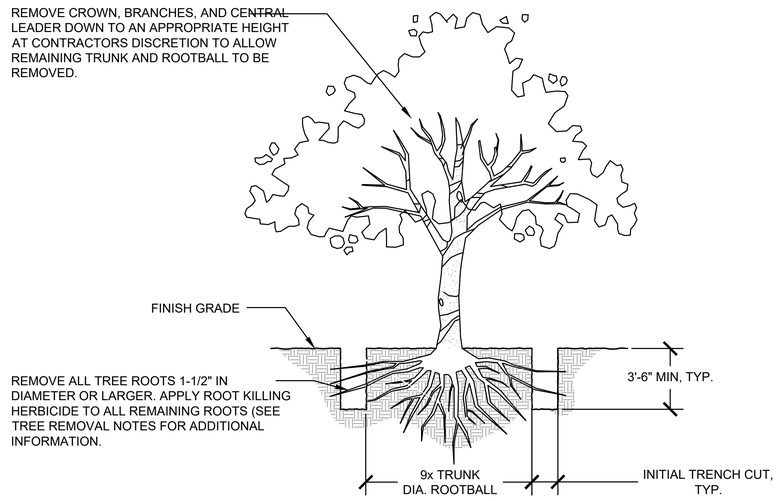
8. PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS.

9. REMOVE TREE STUMPS AND ROOTS COMPLETELY. TREE ROOTS THAT ARE UNABLE TO BE REMOVED SHALL BE TREATED WITH STUMP AND ROOT KILLING HERBICIDE SUCH AS GARLON 4 ULTRA. APPLY HERBICIDE IN QUANTITY AND FREQUENCY ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.

10. SHRUBS AND GROUND COVER PLANTS THAT ARE SHOWN FOR REMOVAL SHALL BE REMOVED COMPLETELY. ALL ROOTS THAT ARE OVER ONE-HALF INCH IN DIAMETER SHALL BE GRUBBED AND REMOVED TO 18" BELOW GRADE. ALL ROOTS WITHIN THE TOP 6" OF SOIL SURFACE SHALL BE REMOVED. DO NOT DISTURB ROOTS OF TREES SHOWN TO REMAIN.

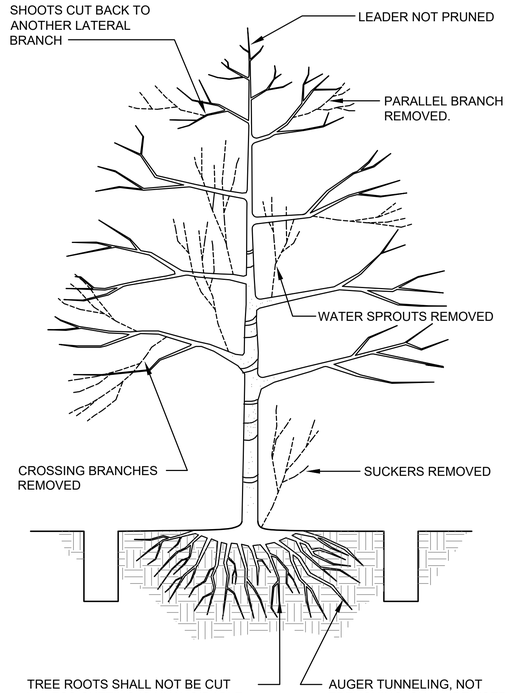
11. CONTRACTOR SHALL BACKFILL AND COMPACT TREE WELL IMMEDIATELY AFTER TREE REMOVAL.

12. EXCEPT FOR MATERIALS INDICATED TO BE SALVAGED AND RELOCATED ON SITE, ALL CLEARED MATERIALS SHALL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE REMOVED AND DISPOSED OF LEGALLY OFF-SITE. SEPARATE RECYCLABLE MATERIALS PRODUCED DURING SITE CLEARING FROM OTHER NON-RECYCLABLE MATERIALS. STORE OR STOCKPILE WITHOUT INTERMIXING WITH OTHER MATERIALS AND TRANSPORT THEM TO RECYCLING FACILITIES.



1 TREE AND ROOTBALL REMOVAL DETAIL

NOT TO SCALE



TYPICAL BRANCH REMOVAL

NOTES:

1. ALL TREE PRUNING WORK SHALL BE PERFORMED BY A CERTIFIED ARBORIST.

2. POSITIONS OF FIRST AND SECOND CUTS MAY BE REVERSED IN SOME CASES, PARTICULARLY WHEN CUTTING A LARGE BRANCH WITH A CHAINSAW.

3. DO NOT MAKE FLUSH CUTS OR LEAVE STUBS.

4. DO NOT PAINT CUTS.

5. REMOVE DEAD, BROKEN OR MALFORMED BRANCHES.

6. REMOVE ALL VINES ENTWINED IN THE TREE OR AROUND ITS TRUNK.

7. ALL PRUNING SHALL BE COMPLETED USING CLEAN SHARP TOOLS. ALL CUTS SHALL BE CLEAN AND SMOOTH, WITH THE BARK INTACT WITH NO ROUGH EDGES OR TEARS.

8. DISPOSE OF ALL CUTTINGS OUTSIDE OF RIGHT OF WAY.

9. RETAIN THE NORMAL SHAPE OF THE PLANT.

2 TREE PRUNING

NOT TO SCALE

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SHEET NAME

TREE DISPOSITION DETAILS - 2

SCALE: AS SHOWN

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221093-01	L102
SHEET ISSUE DATE	
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NOTE:
SEE CIVIL PLANS FOR ALL WALKWAY LAYOUT PLANS.

1 L201 (APROX. 50 LF) LAVA SEAT WALL WITH CONCRETE CAP, SEE SHEET L201 FOR DETAIL AND ENLARGEMENT. TYP. SYM.

1 L203 (1) ALUMINUM MAINTENANCE ACCESS GATE DETAIL, TYP. SYM.

1 L202 (12,470 LF) ALUMINUM PICKET FENCE DETAIL (60" HEIGHT), TYP. SYM.

LIMITS OF WORK, REFER TO CIVIL PLANS FOR EXACT LIMITS

3 L201 (3) 'RIDE' BIKE RACKS BY LANDSCAPE FORMS, TYP. SYM.

2 L202 (1) ALUMINUM VEHICULAR ACCESS GATE DETAIL, TYP. SYM.

GRAPHIC SCALE: 1" = 20'-0"
0 5 10 20 40

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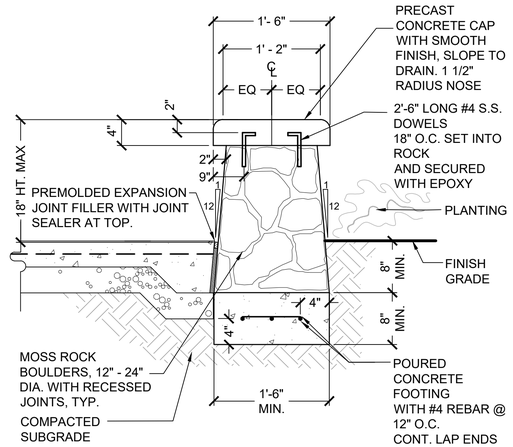
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SHEET NAME
HARDSCAPE PLAN

SCALE: AS SHOWN

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221093-01	L200
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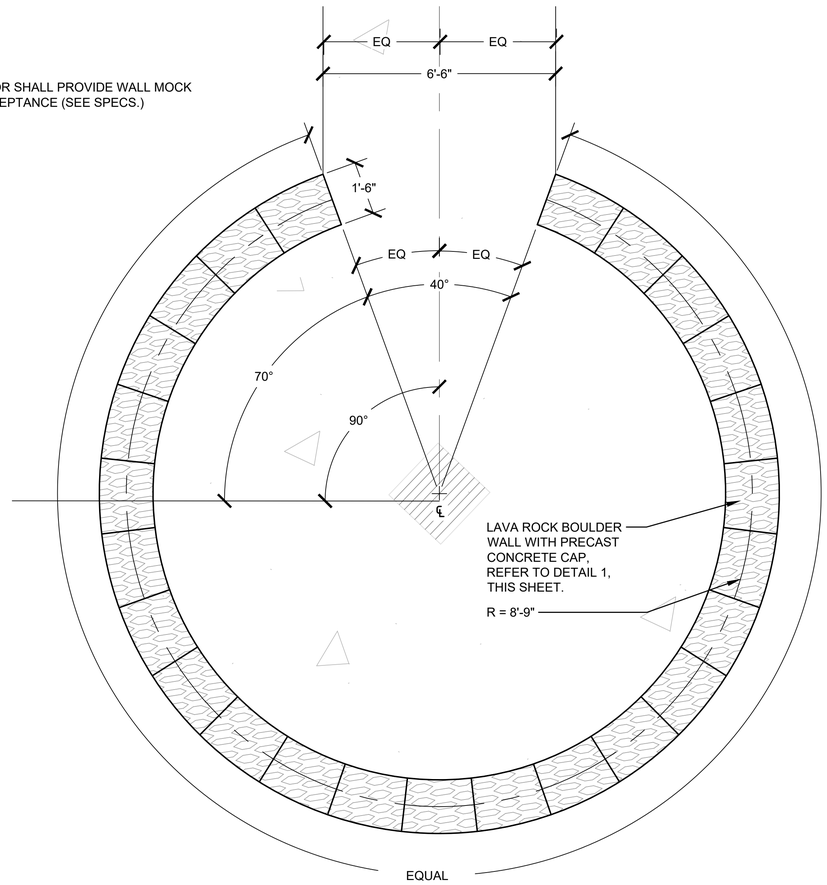


1 LAVA SEAT WALL DETAIL

NOT TO SCALE DETAIL—FILE

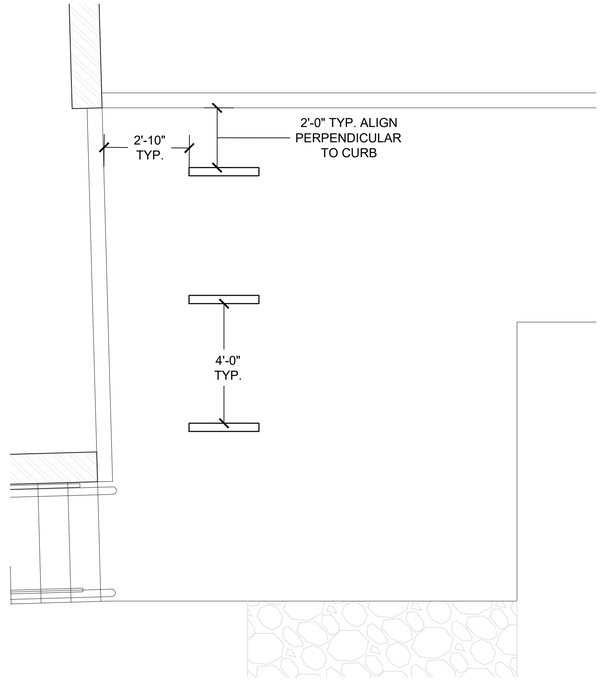
NOTE:

CONTRACTOR SHALL PROVIDE WALL MOCK UP FOR ACCEPTANCE (SEE SPECS.)

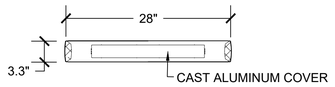


2 LAVA SEAT WALL ENLARGEMENT

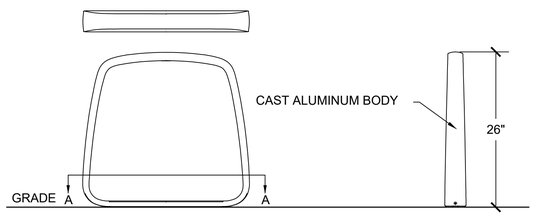
NOT TO SCALE DETAIL—FILE



SECTION A-A



NOTE:
'RIDE' BIKE RACK BY LANDSCAPEFORMS INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDED INSTALLATION HARDWARE.



3 'RIDE' BIKE RACK

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FILENAME
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SHEET NAME
HARDSCAPE DETAILS - 1

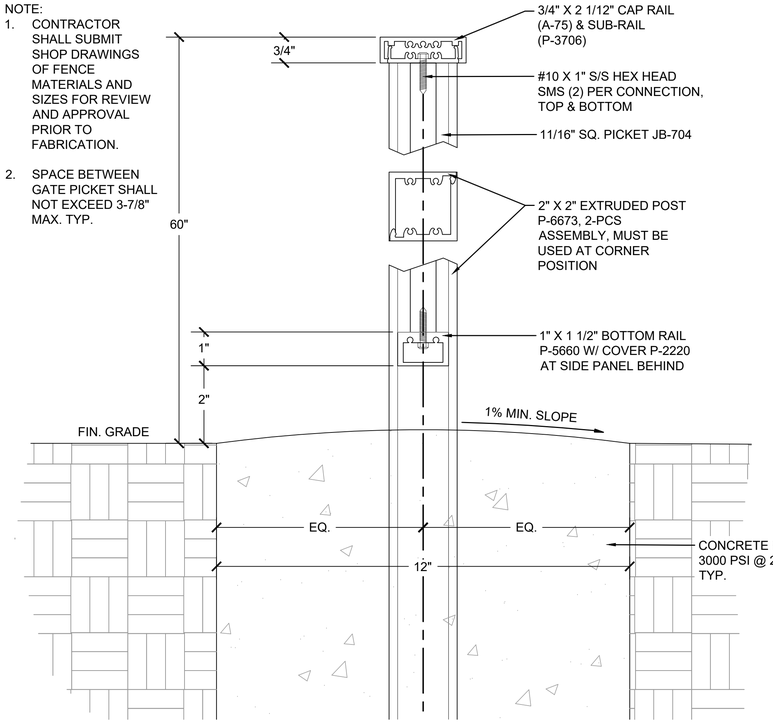
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SHEET ISSUE DATE 02/27/2026	

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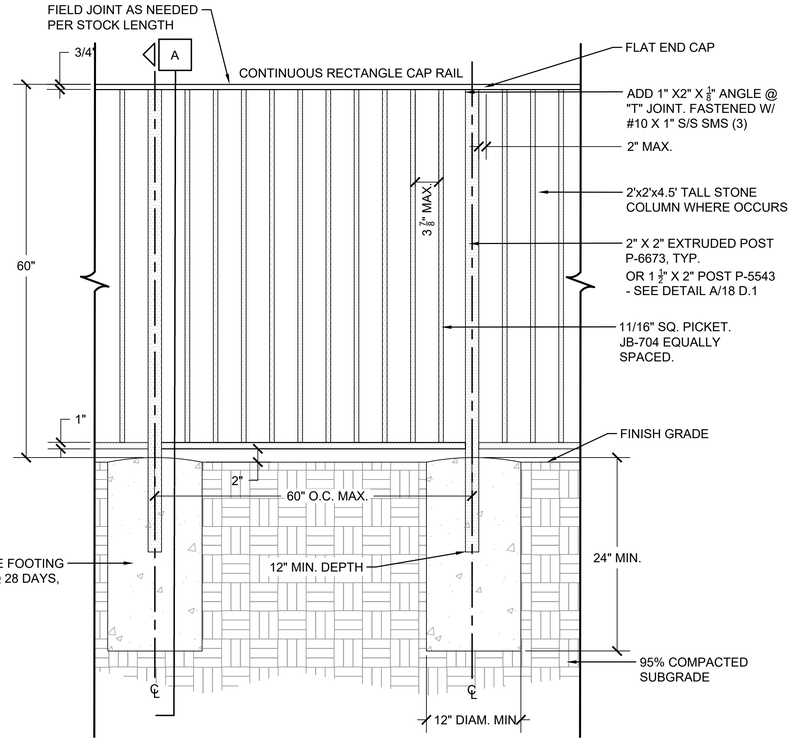
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NOTE:
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF FENCE MATERIALS AND SIZES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. SPACE BETWEEN GATE PICKET SHALL NOT EXCEED 3-7/8" MAX. TYP.



(A) 4' FENCE POST SECTION

NOT TO SCALE

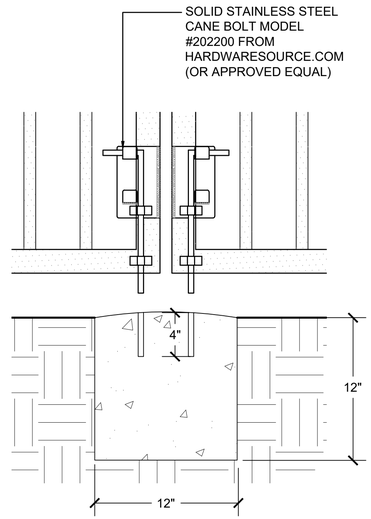


(B) TYPICAL FENCE ELEVATION

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NOTES:
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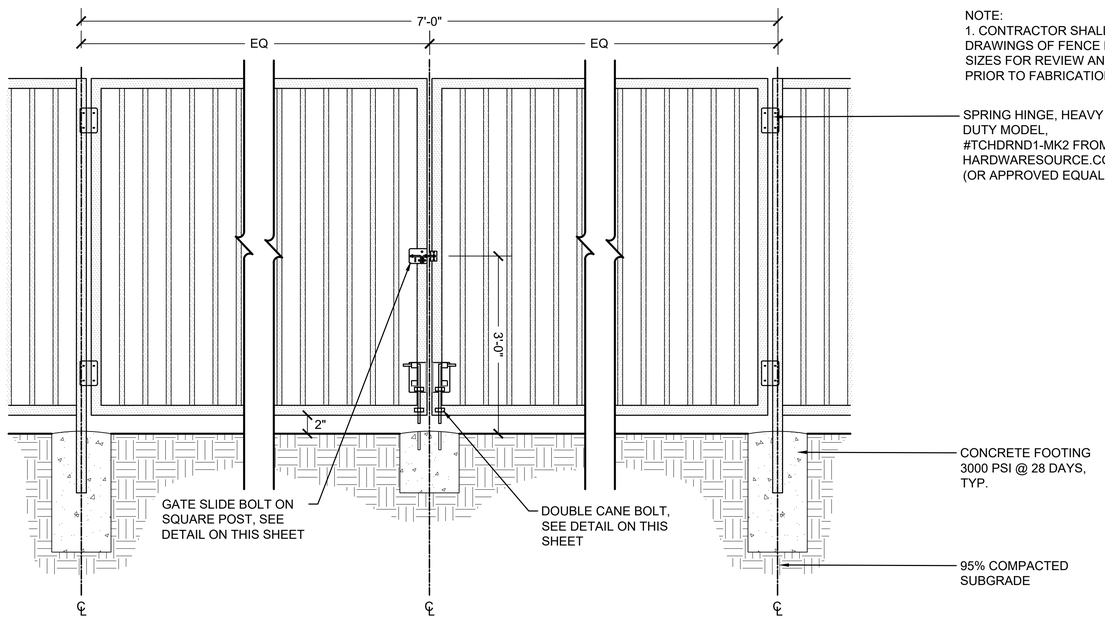
1 ALUMINUM PICKET FENCE DETAIL

SCALE: AS SHOWN

3 TYPICAL DOUBLE CANE BOLT DETAIL

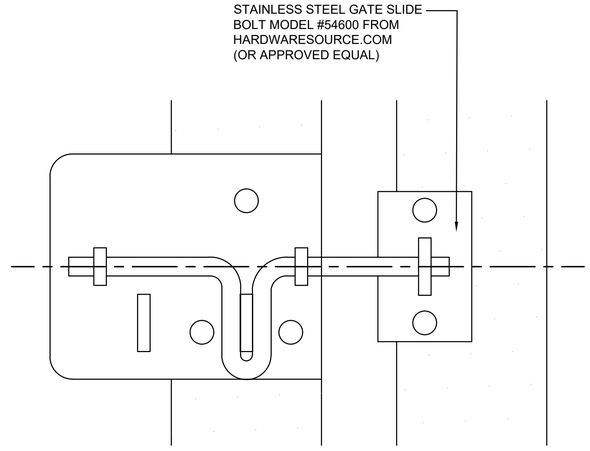
SCALE: NOT TO SCALE

NOTE:
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2 VEHICULAR ACCESS GATES

SCALE: NOT TO SCALE



4 TYPICAL GATE SLIDE BOLT

SCALE: NOT TO SCALE

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SHEET NAME
HARDSCAPE DETAILS - 2

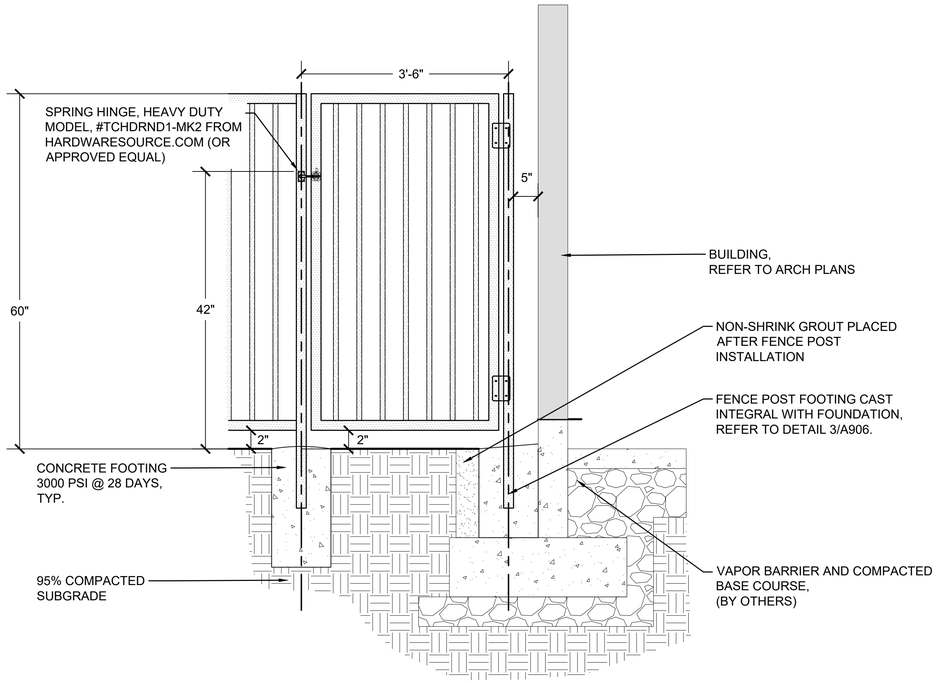
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PROJECT NO. 221093-01	SHEET NO. **L202**
SHEET ISSUE DATE 02/27/2026	

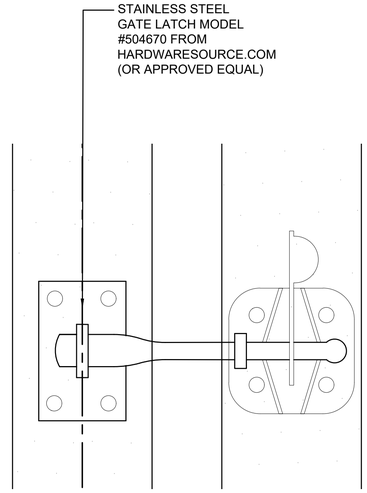
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1 MAINTENANCE ACCESS GATE
SCALE: NOT TO SCALE



2 GATE LATCH
SCALE: NOT TO SCALE

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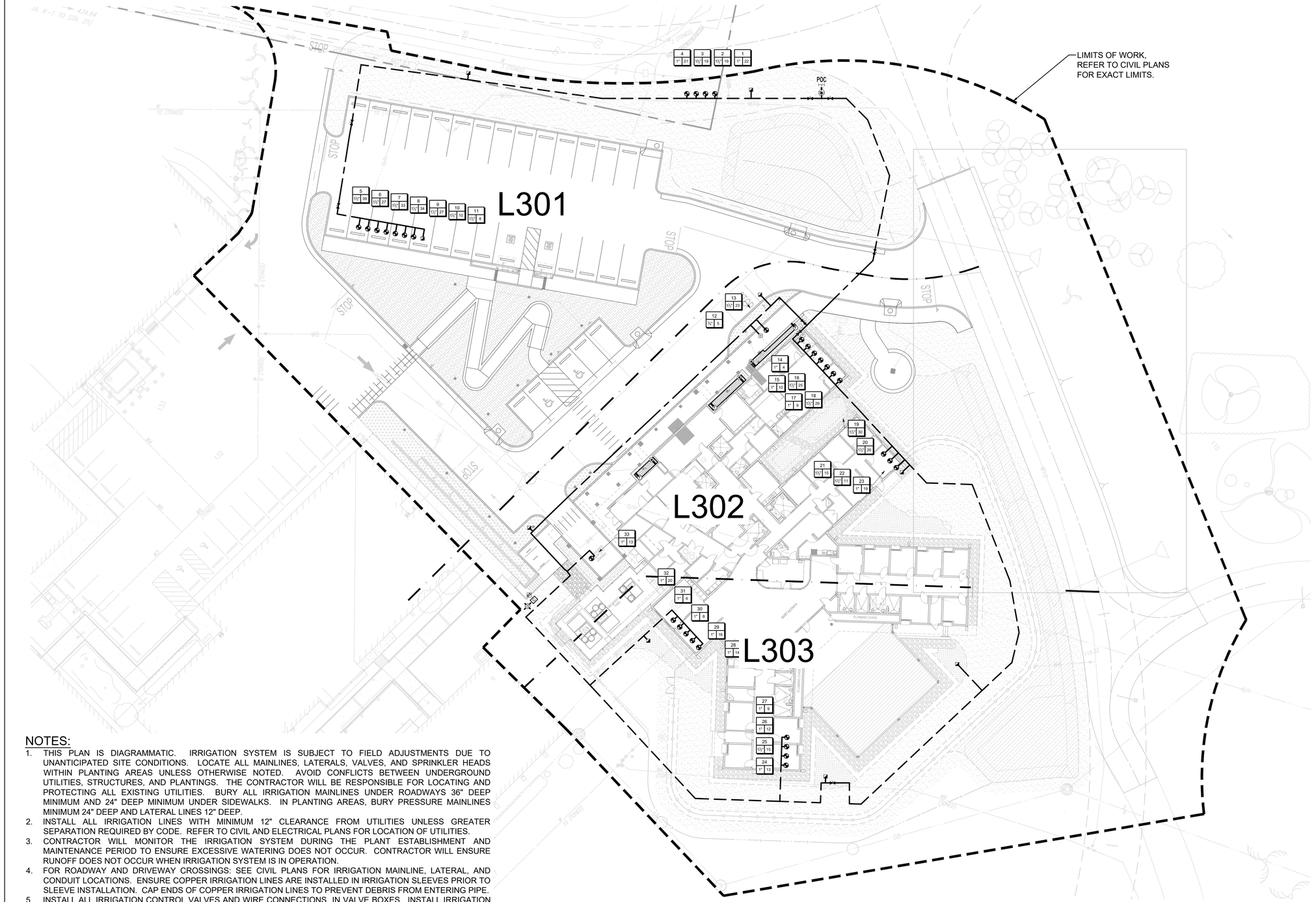
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SHEET NAME
HARDSCAPE DETAILS - 3

SCALE: AS SHOWN

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PROJECT NO. 221093-01	SHEET NO. **L203**
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NOTES:

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2. INSTALL ALL IRRIGATION LINES WITH MINIMUM 12" CLEARANCE FROM UTILITIES UNLESS GREATER SEPARATION REQUIRED BY CODE. REFER TO CIVIL AND ELECTRICAL PLANS FOR LOCATION OF UTILITIES.
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4. FOR ROADWAY AND DRIVEWAY CROSSINGS: SEE CIVIL PLANS FOR IRRIGATION MAINLINE, LATERAL, AND CONDUIT LOCATIONS. ENSURE COPPER IRRIGATION LINES ARE INSTALLED IN IRRIGATION SLEEVES PRIOR TO SLEEVE INSTALLATION. CAP ENDS OF COPPER IRRIGATION LINES TO PREVENT DEBRIS FROM ENTERING PIPE.
5. INSTALL ALL IRRIGATION CONTROL VALVES AND WIRE CONNECTIONS IN VALVE BOXES. INSTALL IRRIGATION VALVE IDENTIFICATION TAGS WITH APPROPRIATE STATION NUMBER FOR ALL VALVES.
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7. INSTALL VALVE BOXES IN GROUND COVER AREAS OR GRAVEL MAINTENANCE STRIP, TYP.
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9. PROVIDE DRIP VALVE AND COPPER LATERAL TO INTERNAL GROUND LEVEL PLANTERS. INSTALL INLINE DRIPLINES IN ALL INTERNAL GROUND LEVEL PLANTERS.
10. REFER TO L304 FOR ADDITIONAL IRRIGATION NOTES.

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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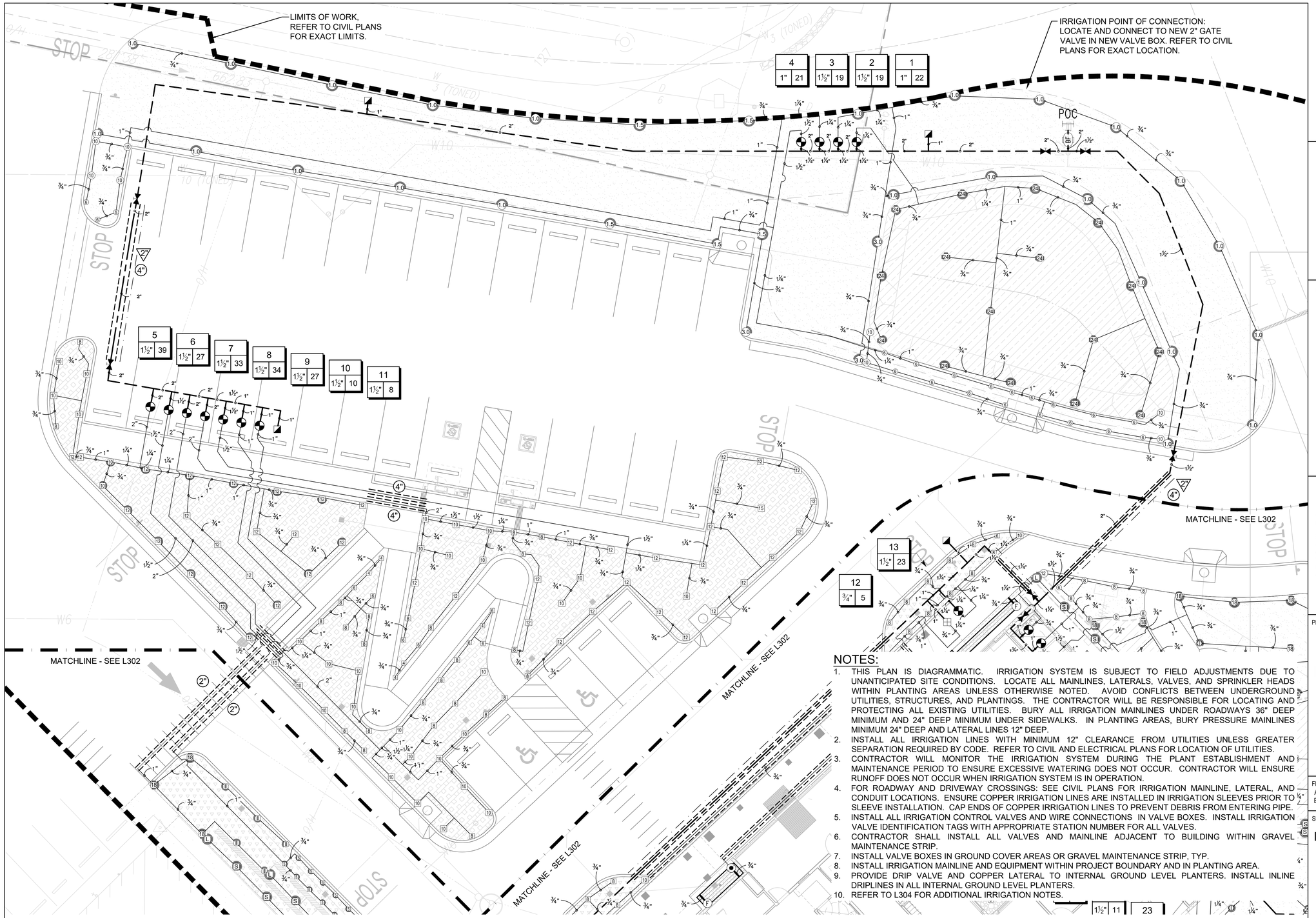
SHEET NAME
OVERALL IRRIGATION PLAN

SCALE: AS SHOWN

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221093-01	L300
SHEET ISSUE DATE	
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GRAPHIC SCALE: 1" = 10'-0"
0 2.5 5 10 20

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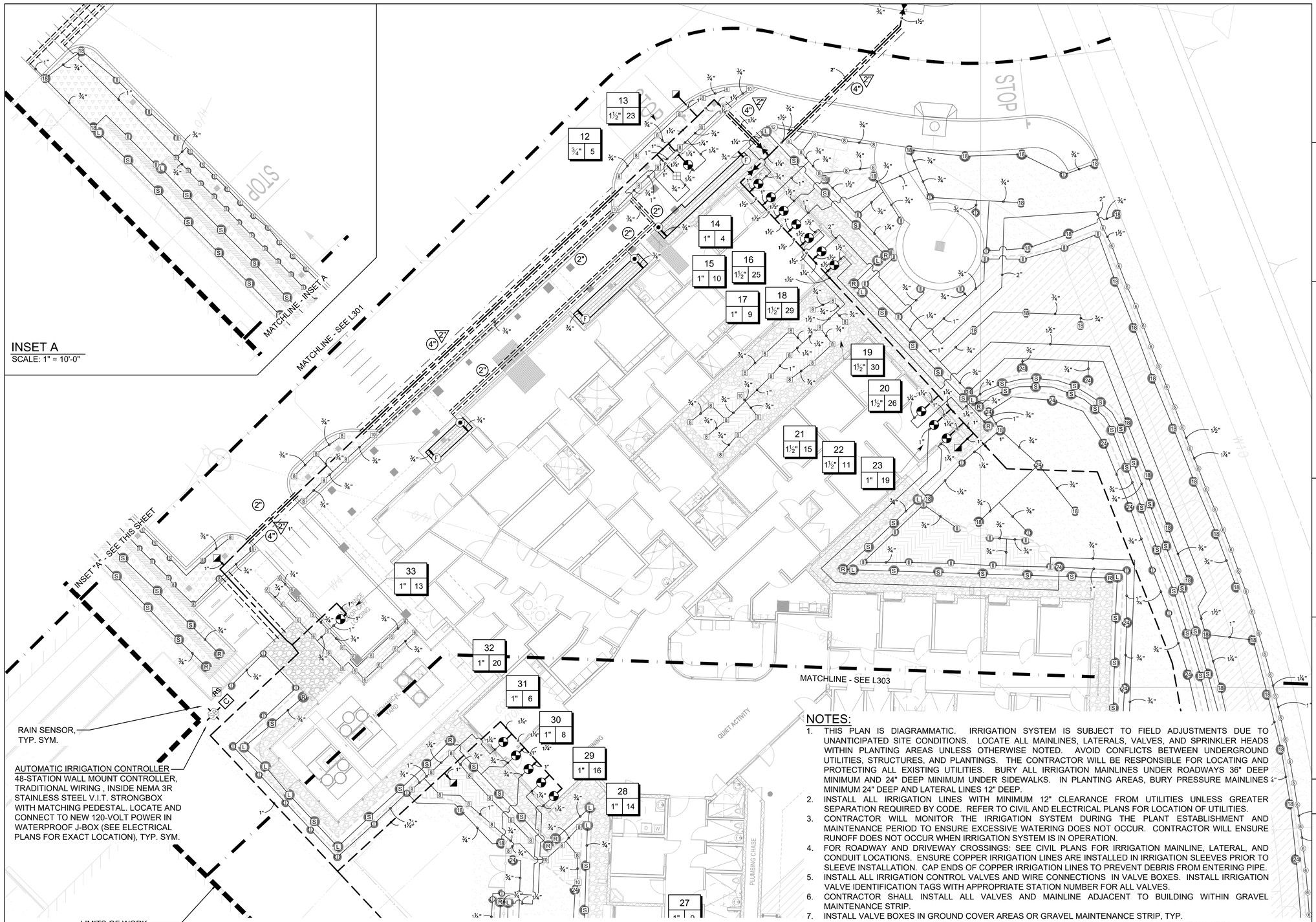
SHEET NAME
IRRIGATION PLAN - 1

SCALE: AS SHOWN

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PROJECT NO. 221093-01	SHEET NO. L301
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GRAPHIC SCALE: 1" = 10'=0"
0 2.5 5 10 20

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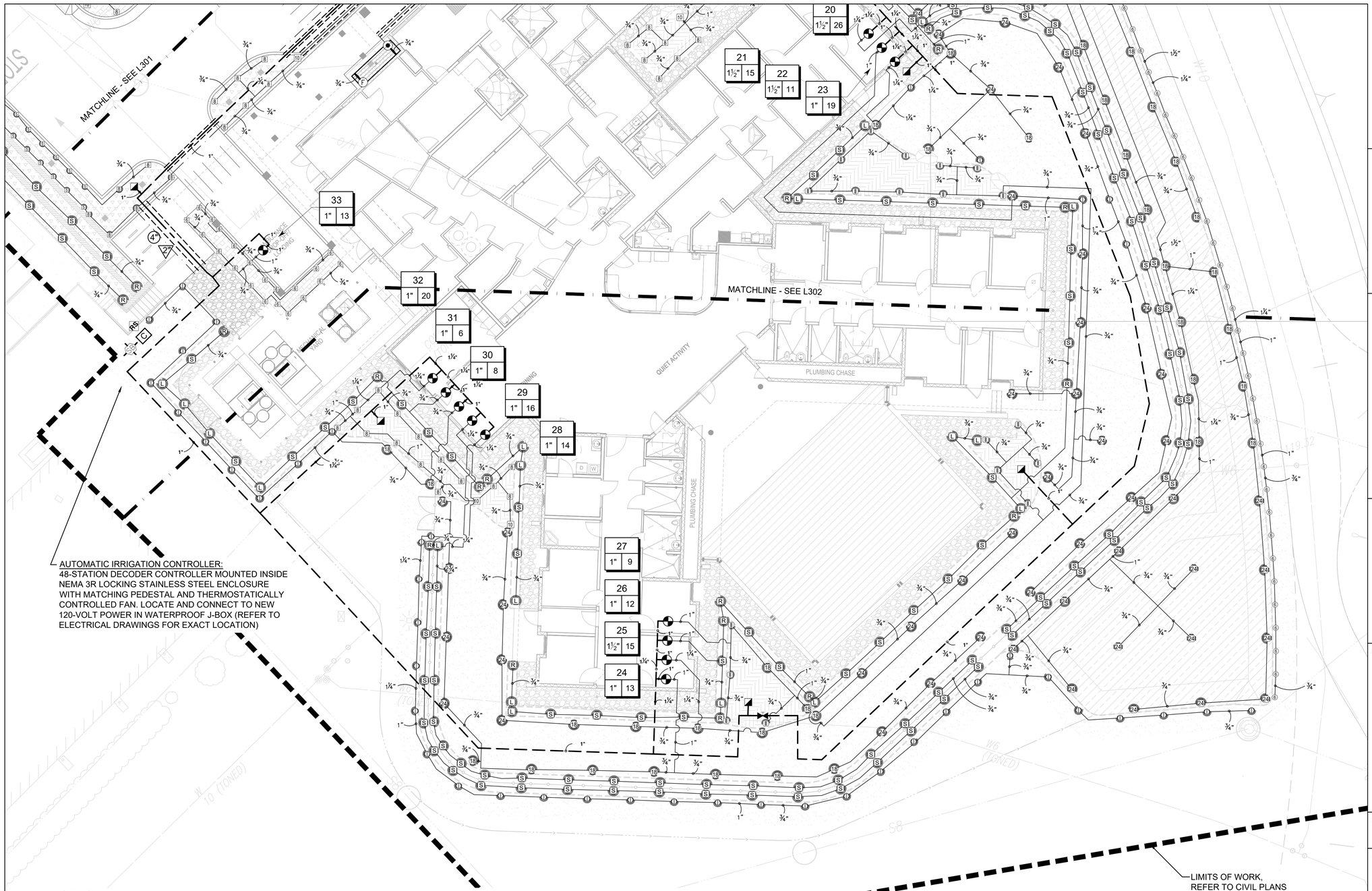
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SHEET NAME
IRRIGATION PLAN - 2

SCALE: AS SHOWN

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AUTOMATIC IRRIGATION CONTROLLER:
48-STATION DECODER CONTROLLER MOUNTED INSIDE NEMA 3R LOCKING STAINLESS STEEL ENCLOSURE WITH MATCHING PEDESTAL AND THERMOSTATICALLY CONTROLLED FAN. LOCATE AND CONNECT TO NEW 120-VOLT POWER IN WATERPROOF J-BOX (REFER TO ELECTRICAL DRAWINGS FOR EXACT LOCATION)

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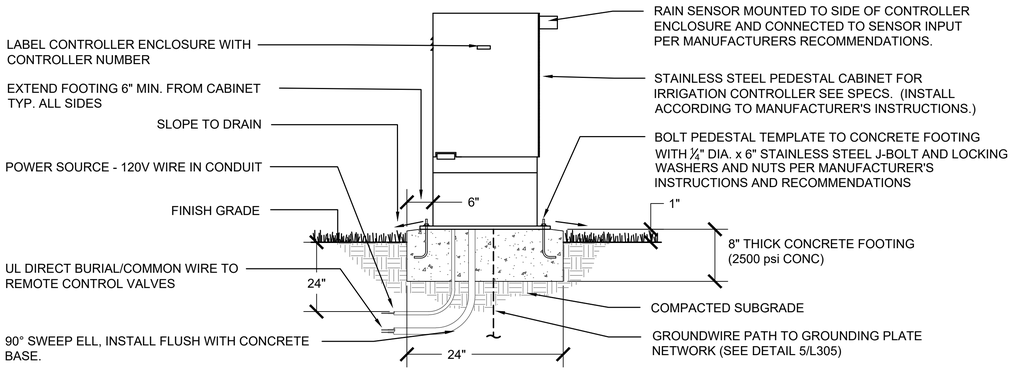
SHEET NAME
IRRIGATION PLAN - 3

SCALE: AS SHOWN

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PROJECT NO. 221093-01	SHEET NO. L303
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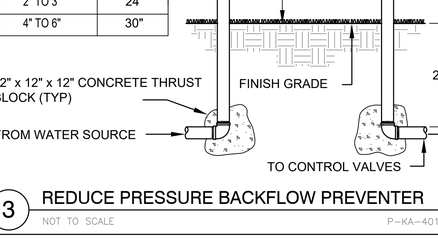
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NOTE:
ALL WIRING TO BE INSTALLED AS POWER LOCAL CODE. SEE MANUAL FOR MOUNTING INSTRUCTIONS. SEAL CONDUITS W/EXPANDING SEALANT TO PROTECT AGAINST INSECTS AND MOISTURE. CONTROLLER ENCLOSURE SHALL BE LOCATED IN AN AREA WELL PROTECTED FROM VEHICLES. IF THE CONTROLLER IS LOCATED IN AN UNPROTECTED AREA, THEN ONE 6" PIPE BOLLARD FILLED WITH CONCRETE SHALL BE INSTALLED ON EACH OF THE FOUR CORNERS.



1 PEDESTAL MOUNT IRRIGATION CONTROLLER

NOT TO SCALE P-KA-4015.01-21



1. RAIN SENSOR
2. GALVANIZED PIPE CAP: 1" CAP OR 1.5" CAP (MATCHING PIPE DIAMETER) WITH HOLE FOR WIRES
3. DRILL TWO 3/16 HOLES IN PIPE FOR SENSOR BRACKET
4. (2) #8-32 STAINLESS STEEL MACHINE SCREWS WITH WASHER, LOCK WASHER AND NUT
5. 1" OR 1.5" GALVANIZED PIPE 6 TO 10 FEET HIGH
6. 12" X 12" CONCRETE BASE 8" DEEP MINIMUM
7. 1" or 1.5" PIPE ELBOW
8. FINISH GRADE. 6" ROUND VALVE BOX.
9. 1" OR 1.5" NIPPLE. GRAVEL.

PAINT ALL GALVANIZED PIPE WITH THREE (3) COATS OF BLACK MARINE-GRADE EPOXY PAINT

2 RAIN SENSOR ON POST DETAL

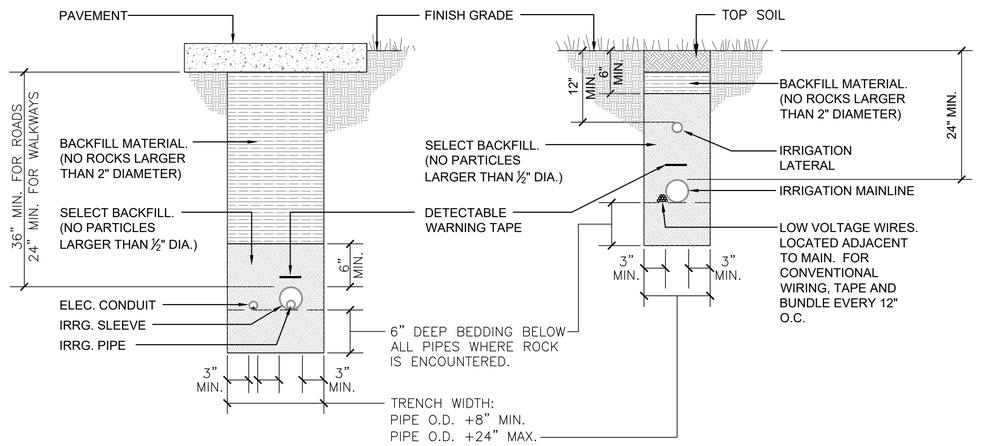
NOT TO SCALE P-KA-4015.01-42

NOTE:
1. ALL PIPE AND FITTINGS LESS THAN 4" IN SIZE SHALL BE COPPER. ALL PIPE AND FITTINGS 4" OR GREATER IN SIZE SHALL BE FLANGED DUCTILE IRON.
2. MIN. HEIGHT MUST BE 12" ABOVE HIEGHEST POINT OF DISTRIBUTION, OR THAT SHOWN IN CHART, WHICHEVER IS GREATEST.

SIZE	HEIGHT
3/4" TO 1 1/2"	18"
2" TO 3"	24"
4" TO 6"	30"

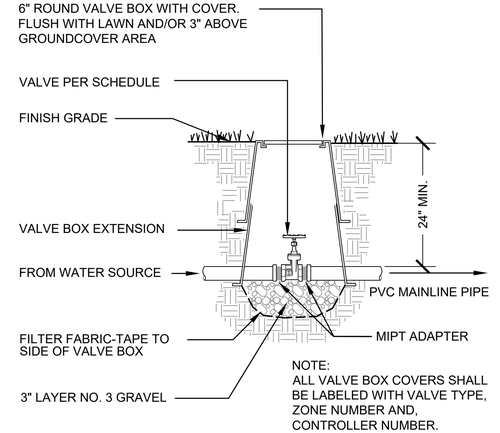
3 REDUCE PRESSURE BACKFLOW PREVENTER

NOT TO SCALE P-KA-4015.01-31



4 IRRIGATION TRENCHING DETAIL

NOT TO SCALE

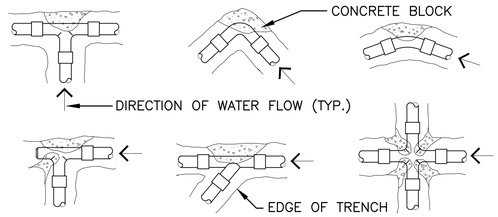


5 GATE VALVE

NOT TO SCALE P-KA-4015.01-32

THRUST BLOCK BEARING AREA (SQ. FT.)				
PIPE SIZE	1 1/4" – 2 1/2"	3"	4"	6"
TEES/ELLS	1.00	1.00	1.25	3.2
90 BENDS	1.00	1.25	2.00	4.5
45 BENDS	1.00	1.00	1.00	2.4

NOTES:
1. INSTALL THRUST BLOCK AT ALL MACHINE BENDS, TEES OR ELLS AS SHOWN BELOW. THRUST BLOCKS SHALL BE MINIMUM OF (1) CU. FT. REDI-MIX CONCRETE OR 2500 PSI 28 DAY CONCRETE.
2. SET ALL THRUST BLOCKS AGAINST UNDISTURBED SOIL.



6 THRUST BLOCK

NOT TO SCALE P-KA-4015.01-27

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SHEET NAME
IRRIGATION DETAILS - 1

SCALE: AS SHOWN

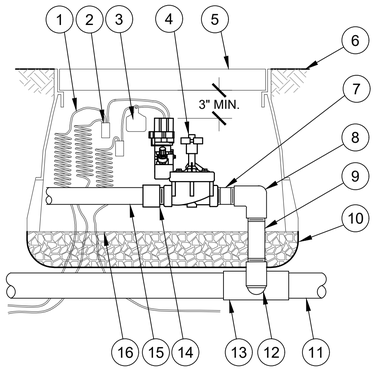
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PROJECT NO.	SHEET NO.
221093-01	L304

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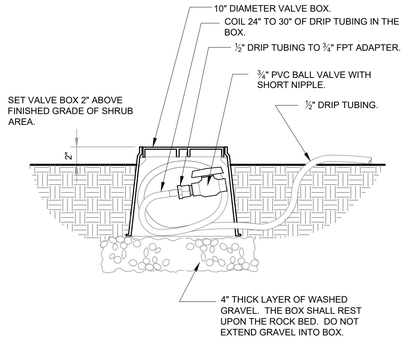


1. 30-INCH LINEAR LENGTH OF WIRE, COILED.
2. WATERPROOF CONNECTION
3. ID TAG
4. REMOTE CONTROL VALVE
5. VALVE BOX
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. FILTER FABRIC, FASTEN TO VALVE BOX
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

1 REMOTE CONTROL VALVE DETAIL

NOT TO SCALE

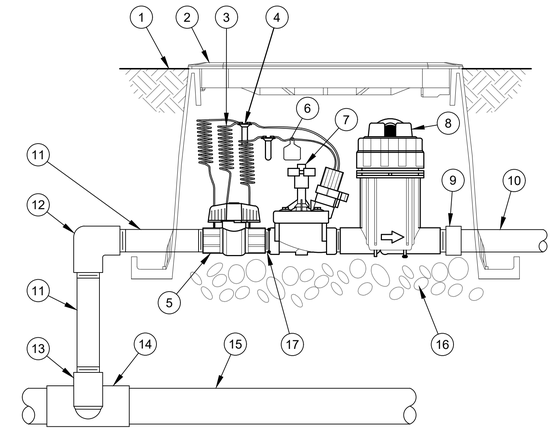
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4 DRIP FLUSH VALVE

NOT TO SCALE

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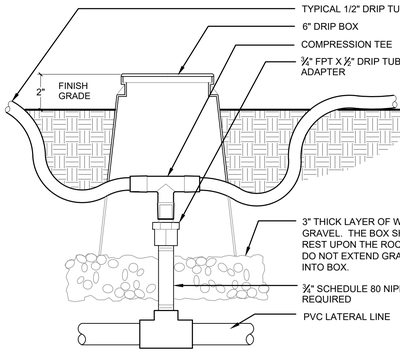


1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER
3. 30-INCH LINEAR LENGTH OF WIRE, COILED
4. WATERPROOF CONNECTION
5. 1-INCH BALL VALVE
6. ID TAG
7. REMOTE CONTROL VALVE
8. PRESSURE REGULATING QUICK CHECK BASKET FILTER:
9. PVC SCH 40 FEMALE ADAPTOR
10. LATERAL PIPE
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 40 ELL
13. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
14. PVC SCH 40 TEE OR ELL
15. MAINLINE PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
17. PVC SCH 80 NIPPLE, CLOSE

2 1" DRIP CONTROL VALVE WITH BASKET FILTER DETAIL

NOT TO SCALE

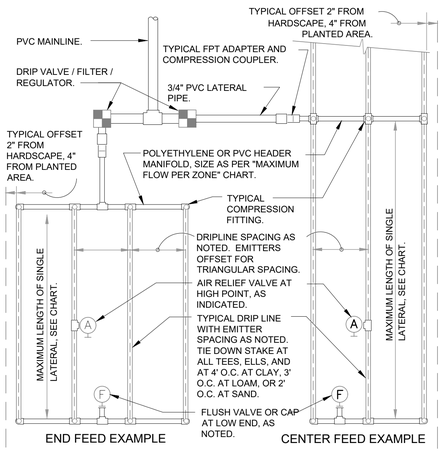
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5 ZONE CONTROL

NOT TO SCALE

P-KA-4015.01-59



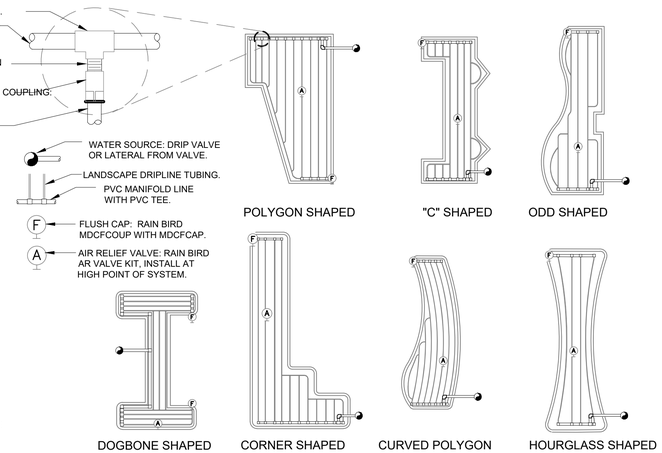
MAXIMUM LATERAL LENGTH (FEET)						
	EMITTER FLOW RATE GPH					
	12" SPACING		18" SPACING		24" SPACING	
PSI	0.6	0.9	0.6	0.9	0.6	0.9
10	125	96	175	135	218	171
20	249	191	350	171	442	340
30	307	236	434	333	550	422
40	350	268	495	380	627	171
50	125	96	175	135	218	171
60	125	96	175	135	218	171

GRID PRECIPITATION RATES (IN/HR)			
		EMITTER FLOW RATE	
EMITTER SPACING	LATERAL SPACING	0.6	0.9
12	12	0.96	1.44
18	18	0.69	1.03
24	24	0.28	0.41

LATERAL FLOW PER 100 FT (GPM)			
EMITTER FLOW	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.50 GPM
0.9 GPH	1.5 GPM	1.0 GPM	0.75 GPM

MAXIMUM FLOW PER ZONE		
	MAX GPM	PSI LOSS
SCHEDULE 40 PVC HEADER SIZE		
1/2"	4.7 GPM	7.7 PSI
3/4"	8.3 GPM	5.6 PSI
1"	13.5 GPM	4.2 PSI
1-1/2"	33.9 GPM	2.9 PSI
2"	52.4 GPM	1.9 PSI
POLY PIPE HEADER SIZE		
1/2"	4.7 GPM	8.8 PSI
3/4"	8.3 GPM	6.3 PSI
1"	13.5 GPM	4.8 PSI
1-1/2"	31.8 GPM	2.9 PSI
2"	52.4 GPM	2.2 PSI

SLOPED CONDITION NOTE:
1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHEREVER POSSIBLE.
2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
3. NORMAL SPACING WITHIN THE TOP ⅓ OF SLOPE.
4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM ⅓ OF THE SLOPE.
5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM ⅓ ON A SEPARATE VALVE.



3 TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS

NOT TO SCALE

P-KA-4015.01-72

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REVISIONS

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License Expiration Date

PROJECT TITLE

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TMK#: 4-6-014:113

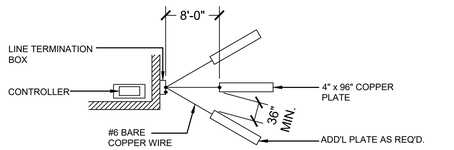
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SHEET NAME
IRRIGATION DETAILS - 2

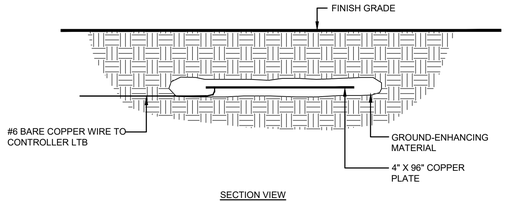
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PLAN VIEW



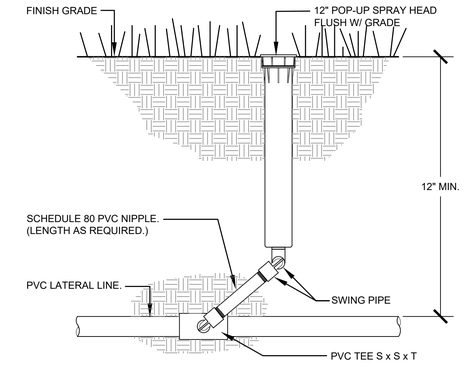
SECTION VIEW

NOTES:

1. INSTALL A GROUNDING NETWORK AT THE LOCATION OF THE CONTROLLER'S LINE TERMINATION BOX (LTB).
2. TEST THE NETWORK FOR EARTH-TO-GROUND RESISTANCE AFTER THE BACKFILL MATERIALS HAS HAD SUFFICIENT TIME TO SETTLE.
3. RESISTANCE READINGS OF 15 OHMS OR GREATER INDICATE INSUFFICIENT GROUNDING.
4. INSTALL ADDITIONAL GROUND RODS, PLATES AND GROUND-ENHANCING MATERIALS AS REQUIRED TO ACHIEVE RESISTANCE READINGS FO 15 OHMS OR LESS.
5. GROUND RODS AND PLATES SHALL BE INSTALLED AT THE RECOMMENDED DISTANCES AS SHOWN IN THE DETAIL DRAWING.
6. FOR ADDITIONAL INFORMATION ON PROPER GROUNDING EQUIPMENT AND TECHNIQUES, REFER TO THE GUIDELINES PUBLISHED BY THE AMERICAN SOCIETY OF IRRIGATION CONSULTANTS (ASIC): "ASIC GUIDELINE 100-2002 (JANUARY 2002) FOR EARTH GROUNDING ELECTRONIC EQUIPMENT IN IRRIGATION SYSTEMS".

1 CONTROLLER GROUNDING - GROUND PLATE NETWORK

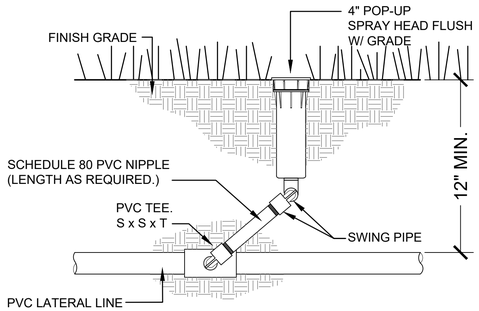
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NOTES:
INSTALL PART CIRCLE POP-UP HEADS 6" FROM EDGE OF PAVED AREAS.

6 12" POP-UP SPRINKLER HEAD

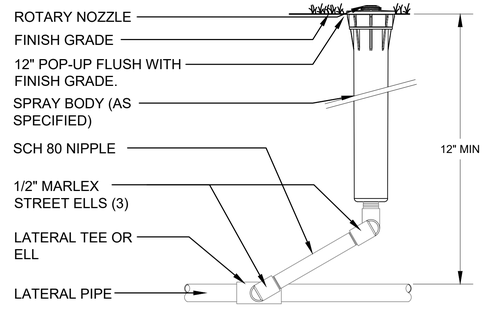
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NOTES:
INSTALL PART CIRCLE POP-UP HEADS 6" FROM EDGE OF PAVED AREAS.

2 4" POP-UP SPRINKLER HEAD

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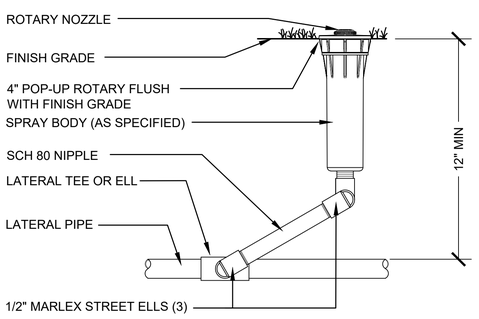
NOTES:
INSTALL PART CIRCLE POP-UP HEADS 6" FROM EDGE OF PAVED AREAS.

4 12" ROTARY POP UP

NOT TO SCALE P-KA-4015.01-37

7 TYPICAL ENTRY PLANTER SECTION

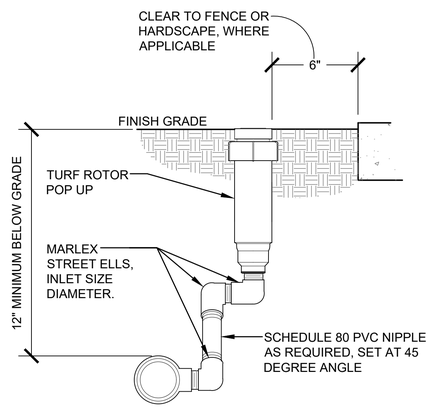
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NOTES:
INSTALL PART CIRCLE POP-UP HEADS 6" FROM EDGE OF PAVED AREAS.

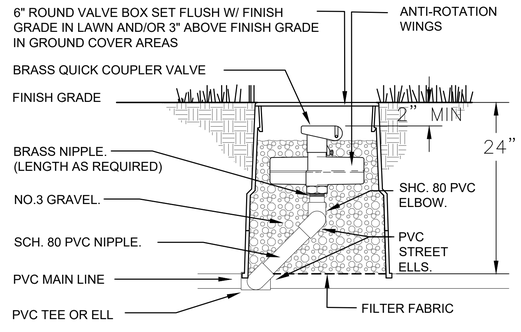
3 4" ROTARY POP-UP DETAIL

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5 4" TURF ROTOR WITH MARLEX ASSEMBLY

NOT TO SCALE P-KA-4015.01-41



NOTE:
1. ALL VALVE BOX COVER SHALL BE LABELED WITH VALVE TYPE, ZONE NUMBER AND, CONTROLLER NUMBER.
2. CONTRACTOR SHALL PROVIDE ONE (1) QUICK COUPLER KEY, ONE (1) HOSE ELL & ONE (1) COVER KEY FOR EACH QUICK COUPLER VALVE.

8 QUICK COUPLING VALVE

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TMK#: 4-6-014:113

FILENAME
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SHEET NAME

IRRIGATION DETAILS - 3

SCALE: AS SHOWN

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221093-01	L306
SHEET ISSUE DATE	
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IRRIGATION SYSTEM GENERAL NOTES

1. THIS PLAN IS DIAGRAMMATIC. IRRIGATION SYSTEM IS SUBJECT TO FIELD ADJUSTMENTS DUE TO UNANTICIPATED SITE CONDITIONS. LOCATE ALL MAINLINES, LATERALS, VALVES AND SPRINKLER HEADS WITHIN PLANTING AREAS, UNLESS OTHERWISE NOTED. PLACE MAINLINE IN PLANTING AREAS WHERE NO SLEEVES OR COPPER LINES ARE SHOWN. AVOID ANY CONFLICT BETWEEN UNDERGROUND UTILITIES, STRUCTURES AND PLANTINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES. BURY PRESSURE MAINLINES 24" DEEP MINIMUM AND LATERAL LINES 12" DEEP MINIMUM IN PLANTING AREAS.

2. CONTRACTOR SHALL INSTALL ALL IRRIGATION EQUIPMENT (IE. IRRIGATION LINES, CONTROL WIRES, VALVES, HEADS, ETC.) PER SPECIFICATIONS. EXISTING GATE VALVES, POINT OF CONNECTION, ETC. ARE DERIVED FROM THE BEST AVAILABLE INFORMATION AND ON-SITE INSPECTION. THE CONTRACTOR SHALL VERIFY THOSE POINTS OF CONNECTION NOTED AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

3. THE IRRIGATION SYSTEM WAS DESIGNED TO PERFORM WITH A STATIC PRESSURE OF 85 PSI AND WATER FLOW OF 55 GPM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THESE REQUIREMENTS THROUGH ONSITE TESTING AND SHALL REPORT THE FINDINGS TO THE ARCHITECT AT LEAST THIRTY (30) DAYS PRIOR TO START OF CONSTRUCTION.

4. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND OBSERVE ALL LOCAL CODES AND REGULATIONS. THE CONTRACTOR SHALL CONFIRM ALL SITE DIMENSIONS AND CONDITIONS, AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

3. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL SLEEVES, CONDUITS, MAINLINES AND LATERALS UNDER PAVEMENT AND THROUGH WALLS. CONTRACTOR SHALL ENSURE THAT THESE ITEMS ARE LAID PRIOR TO PLACEMENT OF PAVEMENT OR WALL STRUCTURES.

4. LOCATE AND INSTALL ALL SPRINKLER HEADS 6" FROM SIDEWALKS,BUILDINGS, AND WALL UNLESS OTHERWISE NOTED. FLEX TUBING SHALL BE INSTALLED ON ALL SPRINKLER HEAD ALONG SIDEWALKS. ADJUST ALL SPRINKLER HEADS AND FLOW CONTROL FOR MAXIMUM COVERAGE AND MINIMUM OVERTHROW AND MISTING. OPERATE ONLY ONE VALVE AT A TIME PER CONTROLLER, UNLESS OTHERWISE NOTED.

5. CONTRACTOR SHALL ADJUST ALL HEADS AS REQUIRED TO ACCOMMODATE ANY VERTICAL OBSTRUCTIONS THAT MAY OCCUR, INCLUDING BUT NOT LIMITED TO LIGHT POLES, SIGNAGE, ETC. VERIFY ALL HEAD LAYOUT WITH THE ARCHITECT PRIOR TO COMMENCING WORK.

6. PERFORM COVERAGE TEST. BEFORE PLANTING PERIOD, RUN AUTOMATIC CONTROLLER THROUGH ALL IT'S CYCLES. CHECK WATERING FOR HEAD TO HEAD COVERAGE AND UNIFORMITY IN THE PRESENCE OF THE ARCHITECT. RUN SYSTEM UNTIL THERE ARE PUDDLES OR THERE IS SHEET FLOW TO DETERMINE INITIAL IRRIGATION TIME AND NUMBER OF CYCLES PER WEEK NEEDED TO MEET WATER REQUIREMENTS OF PLANTS.

7. LOCATE VALVE BOXES SO THEY ARE OBSCURED BY VEGETATION AND IN LOCATIONS WHICH ARE NOT OBSERVABLE FROM BUILDING WINDOWS/OPENINGS AND AWAY FROM PEDESTRIAN WALKWAYS. GROUP VALVE BOXES AS FEASIBLE.

8. IF PLANS DO NOT SPECIFY DEPTH OF EXCAVATION, PROVIDE MINIMUM COVER TO FINISH GRADE AS FOLLOWS:

   a. 24" FOR IRRIGATION MAINLINE.
   b. 12 INCHES FOR IRRIGATION LATERAL
   c. 24 INCHES FOR SLEEVE OR CONDUIT UNDER LANDSCAPE PAVEMENT.
   d. FOR CONTROLLER WIRES AND CONDUITS IN UNPAVED AREAS, DEPTH EQUAL TO THAT OF PRESSURE IRRIGATION PIPE.

12. ENSURE TRENCHING AND INSTALLATION OPERATIONS DO NOT DAMAGE OR COMPROMISE WATERPROOFING SYSTEM.

13. AFTER INSTALLATION OF IRRIGATION, LANDSCAPE CONTRACTOR SHALL PROVIDE MARK-UP INFORMATION OF ANY CHANGES MADE IN THE FIELD TO THE FINAL DESIGN PLANS. PROVIDE THREE (3) REPRODUCIBLE COPIES DOCUMENTING THESE 'AS-BUILT' CONDITIONS TO THE ARCHITECT UPON COMPLETION OF IRRIGATION INSTALLATION WORK OR THIRTY (30) DAYS BEFORE FINAL INSPECTION, WHICHEVER IS SOONER.

14. CONTRACTOR SHALL MAKE ALL WIRE SPLICES INSIDE OF VALVE BOXES.

15. INCIDENTAL PARTS WHICH MAY NOT BE SPECIFIED OR INDICATED ON DRAWINGS, BUT ARE REQUIRED TO COMPLETE THE IRRIGATION SYSTEM SHALL BE FURNISHED AND INSTALLED WITH NO ADDITIONAL COST TO THE OWNER.

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FILENAME
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SHEET NAME
IRRIGATION NOTES

SCALE: AS SHOWN

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PROJECT NO.
221093-01

SHEET ISSUE DATE
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SHEET NO.
L307

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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	ARC	PSI	GPM	RADIUS
⑥	RAIN BIRD 1804-SAM-PRS 06V TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE. PRESSURE REGULATING.	ADJ	15 - 30	0.26 - 1.20	4' - 6'
⑧	RAIN BIRD 1804-SAM-PRS 08V TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE. PRESSURE REGULATING.	ADJ	15 - 30	0.51 - 1.70	6' - 8'
⑩	RAIN BIRD 1804-SAM-PRS 10V TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE. PRESSURE REGULATING.	ADJ	15 - 30	0.48 - 2.60	7' - 10'
⑫	RAIN BIRD 1804-SAM-PRS 12V TURF SPRAY 4.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE. PRESSURE REGULATING.	ADJ	15 - 30	0.39 - 2.36	9' - 12'
⑩	RAIN BIRD 1812-SAM-PRS 05H SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	180	15 - 30	0.14 - 0.20	3' - 5'
⑧	RAIN BIRD 1812-SAM-PRS 08H SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	180	15 - 30	0.37 - 0.52	5' - 8'
⑧	RAIN BIRD 1812-SAM-PRS 08Q SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	90	15 - 30	0.18 - 0.26	5' - 8'
⑩	RAIN BIRD 1812-SAM-PRS 10H SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	180	15 - 30	0.58 - 0.79	7' - 10'
⑫	RAIN BIRD 1812-SAM-PRS 12H SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	180	15 - 30	0.90 - 1.30	9' - 12'
⑫	RAIN BIRD 1812-SAM-PRS 12Q SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	90	15 - 30	0.45 - 0.65	9' - 12'
4	RAIN BIRD 1812-SAM-PRS 04V SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	ADJ	15 - 30	0.21 - 0.88	3' - 4'
6	RAIN BIRD 1812-SAM-PRS 06V SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	ADJ	15 - 30	0.26 - 1.20	4' - 6'
8	RAIN BIRD 1812-SAM-PRS 08V SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	ADJ	15 - 30	0.51 - 1.70	6' - 8'
10	RAIN BIRD 1812-SAM-PRS 10V SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	ADJ	15 - 30	0.48 - 2.60	7' - 10'
12	RAIN BIRD 1812-SAM-PRS 12V SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	ADJ	15 - 30	0.39 - 2.36	9' - 12'
15	RAIN BIRD 1812-SAM-PRS 15V SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2IN. NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	ADJ	15 - 30	0.65 - 3.70	11' - 15'
Ⓡ	RAIN BIRD R-VAN-STRIP 1804-SAM-PRS RCS SHRUB ROTARY, 5FT.X15FT. (LCS AND RCS), 5FT.X30FT. (SST) HAND ADJUSTABLE MULTI-STREAM ROTARY W/ 1800 TURF SPRAY BODY ON 4IN. POP-UP, WITH CHECK VALVE AND IN-STEM PRESSURE REGULATOR. 1/2IN. NPT FEMALE THREADED INLET.	RCS	30 - 55	0.18 - 0.28	4' X 14' - 6' X 16'
ⓘ	RAIN BIRD R-VAN14 1804-SAM-PRS RV-14 TURF ROTARY, 8FT.-14FT. 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 4IN. POP-UP, WITH CHECK VALVE AND IN-STEM PRESSURE REGULATOR. 1/2IN. NPT FEMALE THREADED INLET.	30 - 55	0.36 - 0.56	4' X 28' - 6' X 32'	10'
18	RAIN BIRD R-VAN18 1804-SAM-PRS RV-18 TURF ROTARY, 13FT.-18FT. 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 4IN. POP-UP, WITH CHECK VALVE AND IN-STEM PRESSURE REGULATOR. 1/2IN. NPT FEMALE THREADED INLET.	30 - 55	0.42 - 1.62	16' - 18'	13'
18	RAIN BIRD R-VAN18 1804-SAM-PRS RV-18F TURF ROTARY, 13FT.-18FT. 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 4IN. POP-UP, WITH CHECK VALVE AND IN-STEM PRESSURE REGULATOR. 1/2IN. NPT FEMALE THREADED INLET.	30 - 55	1.65 - 2.11	16' - 18'	13'
24	RAIN BIRD R-VAN24 1804-SAM-PRS RV-24 TURF ROTARY, 17FT.-24FT. 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 4IN. POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2IN. NPT FEMALE THREADED INLET.	30 - 55	0.60 - 2.88	19' - 24'	15'
24	RAIN BIRD R-VAN24 1804-SAM-PRS RV-24F TURF ROTARY, 17FT.-24FT. 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 4IN. POP-UP, WITH CHECK VALVE AND IN-STEM PRESSURE REGULATOR. 1/2IN. NPT FEMALE THREADED INLET.	30 - 55	2.35' - 3.74'	19' - 24'	15'
Ⓛ	RAIN BIRD R-VAN-STRIP 1812-SAM-PRS LCS SHRUB ROTARY, 5FT.X15FT. (LCS AND RCS), 5FT.X30FT. (SST) HAND ADJUSTABLE MULTI-STREAM ROTARY W/ 1800 SHRUB SPRAY BODY ON 12IN. POP-UP, WITH CHECK VALVE AND IN-STEM PRESSURE REGULATOR. 1/2IN. NPT FEMALE THREADED INLET.	30 - 55	0.18 - 0.28	4' X 14' - 6' X 16'	3.2'x9.6'
Ⓡ	RAIN BIRD R-VAN-STRIP 1812-SAM-PRS RCS SHRUB ROTARY, 5FT.X15FT. (LCS AND RCS), 5FT.X30FT. (SST) HAND ADJUSTABLE MULTI-STREAM ROTARY W/ 1800 SHRUB SPRAY BODY ON 12IN. POP-UP, WITH CHECK VALVE AND IN-STEM PRESSURE REGULATOR. 1/2IN. NPT FEMALE THREADED INLET.	30 - 55	0.18 - 0.28	4' X 14' - 6' X 16'	3.2'x9.6'
Ⓢ	RAIN BIRD R-VAN-STRIP 1812-SAM-PRS SST SHRUB ROTARY, 5FT.X15FT. (LCS AND RCS), 5FT.X30FT. (SST) HAND ADJUSTABLE MULTI-STREAM ROTARY W/ 1800 SHRUB SPRAY BODY ON 12IN. POP-UP, WITH CHECK VALVE AND IN-STEM PRESSURE REGULATOR. 1/2IN. NPT FEMALE THREADED INLET.	30 - 55	0.36 - 0.56	4' X 28' - 6' X 32'	3.2'x19.2'
ⓘ	RAIN BIRD R-VAN14 1812-SAM-PRS RV-14 SHRUB ROTARY, 8FT.-14FT. 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 SHRUB SPRAY BODY ON 12IN. POP-UP, WITH CHECK VALVE AND IN-STEM PRESSURE REGULATOR. 1/2IN. NPT FEMALE THREADED INLET.	30 - 55	0.28 - 1.17	13' - 15'	10'
18	RAIN BIRD R-VAN18 1812-SAM-PRS RV-18 SHRUB ROTARY, 13FT.-18FT. 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 SHRUB SPRAY BODY ON 12IN. POP-UP, WITH CHECK VALVE AND IN-STEM PRESSURE REGULATOR. 1/2IN. NPT FEMALE THREADED INLET.	30 - 55	0.42 - 1.62	16' - 18'	13'
18	RAIN BIRD R-VAN18 1812-SAM-PRS RV-18F SHRUB ROTARY, 13FT.-18FT. 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 SHRUB SPRAY BODY ON 12IN. POP-UP, WITH CHECK VALVE AND IN-STEM PRESSURE REGULATOR. 1/2IN. NPT FEMALE THREADED INLET.	30 - 55	1.65 - 2.11	16' - 18'	13'
24	RAIN BIRD R-VAN24 1812-SAM-PRS RV-24 SHRUB ROTARY, 17FT.-24FT. 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 SHRUB SPRAY BODY ON 12IN. POP-UP, WITH CHECK VALVE AND IN-STEM PRESSURE REGULATOR. 1/2IN. NPT FEMALE THREADED INLET.	30 - 55	0.60 - 2.88	19' - 24'	15'
24	RAIN BIRD R-VAN24 1812-SAM-PRS RV-24F SHRUB ROTARY, 17FT.-24FT. 45-270 DEGREES AND 360 DEGREES. HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 SHRUB SPRAY BODY ON 12IN. POP-UP, WITH CHECK VALVE AND IN-STEM PRESSURE REGULATOR. 1/2IN. NPT FEMALE THREADED INLET.	30 - 55	2.35 - 3.74	19' - 24'	15'

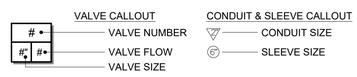
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS
1.0	RAIN BIRD 5004-PL-PC-SAM-R-SS-LA 1.0 TURF ROTOR, 4IN. POP-UP. STAINLESS STEEL RISER, ADJUSTABLE TO FULL CIRCLE. WITH LOW ANGLE NOZZLE, IN-STEM PRESSURE REGULATOR, FLOW SHUT-OFF DEVICE, AND SEAL-A-MATIC CHECK VALVE.	35	0.92	28'
1.5	RAIN BIRD 5004-PL-PC-SAM-R-SS-LA 1.5 TURF ROTOR, 4IN. POP-UP. STAINLESS STEEL RISER, ADJUSTABLE TO FULL CIRCLE. WITH LOW ANGLE NOZZLE, IN-STEM PRESSURE REGULATOR, FLOW SHUT-OFF DEVICE, AND SEAL-A-MATIC CHECK VALVE.	35	1.38	30'
3.0	RAIN BIRD 5004-PL-PC-SAM-R-SS-LA 3.0 TURF ROTOR, 4IN. POP-UP. STAINLESS STEEL RISER, ADJUSTABLE TO FULL CIRCLE. WITH LOW ANGLE NOZZLE, IN-STEM PRESSURE REGULATOR, FLOW SHUT-OFF DEVICE, AND SEAL-A-MATIC CHECK VALVE.	35	2.68	33'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD XACZ-075-PRF LOW FLOW DRIP CONTROL KIT, 3/4IN. LOW FLOW ANTI-SIPHON VALVE, 3/4IN. PRESSURE REGULATING RBY FILTER, AND 30PSI PRESSURE REGULATOR, FOR ABOVE GRADE INSTALLATION. 0.2 GPM-5 GPM. INSTALL IN RECTANGULAR VALVE BOX.
	PIPE TRANSITION POINT IN DRIP BOX PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER IN 6IN. DRIP BOX.
Ⓕ	FLUSH VALVE PLUMBED TO FLUSH MANIFOLD. INSTALL IN 6" ROUND VALVE BOX.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-09-12 XFS SUB-SURFACE PRESSURE COMPENSATING DRIPLINE W/COPPER SHIELD TECHNOLOGY. 0.9 GPH EMITTERS AT 12" O.C. LATERALS SPACED AT 12" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. UV RESISTANT. INSTALL 2" BLACK CINDER MULCH OVER ALL DRIPLINES.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD PESB-PRS-D 1IN., 1-1/2IN., 2IN., 3IN., 3IN. PLASTIC INDUSTRIAL REMOTE CONTROL VALVE. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATING MODULE, AND SCRUBBER TECHNOLOGY FOR RELIABLE PERFORMANCE IN DIRTY WATER IRRIGATION APPLICATIONS. INSTALL IN RECTANGULAR VALVE BOX.
	RAIN BIRD 5-LRC 1IN. BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING THERMOPLASTIC RUBBER COVER, AND 1-PIECE BODY. INSTALL IN ROUND VALVE BOX.
	NIBCO T-113 CLASS 125 BRONZE GATE SHUT OFF VALVE WITH BRONZE WHEEL HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4IN. - 3IN. INSTALL IN ROUND VALVE BOX.
BF	FEBCO 825Y 2" REDUCED PRESSURE BACKFLOW PREVENTER
C	RAIN BIRD ESPLXME2P 48 STATION, TRADITIONALLY-WIRED , PRO SMART, COMMERCIAL CONTROLLER. (1) ESPLXME2P 12-STATION, PRO SMART, (MODULE INCLUDED) INDOOR/OUTDOOR, PLASTIC WALL-MOUNT ENCLOSURE W/ (3) ESPLXMSM12 - 12-STATION EXPANSION MODULES.
RS	RAIN BIRD RSD BEX RAIN SENSOR, WITH METAL LATCHING BRACKET AND EXTENSION WIRE, MOUNT TO GALVANIZED POST

SCE	V.I.T STRONG BOX SB-24SS NEMA 3R STAINLESS STEEL PEDESTAL MOUNT CONTROLLER ENCLOSURE. 24"W, 36"H, 12" D WITH MATCHING STAINLESS STEEL PEDESTAL (STRONG BOX PED 24-SS). INCLUDES THERMOSTATICALLY CONTROLLED FAN ASSEMBLY (STRONG BOX OPT-FAN). LOCATE AND CONNECT TO NEW 120-VOLT POWER INSIDE WATERPROOF J-BOX (SEE ELECTRICAL PLANS FOR EXACT LOCATION). ENSURE CONTROLLER IS GROUNDED TO MINIMUM 8-OHMS OR AS RECOMMENDED BY MANUFACTURER, WHICHEVER IS LOWER.
POC	POINT OF CONNECTION 2" CONNECT TO NEW 2" GATE VALVE IN VALVE BOX. REFER TO CIVIL PLANS FOR EXACT LOCATION.
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
	IRRIGATION LATERAL LINE: TYPE K COPPER PIPE
	IRRIGATION LATERAL LINE: POLYETHYLENE PIPE SDR -7
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	IRRIGATION MAINLINE: TYPE K COPPER PIPE
	PIPE SLEEVE: PVC SCHEDULE 80
	CONTROL WIRE CONDUIT: PVC SCHEDULE 80 UL APPROVED TYPICAL CONDUIT FOR IRRIGATION CONTROL WIRE. CONDUIT SIZE SHALL ALLOW FOR IRRIGATION CONTROL WIRE TO EASILY SLIDE THROUGH CONDUIT MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.



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REVISIONS

Date	Description

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

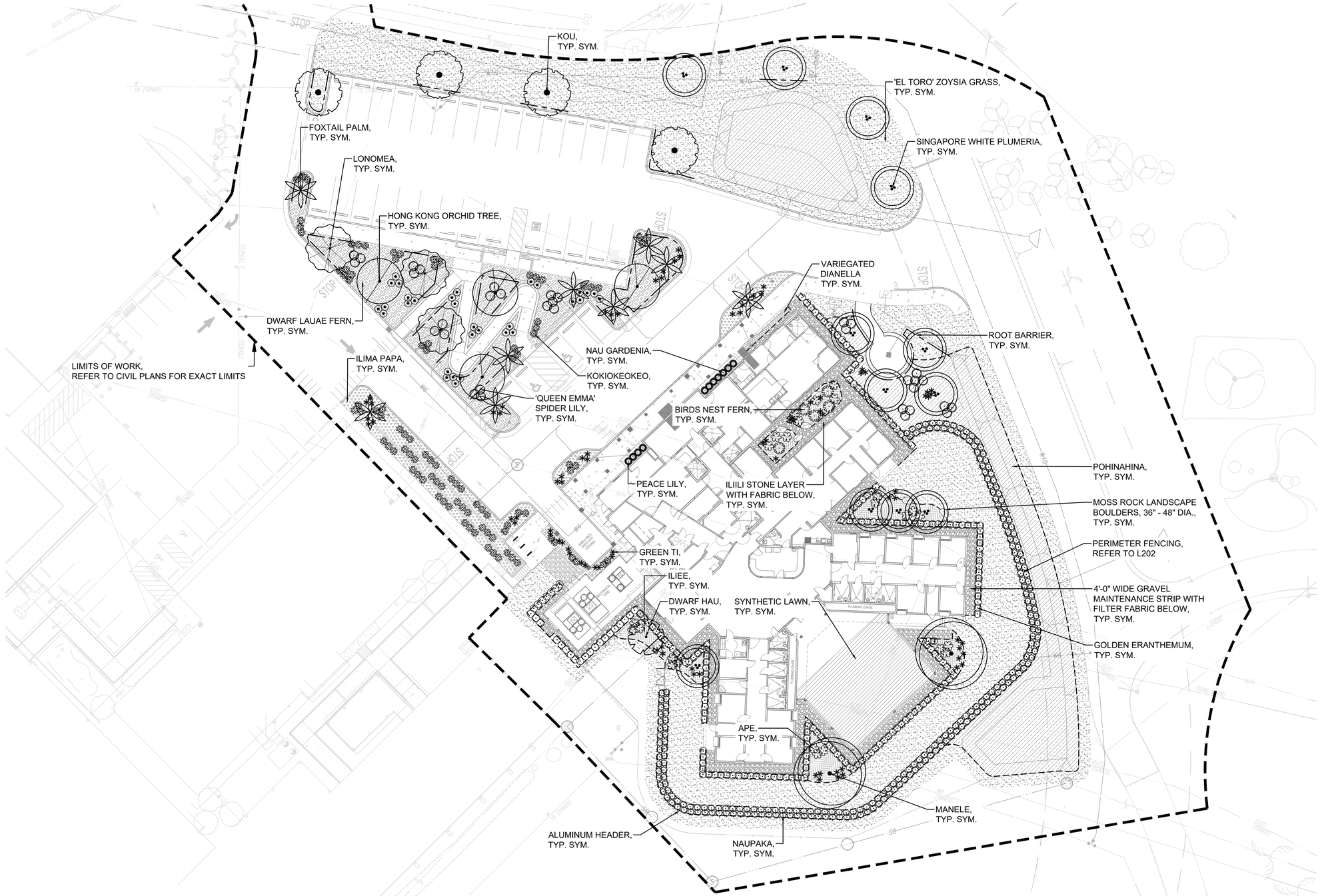
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IRRIGATION SCHEDULE

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PW/AF	MS
PROJECT NO. 221093-01	SHEET NO. L308
SHEET ISSUE DATE 02/27/2026	

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NOTES:

1. INSTALL ROOT BARRIERS FOR ALL TREES.
2. PLANT QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND DIMENSIONS.
3. INSTALL 6" LAYER IMPORTED SCREENED TOPSOIL AND 2" LAYER ORGANIC SOIL AMENDMENT OVER ALL NEW LANDSCAPE AREAS.
4. PROVIDE A NEW AUTOMATIC IRRIGATION SYSTEM FOR ALL NEW PLANTING AREAS, TYP.
5. PROVIDE 2" LAYER BLACK CINDER MULCH BELOW ALL GROUNDCOVER AND SHRUB AREAS

GRAPHIC SCALE: 1" = 20'-0"
0 5 10 20 40

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TMK#: 4-6-014:113

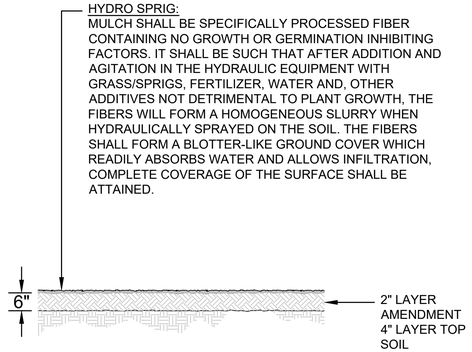
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SHEET NAME
PLANTING PLAN

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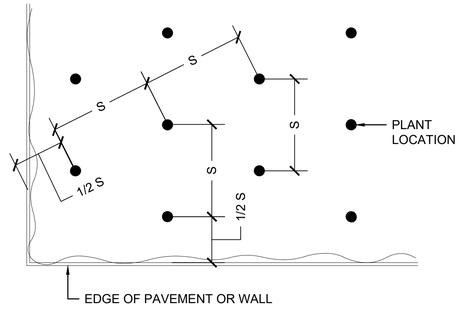
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PROJECT NO.	SHEET NO.
221093-01	**L400**
SHEET ISSUE DATE	
02/27/2026	

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1 HYDRO-SPRIG DETAIL

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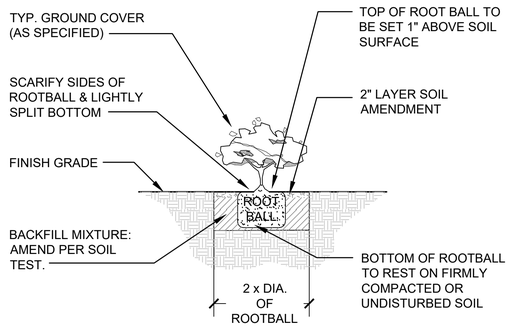


NOTE:
1. S = SPACING, (REFER TO PLANT LIST FOR SPACING)
2. USE SPACING LAYOUT FOR SHRUBS, GROUNDCOVERS, AND ANNUALS

2 TRIANGULAR SPACING

NOT TO SCALE P-KA-4015.01-01

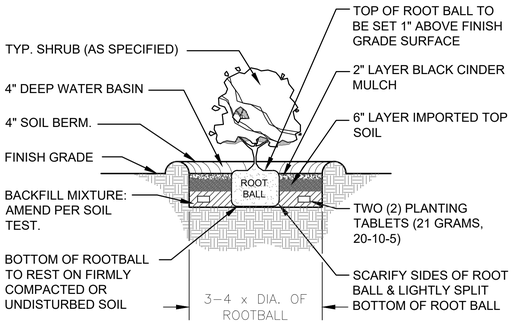
NOTE:
IMMEDIATELY AFTER PLANTING, WATER HEAVILY TO ENSURE SOIL SETTLES AROUND ROOTS.



3 GROUND COVER PLANTING

NOT TO SCALE P-KA-4015.01-02

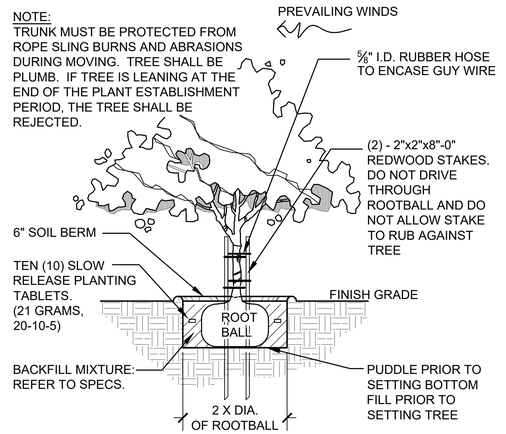
NOTES:
1. SINGLE STEM SHRUBS SHALL BE PLUMB. IF SHRUB IS LEANING AT THE END OF THE PLANT ESTABLISHMENT PERIOD, IT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
2. IMMEDIATELY AFTER PLANTING, WATER HEAVILY TO ENSURE SOIL SETTLES AROUND ROOTS.



4 SHRUB PLANTING

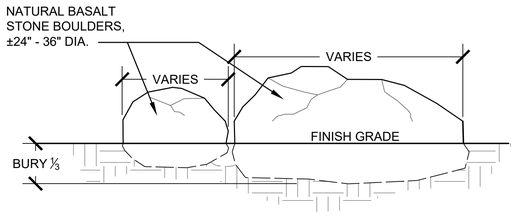
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NOTE:
TRUNK MUST BE PROTECTED FROM ROPE SLING BURNS AND ABRASIONS DURING MOVING. TREE SHALL BE PLUMB. IF TREE IS LEANING AT THE END OF THE PLANT ESTABLISHMENT PERIOD, THE TREE SHALL BE REJECTED.



5 TREE PLANTING AND DOUBLE STAKING

NOT TO SCALE P-KA-4015.01-09



LANDSCAPE BOULDERS

6 NATURAL BOULDER DETAIL

NOT TO SCALE P-KA-4015.01-08

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TMK#: 4-6-014:113

FILENAME
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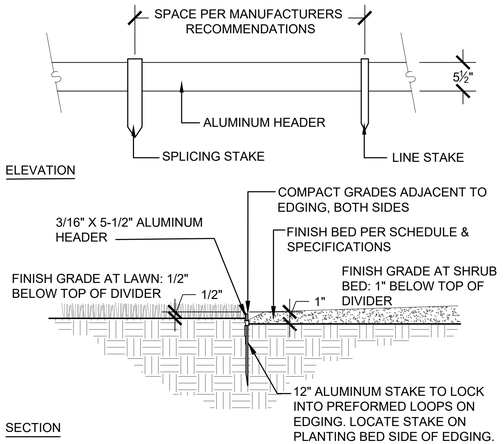
SHEET NAME
PLANTING DETAILS - 1

SCALE: AS SHOWN

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PROJECT NO.	SHEET NO.
221093-01	L401
SHEET ISSUE DATE	
02/27/2026	

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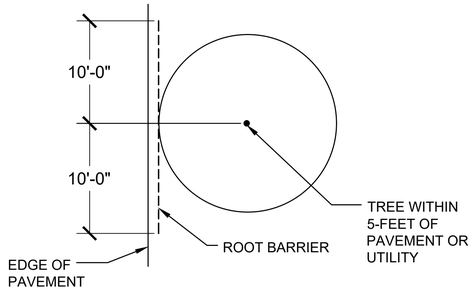
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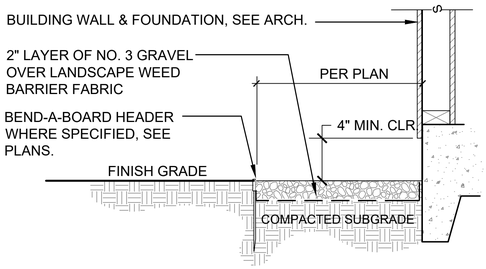


1 ALUMINUM LANDSCAPE HEADER

NOT TO SCALE P-KA-4015.01-06

NOTES:
1. PLACE TOP EDGE OF PLASTIC ROOT BARRIER AT FINISH GRADE AND SECURE W/MANUFACTURER PROVIDED PINS.
2. SEAMS SHALL HAVE MINIMUM 3" OVERLAP. REFER TO MANUFACTURER INSTRUCTIONS FOR BONDING THE SEAM.
3. DO NOT ALLOW GAPS IN BARRIER DURING INSTALLATION OR BACKFILLING.
4. REFER TO PLANTING FOR TREE LOCATIONS.

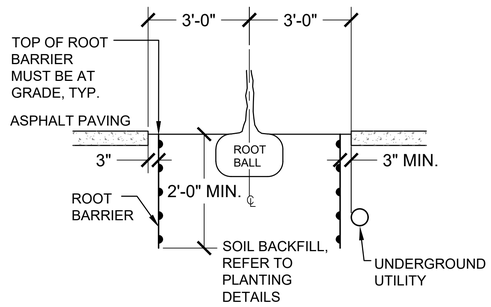




NOTES:
1. INSTALL HEADER & WEED BARRIER FABRIC PER MANUFACTURER'S INSTRUCTIONS.

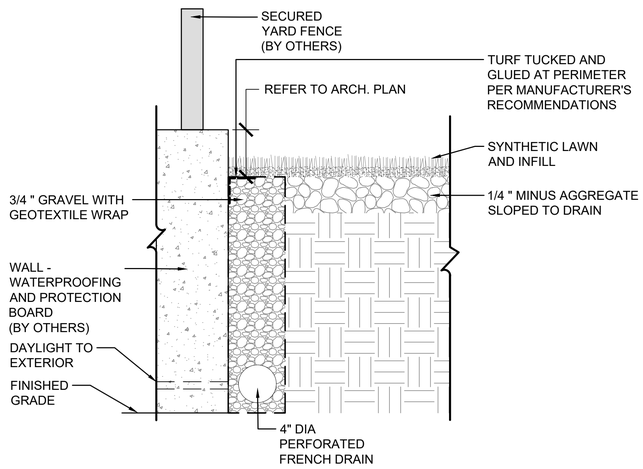
2 GRAVEL MAINTENANCE STRIP

NOT TO SCALE P-KA-4015.01-07



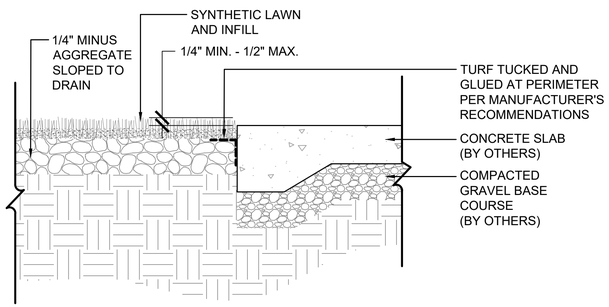
4 ROOT BARRIER

NOT TO SCALE P-KA-4015.01-10



3 SYNTHETIC LAWN DETAIL AT SECURED YARD

NOT TO SCALE P-KA-4015.01-11



5 SYNTHETIC LAWN DETAIL AT SECURED YARD

NOT TO SCALE P-KA-4015.01-11

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TMK#: 4-6-014:113

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SHEET NAME
PLANTING DETAILS - 2

SCALE: AS SHOWN

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PROJECT NO. 221093-01	SHEET NO. **L402**
SHEET ISSUE DATE 02/27/2026	

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PLANTING NOTES

1. LANDSCAPE CONTRACTOR SHALL FIELD VERIFY ALL PLANT QUANTITIES AND DIMENSIONS PRIOR TO INSTALLATION. QUANTITIES SHOWN ON PLANT LIST AND MATERIAL SCHEDULES ARE FOR REFERENCE ONLY, VERIFY ACTUAL QUANTITIES AS SHOWN ON PLAN. IF THERE IS A DISCREPANCY, THE PLANTING PLAN SHALL TAKE PRECEDENCE.
2. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES.
3. PRIOR TO TREE AND SHRUB HOLE EXCAVATION, ALL PLANTING LOCATIONS SHALL BE STAKED OUT BY CONTRACTOR FOR APPROVAL BY ARCHITECT. DO NOT PLANT UNTIL GROUND HAS BEEN PREPARED AND FREE OF STONES GREATER THAN ½", DIA., SITE IS NEAT, ORDERLY, AND THE ARCHITECT ACCEPTS SITE FOR PLANTING.
4. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN PLANT LOCATIONS OR INSUFFICIENT PLANT QUANTITIES DUE TO DIFFERENCE IN PLANS AND ACTUAL FIELD CONDITIONS.
5. NOTIFY ARCHITECT 30 DAYS PRIOR TO PLANTING OPERATIONS FOR APPROVAL OF ALL PLANT MATERIAL AT PLACE OF GROWTH. ALL PLANT MATERIAL NOT APPROVED BY THE ARCHITECT WILL BE SUBJECT TO REJECTION. THE ARCHITECT WILL INSPECT PLANTS AT THE PLACE OF GROWTH AND AFTER THE DELIVERY TO THE PROJECT. PROVIDE TAGGING MATERIAL FOR ARCHITECT'S USE AND EACH TREE SHALL BE TAGGED BY THE ARCHITECT. TREES DELIVERED TO THE PROJECT WITHOUT ARCHITECT'S TAG WILL BE REJECTED.
6. PLANTS SHALL MEET SIZE INDICATED BY MINIMUM HEIGHT AND SPREAD. PLANTS SHALL BE STRAIGHT AND UNIFORMLY SHAPED, UNLESS UNIQUE OR SPECIAL CHARACTERISTICS ARE SPECIFIED, AND SHALL BE UNDAMAGED, SOUND, HEALTHY, VIGOROUS AND FREE OF DISEASE AND INSECT INFESTATION. PLANTS NOT CONFORMING TO THESE REQUIREMENTS ON DELIVERY TO THE PROJECT AND AT THE END OF THE PLANT ESTABLISHMENT PERIOD WILL BE REJECTED.
7. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE COMPLETE REMOVAL AND DAMAGES RESULTING FROM PLANTING ANY PLANT SPECIES LISTED ON THE HAWAII DEPARTMENT OF AGRICULTURE 'NOXIOUS WEED RULES' AS DEFINED IN THE STATUTE, HAWAII ADMINISTRATIVE RULES 4:68:1 OR THE 'FEDERAL NOXIOUS WEED LIST' AS DEFINED IN TITLE 7 OF THE CODE OF FEDERAL REGULATIONS (CFR), PARTS 360 AND 361.
8. ALL TREE WORK MUST ADHERE TO AMERICAN NATIONAL STANDARD INSTITUTE (OR ANSI) - A300 TREE CARE STANDARDS AND ANSI-Z133 SAFETY STANDARDS FOR TREE WORK. WORK SHALL BE CONTRACTED TO ARBORISTS THAT HAS BEEN CERTIFIED IN GOOD STANDINGS AS AN ISA CERTIFIED ARBORIST FOR AT LEAST 5 YEARS TO ASSURE THAT TREE WORK IS PERFORMED PROPERLY AND TREES ARE NOT DAMAGED BY PRACTICES SUCH AS TOPPING, FLUSH CUTS, OVER-THINNING, OR CLIMBING WITH SPIKES. CONTRACTOR SHALL SUBMIT A COPY OF THE ISA ARBORIST CERTIFICATION OF GOOD STANDING OF 5 YEARS TO THE ARCHITECT A MINIMUM OF 7 DAYS PRIOR TO TREE PRUNING.
9. FOR THE DURATION OF CONSTRUCTION WITHIN THE DRIP LINE OF TREES TO REMAIN THERE MUST BE: NO CHANGES, ALTERATIONS OR DISTURBANCE TO THE GRADE BY ADDING FILL, EXCAVATING OR SCRAPING EXCEPT AS NOTED ON PLANS; NO STORAGE OF CONSTRUCTION MATERIAL OR EQUIPMENT; NO STOCKPILING OF ANY CONSTRUCTION MATERIAL OR ANY EXCAVATED MATERIAL NO DISPOSAL OF ANY LIQUIDS (E.G. CONCRETE SLEUTH, GAS, OIL, PAINT); NO VEHICULAR TRAFFIC, EQUIPMENT OR EXCESSIVE PEDESTRIAN TRAFFIC NO ATTACHMENT OF ANY WIRES, ROPES, LIGHTS, OR ANY OTHER SUCH ATTACHMENT OTHER THAN THOSE OF PROTECTIVE NATURE TO ANY TREE TO BE PRESERVED; AND NO CLEANING OF EQUIPMENT OR MATERIAL UNDER THE CANOPY OF ANY TREE OR GROUP OF TREES TO REMAIN.
10. PROTECTIVE FENCE SHALL BE ERECTED AROUND TREES IDENTIFIED ON PLAN OR TREES WITH TRUNK DIAMETER GREATER THAN 24 INCHES AS MEASURED AT HEIGHT OF 4 ½ FEET. PROTECTIVE FENCE SHALL BE 4 FEET HIGH ORANGE PLASTIC MESH OR APPROVED EQUIVALENT SUPPORTED ON STEEL T-POST A MINIMUM OF 6 FEET LONG. PROTECTIVE FENCE SHALL SURROUND TREE AT MINIMUM OF 10 FEET FROM TREE TRUNK WITH STEEL T-POST AT A MINIMUM OF 5 FEET ON CENTER.
11. IF TREES OTHER THAN THOSE SPECIFICALLY DESIGNATED FOR REMOVAL ARE DAMAGED BEYOND SURVIVAL CONDITIONS AS DETERMINED BY THE ARCHITECT, THE CONTRACTOR SHALL REMOVE SUCH TREES AND REPLACE THE TREE WITH A SAME SPECIES AND SIZE AND MAINTAIN FOR THE DURATION OF CONSTRUCTION OR 12 MONTHS WHICHEVER IS GREATER AT NO COST TO THE OWNER.
12. PROVIDE AN EVEN LAYER OF PLANTING SOIL OVER ALL PLANTING AREAS. REFER TO THE SPECIFICATIONS FOR TOPSOIL MIXTURE DEPTH. REPRESENTATIVE SAMPLES OF SOIL FROM PROJECT SITE SHALL BE SUBMITTED TO A LABORATORY ACCEPTABLE TO THE ARCHITECT FOR ANALYSIS OF REQUIRED SOIL AMENDMENTS. TEST RESULTS AND FERTILIZATION SCHEDULE SHALL BE PRESENTED TO THE ARCHITECT FOR REVIEW AND ACCEPTANCE BEFORE PLACING PLANTING SOIL. UNIFORMLY DISTRIBUTE FERTILIZER AND AMENDMENTS OVER PLANTING AREAS AS RECOMMENDED BY THE SOIL ANALYSIS REPORT. ROTOTILL TOP LAYER OF SOIL TO EVENLY INCORPORATE FERTILIZER AND AMENDMENTS.
13. GUY WIRES, FLAGGING, STAKES, WINDBREAKERS, ETC. SHALL BE MAINTAINED AND REPLACED IF NECESSARY BY THE CONTRACTOR UNTIL THE TREE OR SHRUB IS ABLE TO STAND BY ITSELF. THE CONTRACTOR SHALL REMOVE AND DISPOSE AT THE END OF PLANT ESTABLISHMENT PERIOD.
14. AFTER INSTALLATION OF PLANTING & IRRIGATION, LANDSCAPE CONTRACTOR TO PROVIDE MARK-UP INFORMATION OF ANY CHANGES MADE IN THE FIELD TO THE FINAL DESIGN PLANS.

GENERAL PROJECT NOTES

1. THESE NOTES ARE TO BE USED FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO ANY WRITTEN SPECIFICATIONS, APPROVED ADDENDA, AND CHANGE ORDERS ASSOCIATED WITH THESE LANDSCAPE CONSTRUCTION DOCUMENTS.
2. A QUALIFIED SUPERVISOR SHALL BE PRESENT ON SITE AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION.
3. THE LANDSCAPE CONTRACTOR SHALL COORDINATE ALL WORK WITH RELATED CONTRACTORS AND WITH THE GENERAL CONSTRUCTION OF THE PROJECT IN ORDER NOT TO IMPEDE THE PROGRESS OF THE WORK OF OTHERS OR THE CONTRACTOR'S OWN WORK. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO COORDINATE ALL CONSTRUCTION ELEMENT LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATIONS OF EXISTING AND FUTURE UNDERGROUND SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH THE WORK TO BE DONE. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE.
4. OBSERVATION VISITS TO THE JOB SITE BY THE OWNER'S REPRESENTATIVE DO NOT INCLUDE INSPECTIONS OF CONSTRUCTION METHODS AND SAFETY CONDITIONS AT THE WORK SITE. THESE VISITS SHALL NOT BE CONSTRUED AS CONTINUOUS AND DETAILED INSPECTIONS.
5. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE.
6. CONSTRUCTION DETAILING, MATERIALS, EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED WITHIN THESE PLANS MAY BE CONSIDERED FOR USE PROVIDED PRIOR WRITTEN APPROVAL IS OBTAINED FROM OWNER'S REPRESENTATIVE PRIOR TO IMPLEMENTATION.
7. LANDSCAPE CONTRACTOR (LC) SHALL BE FAMILIAR WITH AND ADHERE TO ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS PERTAINING TO THE PROJECT WORK. ANY CONFLICTS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY.
8. LC SHALL INSPECT THE CONDITION OF EXISTING WORK FOR DEFECTS PRIOR TO BEGINNING WORK. ALL HARDSCAPE WILL BE REVIEWED DURING THE FINAL ACCEPTANCE WALK. ANY DAMAGE DUE TO THE LC WORK SHALL BE REPAIRED AT THEIR EXPENSE.
9. WHERE 2 OR MORE REQUIREMENTS CREATE OVERLAPPING CONDITIONS, CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE IMMEDIATELY FOR INTERPRETATION.

SPECIAL NOTE - COQUI FROG

(ELEUTHERODACTYLUS COQUI AND/OR ELUTHERODACTYLUS PLANIROSTRIS):

1. PRIOR TO TRANSPORT TO THE PROJECT, INSPECT, TAKE PRECAUTIONS, AND CERTIFY THAT PLANT MATERIALS, EQUIPMENT AND VEHICLES ARE FREE OF COQUI FROGS AND/OR THIER EGGS.
2. IN THE EVENT OF THE PRESENCE OF COQUI FROGS AND/OR THEIR EGGS, THEY SHALL BE COMPLETELY DESTROYED AND REMOVED AND THE PLANT MATERIAL, EQUIPMENT, OR VEHICLE TREATED AS RECOMMENDED BY THE STATE AND RE-INSPECTED.
3. REPORT PRESENCE OF COQUI FROGS OR EGGS TO THE HAWAII DEPT. OF AGRICULTURE PEST HOTLINE AT (808) 643-PEST (7278), OR HAWAII EARLY DETECTION NETWORK AT "REPORT A PEST ONLINE" WWW.643PEST.ORG, OR THE MAUI INVASIVE SPECIES COMMITEE (MISC) PH. (808) 573-6472 OR EMAIL: MISCPR@HAWAII.EDU, OR BIG ISLAND INVASIVE SPECIES COMMITTEE (BIISC), EMAIL: BIISC@HAWAII.EDU OR WEBSITE: WWW.BIISC.ORG.

MULCH STORAGE AND PLACEMENT NOTES

1. CONTRACTOR SHALL INSPECT ALL MULCH FOR COCONUT RHINOCEROS BEETLE (Oryctes rhinoceros) AND LARVAE PRIOR TO PLACEMENT OF MULCH. CONTRACTOR SHALL SUBMIT A LETTER CERTIFYING THAT MULCH MATERIAL IS FREE OF RHINOCEROS BEETLE LARVE OR OTHER INVASIVE SPECIES PRIOR TO PLACEMENT. CONTRACTOR SHALL REFER TO THE HAWAII DEPARTMENT OF AGRICULTURE (HDOA) "HONOLULU COCONUT RHINOCEROS BEETLE ERADICATION PROGRAM" BROCHURE DATED REV. 3/4/15. MORE INFORMATION IS AVAILABLE AT <http://hdoa.hawaii.gov/PI/MAIN/CRB/>
2. IF COCONUT RHINOCEROS BEETLE (CRB) OR CRB LARVAE ARE FOUND, CONTRACTOR SHALL NOTIFY THE HDOA MAUI PLANT PEST CONTROL BRANCH IMMEDIATELY PHONE: 808-873-3555. CONTRACTOR SHALL ALSO REPORT SIGHTING TO THE HAWAII STATE PEST HOTLINE: 808-643-PEST (7378) OR EMAIL VIA <STOP.RHINO@GMAIL.COM>
3. CONTRACTOR SHALL FOLLOW PROPER PROCEDURE AS DETERMINED BY THE HDOA FOR THE REMOVAL AND ERADICATION OF CRB OR CRB LARVAE (AND OTHER INVASIVE SPECIES IF DISCOVERED) .
4. CONTRACTOR SHALL SUBMIT A PLAN TO REMOVE & ERADICATE CRB OR CRB LARVAE AND OTHER INVASIVE SPECIES FROM MULCH MATERIAL TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND ACCEPTANCE.
5. CONTRACTOR SHALL ENSURE DEPTH OF PLACED MULCH DOES NOT EXCEED TWO (2) INCHES.

LITTLE FIRE ANT PREVENTION PROGRAM

1. LANDSCAPE CONTRACTOR WILL SCHEDULE AND NOTIFY ARCHITECT OF RECORD AND THE OWNER'S REPRESENTATIVE PRIOR TO DELIVERY OF ANY PLANT MATERIALS TO THE PROJECT.
2. LANDSCAPE CONTRACTOR WILL SUBMIT A PLAN TO THE ARCHITECT AND THE OWNER'S REPRESENTATIVE FOR APPROVAL TO PREVENT IMPORTATION OF LITTLE FIRE ANT (LFA) ONTO THE PROPERTY, I.E. PROVIDE QUARANTINE OR A HOLDING AREA FOR 6 WEEKS BEFORE PLANT DELIVERY TO PROJECT SITE.
3. LANDSCAPE CONTRACTOR WILL BUY PLANTS OR PLANTING MATERIALS ONLY FROM FIRE ANT-FREE NURSERIES AND SUPPLIERS.
4. LANDSCAPE CONTRACTOR WILL TEST FOR LFA AND IDENTIFY THE SPECIES CORRECTLY. CONSULT WEBSITE: WWW.LITTLEFIREANTS.COM FOR TESTING METHODS AND SPECIES IDENTIFICATION.
5. LANDSCAPE CONTRACTOR WILL BAIT AND ALLOW AT LEAST 2 WEEKS FOR THE BAIT TO BE CARRIED BACK TO THE COLONY FOR ALL PLANTS AND NURSERY MATERIALS AT THE SUPPLYING NURSERIES REGARDLESS OF THE FIRE ANT-FREE CLAIM.
6. LANDSCAPE CONTRACTOR WILL APPLY A BARRIER TREATMENT, FOLLOWING THE BAITING, TO ALL NURSERY MATERIALS AT THE SUPPLYING NURSERIES REGARDLESS OF THE FIRE ANT-FREE CLAIM.
7. LANDSCAPE CONTRACTOR WILL DRENCH ALL SOILS OR LOOSE NURSERY MATERIALS WITH THE PROPER MIXTURE OF SEVIN PER GALLON OF WATER INDICATED BY THE MANUFACTURER AND FOLLOW MANUFACTURER'S SAFETY PRECAUTIONS.

PBR HAWAII
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REVISIONS

	Date	Description

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02/27/26

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TMK#: 4-6-014:113

FILENAME
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SHEET NAME
PLANTING NOTES

SCALE: AS SHOWN

DRAWN BY	CHECKED BY
PW/AF	MS
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PLANT SCHEDULE

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CAL	HEIGHT	TRUNK	REMARKS
TREES								
	4	BAUHINIA X BLAKEANA	HONG KONG ORCHID TREE	25 GAL.	1.5" - 2" CAL. MIN.	6` - 8` BROWN TRUNK HT.	STRAIGHT TRUNK	WELL BRANCHED, FULL CANOPY
	4	CORDIA SUBCORDATA	KOU	25 GAL.	1.5" - 2" CAL. MIN.	6` - 8` BROWN TRUNK HT.	STRAIGHT TRUNK	WELL BRANCHED, FULL CANOPY
	1	HIBISCUS TILIACEUS 'DWARF'	DWARF HAU	25 GAL.	1.5" - 2" CAL. MIN.	4` - 6` BROWN TRUNK HT.	STRAIGHT TRUNK	WELL BRANCHED, FULL CANOPY
	12	PLUMERIA OBTUSA	SINGAPORE WHITE PLUMERIA	45 GAL.	2" CAL. MIN.	10`-12` HT.	MULTI-TRUNK	WELL BRANCHED, FULL CANOPY
	3	SAPINDUS OAHUENSIS	LONOMEA	45 GAL.	2" CAL. MIN.	6` - 8` BROWN TRUNK HT.	STRAIGHT TRUNK	WELL BRANCHED, FULL CANOPY
	2	SAPINDUS SAPONARIA	MANELE	FIELD STOCK	2" CAL. MIN.	10`-12` BROWN TRUNK HT.	STRAIGHT TRUNK	WELL BRANCHED, FULL CANOPY
PALMS								
	9	WODYETIA BIFURCATA	FOXTAIL PALM	25 GAL.		6` - 8` BROWN TRUNK HT.	STRAIGHT TRUNK	CLEAN TRUNK

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
SHRUBS						
	25	ALOCASIA MACRORRHIZOS	APE	3 GAL.	AS SHOWN	MIN. 3 STEMS PER CONT., MIN. 12" HT.
	5	ASPLENIUM NIDUS	BIRDS NEST FERN	3 GAL.	AS SHOWN	FULL & BUSHY
	86	CORDYLINE FRUTICOSA	GREEN TI	3 GAL.	AS SHOWN	VARIOUS HTS. 3-4 FT
	34	CRINUM AUGUSTUM 'QUEEN EMMA'	'QUEEN EMMA' SPIDER LILY	3 GAL.	AS SHOWN	
	31	GARDENIA BRIGHAMII	NAU GARDENIA	1 GAL.	24" O.C.	FULL & BUSHY
	99	HIBISCUS WAIMEAE	KOKIOKEOKEO	3 GAL.	AS SHOWN	FULL & BUSHY
	213	PSEUDERANTHEMUM RETICULATUM	GOLDEN ERANTHEMUM	1 GAL.	24" O.C.	FULL & BUSHY
	236	SCAEVOLA SERICEA	NAUPAKA	3 GAL.	AS SHOWN	FULL & BUSHY
	16	SPATHIPHYLLUM WALLISII	PEACE LILY	3 GAL.	AS SHOWN	

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
GROUND COVERS						
	150 SF	DIANELLA TASMANICA 'VARIEGATA'	VARIEGATED DIANELLA	6" POT	12" O.C.	TRIANGULAR SPACING
	3,170 SF	MICROSORUM SCOLOPENDRIA 'DWARF'	DWARF LAUAE FERN	6" POT	12" O.C.	TRIANGULAR SPACING
	1,300 SF	PLUMBAGO ZEYLANICA	ILIEE	6" POT	12" O.C.	TRIANGULAR SPACING
	1,515 SF	SIDA FALLAX	ILIMA PAPA	6" POT	12" O.C.	TRIANGULAR SPACING
	6,930 SF	VITEX ROTUNDIFOLIA	POHINAHINA	4" POT	18" O.C.	TRIANGULAR SPACING
HYDRO-MULCH SEEDING						
	16,300 SF	ZOYSIA JAPONICA 'EL TORO'	'EL TORO' ZOYSIA GRASS	HYDROSPRIG		

REFERENCE NOTES SCHEDULE

DESCRIPTION	QTY
2" LAYER SOIL AMENDMENT	36,320 SF
4" LAYER IMPORTED TOP SOIL	450 CY
2" LAYER BLACK CINDER MULCH	115 CY
GRAVEL MAINTENANCE STRIP 2" LAYER WITH FILTER FABRIC BELOW	2,180 SF
ROOT BARRIER	580 LF
ILIILI STONE LAYER WITH FABRIC BELOW	655 SF
SYNTHETIC LAWN	1,600 SF
ALUMINUM HEADER	2,357 LF
MOSS ROCK LANDSCAPE BOULDERS, 36" - 48" DIA.	6 EA

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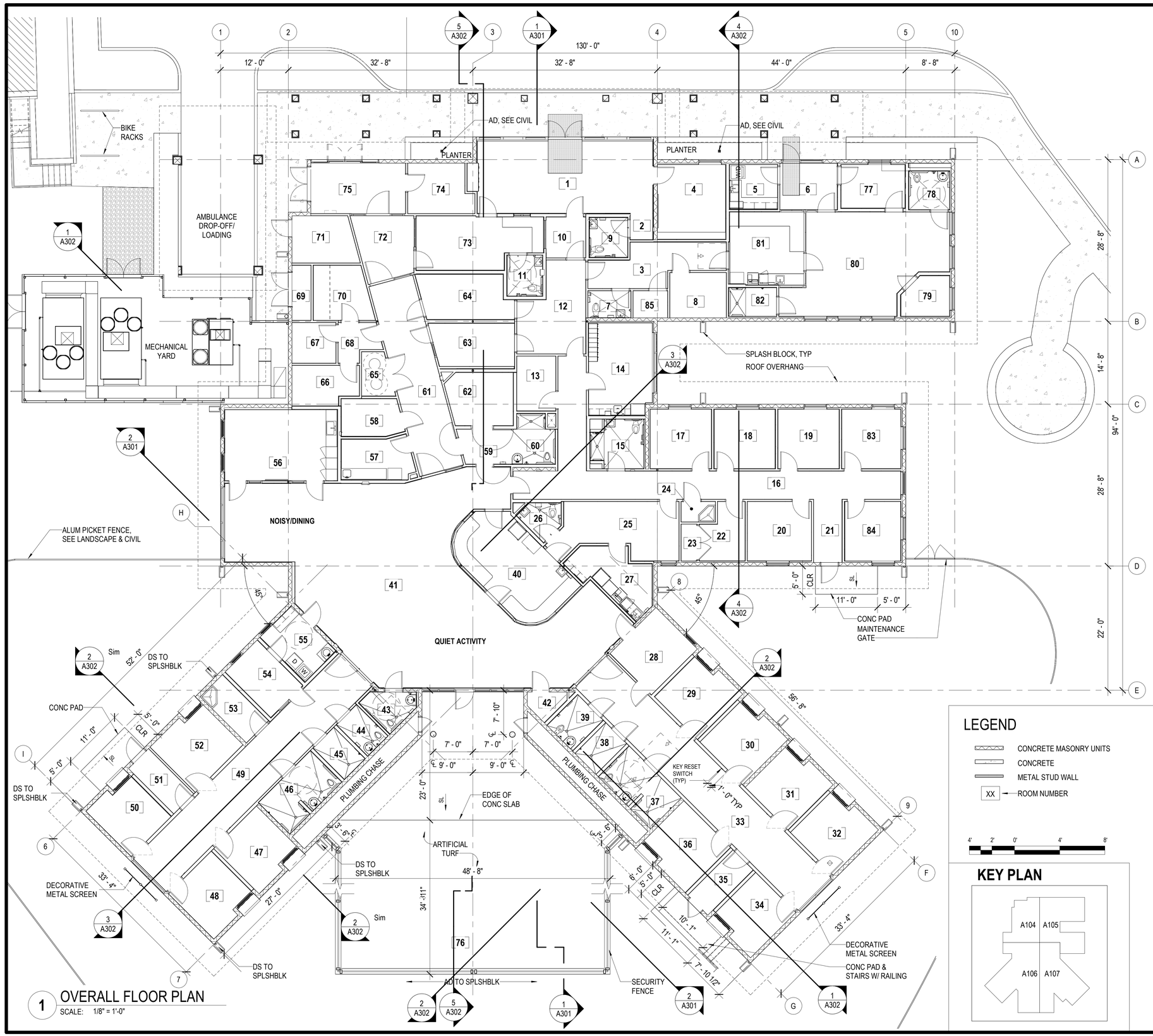
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1 OVERALL FLOOR PLAN
SCALE: 1/8" = 1'-0"

ROOM NO.	ROOM NAME
1	IP LOBBY
2	ALCOVE
3	STAFF CORRIDOR
4	CONFERENCE
5	CR PAT BELONG
6	CR LOBBY/ WAITING
7	STAFF TLT
8	DATA ROOM
9	TLT ADA
10	SALLYPORT
11	SECURITY TLT ADA
12	CORRIDOR
13	EQUIPMENT ROOM
14	BREAK ROOM
15	TLT & SHW
16	STAFF CORRIDOR
17	OFFICE (1)
18	OFFICE (1)
19	OFFICE (1)
20	SHARED OFFICE (2)
21	EXIT 3
22	COPIER WRKRM
23	ELEC PANEL
24	HSKP
25	CHART
26	TLT
27	MED RM
28	CONSULT
29	PATIENT ROOM 6
30	PATIENT ROOM 5
31	PATIENT ROOM 3
32	PATIENT ROOM 1
33	CORRIDOR
34	PATIENT ROOM 2
35	EXIT 1
36	PATIENT ROOM 4 (ADA)
37	TLT/SHWR ADA
38	SHW
39	TLT
40	NURSE STATION
41	DAYROOM
42	TEL
43	TLT ADA
44	TLT
45	SHW
46	TLT/SHWR ADA
47	PATIENT ROOM 7
48	PATIENT ROOM 9
49	CORRIDOR
50	PATIENT ROOM 10
51	EXIT 2
52	PATIENT ROOM 8 (ADA)
53	HSKP
54	QUIET
55	LAUNDRY
56	LARGE THERAPY/ CRAFT
57	NOURISH
58	CLEAN
59	ANTE
60	TLT & SHW
61	CORRIDOR
62	SECLUSION
63	VISIT/TELE
64	VISIT/INTAKE/DISCHARGE
65	HW
66	SOILED
67	TRASH
68	VESTIBULE
69	FIRE
70	IP PAT BELONG
71	ELEC
72	SALLYPORT
73	SECURITY
74	SECURITY/ ELECTRONICS
75	TRANSPORT LOBBY
76	SECURED YARD
77	CR INTAKE/CONSULT
78	CR PATIENT TOILET
79	CR QUIET ROOM
80	CR OBSERVATION
81	CR NURSE STATION
82	CR PATIENT SHOWER
83	OFFICE (1)
84	OFFICE (1)
85	STORAGE

LEGEND

- CONCRETE MASONRY UNITS
- CONCRETE
- METAL STUD WALL
- XX — ROOM NUMBER

4' 2' 0' 4' 8'

KEY PLAN

N
W NORTH E
S

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

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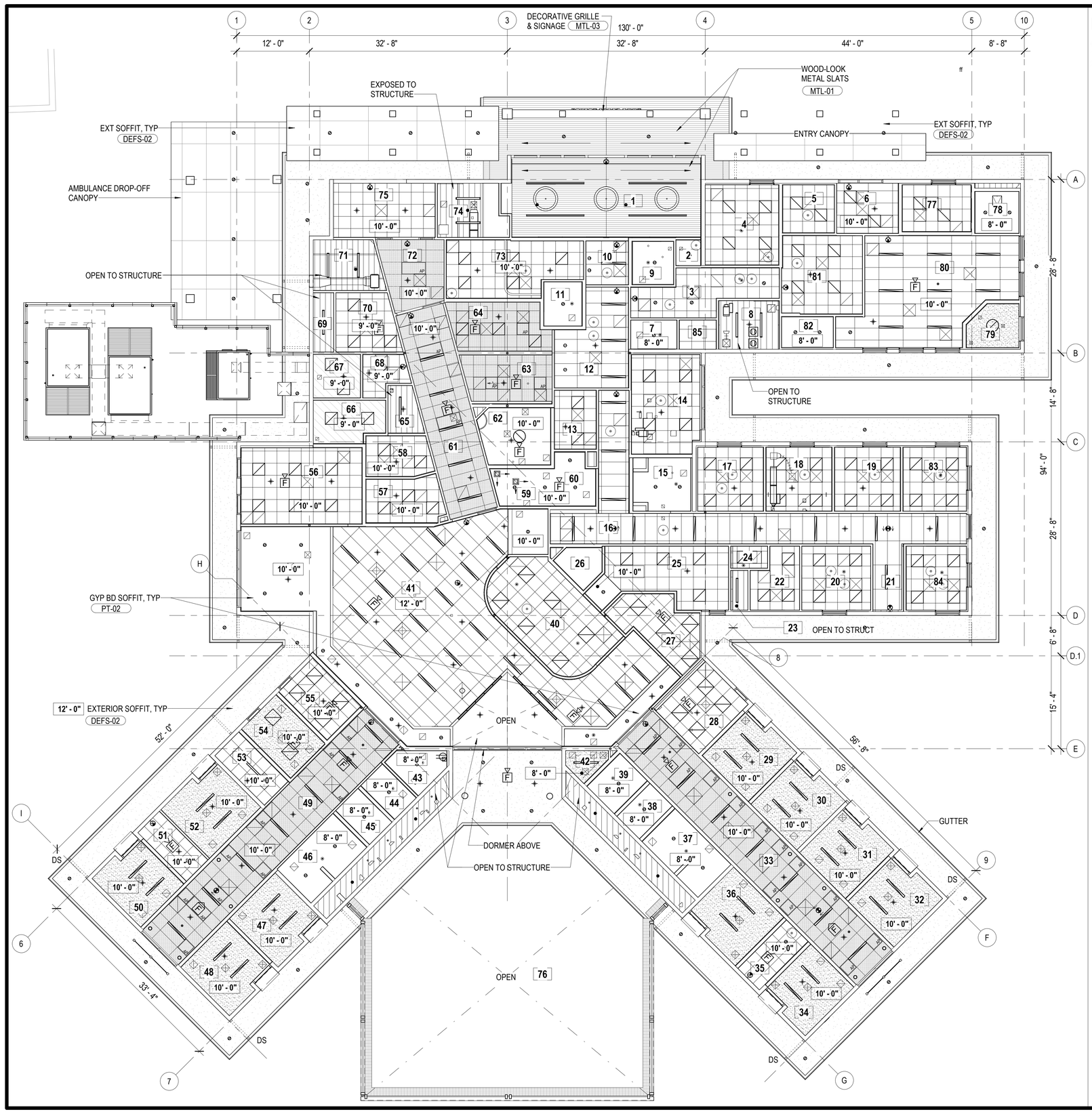
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SHEET NAME
OVERALL FLOOR PLAN

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

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Author	Checker
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LEGEND

GENERAL NOTE:
1. CEILING HEIGHT IS 9'-0" UON
2. SEE ELEC, FIRE AND MECH

- MT-01 WOOD LOOK CLADDING
- ACT-01 24" x 24" SUSPENDED
- ACT-02 24" x 48" SUSPENDED ACOUSTICAL TILES SECURED WITHIN PATIENT AREAS
- PT-02, PTD GYP BD, 1 LAYER
- 1" THICK ACOUSTICAL STUCCO ON GYP BD
- 1-HOUR FIRE RATED CEILING ASSEMBLY SEE DET 4/A907
- SUSPENDED SECURITY ACOUSTICAL CEILING
- EXTERIOR SOFFIT
- 4' x 8' EXTERIOR SOFFIT BOARD
- DECORATIVE PENDANT OCL LOOP 48
- 2' X 4' RECESSED LIGHT PANEL
- 2' X 2' RECESSED LIGHT PANEL
- 4" X 4' LINEAR RECESSED FIXTURE
- LINEAR PENDANT FIXTURE
- 60" DECORATIVE PENDANT FIXTURE
- RECESSED DOWNLIGHT
- FIRE SPRINKLER
- UPRIGHT FIRE SPRINKLER
- FIRE ALARM STROBE
- RETURN DIFFUSER
- SUPPLY DIFFUSER
- STROBE LIGHT
- CONCEALED VOLUME DAMPER
- CEILING ACCESS PANEL
- SECURITY CEILING ACCESS PANEL
- OCCUPANCY SENSOR

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6	CR LOBBY/ WAITING
7	STAFF TLT
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29	PATIENT ROOM 6
30	PATIENT ROOM 5
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47	PATIENT ROOM 7
48	PATIENT ROOM 9
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50	PATIENT ROOM 10
51	EXIT 2
52	PATIENT ROOM 8 (ADA)
53	HSKP
54	QUIET
55	LAUNDRY
56	LARGE THERAPY/ CRAFT
57	NOURISH
58	CLEAN
59	ANTE
60	TLT & SHW
61	CORRIDOR
62	SECLUSION
63	VISIT/TELE
64	VISIT/INTAKE/DISCHARGE
65	HW
66	SOILED
67	TRASH
68	VESTIBULE
69	FIRE
70	IP PAT BELONG
71	ELEC
72	SALLYPORT
73	SECURITY
74	SECURITY/ ELECTRONICS
75	TRANSPORT LOBBY
76	SECURED YARD
77	CR INTAKE/CONSULT
78	CR PATIENT TOILET
79	CR QUIET ROOM
80	CR OBSERVATION
81	CR NURSE STATION
82	CR PATIENT SHOWER
83	OFFICE (1)
84	OFFICE (1)
85	STORAGE

N W NORTH E S

8' 4' 0' 8' 16'

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

#	Date	Description

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
OVERALL REFLECTED CEILING PLAN

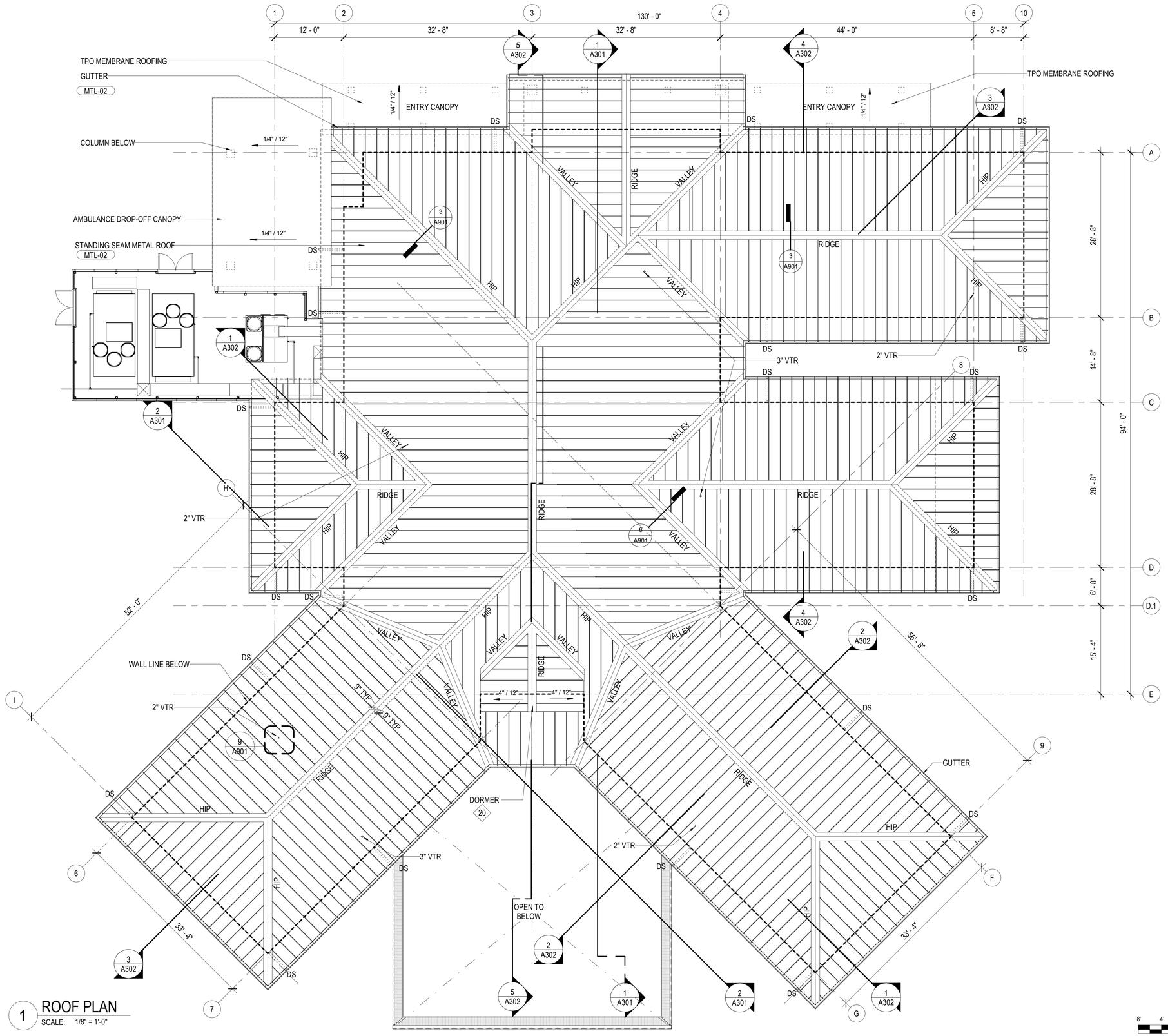
SCALE: 1/8" = 1'-0"

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Author	Checker

PROJECT NO.	SHEET NO.
221093-01	A102

SHEET ISSUE DATE
08/08/2025

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

G70

111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

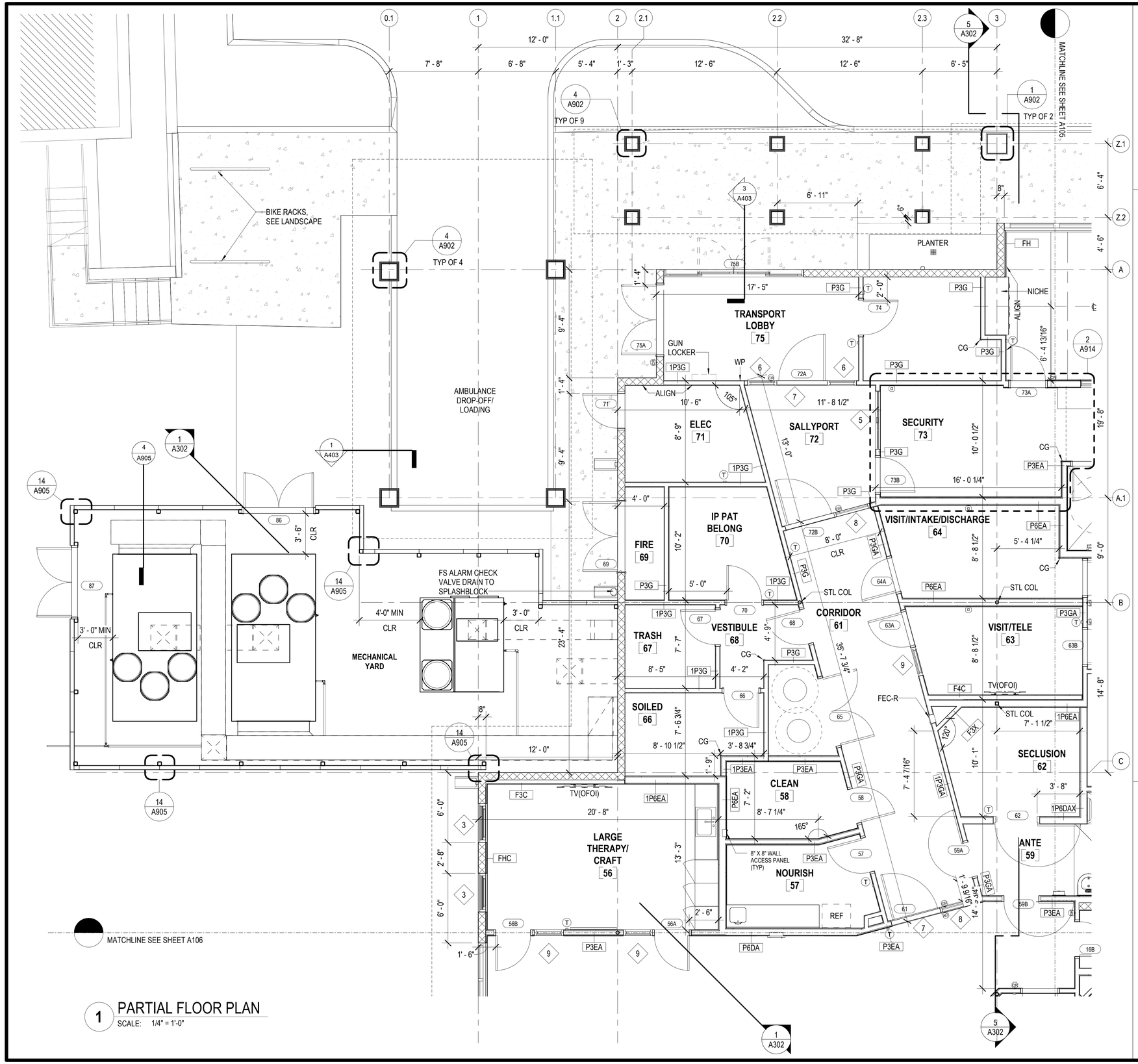
SHEET NAME
OVERALL ROOF PLAN

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

DRAWN BY	CHECKED BY
Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A103
SHEET ISSUE DATE	
08/08/2025	

Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

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

LEGEND

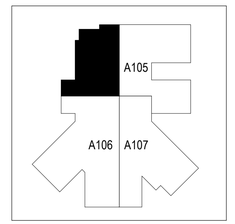
- CONCRETE MASONRY UNITS
- CONCRETE
- METAL STUD WALL
- XX — ROOM NUMBER, SEE SCHED A622
- XX — DOOR TYPE, SEE A701
- XX — WINDOW TYPE, SEE A801
- XXX — PARTITION TYPE, SEE A601

NOTES:
1. STL COL SEE STRUCT, LOCATE CENTER OF PARTITON.

GENERAL NOTES:

1. SEE OVERALL FLOOR PLAN
2. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION
3. SEE ENLARGED PLANS OF RESTROOMS AND ROOMS WITH BUILT-IN CASEWORK

KEY PLAN





4' 2' 0' 4' 8'

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

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TMK#: 4-6-014:113

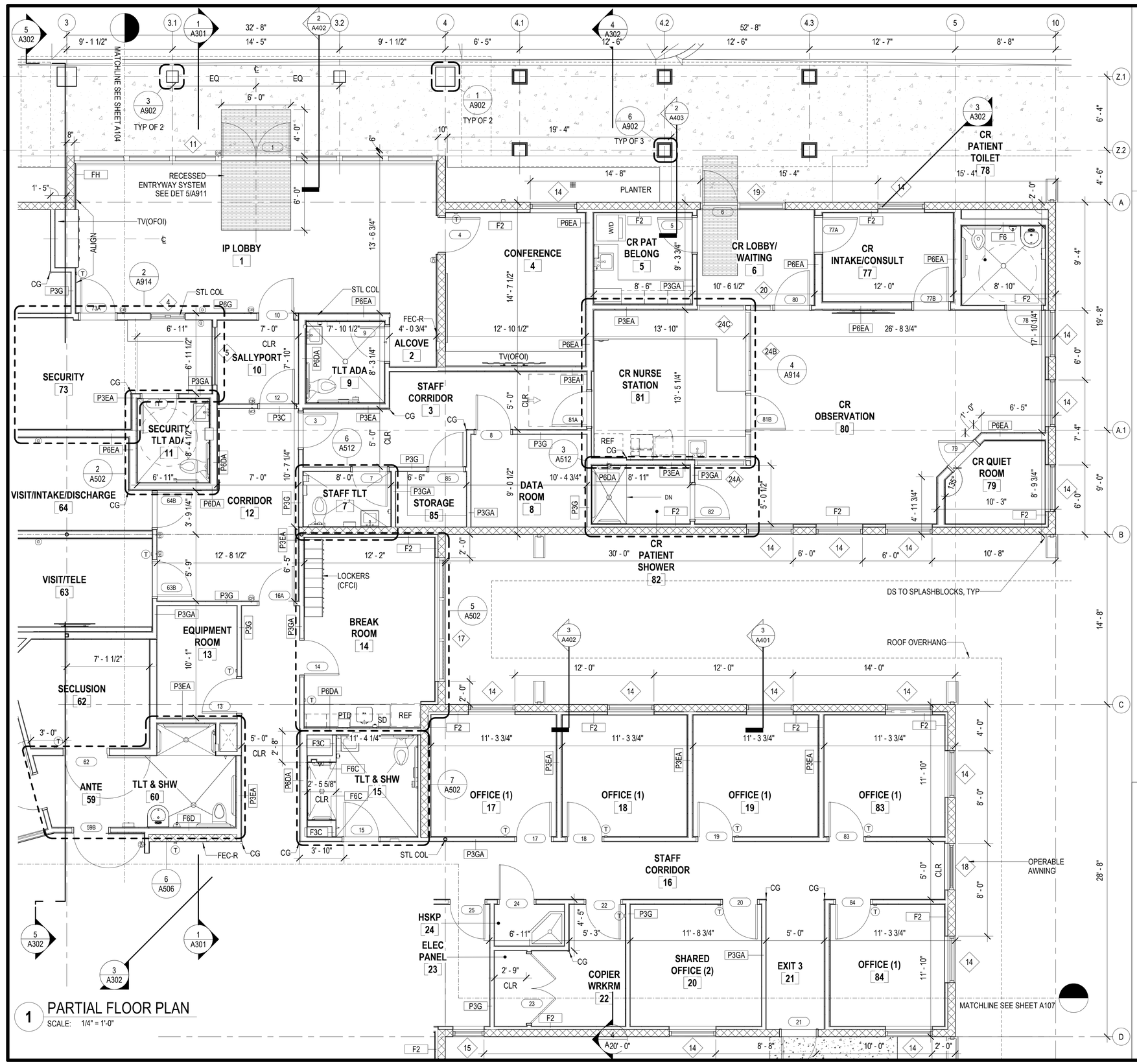
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
PARTIAL FLOOR PLAN

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

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A104
SHEET ISSUE DATE	
08/01/25	

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

LEGEND

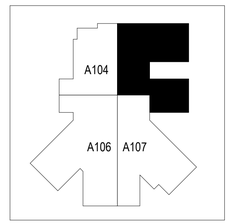
- CONCRETE MASONRY UNITS
- CONCRETE
- METAL STUD WALL
- XX — ROOM NUMBER, SEE SCHED A622
- XX — DOOR TYPE, SEE A701
- XX — WINDOW TYPE, SEE A801
- XXX — PARTITION TYPE, SEE A601

SEE SHEET A104 FOR TYP NOTES

GENERAL NOTES:

1. SEE OVERALL FLOOR PLAN
2. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION
3. SEE ENLARGED PLANS OF RESTROOMS AND ROOMS WITH BUILT-IN CASEWORK

KEY PLAN



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111 S. KING STREET, SUITE 170
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808.523.5866
WWW.G70.DESIGN

REVISIONS

#	Date	Description

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SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
PARTIAL FLOOR PLAN

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

DRAWN BY	CHECKED BY
Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A105
SHEET ISSUE DATE	
08/01/25	

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MATCHLINE SEE SHEET A104

MATCHLINE SEE SHEET A107

ALUM PICKET FENCE, SEE LANDSCAPE & CIVIL

DS TO SPLASH BLOCKS, TYP

ROOF OVERHANG

CONC PAD

DECORATIVE METAL SCREEN

SECURITY FENCE

EDGE OF CONC SLAB

ARTIFICIAL TURF

BOTTLE FILLER

8" X 8" WALL ACCESS PANEL (TYP)

SEE SHEET A107 FOR BALANCE OF NOTES

CONC COLUMNS, SEE STRUCT

TYP OF 2

DAYROOM 41

NURSE STATION 40

TLT 26

CHART 25

MED RM 27

LAUNDRY 55

QUIET 54

HSKP 53

PATIENT ROOM 8 (ADA) 52

EXIT 2 51

PATIENT ROOM 10 50

CORRIDOR 49

PATIENT ROOM 7 47

PATIENT ROOM 9 48

TLT/SHWR ADA 46

SHW 45

TLT 44

TLT ADA 43

SECURED YARD 76

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

GENERAL NOTES:

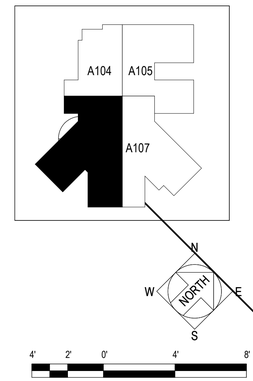
1. SEE OVERALL FLOOR PLAN
2. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION
3. SEE ENLARGED PLANS OF RESTROOMS AND ROOMS WITH BUILT-IN CASEWORK

LEGEND

- CONCRETE MASONRY UNITS
- CONCRETE
- METAL STUD WALL
- XX — ROOM NUMBER, SEE SCHED A622
- XX — DOOR TYPE, SEE A701
- XX — WINDOW TYPE, SEE A801
- XXX — PARTITION TYPE, SEE A601

SEE SHEET A104 FOR TYP NOTES

KEY PLAN



G70

111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
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REVISIONS

#	Date	Description

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

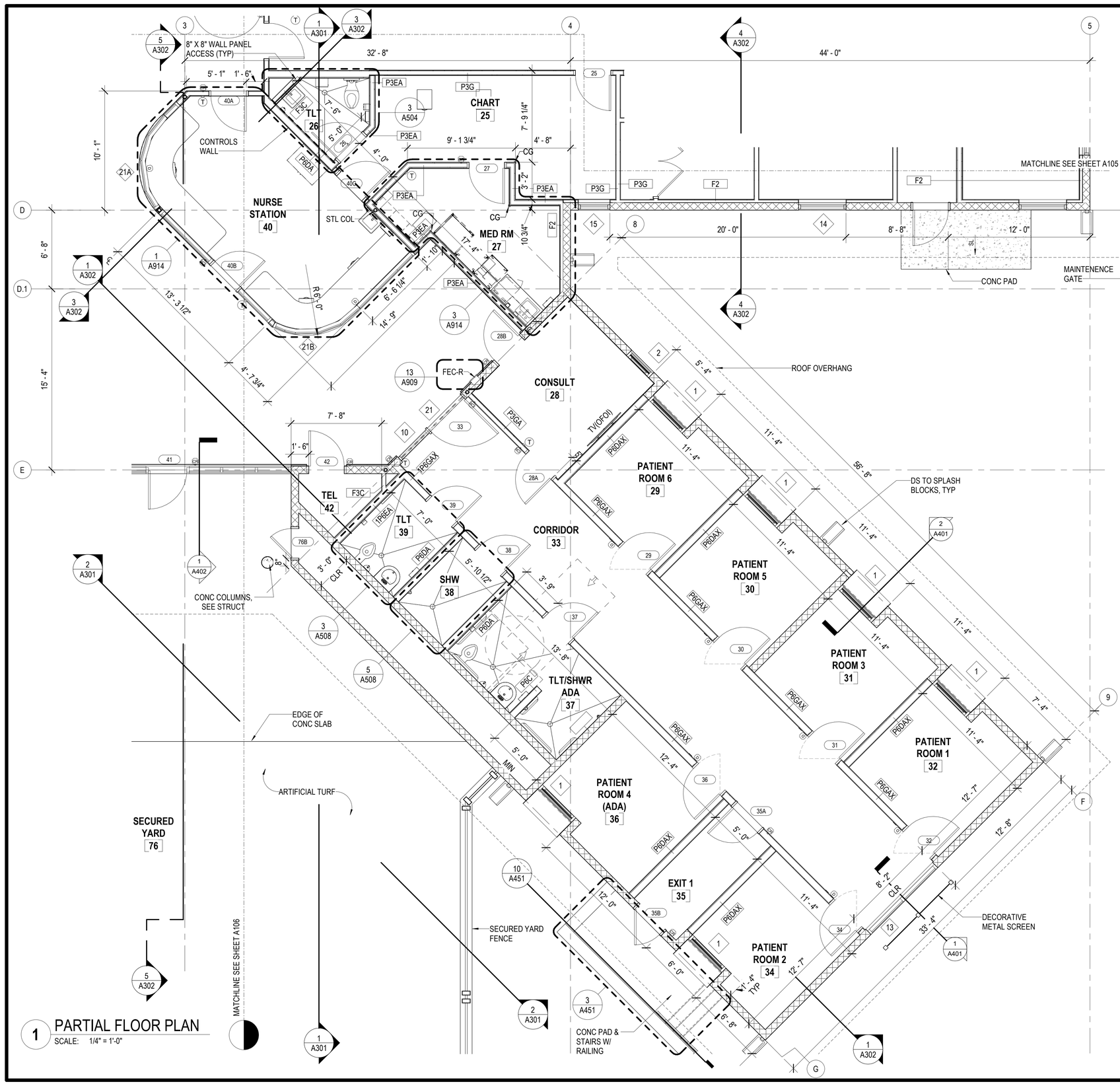
SHEET NAME
PARTIAL FLOOR PLAN

SCALE: As indicated

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A106
SHEET ISSUE DATE	
06/01/25	

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

LEGEND

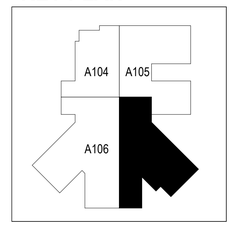
- CONCRETE MASONRY UNITS
- CONCRETE
- METAL STUD WALL
- XX — ROOM NUMBER, SEE SCHED A622
- XX — DOOR TYPE, SEE A701
- XX — WINDOW TYPE, SEE A801
- XXX — PARTITION TYPE, SEE A601

SEE SHEET A104 FOR TYP NOTES

GENERAL NOTES:

1. SEE OVERALL FLOOR PLAN
2. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION
3. SEE ENLARGED PLANS OF RESTROOMS AND ROOMS WITH BUILT-IN CASEWORK

KEY PLAN



G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

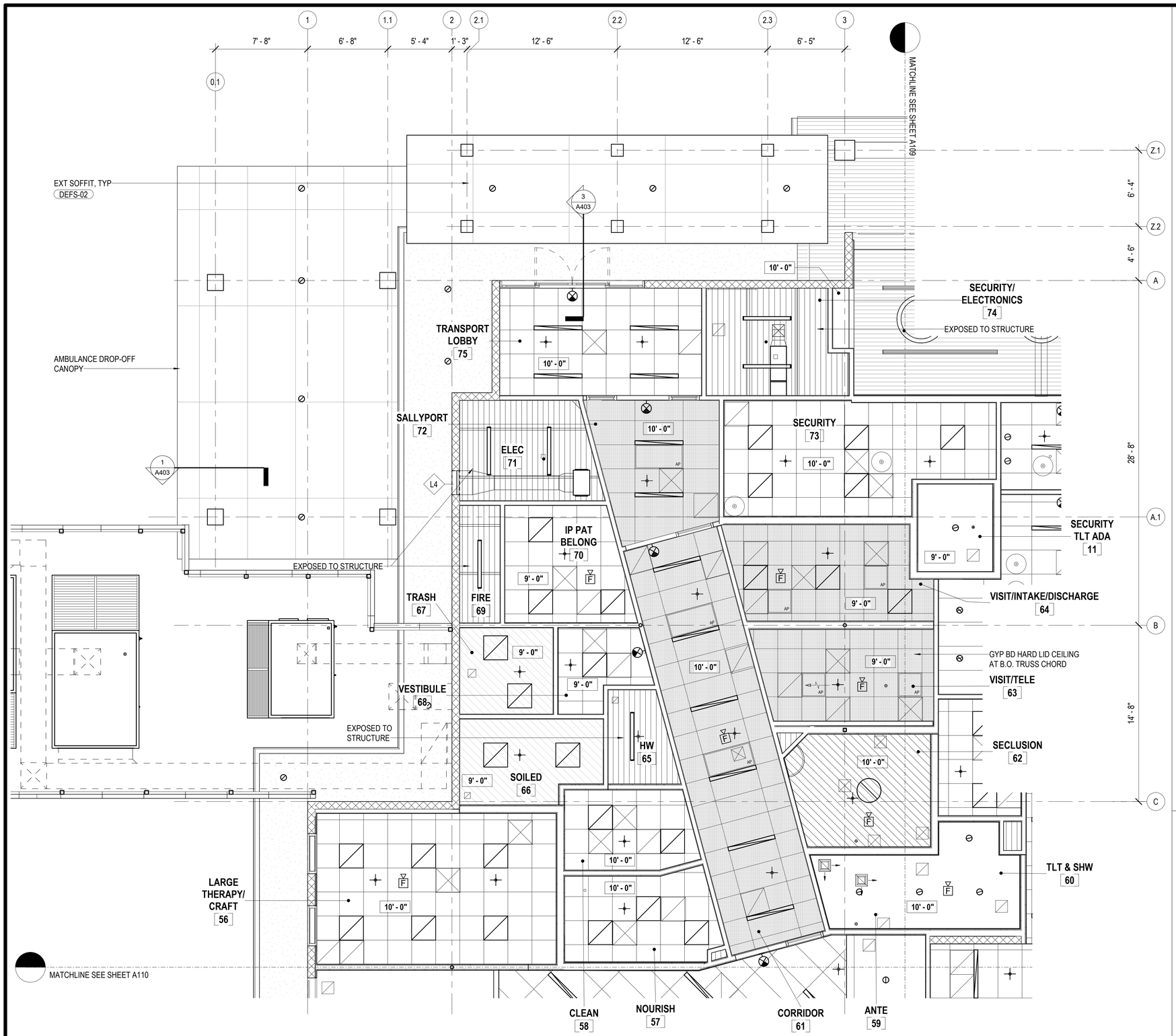
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
PARTIAL FLOOR PLAN

SCALE: As indicated

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A107
SHEET ISSUE DATE	
07/31/25	

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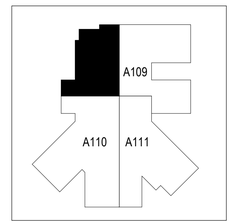
1 PARTIAL REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

LEGEND

GENERAL NOTE:
1. CEILING HEIGHT IS 9'-0" UON
2. SEE ELEC, FIRE AND MECH

- MT-01 WOOD LOOK CLADDING
- ACT-01 24" x 24" SUSPENDED
- ACT-02 24" x 48" SUSPENDED ACOUSTICAL TILES SECURED WITHIN PATIENT AREAS
- PT-02, PTD GYP BD, 1 LAYER
- 1" THICK ACOUSTICAL STUCCO ON GYP BD
- 1-HOUR FIRE RATED CEILING ASSEMBLY SEE DET 4/A907
- SUSPENDED SECURITY ACOUSTICAL CEILING
- EXTERIOR SOFFIT
- 4' x 8' EXTERIOR SOFFIT BOARD
- DECORATIVE PENDANT OCL LOOP 48
- 2' X 4' RECESSED LIGHT PANEL
- 2' X 2' RECESSED LIGHT PANEL
- 4" X 4' LINEAR RECESSED FIXTURE
- LINEAR PENDANT FIXTURE
- 60" DECORATIVE PENDANT FIXTURE
- RECESSED DOWNLIGHT
- FIRE SPRINKLER
- UPRIGHT FIRE SPRINKLER
- FIRE ALARM STROBE
- RETURN DIFFUSER
- SUPPLY DIFFUSER
- STROBE LIGHT
- CONCEALED VOLUME DAMPER
- CEILING ACCESS PANEL
- SECURITY CEILING ACCESS PANEL
- OCCUPANCY SENSOR

KEY PLAN





4' 2' 0' 4' 8'

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

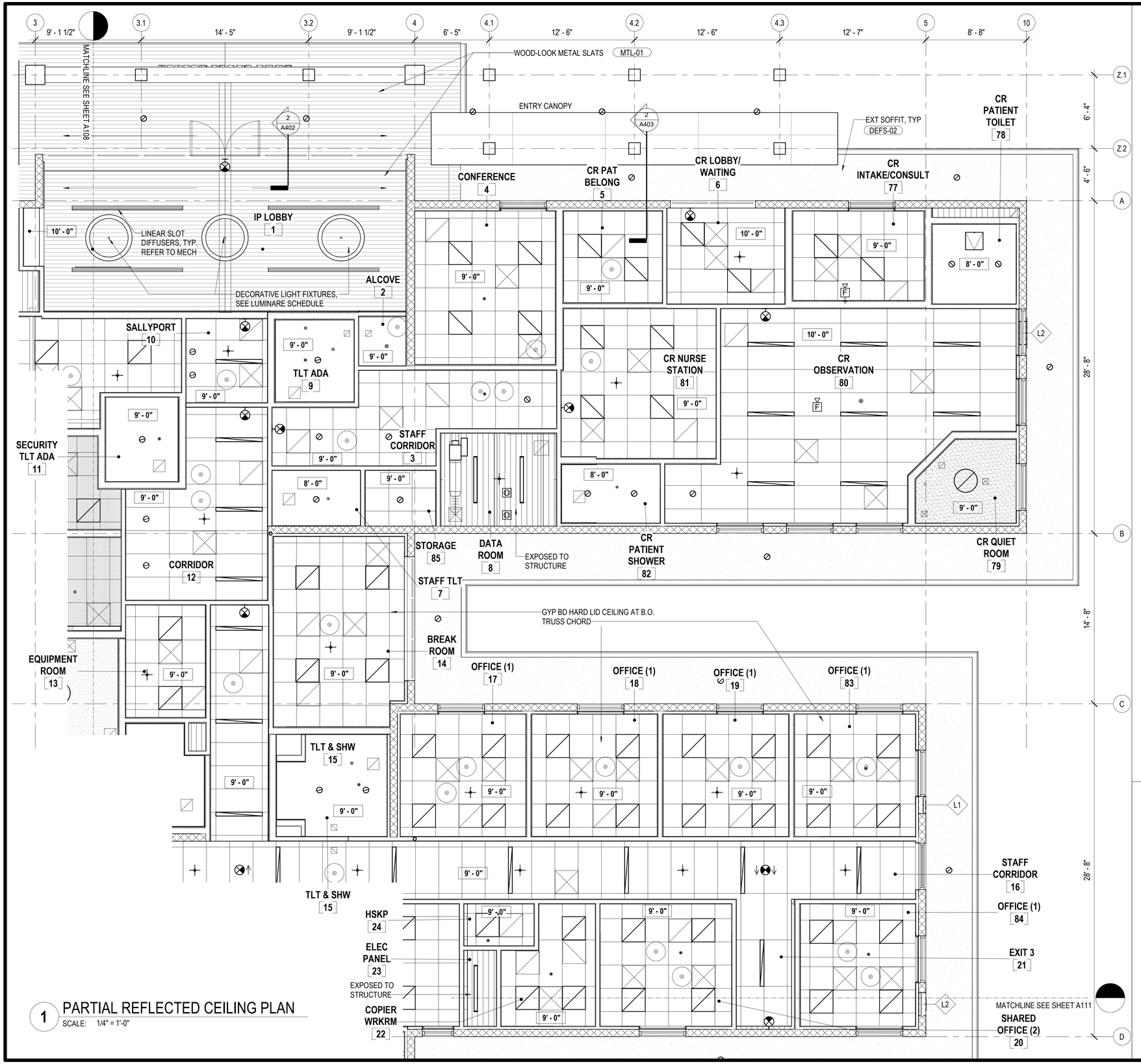
FILENAME
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SHEET NAME
PARTIAL REFLECTED CEILING PLAN

SCALE: As indicated

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PROJECT NO.	SHEET NO.
221093-01	A108
SHEET ISSUE DATE	
08/01/25	

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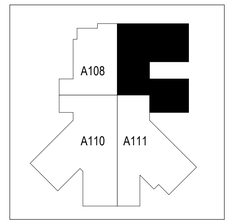
1 PARTIAL REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

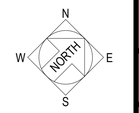
LEGEND

GENERAL NOTE:
1. CEILING HEIGHT IS 9'-0" UON
2. SEE ELEC, FIRE AND MECH

- MT-01 WOOD LOOK CLADDING
- ACT-01 24" x 24" SUSPENDED
- ACT-02 24" x 48" SUSPENDED ACOUSTICAL TILES SECURED WITHIN PATIENT AREAS
- PT-02, PTD GYP BD, 1 LAYER
- 1" THICK ACOUSTICAL STUCCO ON GYP BD
- 1-HOUR FIRE RATED CEILING ASSEMBLY SEE DET 4/A907
- SUSPENDED SECURITY ACOUSTICAL CEILING
- EXTERIOR SOFFIT
- 4' x 8' EXTERIOR SOFFIT BOARD
- DECORATIVE PENDANT OCL LOOP 48
- 2' X 4' RECESSED LIGHT PANEL
- 2' X 2' RECESSED LIGHT PANEL
- 4" X 4' LINEAR RECESSED FIXTURE
- LINEAR PENDANT FIXTURE
- 60" DECORATIVE PENDANT FIXTURE
- RECESSED DOWNLIGHT
- FIRE SPRINKLER
- UPRIGHT FIRE SPRINKLER
- FIRE ALARM STROBE
- RETURN DIFFUSER
- SUPPLY DIFFUSER
- STROBE LIGHT
- CONCEALED VOLUME DAMPER
- CEILING ACCESS PANEL
- SECURITY CEILING ACCESS PANEL
- OCCUPANCY SENSOR

KEY PLAN





4' 2' 0' 4' 8'

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

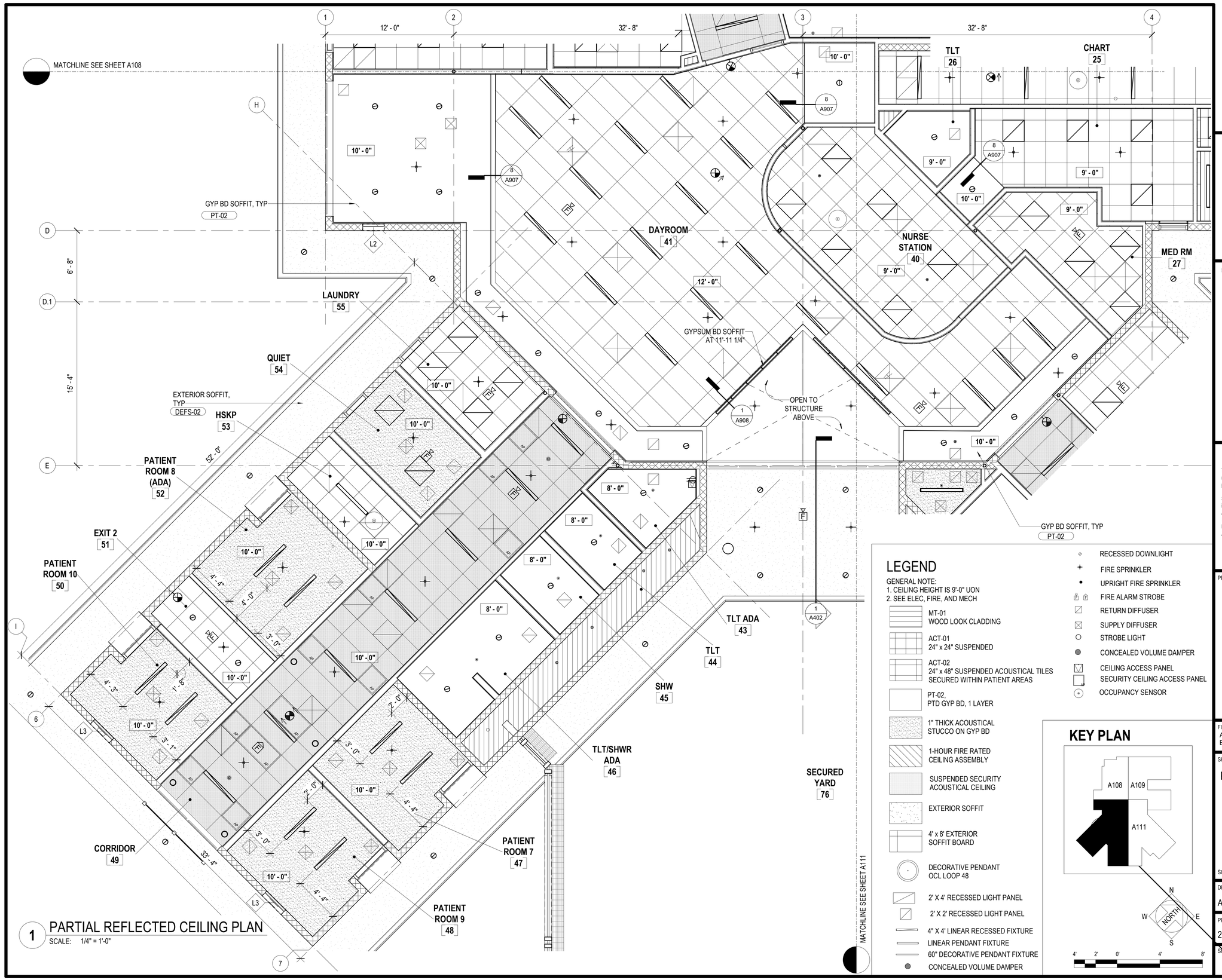
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
PARTIAL REFLECTED CEILING PLAN

SCALE: As indicated

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PROJECT NO.	SHEET NO.
221093-01	A109
SHEET ISSUE DATE	
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3/8/2026 2:44:43 PM



1 PARTIAL REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

LEGEND

GENERAL NOTE:
1. CEILING HEIGHT IS 9'-0" UON
2. SEE ELEC, FIRE, AND MECH

- MT-01 WOOD LOOK CLADDING
- ACT-01 24" x 24" SUSPENDED
- ACT-02 24" x 48" SUSPENDED ACOUSTICAL TILES SECURED WITHIN PATIENT AREAS
- PT-02, PTD GYP BD, 1 LAYER
- 1" THICK ACOUSTICAL STUCCO ON GYP BD
- 1-HOUR FIRE RATED CEILING ASSEMBLY
- SUSPENDED SECURITY ACOUSTICAL CEILING
- EXTERIOR SOFFIT
- 4' x 8' EXTERIOR SOFFIT BOARD
- DECORATIVE PENDANT OCL LOOP 48
- 2' X 4' RECESSED LIGHT PANEL
- 2' X 2' RECESSED LIGHT PANEL
- 4" X 4' LINEAR RECESSED FIXTURE
- LINEAR PENDANT FIXTURE
- 60" DECORATIVE PENDANT FIXTURE
- CONCEALED VOLUME DAMPER
- RECESSED DOWNLIGHT
- FIRE SPRINKLER
- UPRIGHT FIRE SPRINKLER
- FIRE ALARM STROBE
- RETURN DIFFUSER
- SUPPLY DIFFUSER
- STROBE LIGHT
- CONCEALED VOLUME DAMPER
- CEILING ACCESS PANEL
- SECURITY CEILING ACCESS PANEL
- OCCUPANCY SENSOR

KEY PLAN

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

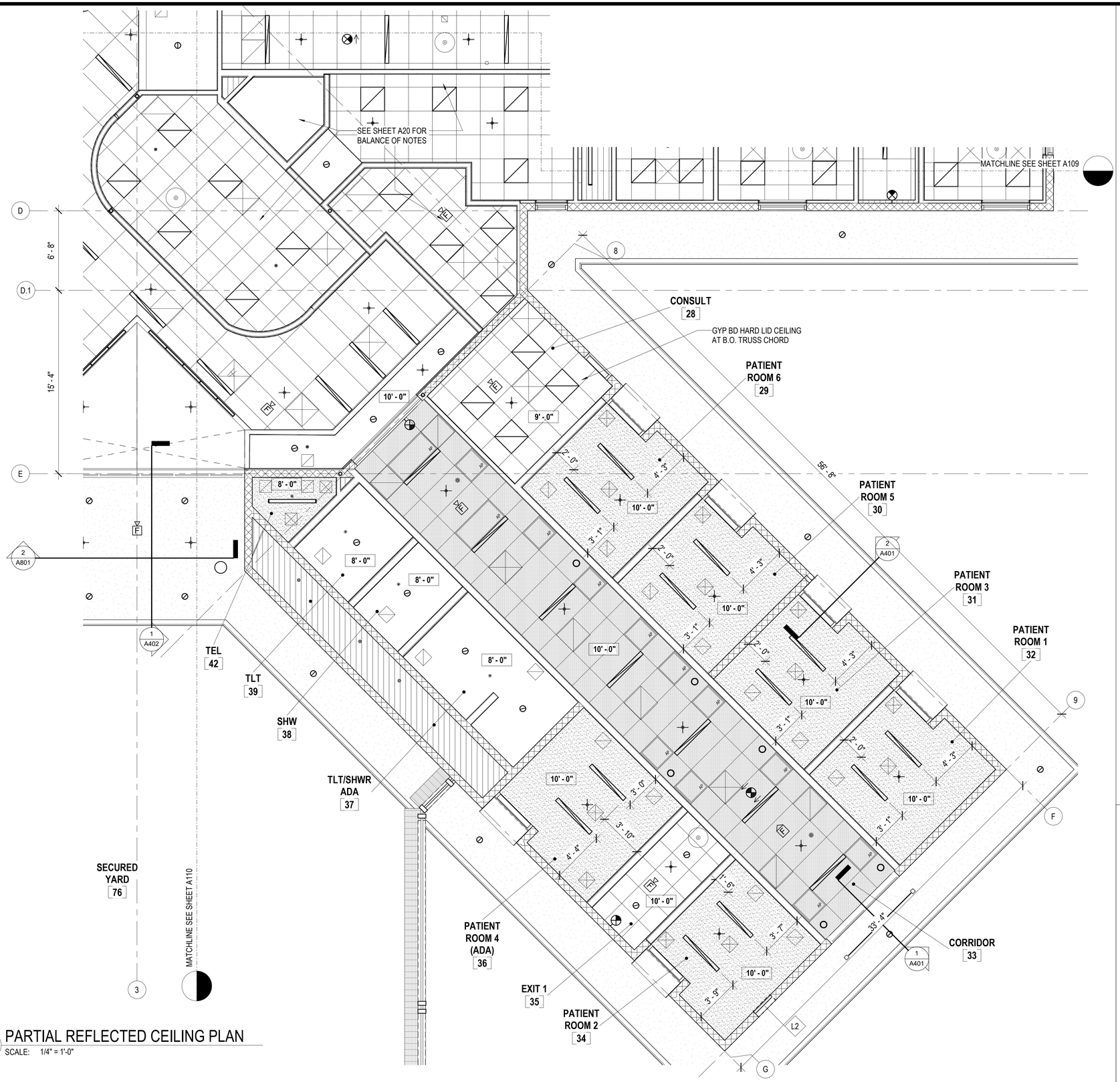
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
PARTIAL REFLECTED CEILING PLAN

SCALE: As indicated

DRAWN BY	CHECKED BY
Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A110
SHEET ISSUE DATE	
08/01/25	

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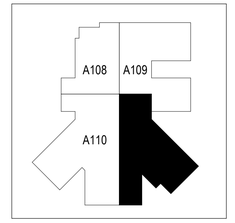
1 PARTIAL REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

LEGEND

GENERAL NOTE:
1. CEILING HEIGHT IS 9'-0" UON
2. SEE ELEC, FIRE AND MECH

- MT-01 WOOD LOOK CLADDING
- ACT-01 24" x 24" SUSPENDED
- ACT-02 24" x 48" SUSPENDED ACOUSTICAL TILES SECURED WITHIN PATIENT AREAS
- PT-02, PTD GYP BD, 1 LAYER
- 1" THICK ACOUSTICAL STUCCO ON GYP BD
- 1-HOUR FIRE RATED CEILING ASSEMBLY SEE DET 4/A907
- SUSPENDED SECURITY ACOUSTICAL CEILING
- EXTERIOR SOFFIT
- 4' x 8' EXTERIOR SOFFIT BOARD
- DECORATIVE PENDANT OCL LOOP 48
- 2' X 4' RECESSED LIGHT PANEL
- 2' X 2' RECESSED LIGHT PANEL
- 4" X 4' LINEAR RECESSED FIXTURE
- LINEAR PENDANT FIXTURE
- 60" DECORATIVE PENDANT FIXTURE
- RECESSED DOWNLIGHT
- FIRE SPRINKLER
- UPRIGHT FIRE SPRINKLER
- FIRE ALARM STROBE
- RETURN DIFFUSER
- SUPPLY DIFFUSER
- STROBE LIGHT
- CONCEALED VOLUME DAMPER
- CEILING ACCESS PANEL
- SECURITY CEILING ACCESS PANEL
- OCCUPANCY SENSOR

KEY PLAN





4' 2' 0' 4' 8'

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#	Date	Description

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

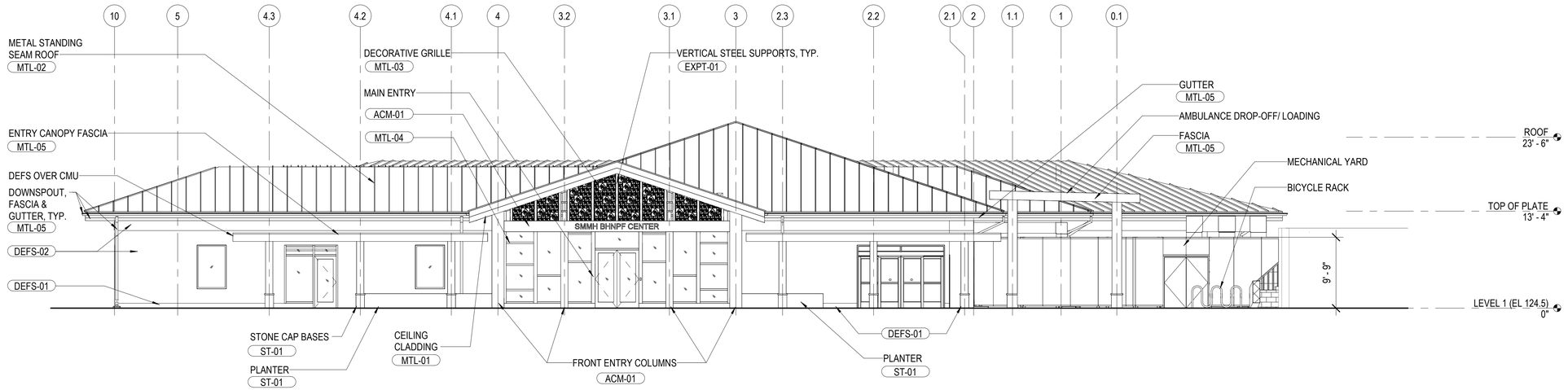
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SHEET NAME
PARTIAL REFLECTED CEILING PLAN

SCALE: As indicated

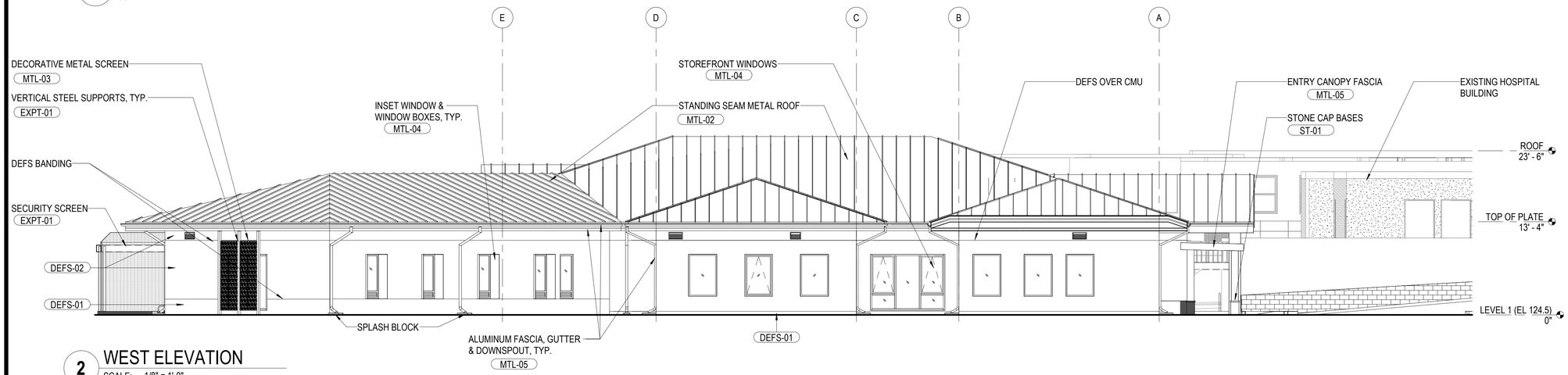
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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A111
SHEET ISSUE DATE	
08/01/25	

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1 SOUTH ELEVATION

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



2 WEST ELEVATION

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

EXTERIOR FINISH SCHEDULE

FINISH TAG	MATERIAL DESCRIPTION	MANUFACTURER	MATERIAL NAME	MATERIAL SIZE	MATERIAL FINISH	NO/COLOR	LOCATION USED/REMARKS
ACM-01	ALUMINUM COMPOSITE PANEL	AL13	AL13 PANEL SYSTEM	--	-	TIRANO WALNUT	FRONT ENTRY COLUMNS, FRONT ENTRY BEAM
DEFS-01	FINISH COAT ON DEFS	STO CORP	CLASSIC COLOR COLLECTION	-	-	OATMEAL 20905	BUILDING EXTERIOR BASE
DEFS-02	FINISH COAT ON DEFS	STO CORP	CLASSIC COLOR COLLECTION	-	-	FRENCH VANILLA 10609	BUILDING EXTERIOR WALL BODY PAINT, EXTERIOR SOFFIT
EXPT-01	EXTERIOR PAINT ON STEEL	SHERWIN WILLIAMS	SEE SPEC	--	SEMI-GLOSS	QUIVER TAN #6151	PARASOLEIL SCREEN STEEL SUPPORTS; DOWNSPOUTS, GUTTERS & FASCIA; SECURITY FENCE; EXT HM DOORS & FRAMES
MTL-01	WOOD-LOOK METAL CEILING	ARMSTRONG	METALWORKS LINEAR SYNCHRO	SEE RCP	M1 - UNPERFORATED	EFFECTS CHERRY EXTERIOR FXCH2	EXTERIOR SUSPENDED CEILING AT ENTRY & LOBBY
MTL-02	PVDF-COATED ALUMINUM ROOFING	PAC-CLAD PETERSEN	SNAP-CLAD	SEE SPEC	SEE SPEC	SLATE GRAY 614374	STANDING SEAM METAL ROOFING
MTL-03	DECORATIVE GRILLES	PARASOLEIL	--	SEE SPEC	SEE SPEC	LIBERTY VERDIGRIS	PARASOLEIL DECORATIVE SCREENS
MTL-04	PVDF-COATED ALUMINUM	SHERWIN WILLIAMS	FLUROPON	SEE SPEC	SEE SPEC	COLOR MATCH TO ARCADIA ANODIZED CHAMPAGNE AB-2	ALL EXTERIOR ALUMINUM WINDOWS & DOORS, WINDOW BOXES
MTL-05	PVDF-COATED ALUMINUM	SHERWIN WILLIAMS	FLUROPON	SEE SPEC	SEE SPEC	QUIVER TAN #6151	DOWNSPOUTS, GUTTERS & FASCIA
ST-01	STONE	BIG ROCK HAWAII	MOSS ROCK VENEER	--	STAINED	--	PLANTER/ ROCK WALL/ EXTERIOR COLUMNS

8' 4' 0' 8' 16'

G70

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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SHEET NAME
EXTERIOR ELEVATIONS

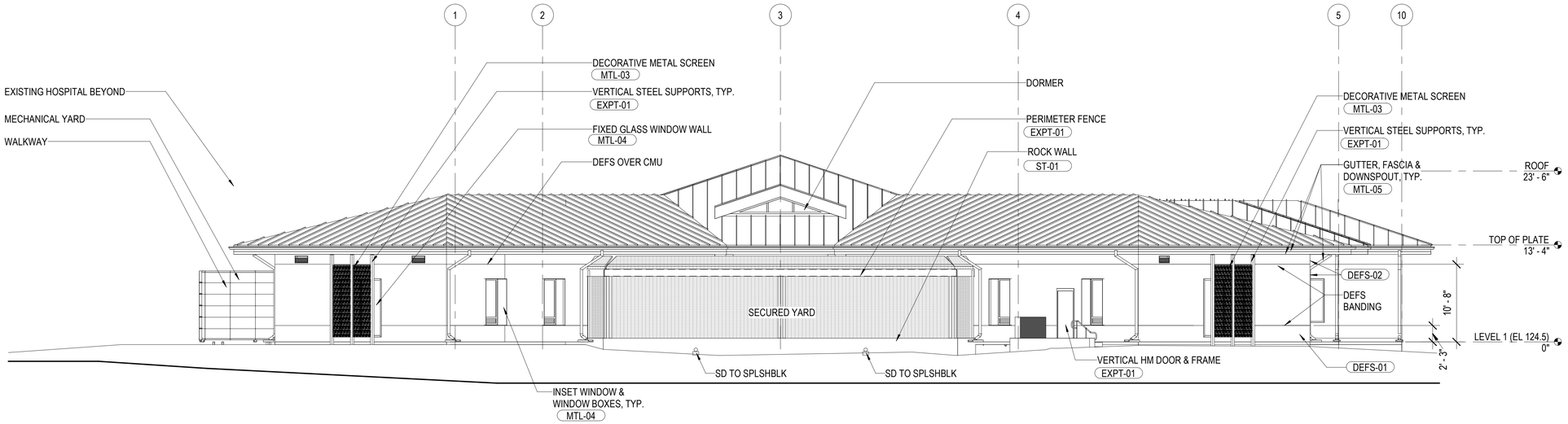
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Author	Checker

PROJECT NO.	SHEET NO.
221093-01	A201

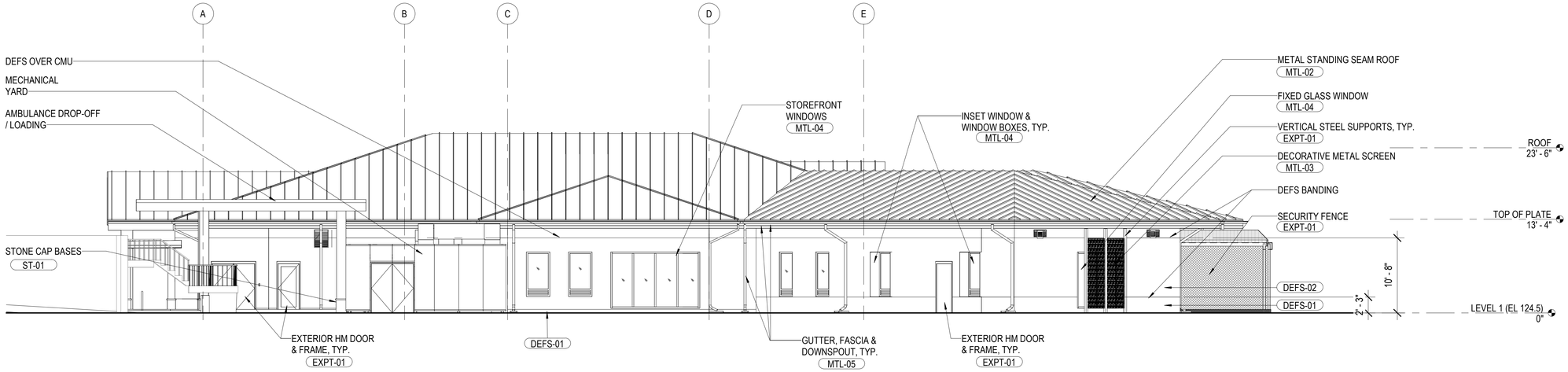
SHEET ISSUE DATE
08/08/2025

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3/8/2026 2:45:04 PM



1 NORTH ELEVATION

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



2 EAST ELEVATION

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

8' 4' 0' 8' 16'

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TMK#: 4-6-014:113

FILENAME
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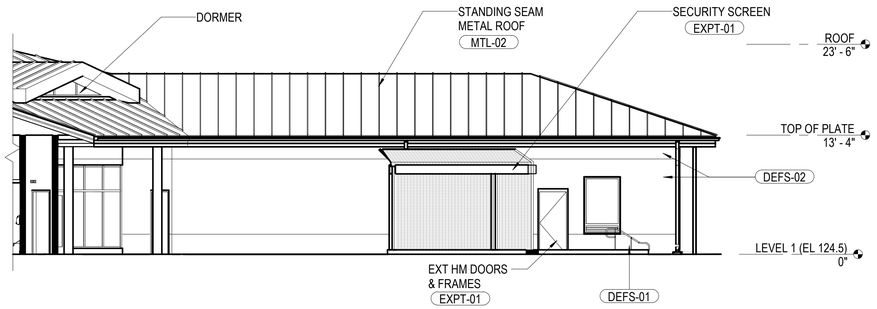
SHEET NAME
EXTERIOR ELEVATIONS

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

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A202
SHEET ISSUE DATE	
08/08/2025	

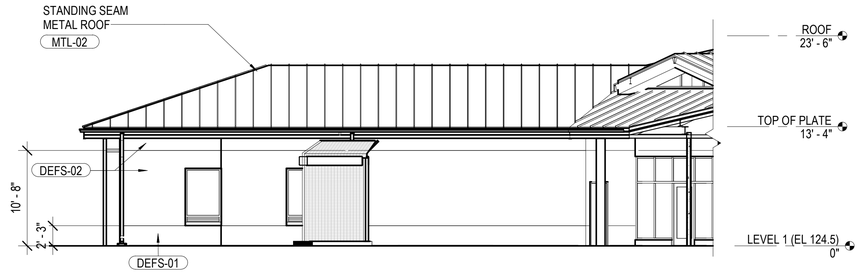
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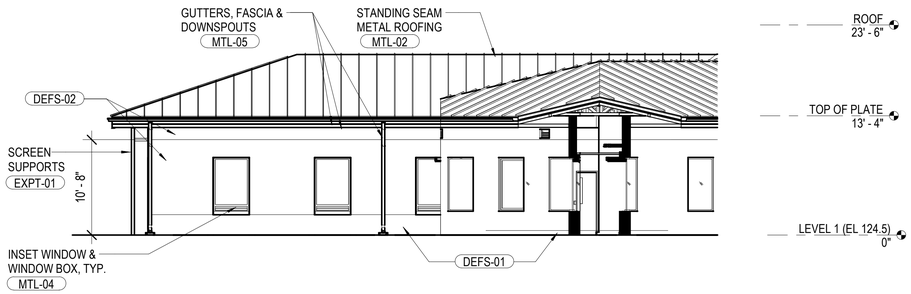
1 NORTHWEST ELEVATION AT SECURED YARD

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



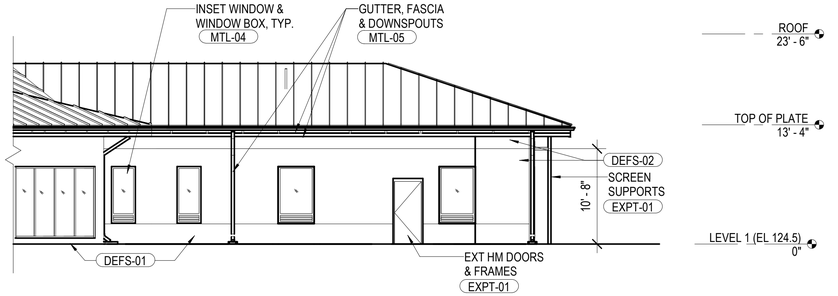
2 NORTHEAST ELEVATION AT SECURED YARD

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



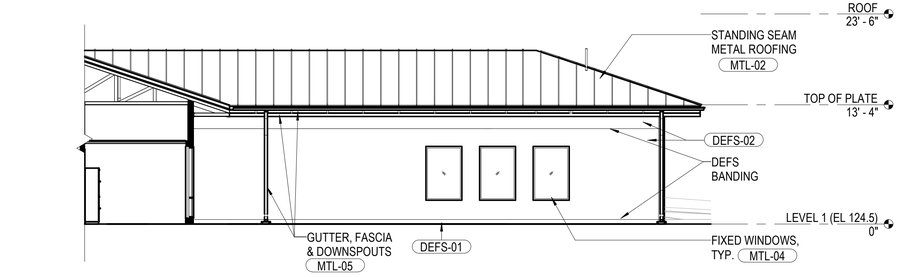
3 SOUTHWEST ELEVATION AT PATIENT WING

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



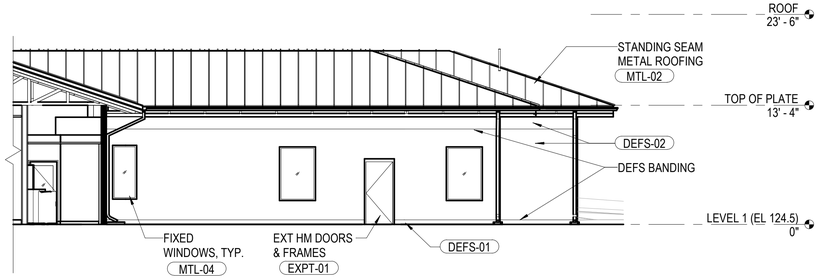
4 SOUTHEAST ELEVATION AT PATIENT WING

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



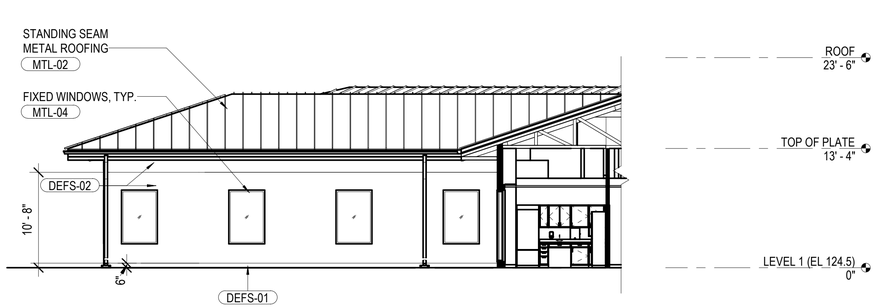
5 NORTH ELEVATION OF OUTPATIENT CLINIC

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



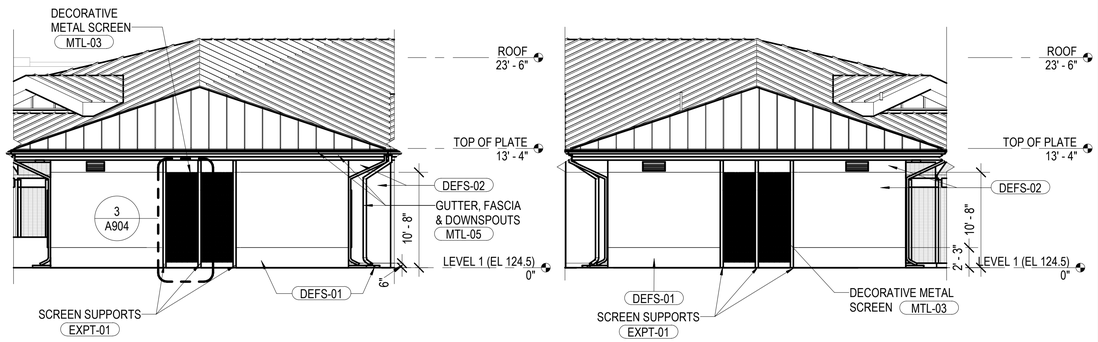
6 NORTH ELEVATION OF STAFF WING

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



7 SOUTH ELEVATION OF STAFF WING

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



8 SOUTHEAST ELEVATION OF PATIENT ROOM

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

9 SOUTHWEST ELEVATION OF PATIENT ROOM

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

8' 4' 0' 8' 16'

G70
111 S. KING STREET, SUITE 170
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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

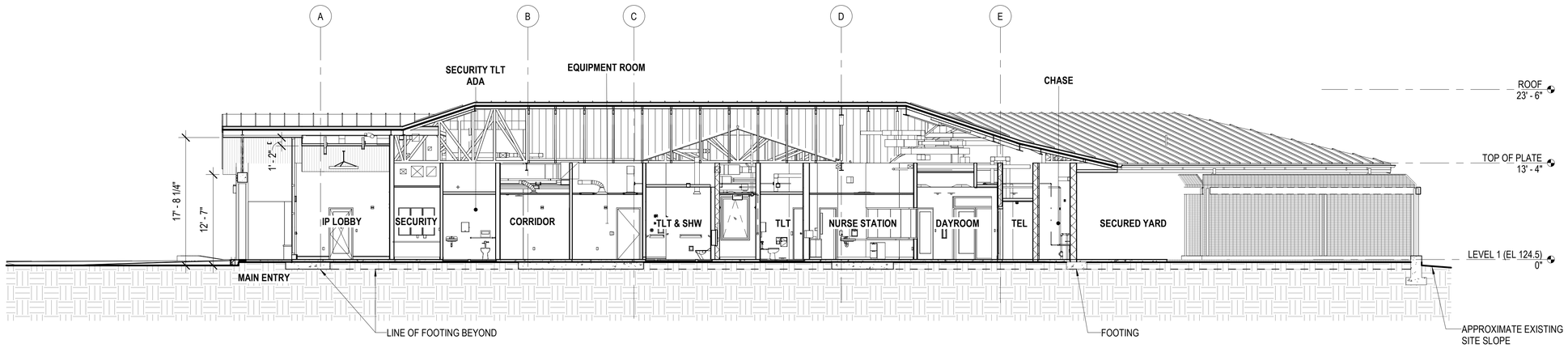
SHEET NAME
EXTERIOR ELEVATIONS

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

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A203
SHEET ISSUE DATE	
08/08/2025	

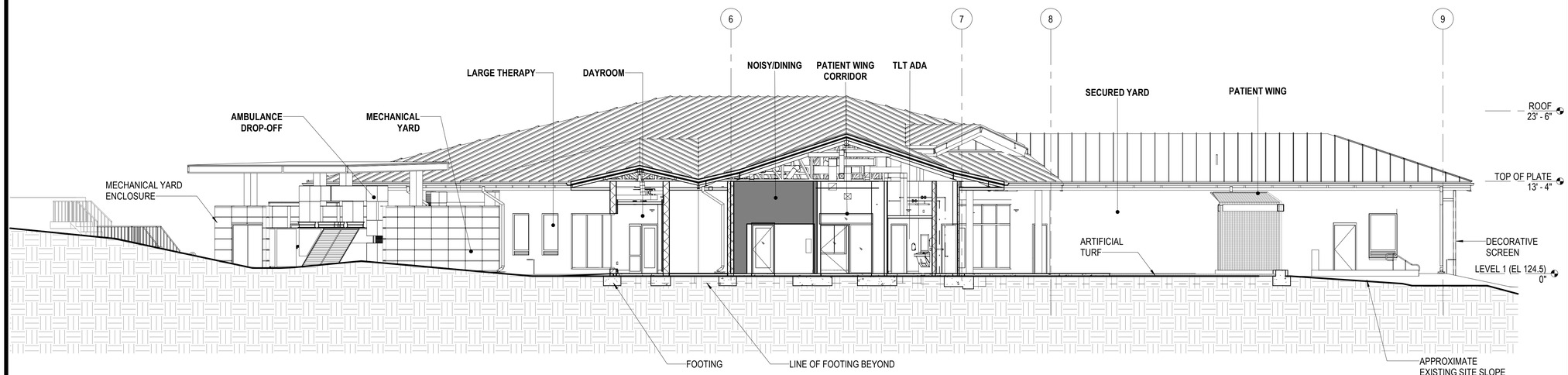
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3/8/2026 2:45:23 PM



1 BUILDING SECTION - FROM MAIN ENTRY TO PATIENT WING

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



2 CROSS SECTION - (E) HOSPITAL TO PATIENT WING

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

8' 4' 0' 8' 16'

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TMK#: 4-6-014:113

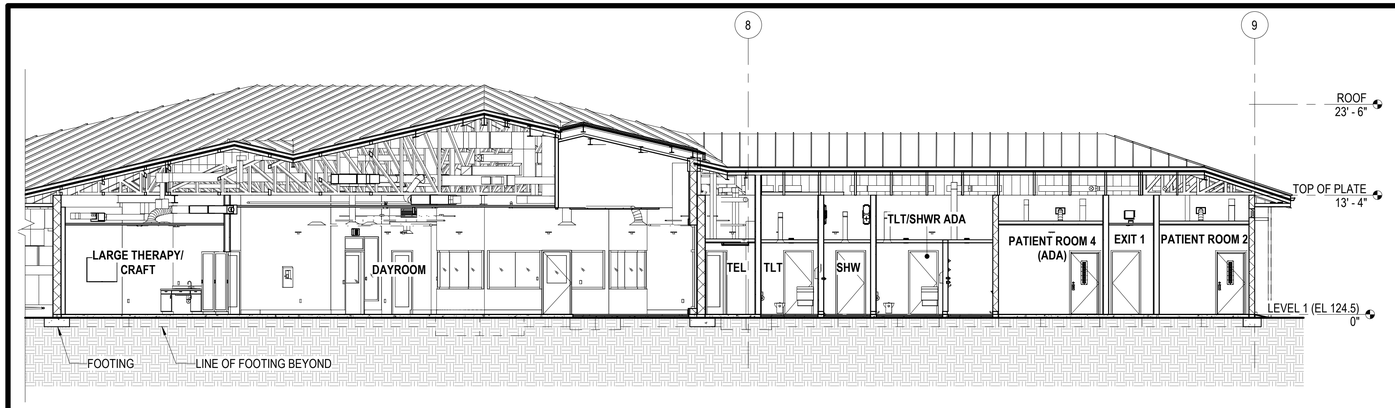
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Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
BUILDING SECTIONS

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

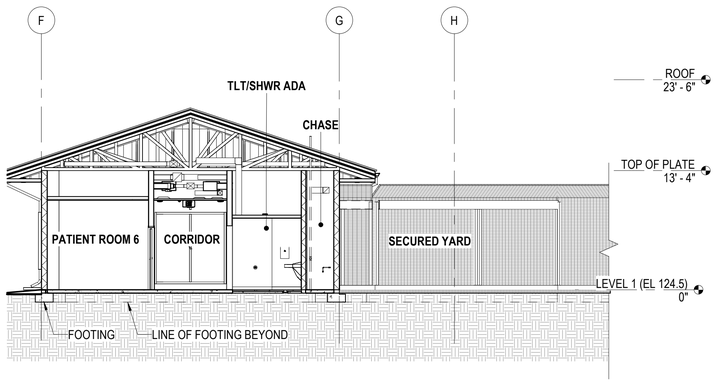
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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A301
SHEET ISSUE DATE	
08/08/2025	

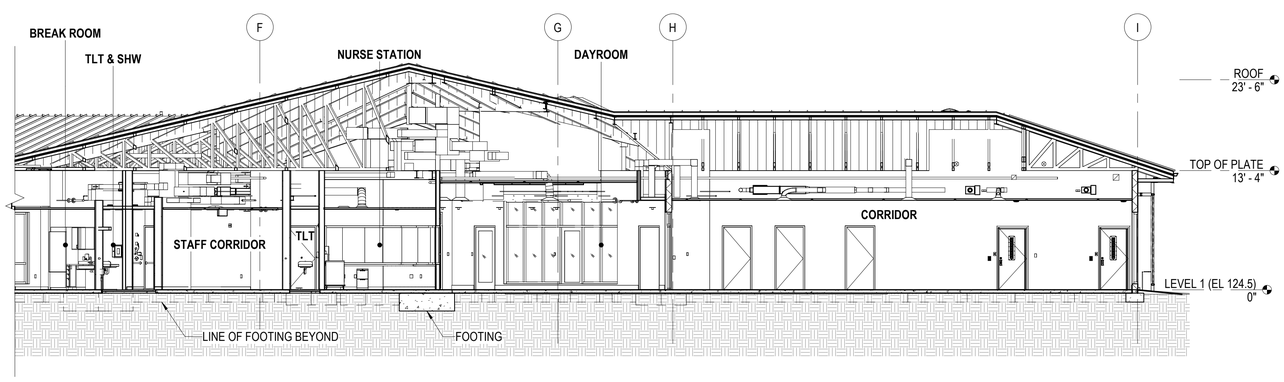
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1 LONGITUDINAL SECTION THRU DAYROOM

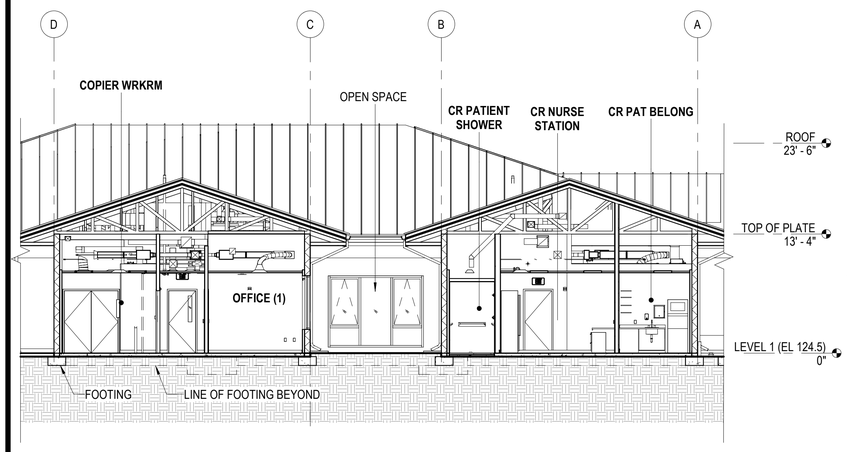
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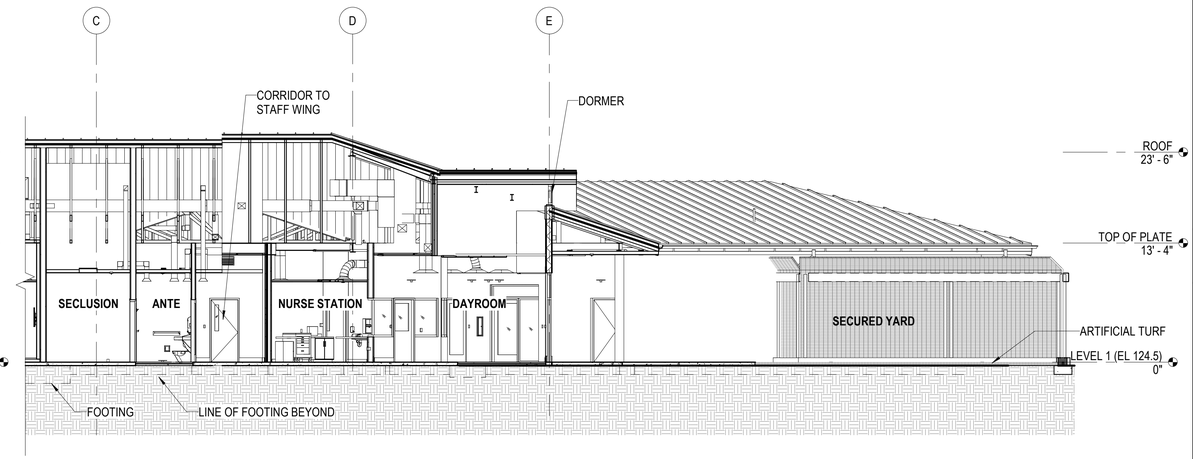
2 CROSS SECTION THRU PATIENT WING

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



3 LONGITUDINAL SECTION FROM STAFF WING TO PATIENT WING

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



4 CROSS SECTION THRU STAFF WING AND OUTPATIENT CLINIC

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

5 CROSS SECTION THRU DAYROOM

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

8' 4' 0' 8' 16'

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TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
BUILDING SECTIONS

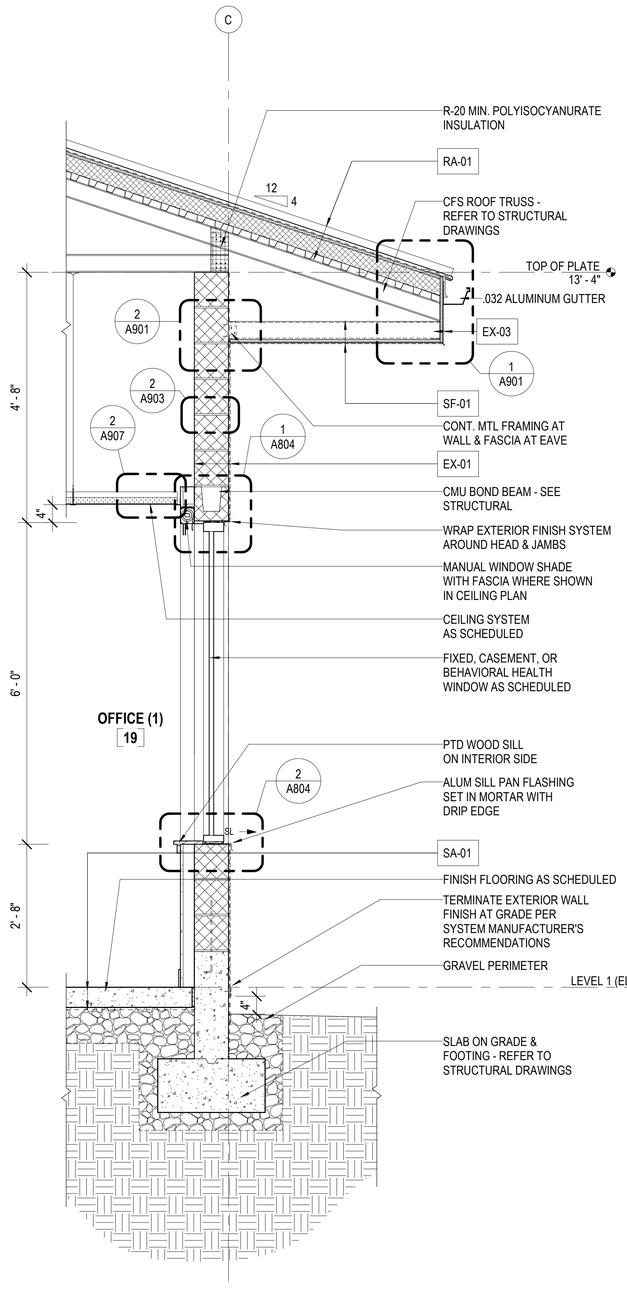
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Author	Checker

PROJECT NO.	SHEET NO.
221093-01	A302

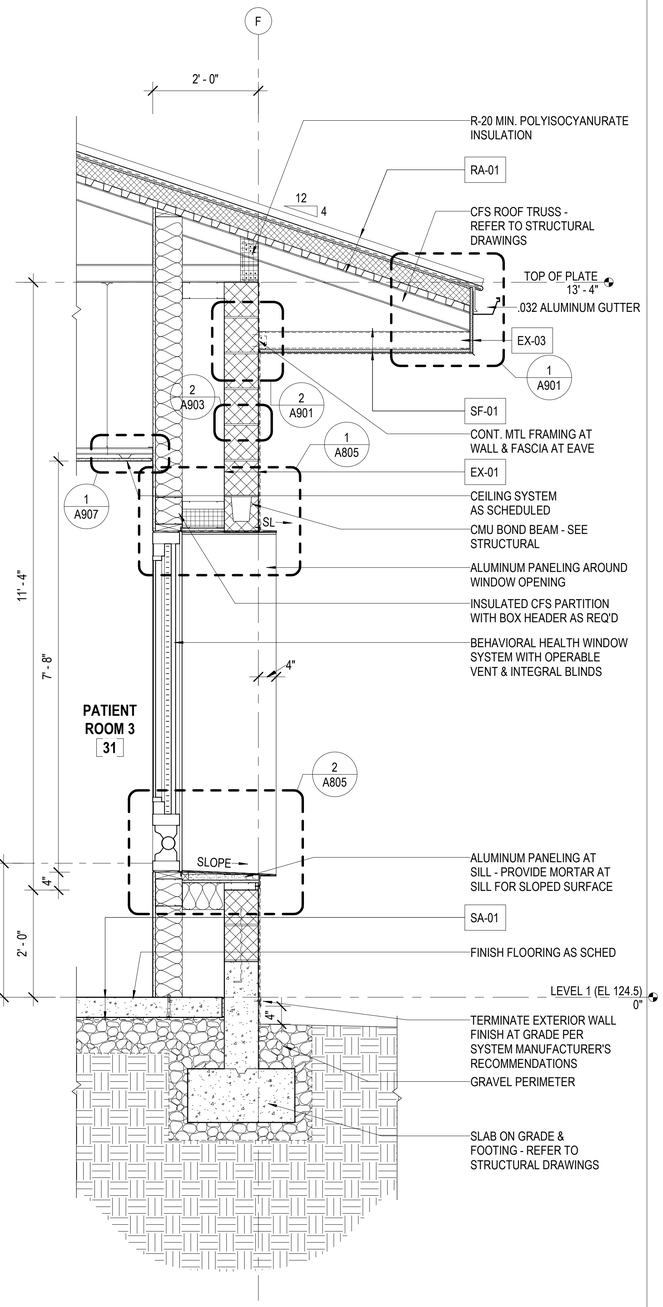
SHEET ISSUE DATE
08/08/2025

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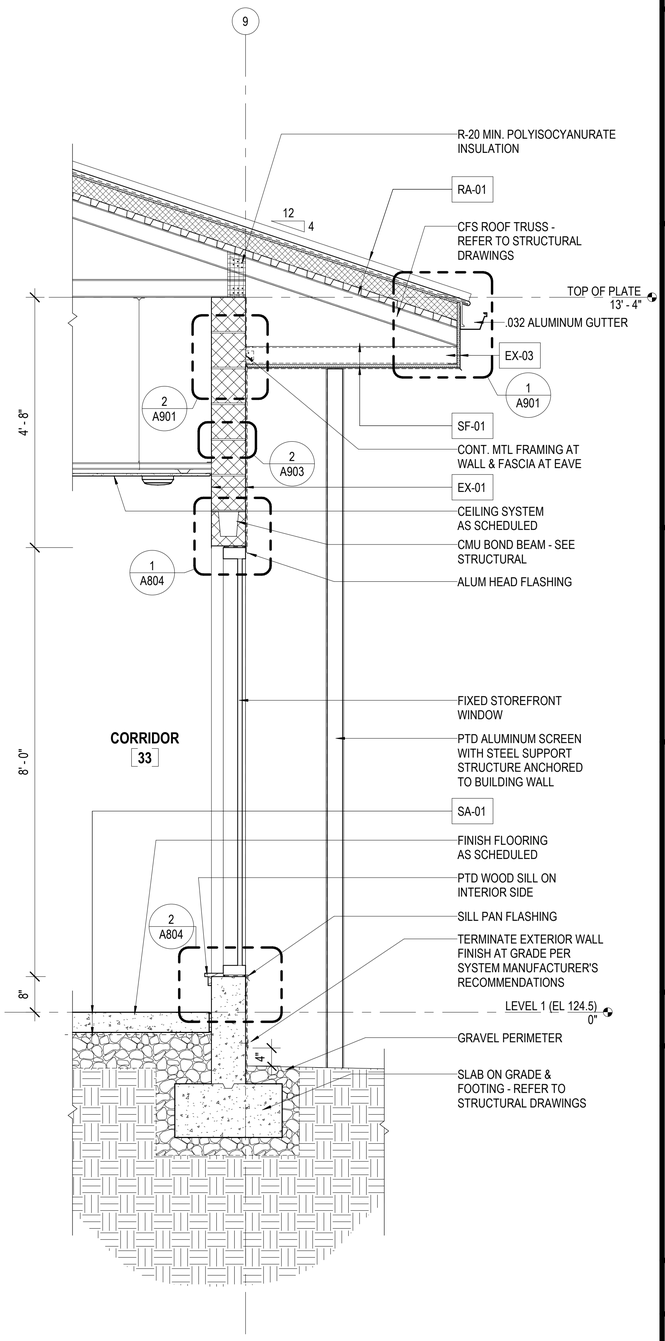
3 TYP WINDOW IN CMU WALL SECTION

SCALE: 3/4" = 1'-0"



2 TYP BEHAVIORAL HEALTH WINDOW WALL SECTION

SCALE: 3/4" = 1'-0"



1 TYP STOREFRONT WINDOW WALL SECTION

SCALE: 3/4" = 1'-0"

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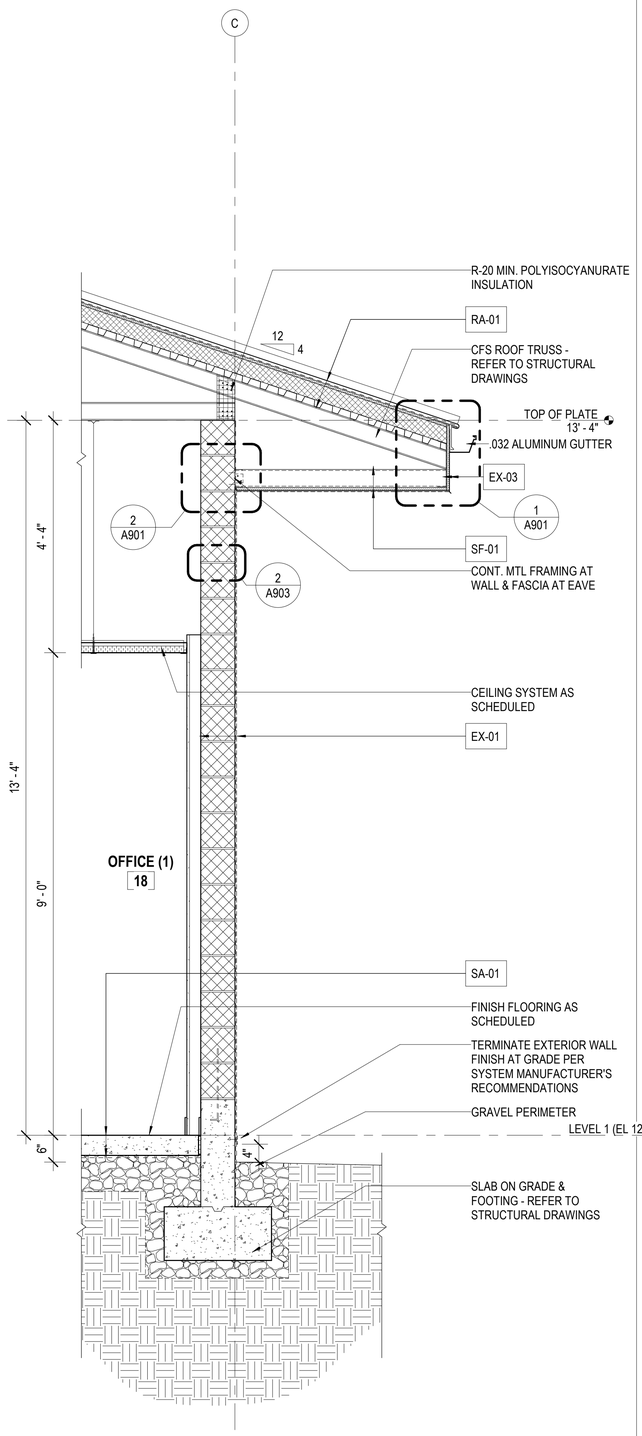
SHEET NAME
WALL SECTIONS

SCALE: 3/4" = 1'-0"

DRAWN BY	CHECKED BY
Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A401
SHEET ISSUE DATE	
08/08/2025	

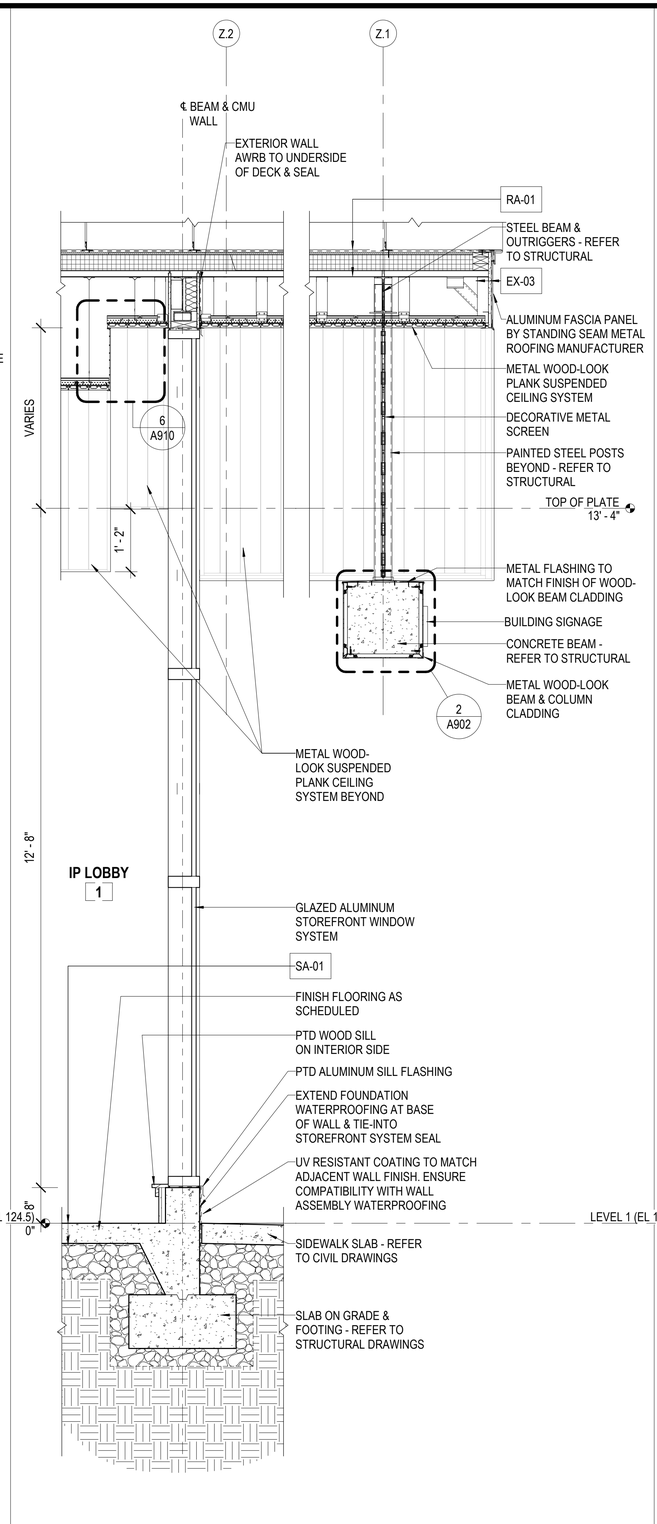
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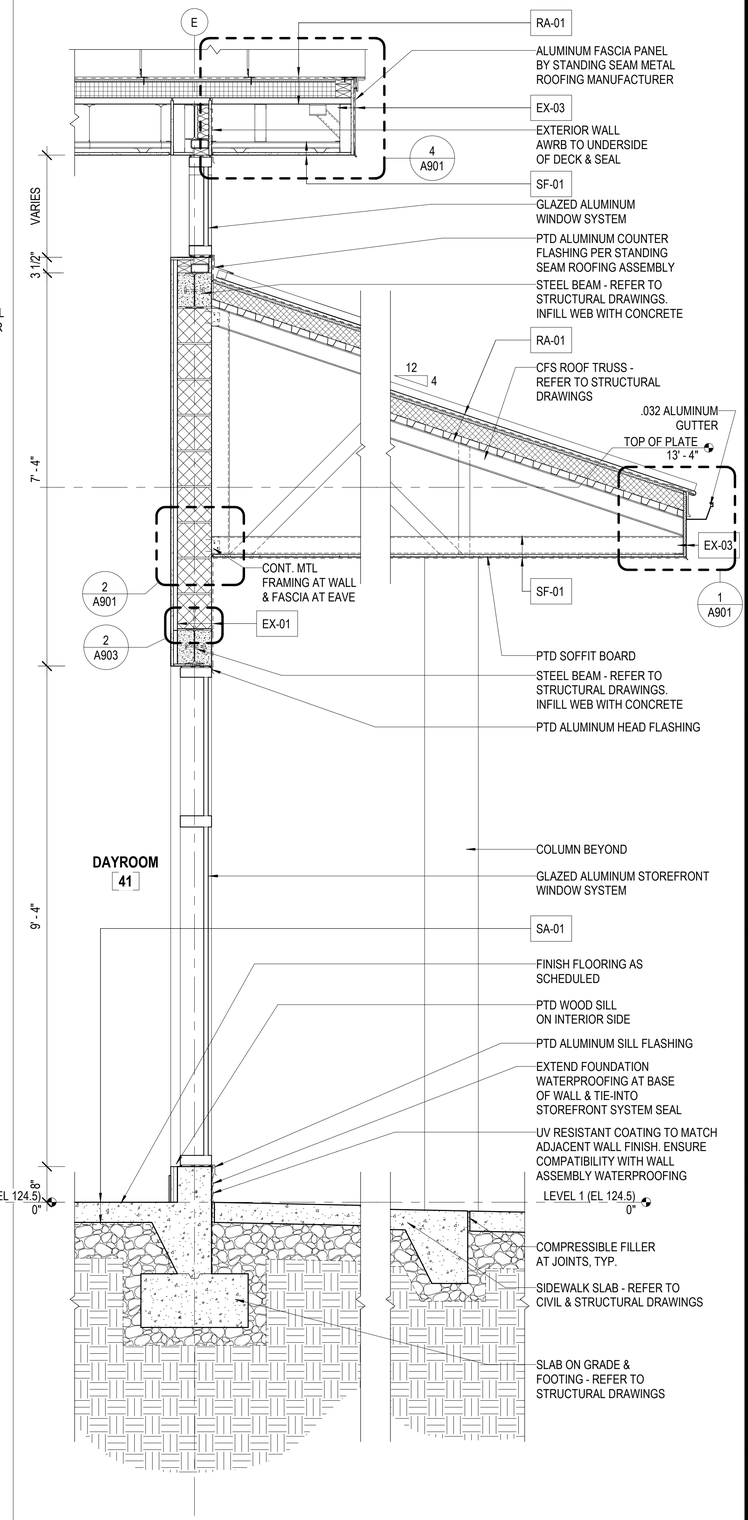
3 TYP EXTERIOR WALL SECTION

SCALE: 3/4" = 1'-0"



2 MAIN ENTRANCE STOREFRONT SECTION

SCALE: 3/4" = 1'-0"



1 DAYROOM DORMER & ROOF SECTION

SCALE: 3/4" = 1'-0"

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FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

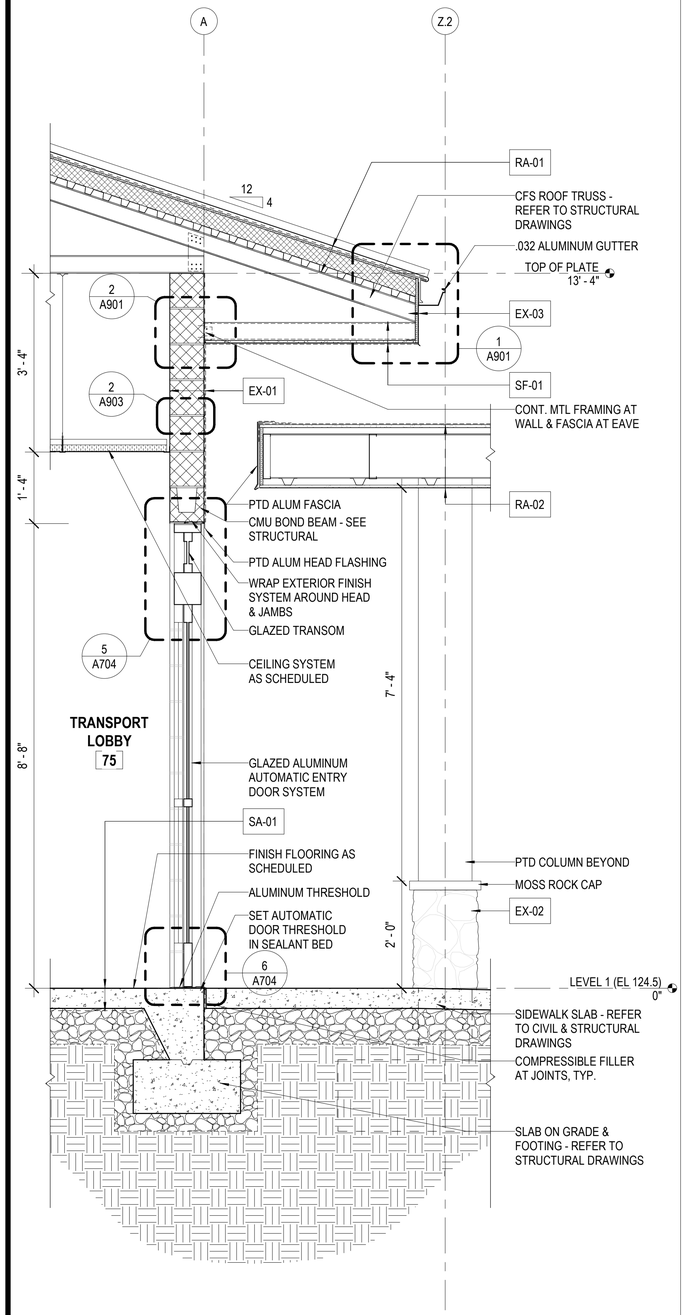
SHEET NAME
WALL SECTIONS

SCALE: 3/4" = 1'-0"

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A402
SHEET ISSUE DATE	
08/08/2025	

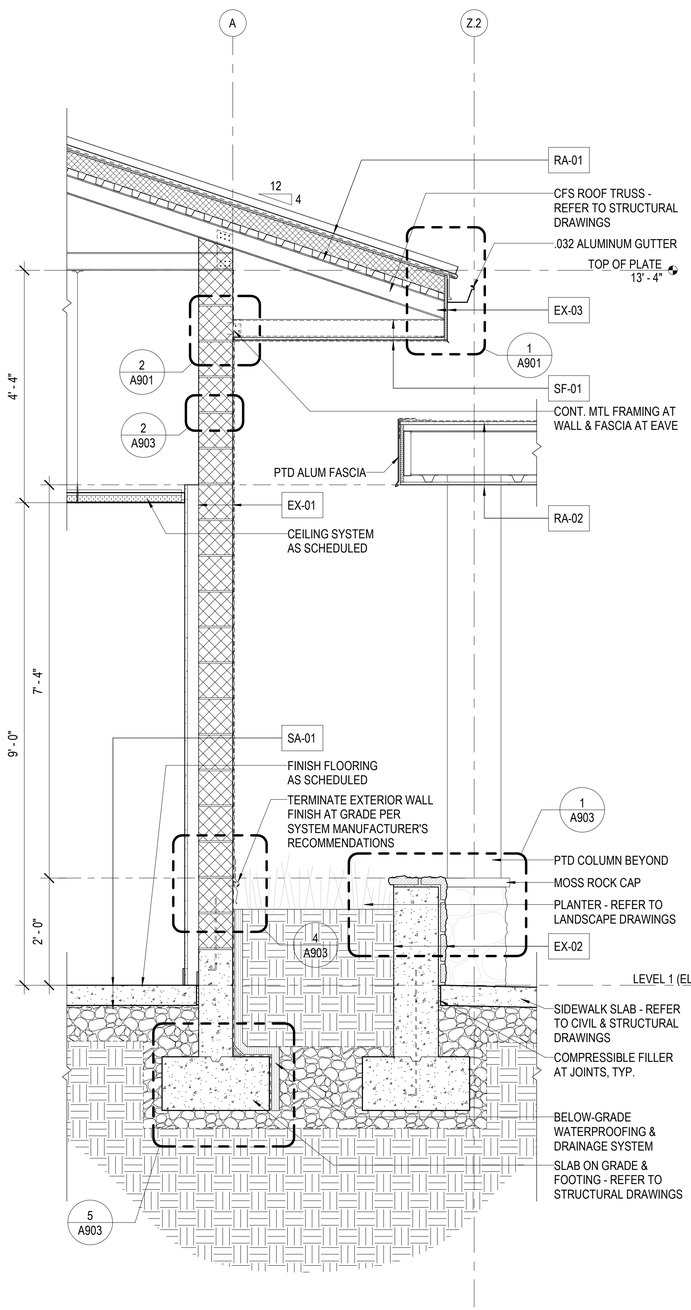
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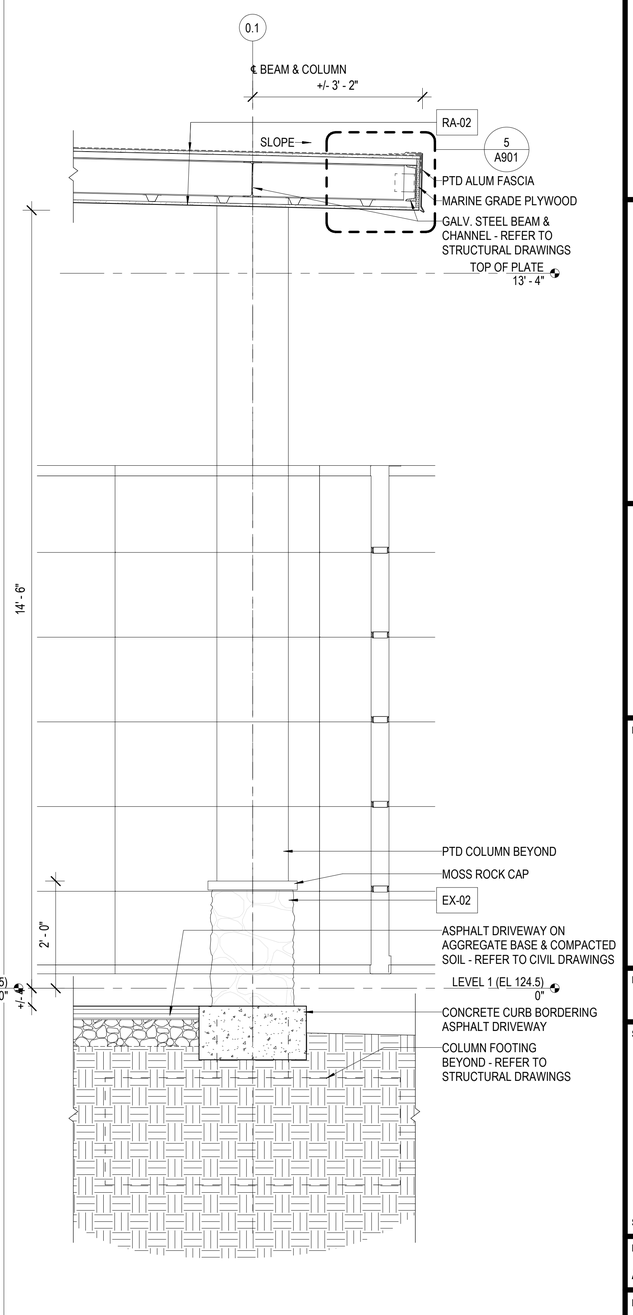
3 TRANSPORT LOBBY ENTRANCE SECTION

SCALE: 3/4" = 1'-0"



2 TYP SECTION AT ENTRY PLANTER

SCALE: 3/4" = 1'-0"



1 AMBULANCE CANOPY SECTION

SCALE: 3/4" = 1'-0"

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

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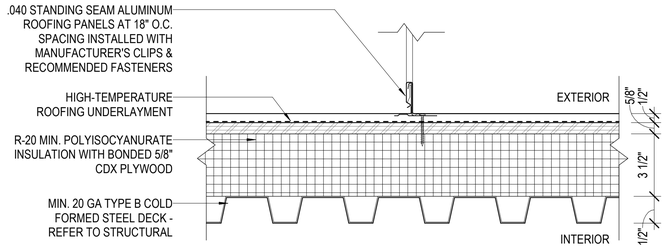
SHEET NAME
WALL SECTIONS

SCALE: 3/4" = 1'-0"

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A403
SHEET ISSUE DATE	
08/08/2025	

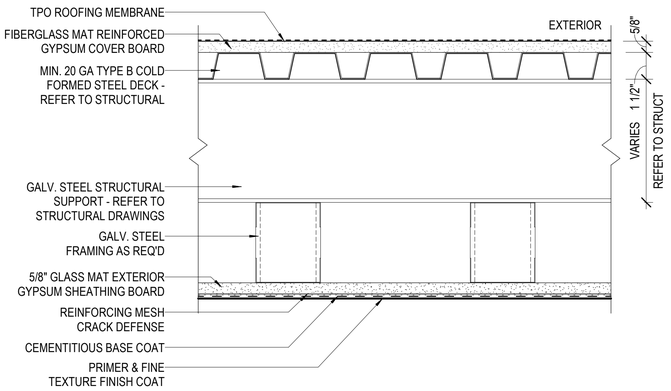
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RA-01

BASIS OF DESIGN: PAC-CLAD SNAP-CLAD
SLATE GRAY FINISH
ESR-4173

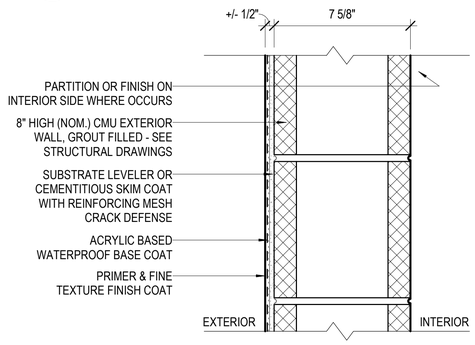


RA-02

TYPICAL ROOF AT AMBULANCE & ENTRY CANOPIES
BASIS OF DESIGN: STOQUIK FINISH SYSTEM FOR SOFFITS & CEILINGS
STOLIT X FINE 10609 FRENCH VANILLA

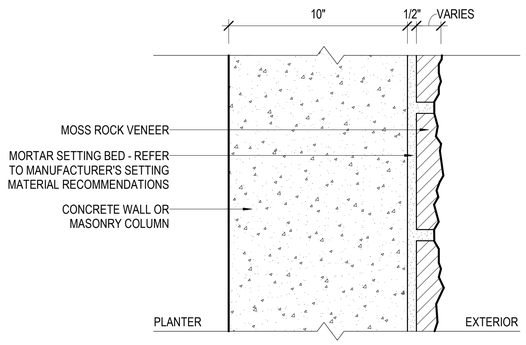
3 EXTERIOR ASSEMBLIES - ROOFS

SCALE: 3" = 1'-0"



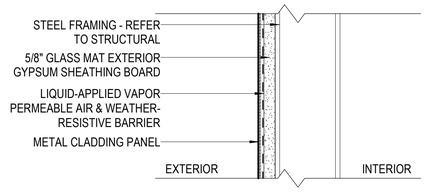
EX-01

BASIS OF DESIGN: STOQUIK FINISH FOR CONCRETE AND CMU
STOLIT X FINE 20905 OATMEAL (BASE) & 10609 FRENCH VANILLA (UPPER)



EX-02

TYPICAL PLANTER WALLS

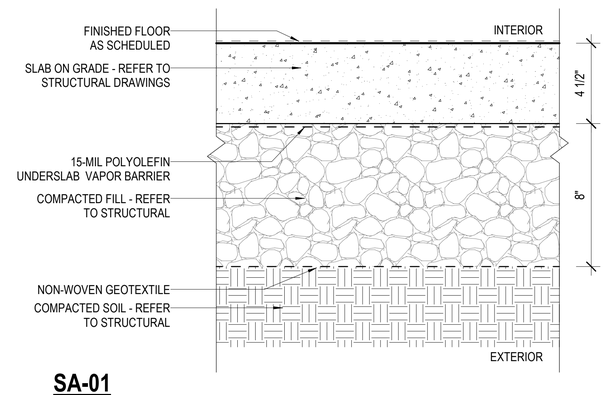


EX-03

TYPICAL FASCIAS AT EAVES
BASIS OF DESIGN: STOPANEL BACKUP & PAC-CLAD SNAP-CLAD
SLATE GRAY FINISH

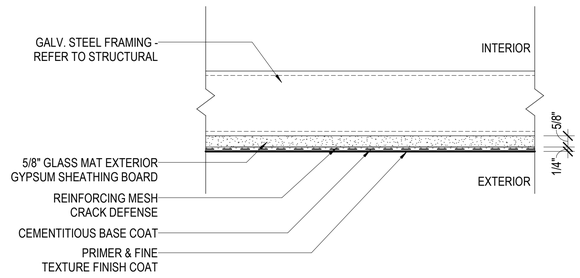
2 EXTERIOR ASSEMBLIES - WALLS

SCALE: 3" = 1'-0"



SA-01

TYPICAL FLOOR SLAB ASSEMBLY



SF-01

TYPICAL SOFFITS AT EAVES
BASIS OF DESIGN: STOQUIK FINISH SYSTEM FOR SOFFITS & CEILINGS
STOLIT X FINE 10609 FRENCH VANILLA

1 EXTERIOR ASSEMBLIES - SLABS

SCALE: 3" = 1'-0"

4 EXTERIOR ASSEMBLIES - SOFFITS

SCALE: 3" = 1'-0"

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SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
EXTERIOR ASSEMBLIES

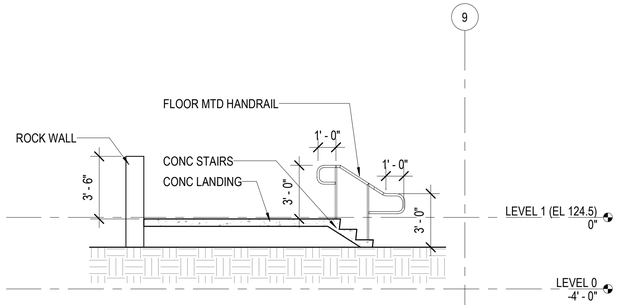
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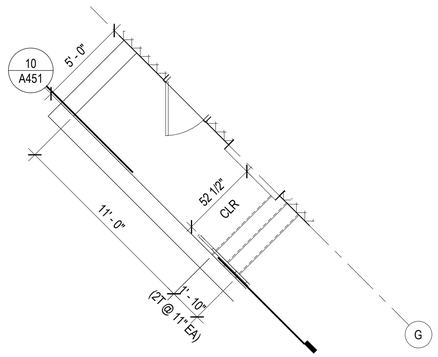
DRAWN BY	CHECKED BY
Author	Checker

PROJECT NO.	SHEET NO.
221093-01	A404

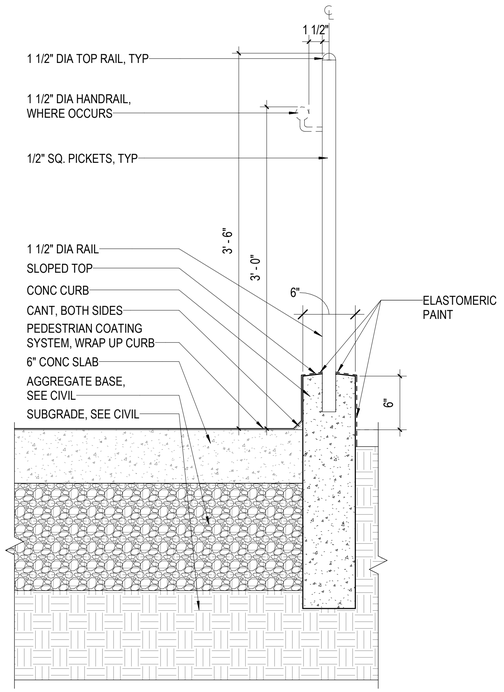
SHEET ISSUE DATE
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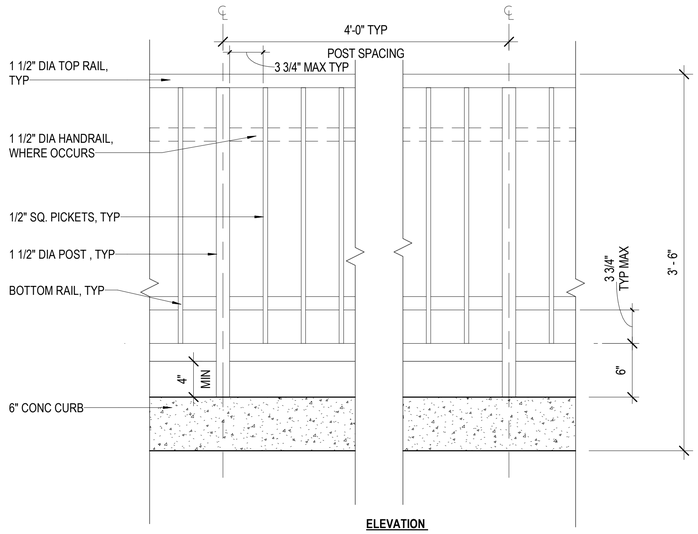




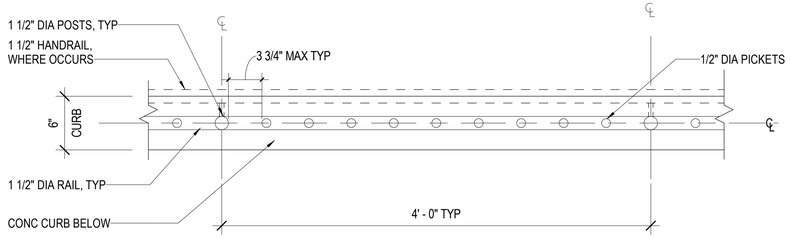
3 EXIT #1 STAIR
SCALE: 1/4" = 1'-0"



SECTION

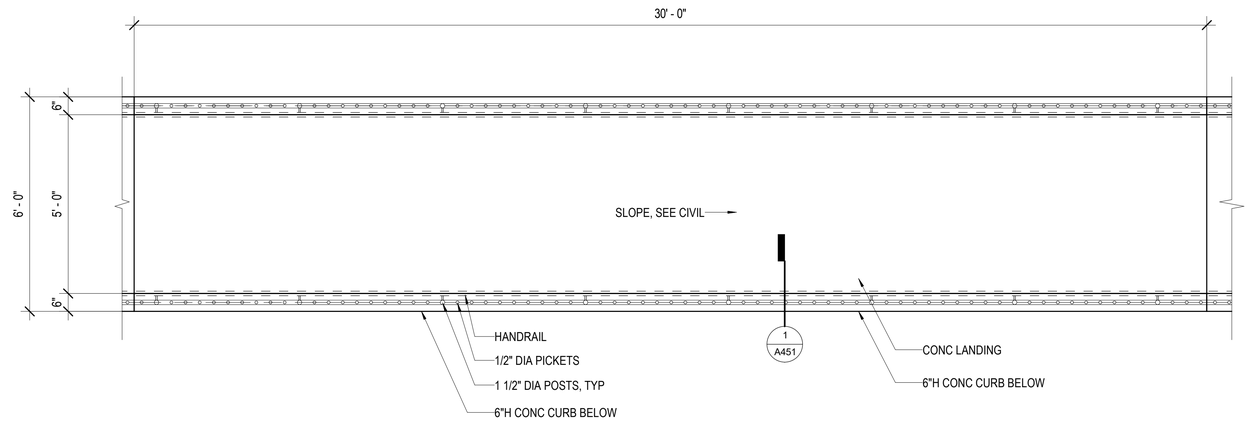


ELEVATION



PLAN

1 METAL GUARDRAIL ON CONC CURB
SCALE: 1 1/2" = 1'-0"



2 TYP ADA RAMP LANDING PLAN
SCALE: 1/2" = 1'-0"

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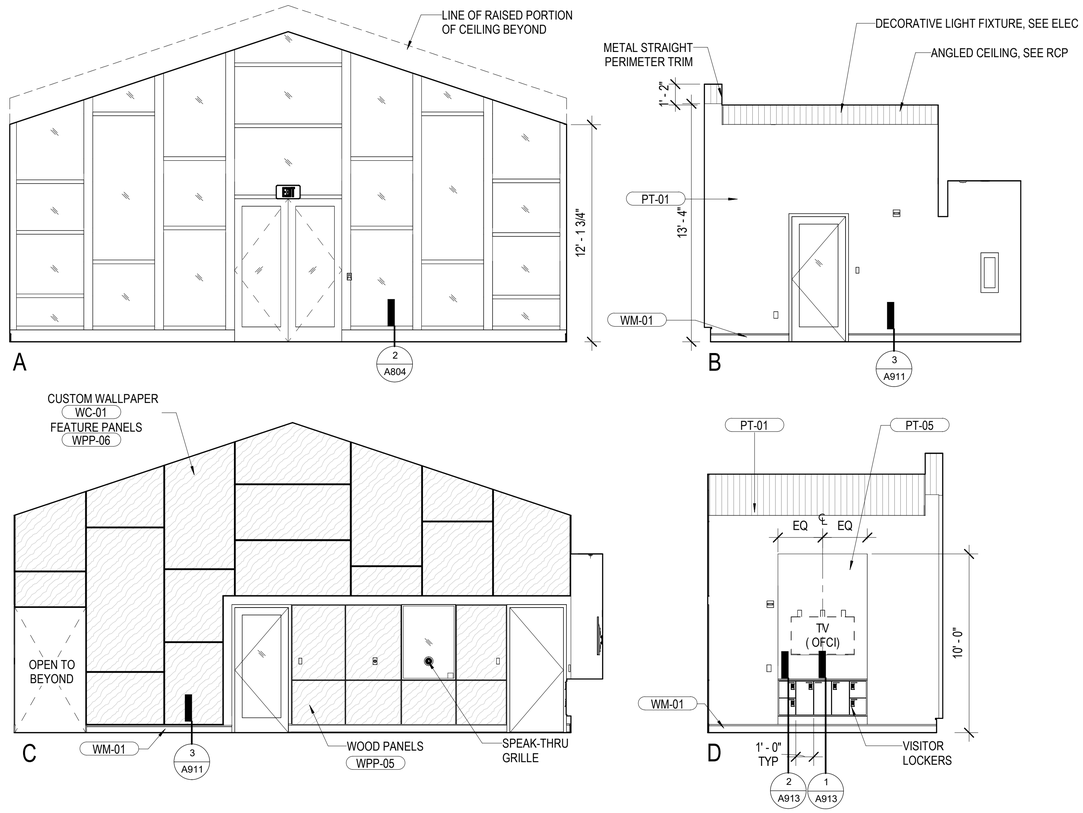
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
STAIR AND RAMP DETAILS

SCALE: As indicated

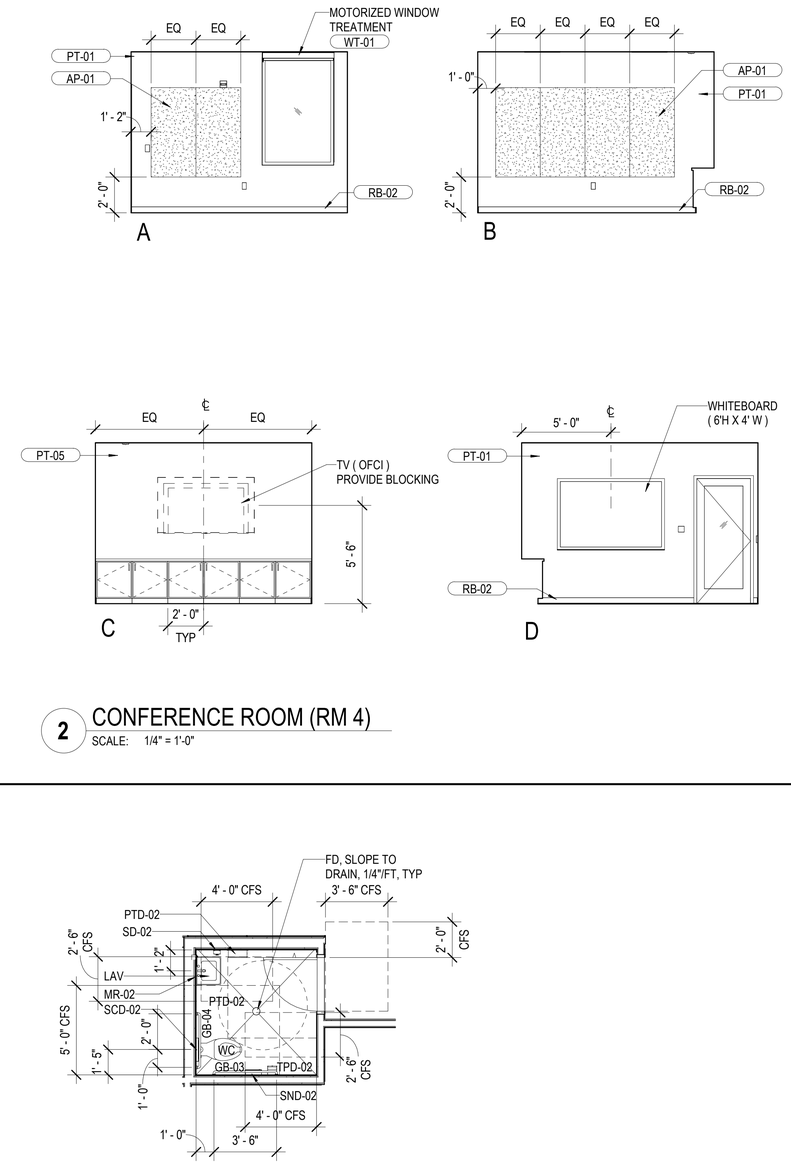
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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A451
SHEET ISSUE DATE	
02/28/26	

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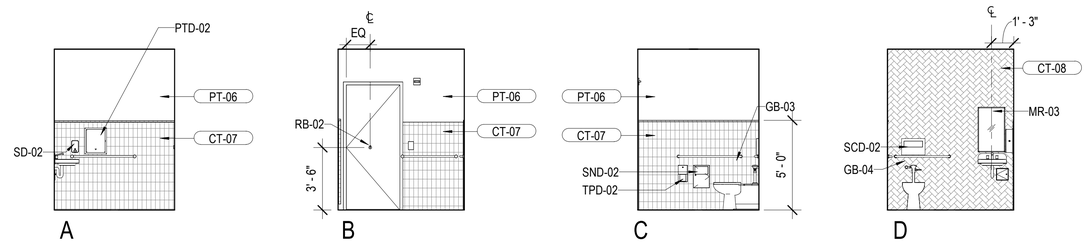
1 IP LOBBY (RM 1)

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



2 CONFERENCE ROOM (RM 4)

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



3 TOILET ADA - A

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

4 PUBLIC TLT ADA (RM 9) - PLAN

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

GENERAL NOTES:
1. SEE OVERALL PLAN AND ENLARGED PLANS AND RCP FOR REFERENCE
2. SEE FINISH SCHEDULES AND ROOM FINISH SCHEDULE
3. SEE SPECIFICATIONS FOR ACCESSORY SCHEDULES AND SPEC
4. FURNITURE, IF SHOWN IS FOR REFERENCE AND ASSUMED NIC AND TO BE PROVIDED BY OTHER
5. ALL DIMS ARE SHOWN AS A.F.F.

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TMK#: 4-6-014:113

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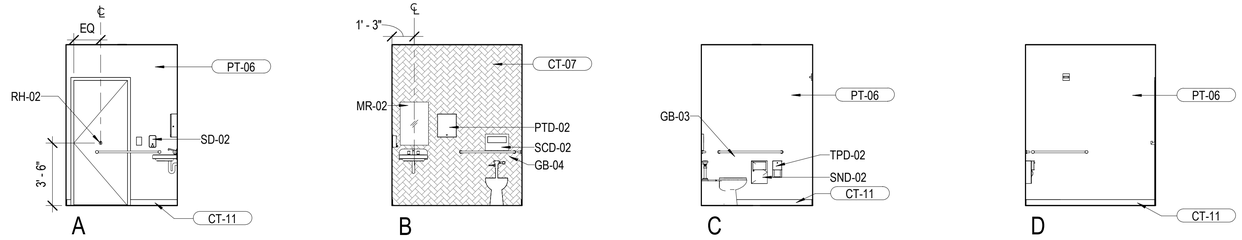
SHEET NAME
ENLARGED PLANS AND INTERIOR ELEVATIONS

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

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A501
SHEET ISSUE DATE	
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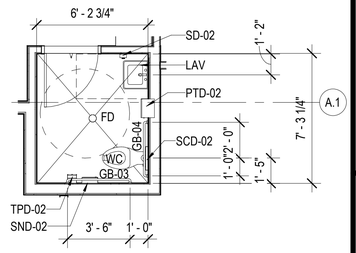
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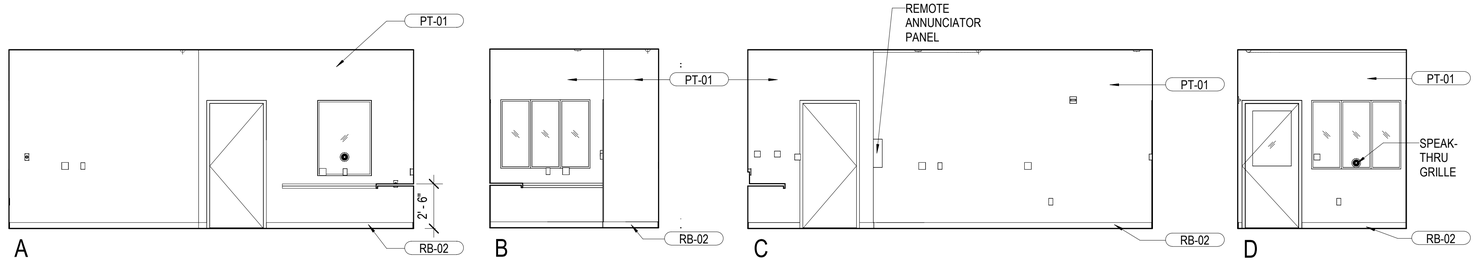
1 SECURITY TLT ADA (RM 11)

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



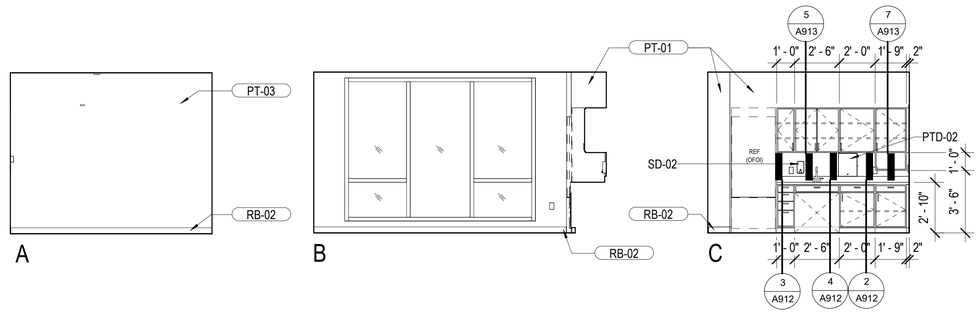
2 SECURITY TLT ADA (RM 11) - PLAN

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



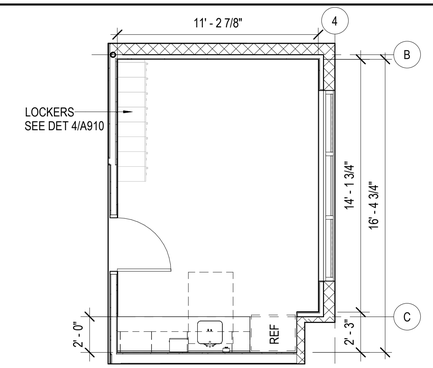
3 SECURITY OFFICE (RM 73)

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



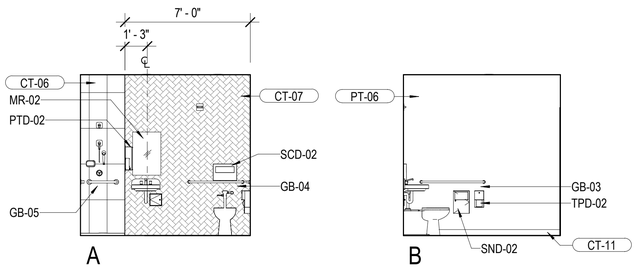
4 BREAK RM (RM 14)

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



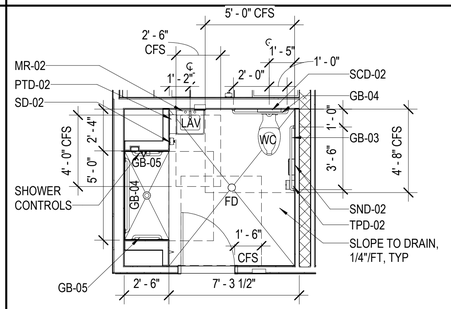
5 BREAK RM (RM 14) - PLAN

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



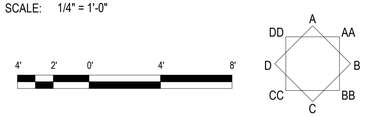
6 STAFF TLT & SHW (RM 15)

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



7 STAFF TLT & SHW (RM 15) - PLAN

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



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SHEET NAME

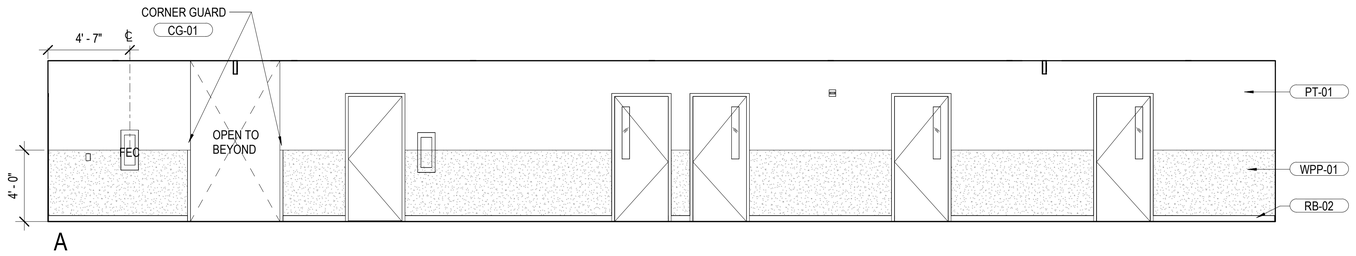
ENLARGED PLANS AND INTERIOR ELEVATIONS

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

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PROJECT NO.	SHEET NO.
221093-01	A502
SHEET ISSUE DATE	
08/08/2025	

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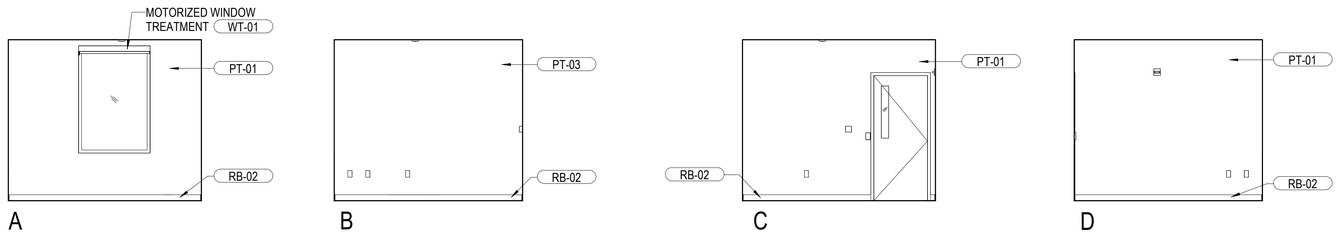
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1 STAFF CORRIDOR (RM 16)

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

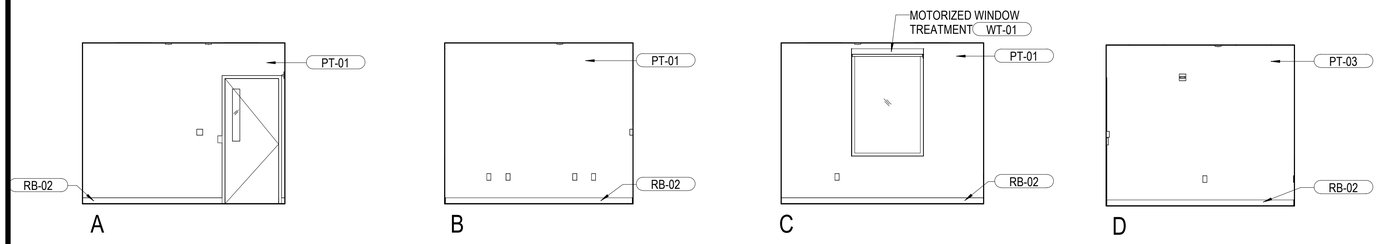
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2 TYPICAL OFFICE STAFF (RM 18)

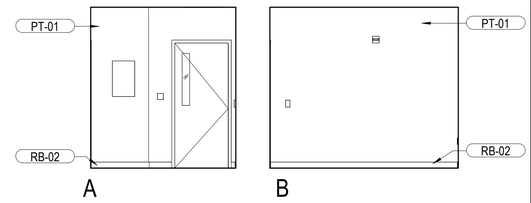
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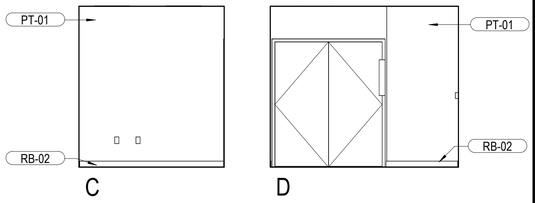
NOTE: SIM AT ALL SINGLE OFFICES (RM 17,19,83 AND 84) SEE OVERALL PLAN FOR CONFIGURATION



3 SHARED OFFICE (20)

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





4 COPIER WORKROOM (RM 22)

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

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SHEET NAME

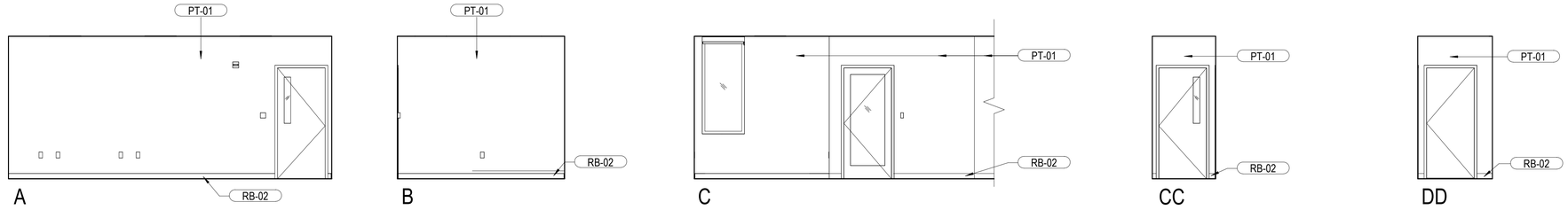
ENLARGED PLANS AND INTERIOR ELEVATIONS

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

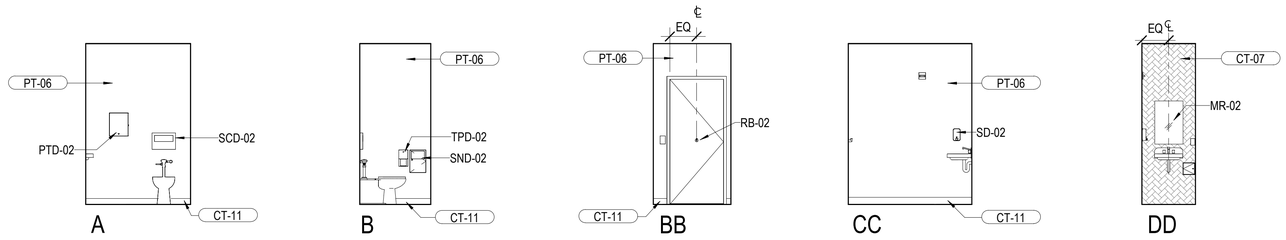
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PROJECT NO.	SHEET NO.
221093-01	A503
SHEET ISSUE DATE	
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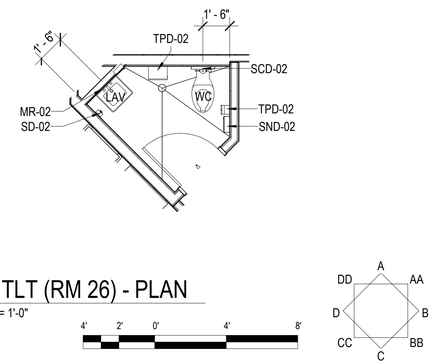
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1 CHART RM (RM 25)
SCALE: 1/4" = 1'-0"

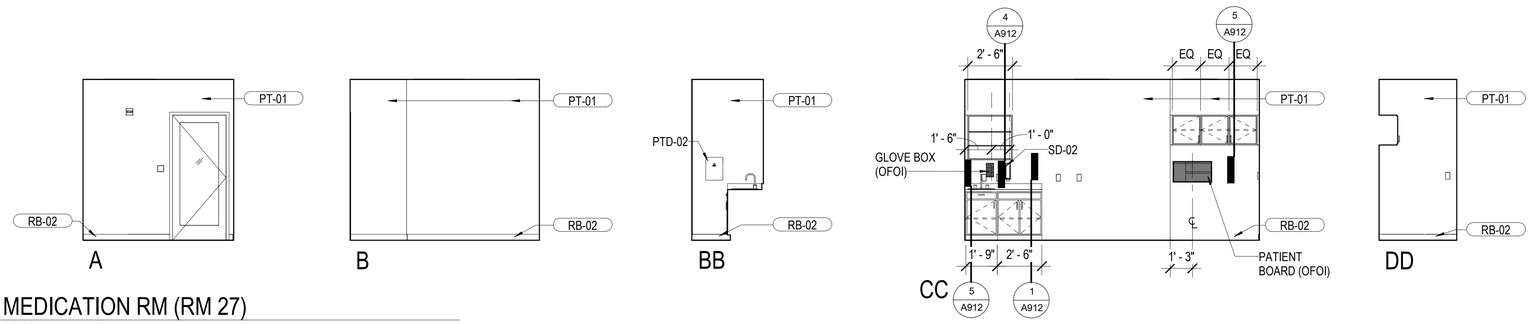


2 CHART TLT (RM 26)
SCALE: 1/4" = 1'-0"

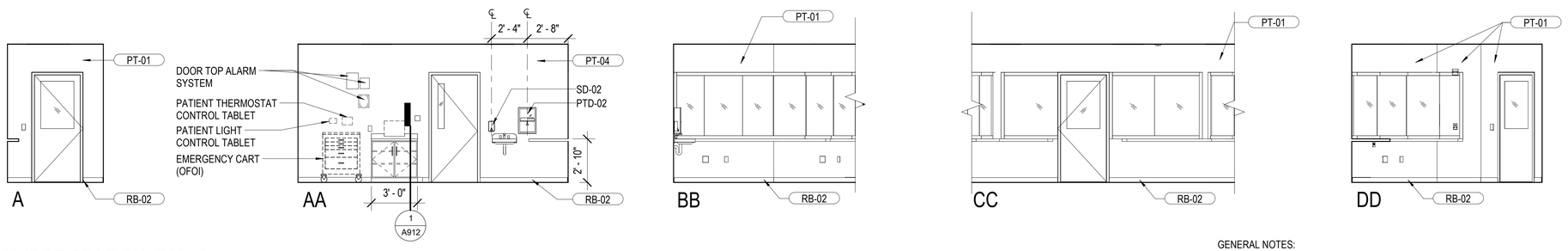


3 CHART TLT (RM 26) - PLAN
SCALE: 1/4" = 1'-0"

4' 2' 0' 4' 8'



4 MEDICATION RM (RM 27)
SCALE: 1/4" = 1'-0"



5 NURSE STATION (RM 40)
SCALE: 1/4" = 1'-0"

GENERAL NOTES:
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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

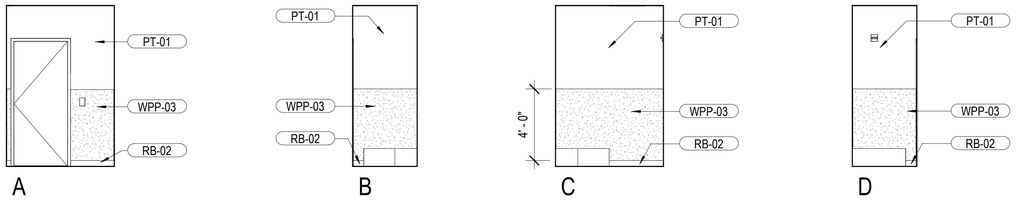
SHEET NAME
ENLARGED PLANS AND INTERIOR ELEVATIONS

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

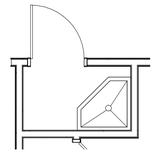
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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A504
SHEET ISSUE DATE	
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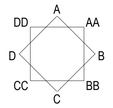


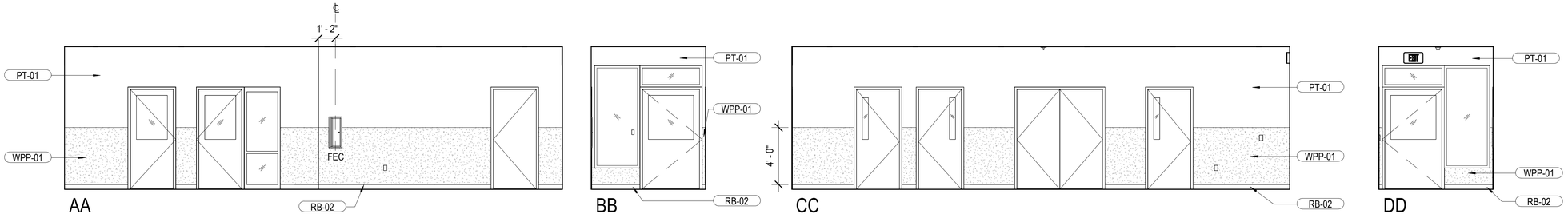
1 HSKP (2) (RM 24)
SCALE: 1/4" = 1'-0"



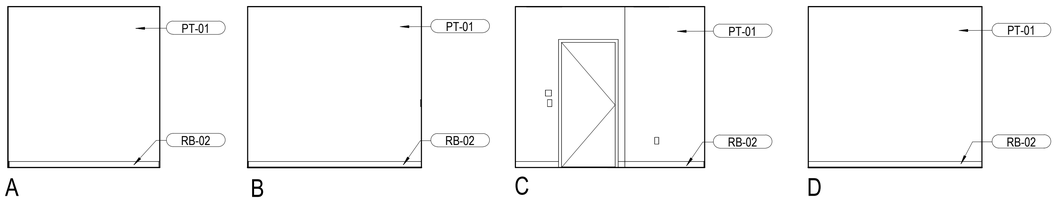
2 HSKP (2) (RM24) - PLAN
SCALE: 1/4" = 1'-0"

4' 2' 0' 4' 8'

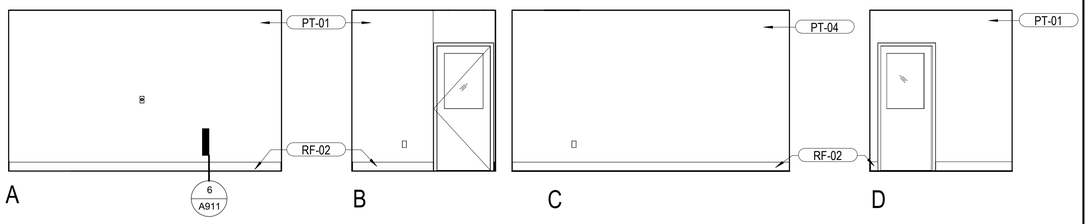




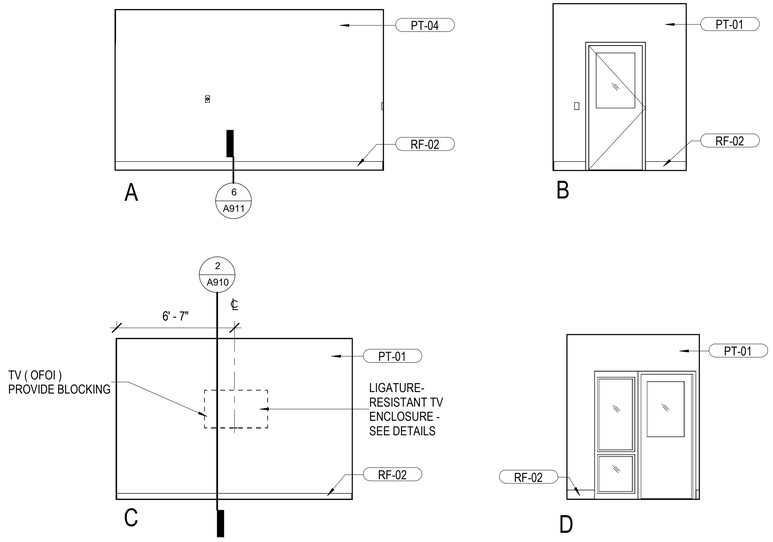
3 SALLYPORT CORRIDOR (RM 61)
SCALE: 1/4" = 1'-0"



4 PATIENT BELONGINGS (RM 70)
SCALE: 1/4" = 1'-0"



6 VISIT/INTAKE/DISCHARGE (RM 64)
SCALE: 1/4" = 1'-0"



5 VISIT/ TELE (RM 63)
SCALE: 1/4" = 1'-0"

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TMK#: 4-6-014:113

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SHEET NAME

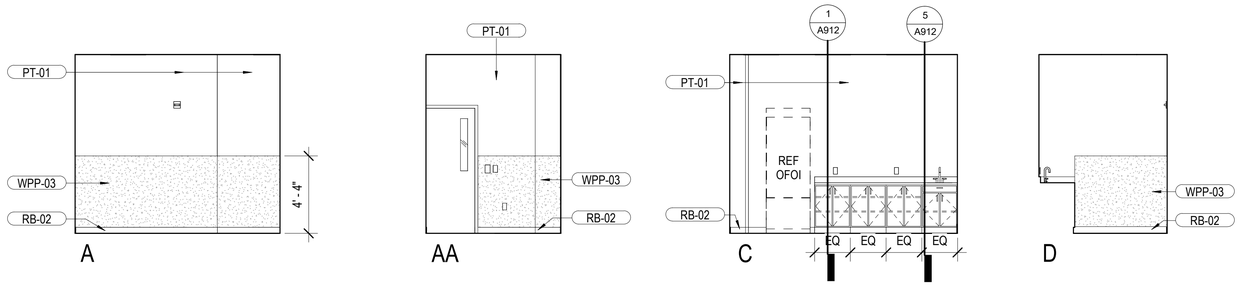
ENLARGED PLANS AND INTERIOR ELEVATIONS

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

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PROJECT NO.	SHEET NO.
221093-01	A505
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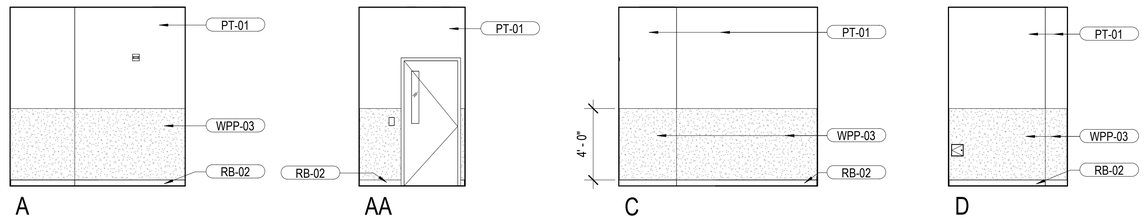
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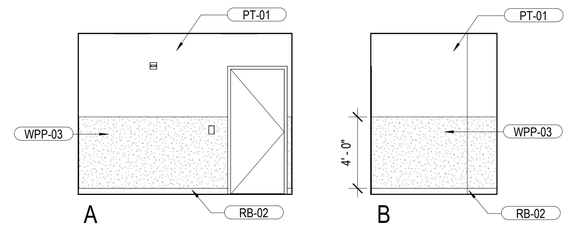
1 NOURISH (RM 57)

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



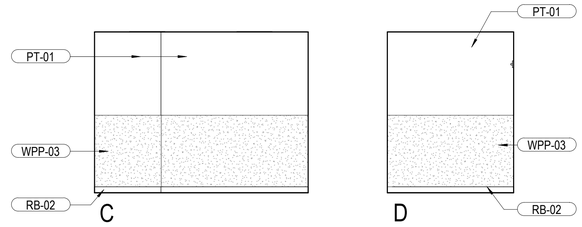
2 CLEAN RM (RM 58)

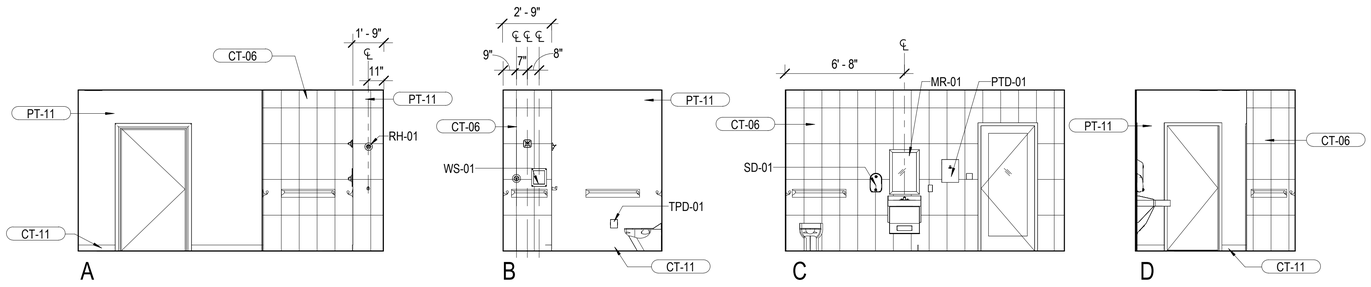
SCALE: 1/4" = 1'-0"



3 SOILED RM (RM 66)

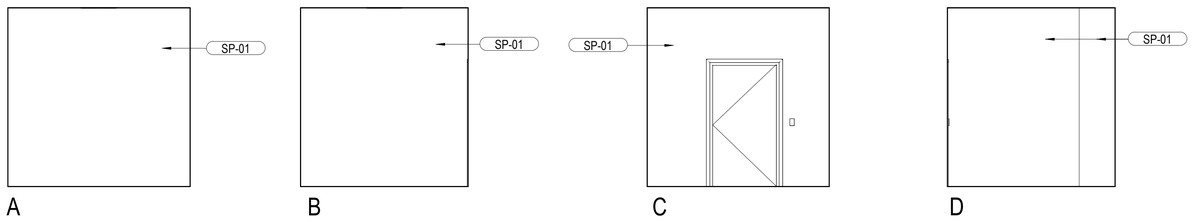
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4 SECLUSION RM TLT & SHW (RM 60), ANTE (RM 59)

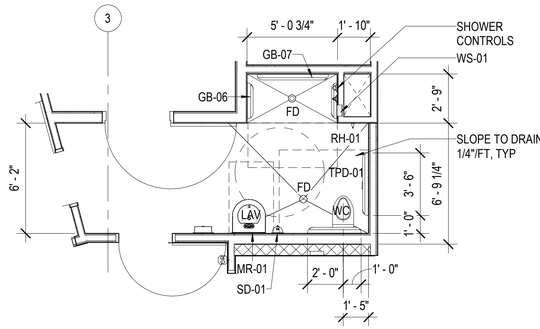
SCALE: 1/4" = 1'-0"



5 SECLUSION (RM 62)

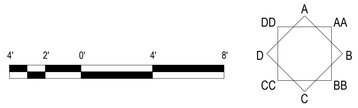
SCALE: 1/4" = 1'-0"

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6 SEC RM TLT & SHW (RM 60), ANTE (RM 59) - PLAN

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



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FILENAME
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SHEET NAME

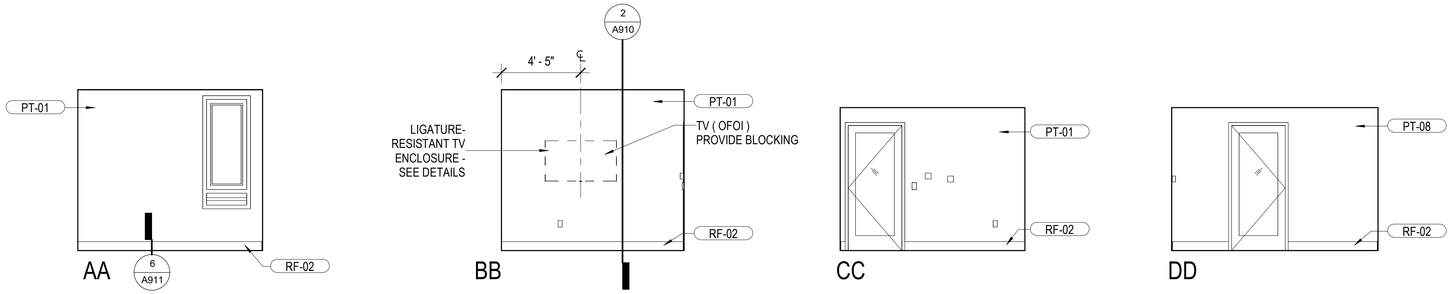
ENLARGED PLANS AND INTERIOR ELEVATIONS

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

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PROJECT NO.	SHEET NO.
221093-01	A506
SHEET ISSUE DATE	
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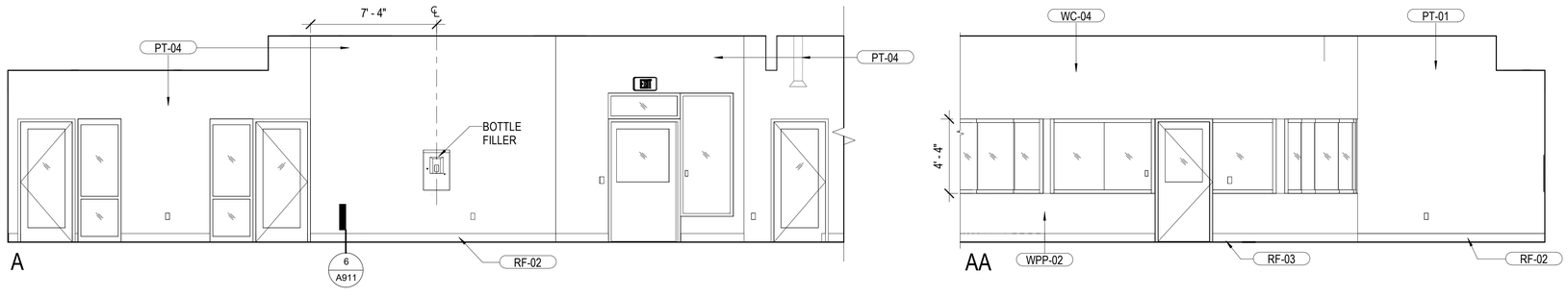
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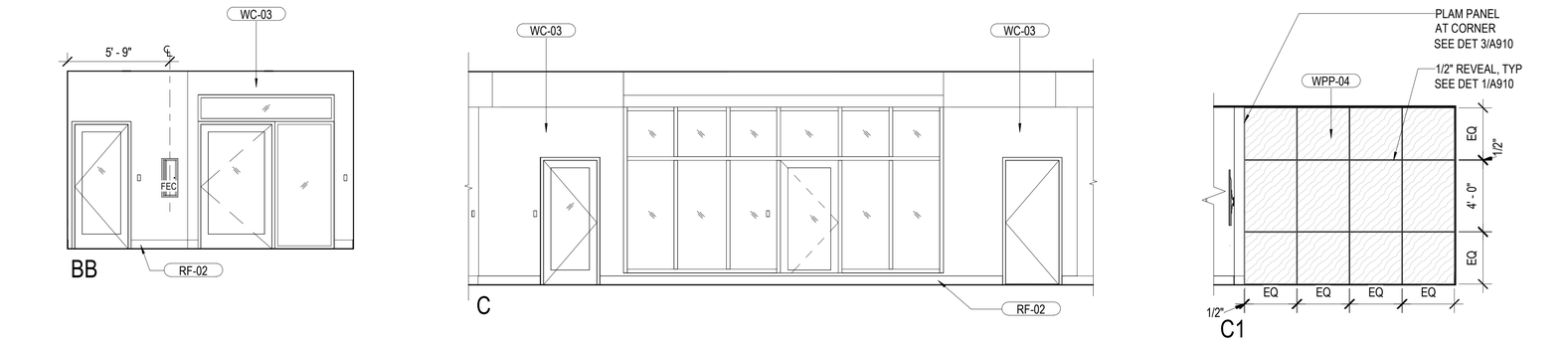
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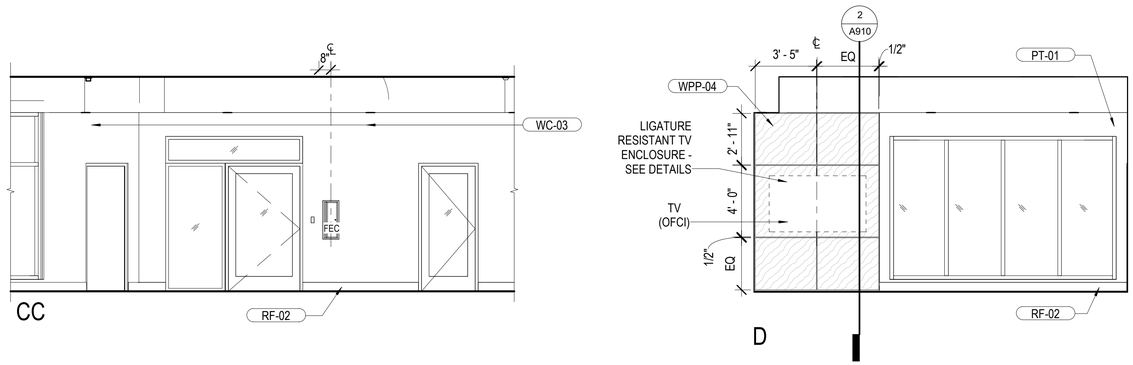


1 CONSULT RM (RM 28)

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







2 DAYROOM (RM 41)

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

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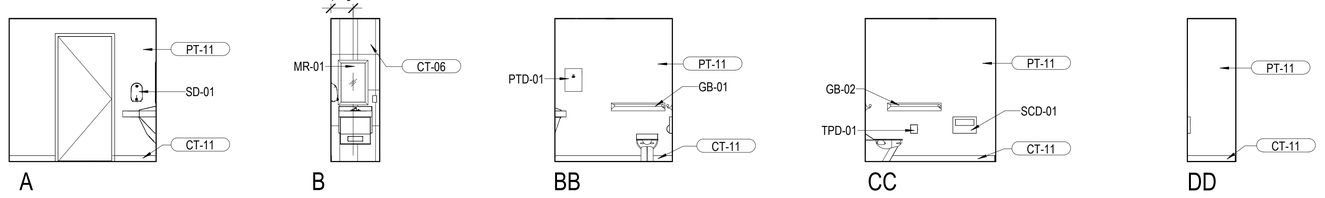
ENLARGED PLANS AND INTERIOR ELEVATIONS

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

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PROJECT NO.	SHEET NO.
221093-01	A507
SHEET ISSUE DATE	
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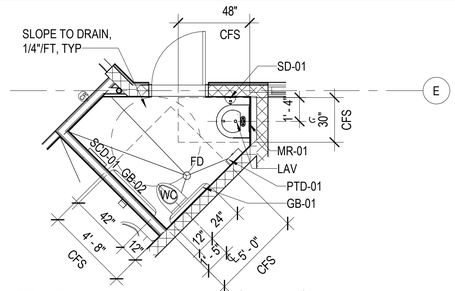
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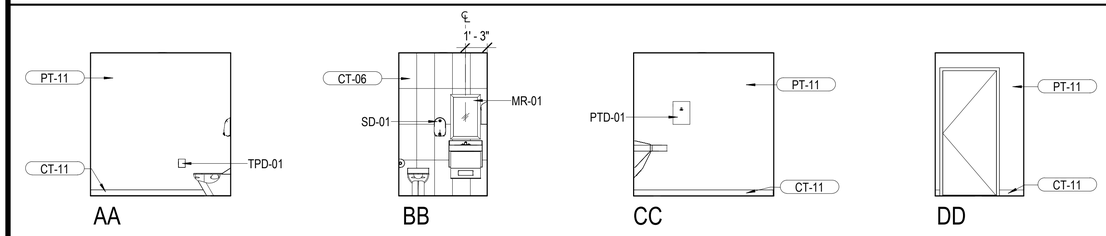
2 TYPICAL PATIENT TLT ADA (RM 43)

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



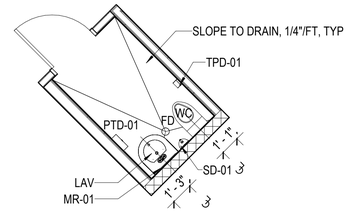
1 PATIENT TLT ADA (RM 43) - PLAN

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



4 TYPICAL PATIENT TLT (RM 44)

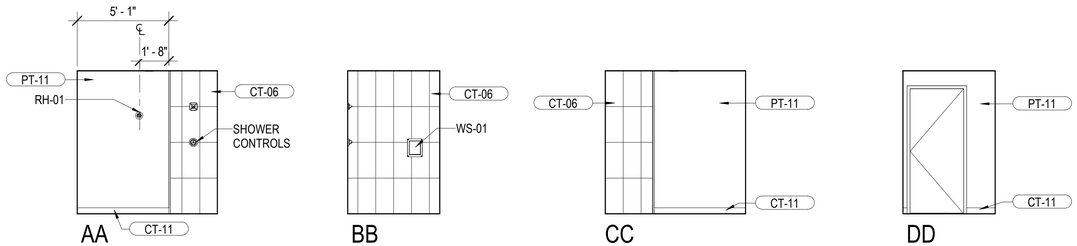
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3 TYP PATIENT TLT (RM 44) - PLAN

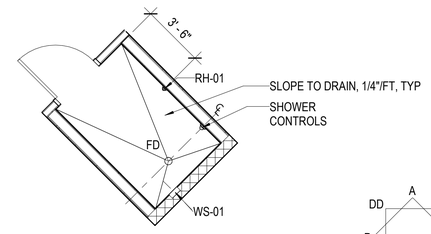
SCALE: 1/4" = 1'-0"

GENERAL NOTE: 39 SIMILAR



6 TYPICAL PATIENT SHW (RM 45)

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

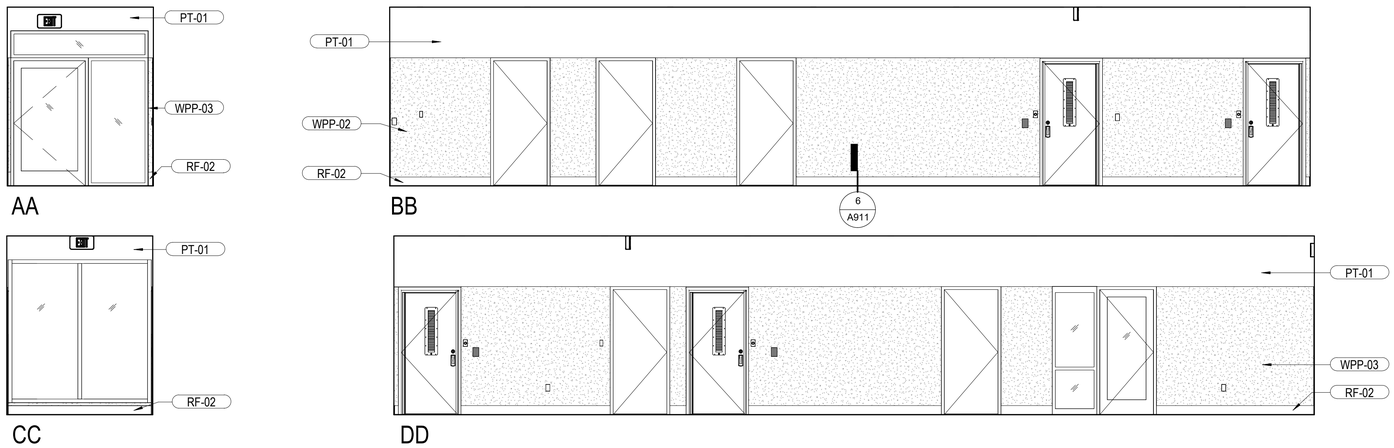


5 TYP PATIENT SHW (RM 45) - PLAN

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

GENERAL NOTE: 38 SIMILAR

4' 2' 0' 4' 8'



7 PATIENT CORRIDOR (RM 49)

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

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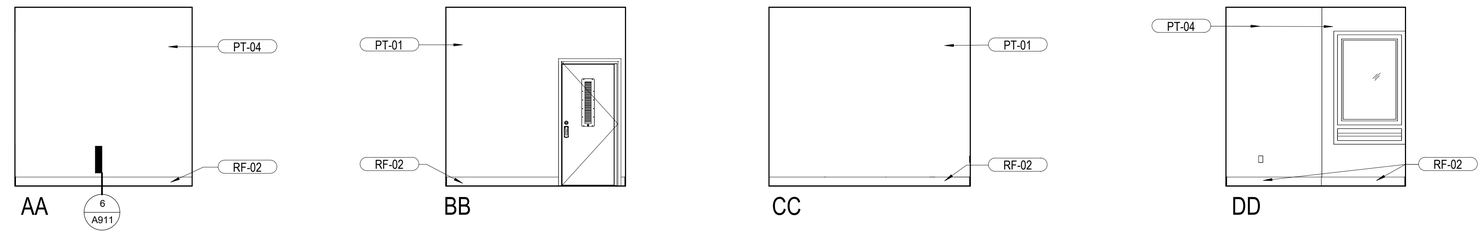
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221093-01	A508

SHEET ISSUE DATE
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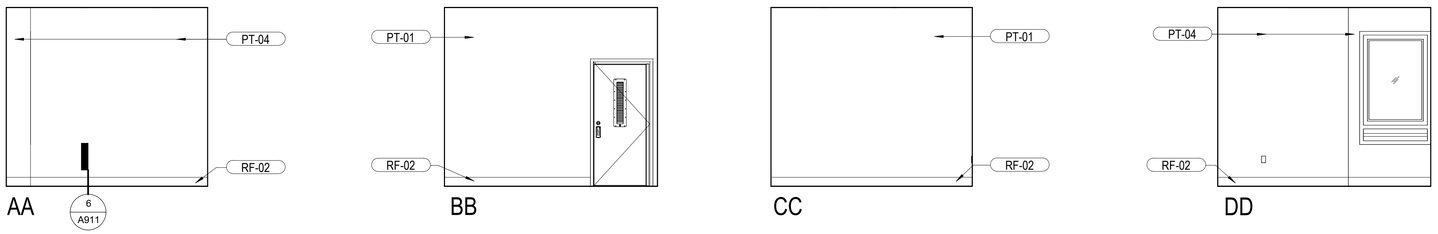
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1 TYPICAL PATIENT RM (RM 50)

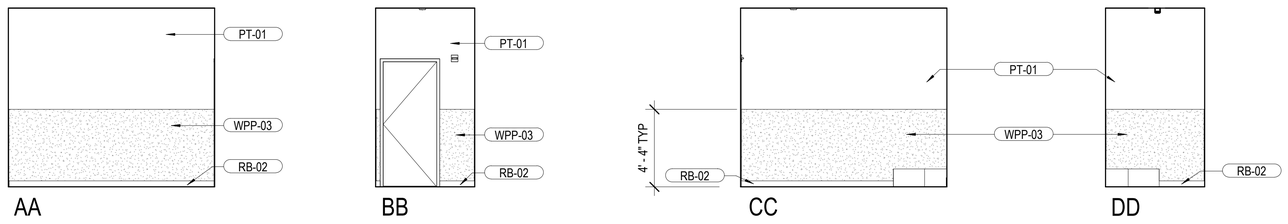
SCALE: 1/4" = 1'-0"

GENERAL NOTE: ROOM 29, 30, 31, 32, 34, 47, 48 SIMILAR



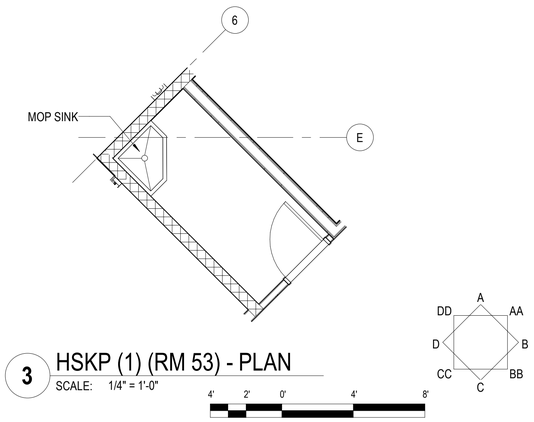
2 ADA PATIENT RM (RM 52)

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



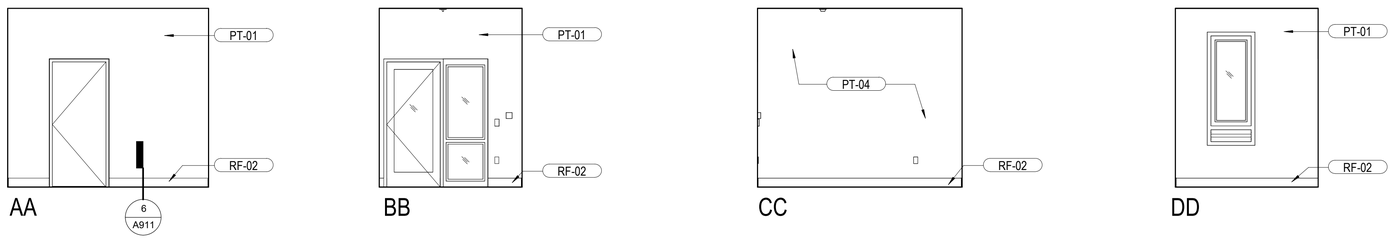
4 HSKP (1) (RM 53)

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



3 HSKP (1) (RM 53) - PLAN

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



5 QUIET/SMALL GROUP THERAPY (RM 54)

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

GENERAL NOTES:
1. SEE OVERALL PLAN AND ENLARGED PLANS AND RCP FOR REFERENCE
2. SEE FINISH SCHEDULES AND ROOM FINISH SCHEDULE
3. SEE SPECIFICATIONS FOR ACCESSORY SCHEDULES AND SPEC
4. FURNITURE, IF SHOWN IS FOR REFERENCE AND ASSUMED NIC AND TO BE PROVIDED BY OTHER
5. ALL DIMS ARE SHOWN AS A.F.F.

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REVISIONS

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TMK#: 4-6-014:113

FILENAME
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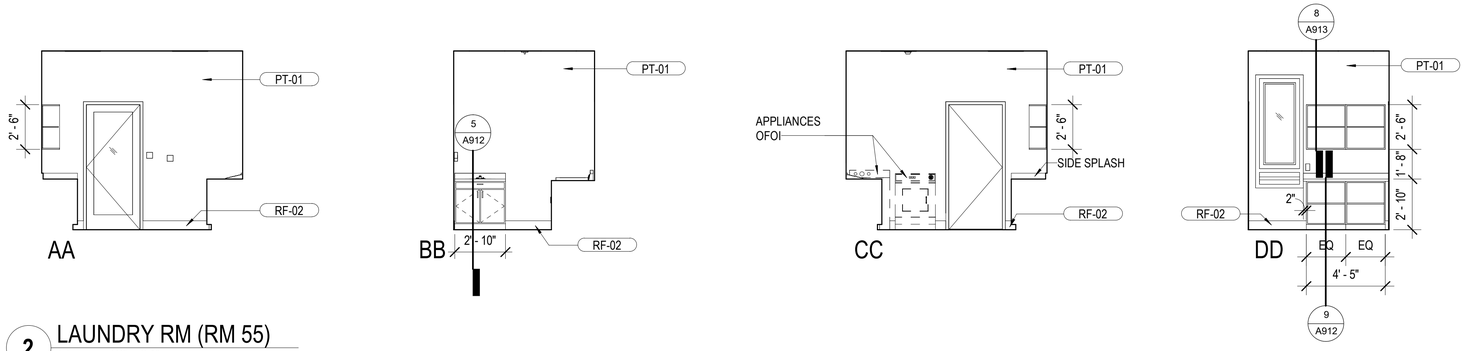
SHEET NAME
ENLARGED PLANS AND INTERIOR ELEVATIONS

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

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A509
SHEET ISSUE DATE	
08/08/2025	

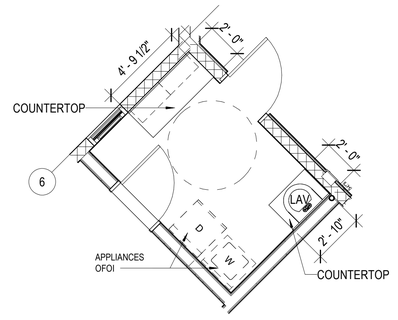
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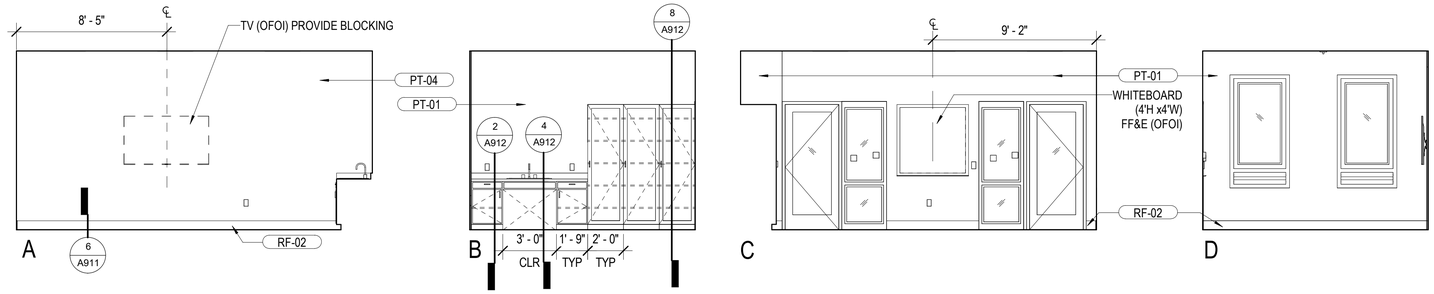
2 LAUNDRY RM (RM 55)

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



1 LAUNDRY RM (RM 55) - PLAN

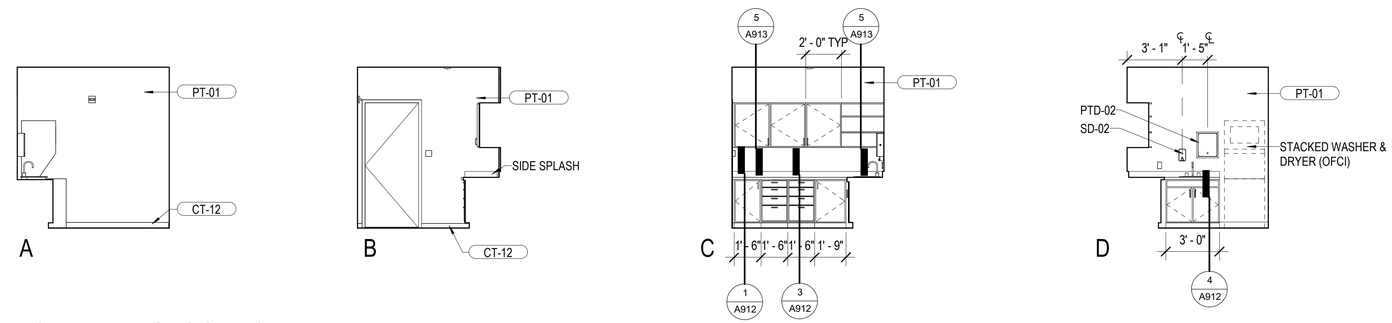
SCALE: 1/4" = 1'-0"



4 LARGE THERAPY/CRAFT (RM 56)

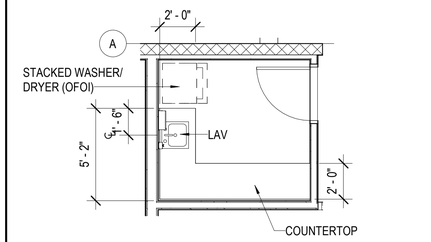
SCALE: 1/4" = 1'-0"

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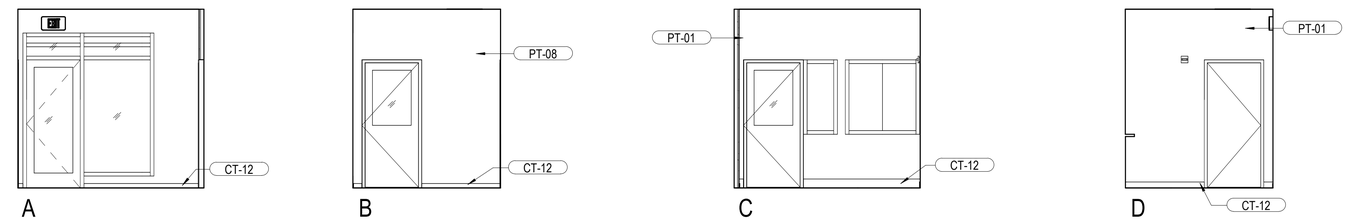
6 CR PAT BELONG (RM 5)

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



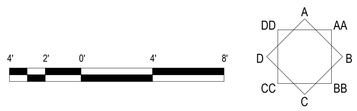
5 CR PAT BELONG (RM 5) - PLAN

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



8 CR LOBBY/WAITING (RM 6)

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



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TMK#: 4-6-014:113

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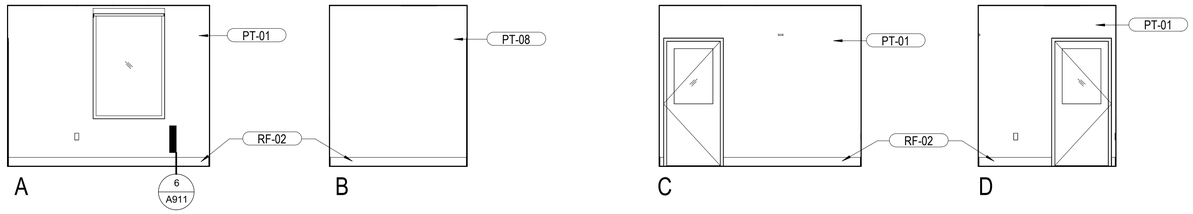
SHEET NAME
ENLARGED PLANS AND INTERIOR ELEVATIONS

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

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A510
SHEET ISSUE DATE	
08/08/2025	

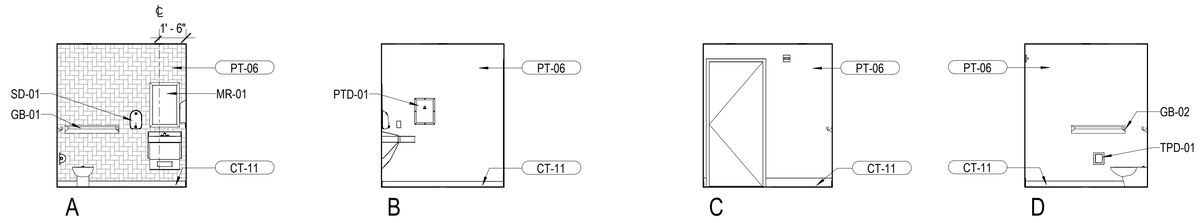
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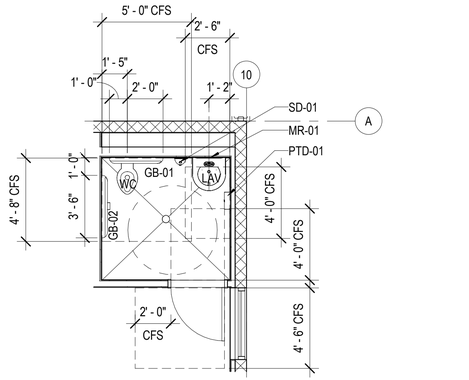
1 CR INTAKE CONSULT (RM 77)

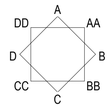
SCALE: 1/4" = 1'-0"



3 CR PATIENT TOILET (RM 78)

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

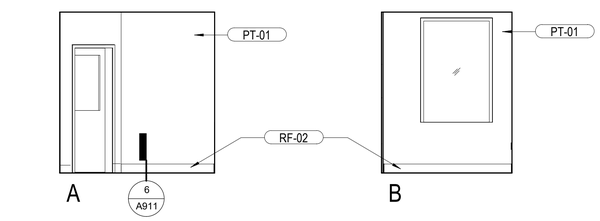


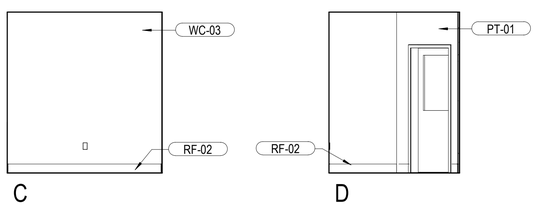


2 CR PATIENT TOILET (RM 78) - PLAN

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

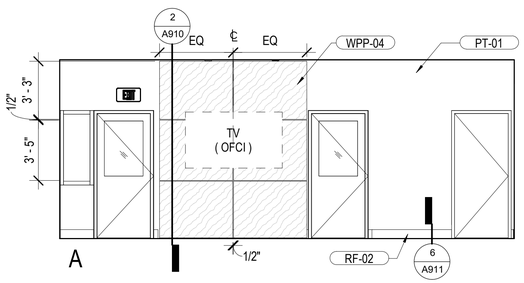
4' 2' 0' 4' 8'

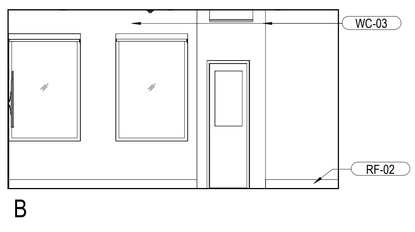


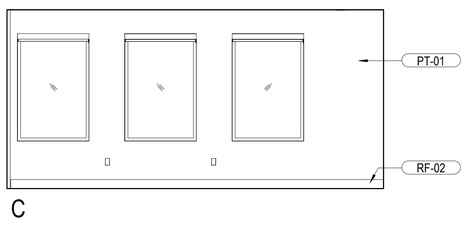


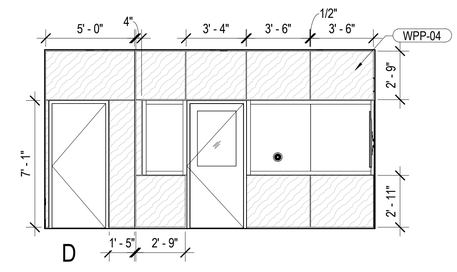
4 CR QUIET (RM 79)

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









5 CR OBSERVATION (RM 80)

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

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TMK#: 4-6-014:113

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SHEET NAME

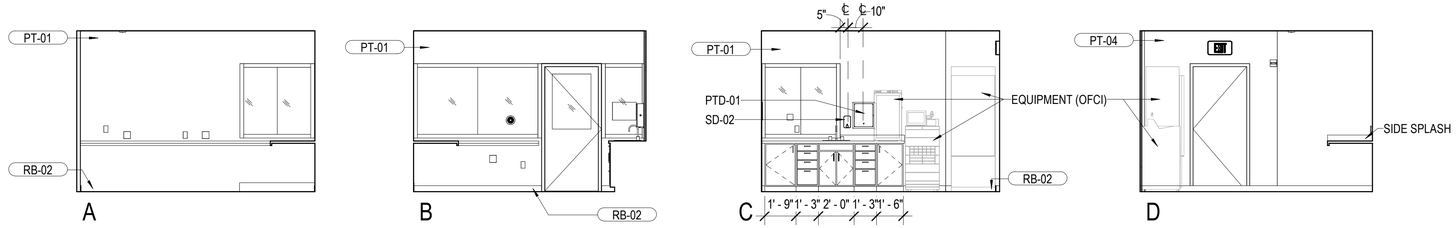
ENLARGED PLANS AND INTERIOR ELEVATION

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

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PROJECT NO.	SHEET NO.
221093-01	A511
SHEET ISSUE DATE	
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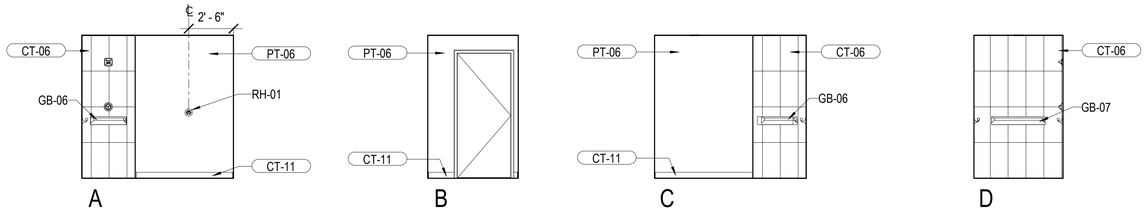
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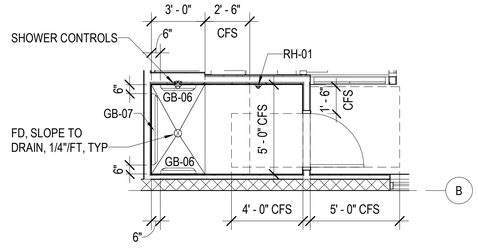
1 CR NURSE STATION (RM 81)

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



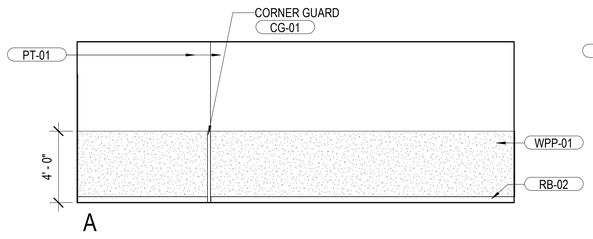
2 CR PAT SHW (RM 82)

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



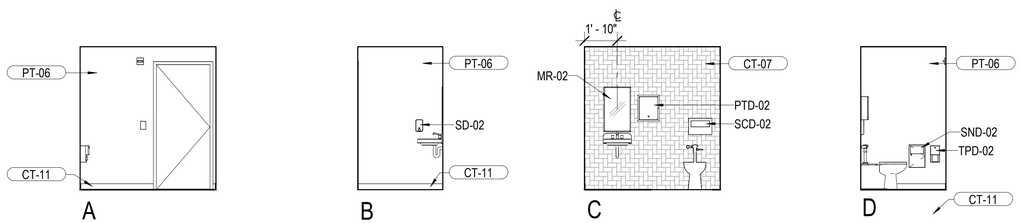
3 CR PAT SHW (RM 82) - PLAN

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



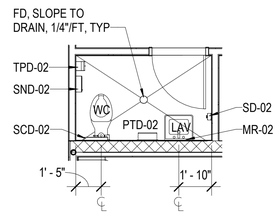
4 CR CORRIDOR (RM 3)

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



5 CR STAFF TLT (RM 7)

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



6 CR STAFF TLT (RM 7) - PLAN

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

4' 2' 0' 4' 8'

A
DD AA
D B
CC BB
C

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SHEET NAME

ENLARGED PLANS AND INTERIOR ELEVATION

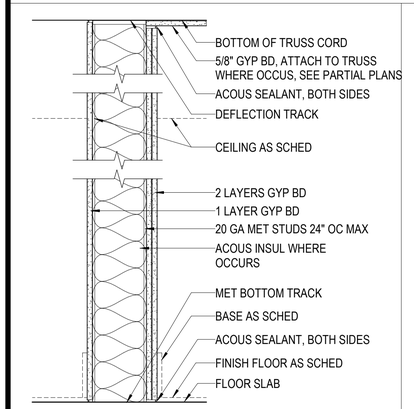
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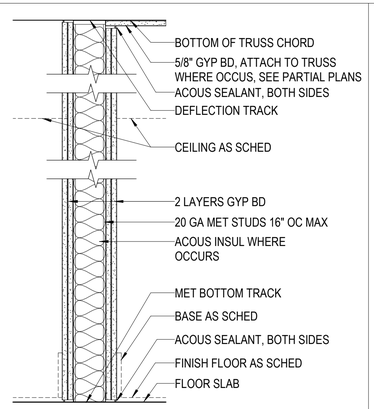
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PARTITION TYPES



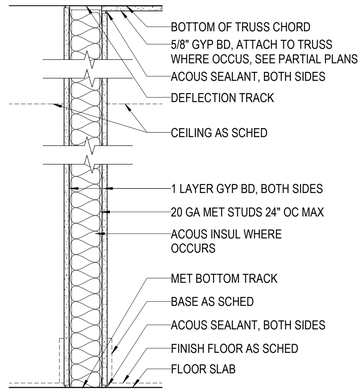
P6DA PARTITION W/ FULL HT GYP BD (ONE SIDE ONLY) W/ ACOUS INSUL (STC 45)



P3EA PARTITION W/ DOUBLE GYP BD W/ ACOUS INSUL (STC 45)

P6EA PARTITION W/ DOUBLE GYP BD W/ ACOUS INSUL (STC 50)

1P6EA 1-HR FIRED RATED PARTITION W/ DOUBLE GYP BD TO BOTTOM OF STRUCTURE W/ ACOUS INSUL (STC 50)

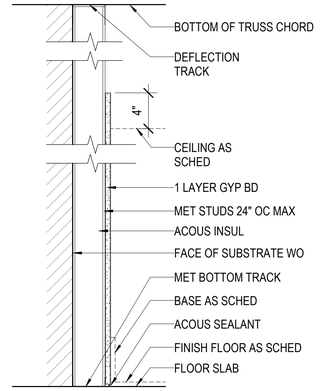


P3G PARTITION TO STRUCTURE

1P3G 1-HR FIRE RATED PARTITION TO BOTTOM OF STRUCTURE

P3GA PARTITION TO STRUCTURE W/ ACOUS INSUL (STC 40)

1P3GA 1-HR FIRE RATED PARTITION TO BOTTOM OF STRUCTURE W/ ACOUS INSUL (STC 40)



FH FURRED PARTITION TO 4" PAST CEILING

F2C FURRED PARTITION TO 4" PAST CEILING

F3C FURRED PARTITION TO 4" PAST CEILING

F6C FURRED PARTITION TO 4" PAST CEILING

P6GAX IMPACT-RESISTANT PARTITION W/ FULL HT GYP BD & ACOUS INSUL (STC 40)

P6DAX IMPACT-RESISTANT PARTITION W/ DOUBLE GYP BD ON ONE SIDE & ACOUS INSUL (STC 45)

1P6DAX 1-HR FIRE RATED IMPACT-RESISTANT PARTITION W/ DOUBLE GYP BD ON ONE SIDE & ACOUS INSUL (STC 45) TO BOTTOM OF STRUCTURE

*NOTE: 1 LAYER OF IMPACT-RESISTANT GYP BD, ONE SIDE ONLY AT SECLUSION RM (RM 62)

F3X IMPACT-RESISTANT PARTITION W/ GYP BD ON ONE SIDE

LEGEND:

1 P 3 A
- FIRE RATING (BLANK INDICATES NO FIRE RATING)
- CONSTRUCTION TYPE
- STUD SIZE
- MODIFIER(S) (BLANK INDICATES NO MODIFIER)

FIRE RATING
1 - 1 HOUR
2 - 2 HOUR
3 - 3 HOUR
NOTE: BLANK INDICATES NO FIRE RATING

CONSTRUCTION TYPE
C - CHASE PARTITION
F - FURRING
M - MASONRY
N - CONCRETE
P - BASIC METAL FRAMED PARTITION
S - SHAFT PARTITION
W - BASIC WOOD FRAMED PARTITION

METAL STUD SIZE
H - 7/8" HAT CHANNEL
1 - 1 5/8" MET STUDS
2 - 2 1/2" MET STUDS
3 - 3 5/8" MET STUDS
4 - 4" MET STUDS
6 - 6" MET STUDS
8 - 8" MET STUDS

MODIFIERS
A - ACOUSTIC INSULATION
B - GYP BD, TO UNDERSIDE OF BOTTOM TRUSS CHORD
C - GYP BD, 4" PAST CEILING
D - 2-LAYERS OF GYP BD, ONE SIDE ONLY
E - 2-LAYERS OF GYP BD, BOTH SIDES
F - FULL HEIGHT GYP BD, ONE SIDE
G - FULL HEIGHT GYP BD, BOTH SIDES
H - 3-LAYERS OF GYP BD, ONE SIDE ONLY
J - FULL HT GLASS MAT GYP BD ON ONE SIDE
L - LEAD LINED
M - KNEE WALL (_____" HIGH)
S - NO GYP BD, ONE SIDE ONLY
V - VENEER PLASTER
X - IMPACT RESISTANT GYP BD

NOTE: BLANK INDICATES NO MODIFICATIONS

GENERAL NOTES

1. PARTITION TYPE @ HEADERS: AT DOORS, GLAZED PARTITIONS, CASED OPENINGS, CONTINUE ADJACENT PARTITION TYPE.

2. PROVIDE GLASS MAT GYP BD FOR PAINTED PARTITIONS IN WET AREA SUCH AS KITCHEN, BATHROOM, JANITOR CLOSETS, MECHANICAL ROOM, ETC.

3. PROVIDE GLASS MT GYP BD FOR PARTITIONS RECEIVING CERAMIC TILE.

4. FOR ALL FIRE RATED PARTITIONS AND ANY NOTED w/ ACOUSTICAL INSULATION, THE FOLLOWING NOTES SHOULD APPLY:

A. ALL PENETRATIONS OF THE WALL SHOULD BE SEALED AIR TIGHT ON BOTH SIDES w/ ACOUSTICAL SEALANT OR FIRE STOPPING, AND THE CAVITY IN BETWEEN FILLED w/ LOOSE FIBERGLASS OR MINERAL WOOL.

B. ANY WALL OUTLETS FOR DATA, VOICE, VIDEO, POWER OR OTHER UTILITIES SHOULD BE SEPARATED BY AT LEAST ONE STUD CAVITY HORIZONTALLY TO AVOID BACK-TO-BACK OUTLETS.

C. ELEC. PANEL BOARDS, FEC, EYE WASH, ETC SHALL BE WRAPPED WITH FIRE RESISTIVE MATERIAL TO MAIN FIRE RESISTIVE CONSTRUCTION.

5. ACOUS. SEALANT BEADS @ 8" O.C. BETWEEN EACH GYP BD. LAYER;CONT SEALANT BEAD WHERE GYP BD MEETS STUD,TYP.
SEE DET -/---

6. FIRE RATED PARTITIONS AND SMOKE BARRIER PARTITIONS TO UNDERSIDE OF ROOF STRUCTURE. SEE LIFE SAFETY DIAGRAM.

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

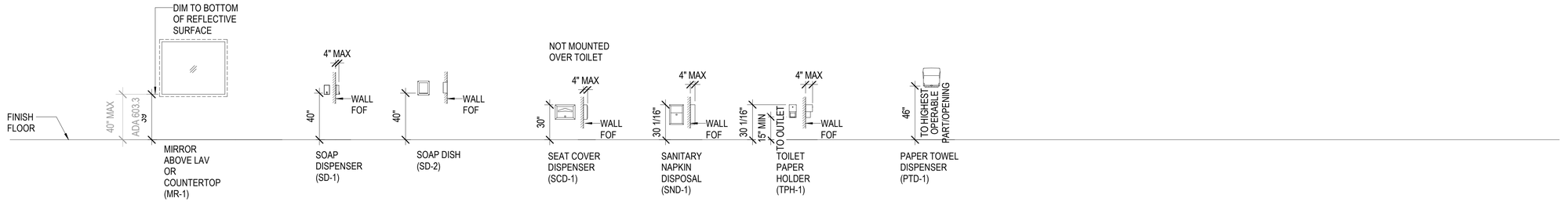
SHEET NAME
PARTITION TYPES

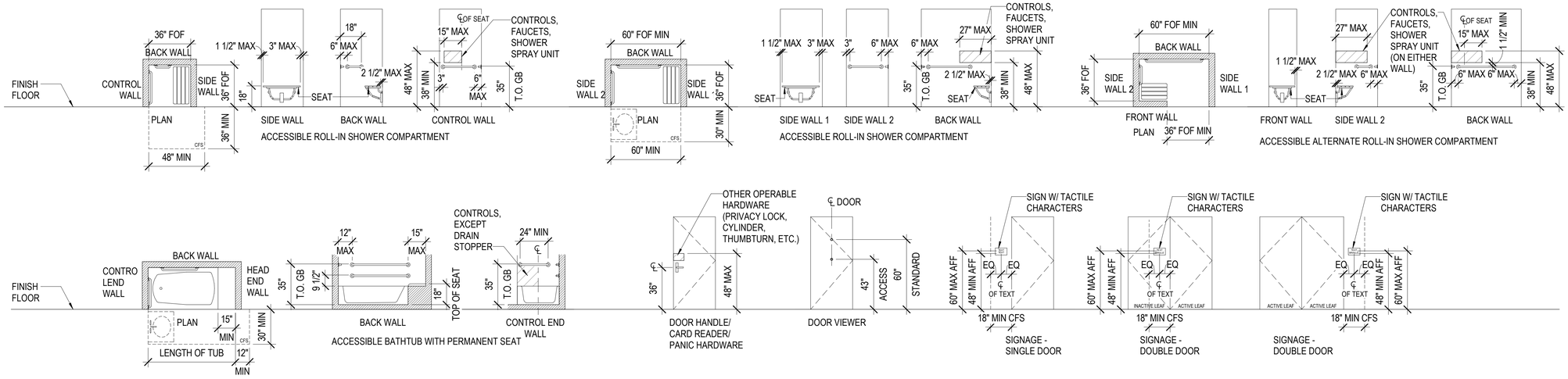
SCALE: As indicated

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A601
SHEET ISSUE DATE	
08/08/2025	

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NOTES:

1. ALL DIMENSIONS SHOWN ARE TO FINISH FLOOR.
2. PROVIDE BLOCKING IN WALL FOR FIXTURES AND ACCESSORIES.
3. SEE INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS NOT SHOWN.
4. CONTRACTOR TO VERIFY THAT THE ACCESSIBLE MOUNTING HEIGHTS MEET THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
5. REFER TO PLANS FOR ADA MANEUVERING CLEARANCES.

G70

111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

#	Date	Description

CD / BID SET

02/27/26

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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SHEET NAME
MOUNTING HEIGHT SCHEDULE

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

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A611
SHEET ISSUE DATE	
08/08/2025	

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COLOR AND MATERIAL FINISH SCHEDULE

FINISH TAG	MATERIAL DESCRIPTION	MANUFACTURER	MATERIAL NAME	MATERIAL SIZE	MATERIAL FINISH	NO/COLOR	LOCATION USED/REMARKS
ACT-01	ACOUSTIC CEILING TILE	USG INTERIORS, INC	ECLIPSE (SLT)	24"x24"X 1" THICK	-	STANDARD WHITE	STAFF/ OUTPATIENT/ PATIENT AREAS/BOH
ACT-02	ACOUSTIC CEILING TILE	USG INTERIORS, INC	ECLIPSE (SLT)	24"x48" X 1" THICK	-	STANDARD WHITE	CORRIDORS/ DAYROOM
AP-01	ACOUSTIC PANEL	LAMVIN	SONIC TACKABLE WALL PANEL	1" THICK X SEE ELEVATIONS	SQUARE EDGE	WRAPPED IN FAB-01	CONFERENCE ROOM
CG-01	CORNER GUARD	INPRO	160BN BLUENOSE HIGH IMPACT	2" WING X 0.080" THICK	-	PEBBLE GREY 0387	STAFF/SALLYPORT CORRIDORS
CPT-01	CARPET	SHAW OR SIM	PONDER #5T596	24"X24"X 0.238" THICK	SEE SPEC	CULTIVATE #93580	OFFICE/OUTPATIENT/SECURITY ROOM
CT-01	PORCELAIN TILE	MARAZZI	MERONA	8"X40" X 5/16" THICK	MATTE	BROWN MR42	LOBBY/CR LOBBY/PATIENT BELONGINGS/EXTERIOR/ FLOORING AT PUBLIC RESTROOMS
CT-03	PORCELAIN TILE	DALTILE OR EQ	KEYSTONE	2"x 1" X 1/4" THICK	MATTE	MARBLE D32/,BISCUIT D317/ LUMINARY GOLD D142	STAFF/ CR RESTROOMS/ PATIENT RESTROOM FLOOR TILE- CUSTOM MESH BLEND AT 80%, 10%, 10%- SEE FINISH PLAN
CT-06	PORCELAIN TILE	DALTILE OR EQ	CALGARY	12"X24" X 5/16" THICK	MATTE	LEGACY #CG40	STAFF/ CR RESTROOMS/ PATIENT WALL TILE/ FOOR AT CR LOBBY & CR PATIENT BELONGINGS- SEE FINISH PLAN & ELEVATIONS
CT-07	CERAMIC TILE	DALTILE OR EQ	COLORWHEEL	3" X 6" X 5/16" THICK	POLISHED	BISCUIT #K175	PUBLIC/ STAFF RESTROOM MAIN WALL TILE- SEE ELEVATIONS
CT-08	CERAMIC TILE	DALTILE OR EQ	COLORWHEEL	3" X 6" X 5/16" THICK	GLOSSY	SPA #0148	PUBLIC/ STAFF RESTROOM ACCENT WALL TILE - SEE ELEVATIONS
CT-09	CERAMIC TILE- BULLNOSE	DALTILE OR EQ	COLORWHEEL S4369MOD	3" X 6" X 5/16" THICK	GLOSSY	BISCUIT S4369MOD	RESTROOM WALL BASE- SEE ELEVATIONS
CT-10	CERAMIC TILE- BULLNOSE	DALTILE OR EQ	COLORWHEEL S4369MOD	3" X 6" X 5/16" THICK	GLOSSY	SPA S4369MOD	RESTROOM WALL BASE- SEE ELEVATIONS
CT-11	PORCELAIN TILE- BULLNOSE	DALTILE OR EQ	KEYSTONE S886	2" X 2"	MATTE	BISCUIT D317	RESTROOM WALL BASE- SEE ELEVATIONS
CT-12	PORCELAIN TILE - BULLNOSE	DALTILE OR EQ	CALGARY	3" X 12" X 5 1/6" THICK	MATTE	FAWN CG41	BASE AT CR LOBBY/ CR PATIENT BELONGINGS
DR-01	DOOR	VT INDUSTRIES	-	-	FINE VELVET	HARVEST MAPLE 7953	DOORS AT STAFF/ OUTPATIENT AREAS
DR-02	DOOR	CURRIES/ ASSA ABLOY	-	-	FACTORY FINISH	NIGHT RENDEZVOUS 1037-5	DOORS AT PATIENT / OUTPATIENT AREAS
DR-03	DOOR	CURRIES/ ASSA ABLOY	-	-	METAL PAINTED	DARK ASH 1025-5	DOORS AT PATIENT/ OUTPATIENT AREAS
DR-04	DOOR	CURRIES/ ASSA ABLOY	-	-	SMOOTH GRAIN	JAVA	DOORS AT STAFF/ OUTPATIENT AREAS
DR-05	DOOR	KINGSWAY	-	-	MATTE TEXTURE	WINTER SKY 8792-58	DOORS AT PATIENT AREAS
FAB-01	FABRIC	CARNEGIE XOREL	METEOR 6427	-	-	766	AT ACOUSTIC WALL PANEL AT CONFERENCE ROOM
GT-01	GROUT	LATICRETE OR SIM	--	SEE SPEC	SEE SPEC	CHESTNUT BROWN 66	GROUT AT LOBBY/ CR LOBBY/ PATIENT BELONGINGS
GT-02	GROUT	LATICRETE OR SIM	--	SEE SPEC	SEE SPEC	FOSSIL 93	GROUT AT RESTROOMS WALLS
GT-03	GROUT	LATICRETE OR SIM	--	SEE SPEC	SEE SPEC	ANTIQUE WHITE 23	GROUT AT RESTROOMS FLOORS
HDW-01	DECORATIVE HARDWARE	AMEROCK	RIFT CABINET PULL BP36900G10	1/2" W X 5 6/16" L	SATIN NICKLE	CABINETRY HARDWARE	CONFERENCE ROOM
HDW-02	DECORATIVE HARDWARE	TOP KNOBS	EUROPA MERCER TK502	5" W X 1 5/8" PROJECTION	FLAT BLACK	CONFERENCE ROOM CABINETRY	CONFERENCE ROOM
MTL-01	WOOD- LOOK METAL	ARMSTRONG OR EQ	METALWORKS LINEAR SYNCHRO	4"W X SEE RCP	SMOOTH M1	EFFECTS CHERRY	LOBBY/ EXTERIOR
PL-01	PLASTIC LAMINATE	WILSONART OR EQ	STANDARD LAMINATE	--	SOFT GRAIN FINISH	WALNUT HEIGHTS #7965	ALL CABINETRY
PT-01	PAINT	SHERWIN WILLIAMS	--	--	EGGSHELL	SHOJI WHITE #7042	GENERAL WALL PAINT
PT-02	PAINT	SHERWIN WILLIAMS	--	--	FLAT	SNOWBOUND #7004	GENERAL CEILING/SOFFIT
PT-03	PAINT	SHERWIN WILLIAMS	--	--	EGGSHELL	AQUATANTE #9057	ACCENT PAINT AT STAFF/ OUTPATIENT AREAS- SEE ELEVATIONS
PT-04	PAINT	SHERWIN WILLIAMS	--	--	EGGSHELL	SOFTENED GREEN # 6177	ACCENT PAINT AT PATIENT AREAS / NURSES STATION/ CR - SEE ELEVATIONS
PT-05	PAINT	SHERWIN WILLIAMS	--	--	EGGSHELL	SPRING BREAK #627	ACCENT PAINT AT LOBBY/CR LOBBY/CONFERENCE ROOM - SEE ELEVATIONS
PT-06	PAINT	SHERWIN WILLIAMS	--	--	SEMIGLOSS	SNOWBOUND #7004	WALL PAINT AT STAFF/PUBLIC RESTROOMS
PT-08	PAINT	SHERWIN WILLIAMS	--	--	EGGSHELL	DELFT #9137	WALL PAINT AT QUIET ROOM/ CR & CONSULT
PT-10	PAINT	SHERWIN WILLIAMS	--	--	SEMIGLOSS	QUIVER TAN #6151	GENERAL DOOR TRIM PAINT
PT-11	PAINT	SHERWIN WILLIAMS	DUR-A- WALL HP	--	EPOXY	SNOWBOUND #7004	WALL PAINT AT PATIENT RESTROOMS
PT-12	PAINT	SHERWIN WILLIAMS	--	--	SEMIGLOSS	ROYCROFT BRASS #2843	INTERIOR WINDOW TRIM PAINT
PT-13	PAINT	BENJAMIN MOORE	--	--	SEMIGLOSS	CAMBRIDGE RIVERBED #1035	PAINT AT WM-01 AT LOBBY
PT-14	PAINT	SHERWIN WILLIAMS	--	--	SEMI-GLOSS	WATERLOO # 9141	INTERIOR DOOR TRIM PAINT
PT-15	PAINT	SHERWIN WILLIAMS	--	--	SEMI-GLOSS	TEAL STENCIL #0018	ACCENT PAINT AT LARGE CONFERENCE ROOM - SEE ELEVATIONS
RB-02	RUBBER BASE	JOHNSONITE OR EQ	TRADITIONAL WALL BASE	4"	--	WETLANDS #150	STAFF/ OUTPATIENT/ BOH/ CR
RF-01	RESILIENT TILE FLOORING	MANNINGTON OR EQ	TELES	17.5' X 17.5" X 1/8" THICK	--	MISTY BAY #857T	STAFF AREAS/ BOH/ SUPPORT/ UTILITY/ CR
RF-02	RESILIENT SHEET FLOORING/BASE	MANNINGTON OR EQ	REALITIES III	12'W X 0.080" THICK	--	MAPLE CREEK DRUMMOND 5693R	PATIENT AREAS/ CR
RF-03	RESILIENT SHEET FLOORING/BASE	MANNINGTON OR EQ	REALITIES III	12'W X 0.080" THICK	--	MAPLE CREEK NORWAY 5691R	PATIENT AREA WAYFINDING
RF-04	RESILIENT SHEET FLOORING	GERFLOR	TARAFLEX	4'-11"W X 0.244" THICK X SEE SPEC	--	6392 WOOD CHOCOLATE	SECLUSION ROOM FLOOR
SC-01	SEALED CONCRETE	-	-	-	-	-	ELECTRICAL/FIRE/STORAGE/EQUIPMENT STORAGE/ EXITS/CHASES/HW
SDT-01	STATIC DISSIPATIVE FLOORING	ARMSTRONG	EXCELON	12"X12"X 1/8" THICK	--	ARMOR GRAY #51951	SECURITY/DATA
SP-01	SAFETY PADDING	MARATHON ENGINEERING CORPORATION.	GOLD METAL SAFETY PADDING	--	SEE SPEC	SEE SPEC	SECLUSION ROOM WALLS
SS-01	QUARTZ SURFACE	CAMBRIA OR EQ	CLASSIC SERIES	--	POLISHED	SNOWDON WHITE	NICHE AT LOBBY, CONFERENCE ROOM
SS-02	SOLID SURFACE	CORIAN OR EQ	SOLID SURFACE	--	POLISHED	SERENE SAGE	BREAKROOM, MEDS, NOURISH, NURSES, SECURITY, LARGE THERAPY & CR
THR-01	THRESHOLD	DALTILE OR EQ	TBD	TBD	TBD	TBD	TBD
WC-01	WALLCOVERING	NOHO HOME	CUSTOM WALLCOVERING PRINT ON WPP-06	SEE SPEC	TYPE II PVC FREE VINYL	-	ACCENT WALLCOVERING AT LOBBY/SEE DESIGNER CONTROL SAMPLE
WC-02	WALLCOVERING	KOROSEAL OR EQ	GILDED LINEN	SEE SPEC	SEE SPEC	REVERENCE 6922-32	WALLCOVERING AT PUBLIC RESTROOM
WC-03	WALLCOVERING	NOHO HOME OR EQ	CUSTOM WALLCOVERING PATTERN-KUPU-KUPU	SEE SPEC	TYPE II PVC FREE VINYL	-	WALLCOVERING AT PATIENT AREAS/ CR
WC-04	WALLCOVERING	KOROSEAL OR EQ	REATEC FILM	40" W X SEE SPEC	FLAT GRAIN	WALNUT SW-5636	NURSE STATION FACE/ CR- SEE ELEVATIONS
WM-01	WOOD BASE MOULDING	BOISE MOULDING & LUMBER CO., INC.,	BASE 1509	11/16 X 5 1/2" X SEE INTERIOR DETAILS	POPLAR	PT-13	WOOD BASE MOULDING AT LOBBY/ CR
WPP-01	WALL PROTECTION PANEL	3PTEC OR EQ	SIMPLICITY	0.033" THICK X SEE SPEC	SEE SEPC	PEBBLE P3T60074	WALL WAINSCOTING AT STAFF/SALLYPORT CORRIDORS
WPP-02	WALL PROTECTION PANEL	3PTEC OR EQ	SIMPLICITY	0.033" THICK X SEE SPEC	SEE SPEC	CLOUD-60070	FULL WALL AT PATIENT CORRIDORS/ NURSE STATION FACE CR- SEE ELEVATIONS
WPP-03	WALL PROTECTION PANEL	KOROSEAL OR EQ	KOROGUARD	0.040" THICK X SEE SPEC	PI DUNE	SPRING EVE FY	WALL AT PATIENT CORRIDORS/NOURISH/CLEAN RM/ SOILED RM/HSKP - SEE ELEVATIONS
WPP-04	WALL PROTECTION PANEL	MARLITE	SIEVA WALL SYSTEM	SEE SPEC	MATTE TEXTURE	AGED ASH 8844H-58	CR OBSERVATION/ PATIENT MEDIA CONSOLE WALL- SEE ELEVATIONS
WPP-05	WALL PROTECTION PANEL	MARLITE	SIEVA WALL SYSTEMS	SEE SPEC	FINE VELVET	HARVEST MAPLE 7953	LOBBY WALL - SEE ELEVATIONS
WPP-06	WALL PROTECTION PANEL	MARLITE	ARTIZAN MAX	SEE SPEC	-	WC-01	LOBBY WALL - SEE ELEVATIONS
WT-01	WINDOW TREATMENT	MECHOSHADE	ECOVEIL	SEE SPEC	-	WHITE 1751 - 1%	CONFERENCE/ STAFF AREAS

SCHEDULE NOTES

REFERENCE NOTES:

1. SEE FLOOR FINISH PLANS FOR LOCATION OF FINISHES

2. SEE INTERIOR ELEVATIONS FOR LOCATION OF FINISHES

3. TRIMS INCLUDE BUT ARE NOT LIMITED TO DOOR PANEL, DOOR FRAME, HANDRAILS, WD TRIMS; UNLESS OTHERWISE INDICATED OR SPECIFIED

4. SEE REFLECTED CEILING PLAN FOR LOCATION OF FINISHES

NOTES:

1.PROVIDE CRACK SUPRESSION MEMBRANE AT ALL STONE FLOOR LOCATIONS

2.PROVIDE EXPANSION JOINTS PER TCA RECOMMENDATIONS FOR ALL STONE FLOORING. VERIFY JOINT LOCATIONS WITH ARCHITECT.

3.FOR ALL WOOD FLOORS, PROVIDE HARDWOOD T&G FLOORING ON 3/4" THICK EXTERIOR PLYWOOD ON 30# FELT ADHERED TO CONCRETE SLAB.

4. REFER TO INTERIOR ELEVATIONS FOR PAINT COLOR.

FINISH SCHEDULE NOTES:

1. "( )" IN A SCHEDULE DENOTES A REMARK. SEE REMARKS COLUMN AND REMARKS LIST. ORDER OF NUMBERS IN REMARKS COLUMN IS AS THEY OCCUR FROM LEFT TO RIGHT ON SCHEDULE.

2. - SHOWN ON A SCHEDULE INDICATES FEATURE NOT REQUIRED.

3.MATERIAL (MAT):
C= REINFORCED CONCRETE SLAB
WD= WOOD
WB= WOOD BASE
GB= GYPSUM BOARD
GBX= TYPE 'X' GYPSUM BOARD
MT= GRASS MATS AND HARDWOOD TRIMS
T= TRIM
CM= CROWN MOULDING

4. FINISH (FIN):

ACT-= ACOUSTIC CEILING TILE
CPT-= CARPET TILE
CT-= CERAMIC TILE
DEFS-= DIRECT EXTERIOR FINISH SYSTEM
MTL-= METAL
GT- = GROUT
PL- = PLASTIC LAMINATE
PT-= PAINT
RB-= RUBBER BASE
RF-= RESILIENT FLOORING
SC-= SEALED CONCRETE
SDT-= STATIC DISSIPATIVE FLOORING
SP-= SAFETY PADDING
SS-= SOLID SURFACE
ST- = STONE
WC-= WALLCOVERING
WPP-= WALL PROTECTIVE PANEL
WT-= WINDOW TREATMENT

G70
111 S. KING STREET, SUITE 170
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808.523.5866
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REVISIONS

#	Date	Description

CD / BID SET
02/27/26

This work was prepared by me or under my supervision and construction of this project will be under my observation

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SHEET NAME
COLOR AND MATERIAL FINISH SCHEDULE

SCALE:

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ROOM FINISH SCHEDULE

SEE ROOM FINISH REFERENCE NOTES FOR NOTES CORRESPONDING TO NUMBERS IN COLUMN HEADERS

ROOM NO.	ROOM NAME/DESCRIPTION	FLOOR FINISH	BASE FINISH	WALL FINISH	TRIM FINISH	CEILING FINISH	REMARKS
1	IP LOBBY	CT-01	WM-01	PT-01, PT-05, WC-01	-	MTL-01	
2	ALCOVE	CT-01	WM-01	PT-01, PT-05	-	PT-0	
3	STAFF CORRIDOR	RF-01	RB-02	PT-01	-	ACT-02	
4	CONFERENCE	CPT-01	RB-02	PT-01/AP-01	-	ACT-01	
5	CR PAT BELONG	CT-01	WM-01	PT-01			
6	CR LOBBY/ WAITING	CT-01	WM-01	PT-01/WC-03			
7	STAFF TLT	CT-03	CT-11	PT-06/CT-07	-	ACT-01	
8	DATA ROOM	SDT-01	RB-02	PT-01	-	-	
9	TLT ADA	CT-01	WM-01	CT-07, CT-08, PT-06/ WC-02	-	PT-02	
10	SALLYPORT	RF-01	RB-02	PT-01/WPP-01	-	ACT-02	
11	SECURITY TLT ADA	CT-03	CT-11	CT-07, PT-06	-	PT-02	
12	CORRIDOR	RF-01	RB-02	PT-01/WPP-01	-	ACT-02	
13	EQUIPMENT ROOM	RF-01	-	PT-01/WPP-03	-	ACT-01	
14	BREAK ROOM	RF-01	RB-02	PT-01, PT-03	-	PT-02	
15	TLT & SHW	CT-03	CT-11	CT-06, CT-07, PT-06	-	PT-02	
16	STAFF CORRIDOR	RF-01	RB-02	PT-01, WPP-01	-	ACT-01	
16	STAFF CORRIDOR	RF-01	RB-02	PT-01/WPP-01	-	ACT-02	
17	CORRIDOR	RF-01	RB-02	PT-01/WPP-01	-	ACT-02	
17	OFFICE (1)	CPT-01	RB-02	PT-01, PT-03	-	ACT-01	
18	OFFICE (1)	CPT-01	RB-02	PT-01, PT-03	-	ACT-01	
19	OFFICE (1)	CPT-01	RB-02	PT-01, PT-03	-	ACT-01	
20	SHARED OFFICE (2)	CPT-01	RB-02	PT-01/PT-03	-	ACT-02	
21	EXIT 3	SC-01	-	-			
22	COPIER WRKRM	RF-01	RB-02	PT-01	-	ACT-02	
23	ELEC PANEL	RF-01	RB-02	PT-01	-	PT-02	
24	HSKP	SC-01	RB-02	PT-01/WPP-03		ACT-01	
25	CHART	RF-01	RB-02	PT-01	-	ACT-01	
26	TLT	CT-03	CT-11	CT-07, PT-06	-	PT-02	
27	MED RM	RF-01	RB-02	PT-01	-	ACT-01	
28	CONSULT	RF-02	RF-02	PT-01/PT-08	-	ACT-01	
29	PATIENT ROOM 6	RF-02	RF-02	PT-01/PT-04	-	PT-02	
30	PATIENT ROOM 5	RF-02	RF-02	PT-01/PT-04	-	PT-02	
31	PATIENT ROOM 3	RF-02	RF-02	PT-01/PT-04	-	PT-02	
32	PATIENT ROOM 1	RF-02	RF-02	PT-01/PT-04	-	PT-02	
33	CORRIDOR	RF-02	RF-02	PT-01/WPP-02, WPP-03	-	ACT-02	
34	PATIENT ROOM 2	RF-02	RF-02	PT-01/PT-04	-	PT-02	
35	EXIT 1	SC-01	-	-	-	ACT-01	
36	PATIENT ROOM 4 (ADA)	RF-02	RF-02	PT-01/PT-04	-	PT-02	
37	TLT/SHWR ADA	CT-03	CT-11	CT-06, PT-11	-	PT-02	
38	SHW	CT-03	CT-11	CT-06, PT-11	-	PT-02	
39	TLT	CT-03	CT-11	CT-06, PT-11	-	PT-02	
40	NURSE STATION	RF-01	RB-02	PT-01, PT-04	-	ACT-01	
41	DAYROOM	RF-02, RF-03	RF-01/RF-02	PT-01,PT-04/ WC-03, WC-04, WPP-02, WPP-04	-	ACT-02/PT-02	
42	TEL	RF-02	RF-02	PT-01	-	PT-02	
43	TLT ADA	CT-03	CT-11	CT-06, PT-11	-	PT-02	
44	TLT	CT-03	CT-11	CT-06, PT-11	-	PT-02	
45	SHW	CT-03	CT-11	CT-06, PT-11	-	PT-02	
46	TLT/SHWR ADA	CT-03	CT-11	CT-06, PT-11	-	PT-02	
47	PATIENT ROOM 7	RF-02	RF-02	PT-01/PT-04	-	PT-02	
48	PATIENT ROOM 9	RF-02	RF-02	PT-01/PT-04	-	PT-02	
49	CORRIDOR	RF-02	RF-02	PT-01/WPP-02, WPP-03	-	ACT-02	
50	PATIENT ROOM 10	RF-02	RF-02	PT-01/PT-04	-	PT-02	
51	EXIT 2	SC-01	-	PT-04	-	ACT-01	
52	PATIENT ROOM 8 (ADA)	RF-02	RF-02	PT-01/PT-04	-	PT-02	
53	HSKP	RF-01	RB-02	PT-01, WPP-03	-	ACT-01	
54	QUIET	RF-02	RF-02	PT-01, PT-08	-	PT-02	
55	LAUNDRY	RF-01	RB-02	PT-01	-	ACT-01	
56	LARGE THERAPY/ CRAFT	RF-02	RF-02	PT-01	-	ACT-01	
57	NOURISH	RF-01	RB-02	PT-01, WPP-03	-	ACT-01	
58	CLEAN	RF-01	RB-02	PT-01, WPP-03	-	ACT-01	
59	ANTE	CT-03	CT-11	PT-01	-	PT-02	
60	TLT & SHW	CT-03	CT-11	PT-11/CT-06	-	PT-02	
61	CORRIDOR	RF-01	RB-02	PT-01, WPP-01	-	ACT-02	
62	SECLUSION	RF-04	-	SP-01	-	PT-02	
63	VISIT/TELE	RF-01	RB-02	PT-01/PT-04	-	PT-02	
64	VISIT/INTAKE/DISCHARGE	RF-01	RB-02	PT-01/PT-04	-	ACT-01	
65	HW	SC-01	RB-02	PT-01/WPP-03	-	PT-02	
66	SOILED	RF-01	RB-02	PT-01, WPP-03	-	PT-02	
67	TRASH	SC-01	RB-02	PT-01	-	PT-02	
68	VESTIBULE	RF-01	RB-02	PT-01	-	ACT-01	
69	FIRE	SC-01	RB-02	PT-01	-	PT-02	
70	IP PAT BELONG	RF-01	RB-02	PT-01	-	ACT-01	
71	ELEC	SC-01	RB-02	PT-01	-	PT-02	
72	SALLYPORT	RF-01	RB-02	PT-01/WPP-01	-	ACT-02	
73	SECURITY	CPT-01	RB-02	PT-01	-	ACT-01	
74	SECURITY/ ELECTRONICS	SDT-01	RB-02	PT-01	-	PT-02	
75	TRANSPORT LOBBY	RF-01	RB-02	PT-01	-	ACT-01	
76	SECURED YARD	CT-01	-	DEFS-01/DEFS-02	-	DEFS-02	
77	CR INTAKE/CONSULT	RF-02	RF-02	PT-01/WC-03		ACT-01	
78	CR PATIENT TOILET	CT-03	CT-11	CT-06/PT-11		PT-01	
79	CR QUIET ROOM	RF-02	RF-02	PT-01/PT08	-	ACT-02	
80	CR OBSERVATION	RF-02	RF-02	PT-01/WPP-04/WPP-02/PT-04		ACT-02	
81	CR NURSE STATION	RF-01	RB-02	PT-01, PT-04	-	ACT-01	
81	INTAKE/ CONSULT	RF-02	RF-02	PT-01/WC-03			
82	CR PATIENT SHOWER	CT-03	CT-11	PT-11/CT-06		PT-01	
83	OFFICE (1)	CPT-01	RB-02	PT-01/PT-03			
84	OFFICE (1)	CPT-01	RB-02	PT-01/PT-03			
85	STORAGE	RF-01	RB-02	PT-01			

G70

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REVISIONS

#	Date	Description

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
ROOM FINISH SCHEDULE

SCALE:

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PROJECT NO.	SHEET NO.
221093-01	A622
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08/08/2025	

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BATH ACCESSORY SCHEDULE

MARK	ITEM DESCRIPTION	MANUFACTURER	MODEL #	DIMENSIONS	IMAGE	FINISH	LOCATION
GB-01	LIGATURE RESISTANT GRAB BARS	KINGSWAY	KG274LH	3' - 0" W X 5 7/16" H X 4 1/16" D		RAL 9003 SIGNAL WHITE	PATIENT BATHS
GB-02	LIGATURE RESISTANT GRAB BARS	KINGSWAY	KG276LH	3' - 6" W X 5 7/16" H X 4 1/16" D		RAL 9003 SIGNAL WHITE	PATIENT BATHS
GB-03	STRAIGHT GRAB BARS, 1/4" DIAMETER	BOBRICK	B-5806X42	3' - 9" W X 3/14" H X 1 1/2" D		SATIN STAINLESS STEEL	STAFF/ PUBLIC BATHS
GB-04	STRAIGHT GRAB BARS, 1/4" DIAMETER	BOBRICK	B-5806X36	3' - 3"W X 3/14" H X 1 1/2" D		SATIN STAINLESS STEEL	STAFF/ PUBLIC BATHS
GB-05	STRAIGHT GRAB BARS, 1/4" DIAMETER	BOBRICK	B-5806X18	1' - 9" W X 3/14" H X 1 1/2" D		SATIN STAINLESS STEEL	STAFF/ PUBLIC BATHS
GB-06	LIGATURE RESISTANT GRAB BARS	KINGSWAY	KG272LH	2' - 0" W X 5 7/16" H X 4 1/16" D		RAL 9003 SIGNAL WHITE	PATIENT BATHS
GB-07	LIGATURE RESISTANT GRAB BARS	KINGSWAY	KG278LH	4' - 0" W X 5 7/16" H X 4 1/16" D		RAL 9003 SIGNAL WHITE	PATIENT BATHS
MR-01	LIGATURE RESISTANT MIRROR	KINGSWAY	KG231	18 1/8" W X 36 1/8" H X 1/2" D		POWDER COATED ALUMINUM	PATIENT BATHS
MR-02	MIRROR WITH STAINLESS STEEL CHANNEL FRAME	BOBRICK	B-165 1824	18" W X 24" H X 3/4" D		STAINLESS STEEL	STAFF BATHS
MR-03	ELVARI FRAME AND FRAMELESS MIRROR	BRADLEY	7B1-0018300	18" W X 30" H X 1/4" D		STAINLESS STEEL	PUBLIC BATH
PTD-01	LIGATURE RESISTANT TRI-FOLD PAPER TOWEL DISPENSER	BEHAVIORAL SAFETY	PH250	12" W X 13.625" H X 4" D		WHITE	PATIENT BATHS
PTD-02	SURFACE MOUNTED AUTOMATIC, UNIVERSAL ROLL PAPER TOWEL DISPENSER	BOBRICK	B-2974	12 5/8" W X 15 1/2" H X 9 1/16" D		SATIN STAINLESS STEEL	STAFF/ PUBLIC BATHS
RH-01	ANTI-LIGATURE COAT HOOK	KINGSWAY	KG180	2 9/16" DIA X 1 1/8" D		KG180CR (CREAM)	PATIENT BATHS
RH-02	SURFACE MOUNTED ROBE HOOK	BOBRICK	B-76717	2W" X 2" H X 1 5/8" D		SATIN STAINLESS STEEL	STAFF/ PUBLIC BATHS
SCD-02	SEAT COVER DISPENSER	BRADLEY	5831	15 3/4" X 11" H X 2" D		SEE SPECS	STAFF/ PUBLIC BATHS
SD-01	LIGATURE RESISTANT SOAP DISPENSER	BEHAVIORAL SAFETY	SD755	7 7/8" W X 12 5/8" D X 5 5/32" D		WHITE	PATIENT BATHS
SD-02	SURFACE MOUNTED SOAP DISPENSER	BOBRICK	B-2111	4 3/4" W X 6 1/2" H X 3 1/2" D		SATIN STAINLESS STEEL	STAFF/ PUBLIC BATHS
SND-02	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK	B-270	7 1/2" W X 10" H X 3 13/16" D		SATIN STAINLESS STEEL	STAFF/ PUBLIC BATHS
TPD-01	LIGATURE RESISTANT TOILET PAPER DISPENSER	BEHAVIORAL SAFETY	TR230	7 3/4" W X 10 1/2" H X 5 1/2" D		WHITE	PATIENT BATHS
TPD-02	SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER	BOBRICK	B-2888	6 1/16" W X 11" H X 5 15/16" D		STAINLESS STEEL	STAFF/ PUBLIC BATHS
WS-01	RECESSED WASHROOM SHELF	KINGSWAY	G12K	10" W X 12" H X 3 5/8" D		STAINLESS STEEL	PATIENT BATHS

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TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

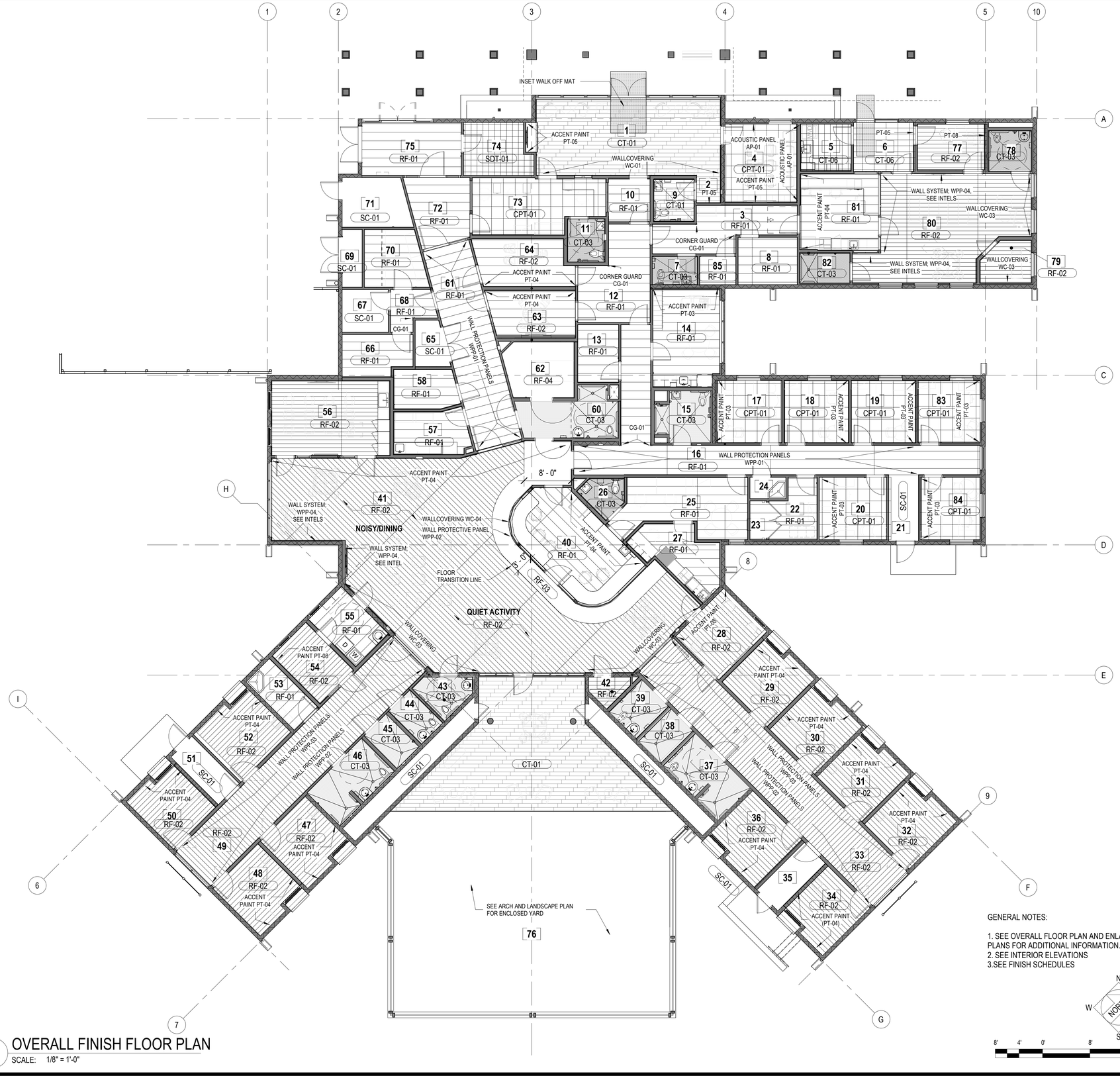
SHEET NAME
BATH ACCESSORY SCHEDULE

SCALE:

DRAWN BY	CHECKED BY
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PROJECT NO.	SHEET NO.
221093-01	A623
SHEET ISSUE DATE	
08/08/2025	

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1 OVERALL FINISH FLOOR PLAN
SCALE: 1/8" = 1'-0"

ROOM NO.	ROOM NAME
1	IP LOBBY
2	ALCOVE
3	STAFF CORRIDOR
4	CONFERENCE
5	CR PAT BELONG
6	CR LOBBY/ WAITING
7	STAFF TLT
8	DATA ROOM
9	TLT ADA
10	SALLYPORT
11	SECURITY TLT ADA
12	CORRIDOR
13	EQUIPMENT ROOM
14	BREAK ROOM
15	TLT & SHW
16	STAFF CORRIDOR
17	OFFICE (1)
18	OFFICE (1)
19	OFFICE (1)
20	SHARED OFFICE (2)
21	EXIT 3
22	COPIER WRKRM
23	ELEC PANEL
24	HSKP
25	CHART
26	TLT
27	MED RM
28	CONSULT
29	PATIENT ROOM 6
30	PATIENT ROOM 5
31	PATIENT ROOM 3
32	PATIENT ROOM 1
33	CORRIDOR
34	PATIENT ROOM 2
35	EXIT 1
36	PATIENT ROOM 4 (ADA)
37	TLT/SHWR ADA
38	SHW
39	TLT
40	NURSE STATION
41	DAYROOM
42	TEL
43	TLT ADA
44	TLT
45	SHW
46	TLT/SHWR ADA
47	PATIENT ROOM 7
48	PATIENT ROOM 9
49	CORRIDOR
50	PATIENT ROOM 10
51	EXIT 2
52	PATIENT ROOM 8 (ADA)
53	HSKP
54	QUIET
55	LAUNDRY
56	LARGE THERAPY/ CRAFT
57	NOURISH
58	CLEAN
59	ANTE
60	TLT & SHW
61	CORRIDOR
62	SECLUSION
63	VISIT/TELE
64	VISIT/INTAKE/DISCHARGE
65	HW
66	SOILED
67	TRASH
68	VESTIBULE
69	FIRE
70	IP PAT BELONG
71	ELEC
72	SALLYPORT
73	SECURITY
74	SECURITY/ ELECTRONICS
75	TRANSPORT LOBBY
76	SECURED YARD
77	CR INTAKE/CONSULT
78	CR PATIENT TOILET
79	CR QUIET ROOM
80	CR OBSERVATION
81	CR NURSE STATION
82	CR PATIENT SHOWER
83	OFFICE (1)
84	OFFICE (1)
85	STORAGE

GENERAL NOTES:

1. SEE OVERALL FLOOR PLAN AND ENLARGED PLANS FOR ADDITIONAL INFORMATION.
2. SEE INTERIOR ELEVATIONS
3.SEE FINISH SCHEDULES

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TMK#: 4-6-014:113

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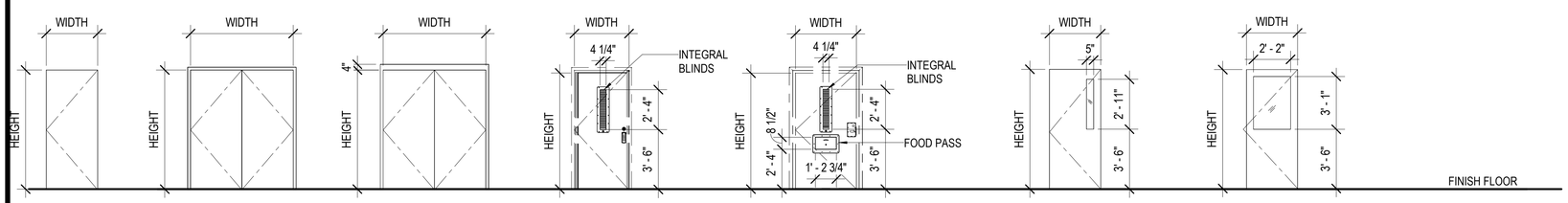
SHEET NAME
OVERALL FINISH FLOOR PLAN

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

DRAWN BY	CHECKED BY
Author	Checker
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DOOR TYPES



F
FLUSH

F2
DOUBLE FLUSH

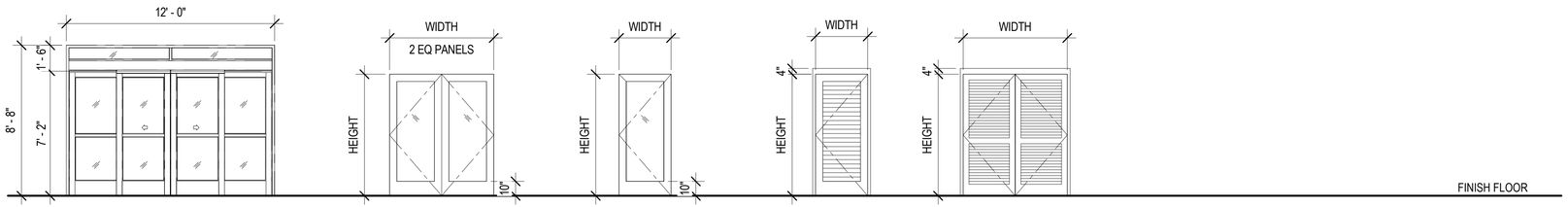
F3
DOUBLE FLUSH W/ 4" DOOR FRAME HEADER

FG1
ANTI-BARRICADE

FG2
ANTI-BARRICADE SECLUSION

FG3
FLUSH W/ NARROW LITE

FG4
FLUSH W/ HALF LITE



SRG1
AUTOMATIC SLIDING W/ FIXED SIDES W/ BREAKAWAY SWING TRANSOM ABOVE

SRG2
DOUBLE STILE RAIL GLASS

SRG3
STILE RAIL GLASS

FL
FULL LOUVER W/ 4" DOOR FRAME HEADER

FL2
DOUBLE FULL LOUVER W/ 4" DOOR FRAME HEADER



MG1
METAL GATE

NOTE: ALL DOOR FRAME DIMENSIONS IN CMU WALLS ARE SHOWN AS NOMINAL DIMENSIONS. COORDINATE ALL DOOR FRAME AND ROUGH OPENING DIMENSIONING WITH CMU BLOCK MODULE.

DOOR SCHEDULE

DOOR MARK	ROOM NAME	WIDTH	HEIGHT	DOOR TYPE (1)	THICKNESS	CONSTRUCTION (2)	FINISH	DOOR FINISH	GLASS (4)	LOUVER (5)	RATING (7)	FRAME MATERIAL	FRAME FINISH	HARDWARE GROUP (7)	HEAD (8) U.O.N	JAMB (8) U.O.N.	THRESHOLD (8) U.O.N.	REMARKS	RISK LEVEL
1	IP LOBBY	6' - 0"	8' - 0"	SRG2	1 3/4"	AL	FF	CHAMPAGNE	TG			AP	CHAMPAGNE	1.1	13/A704	15/A704	13/A704	CARD READER	LOW
3	STAFF CORRIDOR	3' - 0"	7' - 0"	F	1 3/8"	SC	WS	HARVEST MAPLE 7953	-			MP	PT-10	8.1	1/A705	1/A705	16/A705	CARD READER	LOW
4	CONFERENCE	3' - 0"	7' - 0"	SRG3	1 3/4"	HM	MP	NIGHT RENDEZVOUS 1037-5	FT			MP	PT-10	9.1	1/A705	1/A705	3/A705	PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, CARD READER	LOW
5	CR PAT BELONG	3' - 0"	7' - 0"	F	1 3/4"	HM	WS	HARVEST MAPLE 7953	-			MP	PT-10	15.1	5/A705	5/A705	16/A705		LOW
6	CR LOBBY/WAITING MAIN ENTRY	3' - 0"	7' - 2"	SRG3	1 3/4"	AL	FF	CHAMPAGNE	PC			AP	CHAMPAGNE	2A1.1	1/A704	8/A704 (SIM), 9/A704	2/A704		LOW
7	STAFF TLT	3' - 0"	7' - 0"	F	1 3/8"	SC	WS	HARVEST MAPLE 7953	TG			MP	PT-10	17.1	5/A705	5/A705	16/A705	1/2" UNDERCUT	LOW
8	DATA ROOM	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	DARK ASH 1025-5	-			MP	DARK ASH 1025-5	12.1	5/A705	5/A705	16/A705		LOW
9	PUBLIC ADA TLT	3' - 0"	7' - 0"	F	1 3/8"	SC	WS	HARVEST MAPLE 7953	-			MP	PT-10	17.1	5/A705	5/A705, 6/A705	16/A705	1/2" UNDERCUT	LOW
10	IP STAFF SALLYPORT	3' - 0"	7' - 0"	SRG3	1 3/4"	SC	FF	HARVEST MAPLE 7953	TG			MP	TBD	8.1	1/A705	1/A705	12/A706	CARD READER	LOW
11	SECURITY RR	3' - 0"	7' - 0"	F	1 3/8"	SC	WS	HARVEST MAPLE 7953	-			MP	PT-10	17.1	5/A705	5/A705	3/A705	1/2" UNDERCUT	LOW
12	SALLYPORT TO STAFF CORRIDOR	3' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	DARK ASH 1025-5	-			MP	PT-10	10.1	5/A705	5/A705	16/A705	CARD READER	LOW
13	EQUIPMENT ROOM	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	DARK ASH 1025-5	-			FF	DARK ASH 1025-5	12.1	1/A705	1/A705	16/A705		LOW
14	BREAK ROOM	3' - 0"	7' - 0"	FG3	1 3/4"	SC	WS	HARVEST MAPLE 7953	TG			FF	HARVEST MAPLE 7953	16.1	1/A705	1/A705	16/A705	PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	LOW
15	STAFF TLT & SHW	3' - 0"	7' - 0"	F	1 3/8"	SC	WS	HARVEST MAPLE 7953	-			MP	PT-10	17.1	5/A705	5/A705, 6/A705	7/A705	1/2" UNDERCUT	LOW
16A	STAFF CORRIDOR	3' - 0"	7' - 0"	FG3	1 3/4"	SC	WS	HARVEST MAPLE 7953	TG			MP	PT-10	8.1	5/A705	5/A705	16/A705	CARD READER	LOW
16B	DAYROOM TO STAFF CORRIDOR	3' - 0"	7' - 0"	FG3	1 3/4"	HM	MP	NIGHT RENDEZVOUS 1037-5	PC			MP	PT-14	18.1	5/A705	5/A705	12/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, CARD READER	MEDIUM
17	OFFICE (1)	3' - 0"	7' - 0"	FG3	1 3/4"	SC	WS	HARVEST MAPLE 7953	TG			FF	HARVEST MAPLE 7953	13.1	1/A705	1/A705	4/A705	PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	LOW
18	OFFICE (1)	3' - 0"	7' - 0"	FG3	1 3/4"	SC	WS	HARVEST MAPLE 7953	TG			FF	HARVEST MAPLE 7953	13.1	1/A705	1/A705	4/A705	PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	LOW
19	OFFICE (1)	3' - 0"	7' - 0"	FG3	1 3/4"	SC	WS	HARVEST MAPLE 7953	TG			FF	HARVEST MAPLE 7953	13.1	1/A705	1/A705	4/A705	PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	LOW

DOOR NOTES LIST

1. DOOR TYPES
B - BI-FOLD
BD - BARN DOOR
BL - BI-FOLD LOUVER
CD - COUNTER DOOR
CG - COUNTER GRILLE
F - FLUSH
FG - FLUSH GLAZING
FL - FLUSH LOUVER
FM - FLUSH WITH MOULDING
FLO - FLUSH LOCK-OFF
G - GARAGE
GL - GLASS
MG - METAL GATE
OD - OVERHEAD DOOR
OG - OVERHEAD GRILLE
OP - OPERABLE PARTITION
SFD - SLIDING FOLDING DOOR
SG - SLIDING GLASS
SR - STILE RAIL
SRG - STILE RAIL GLASS
WD - WICKET DOOR

NOTE: SUB-TYPES ARE INDICATED BY A NUMERAL

2. DOOR CONSTRUCTION:
A - ACOUSTICAL
AL - ALUMINUM
B - BULLET PROOF
E - EXISTING
GL - GLASS
HC - HOLLOW CORE
HM - HOLLOW METAL
M - METAL
PB - LEAD LINED
SC - SOLID CORE
SR - STILE & RAIL
FRP - FIBERGLASS

3. DOOR FINISH:
AA - ALUMINUM, ANODIZED
AP - ALUMINUM, PAINTED
FF - FACTORY FINISH
MP - METAL, PAINTED
WP - WOOD, PAINTED
WS - WOOD, STAINED
PL - PLASTIC LAMINATE
WT - WOOD, TRANSPARENT
VC - VINYL CLAD

NOTE: SEE COLOR & MATERIAL SCHEDULE FOR COLOR DESIGNATIONS.

4. GLASS TYPES:
ALL GLASS SHALL BE 1/4" THK. U.O.N.
BR - SECURITY GLASS-BALLISTIC RESISTANT
DG - DECORATIVE GLASS
FE - SECURITY GLASS-FORCED ENTRY
FG - FLOAT GLASS
FS - FIRE SAFETY GLASS
FR - FIRE RATED GLASS
FT - FROSTED GLASS
HR - HURRICANE RESISTANT GLASS
HS - HEAT STRENGTHENED GLASS
IG - INSULATING GLAZING
LG - LAMINATED GLASS
LL - LEAD GLASS
MG - ONE WAY VISION GLASS
PC - POLYCARBONATE GLASS
PG - PATTERNED GLASS
TG - TEMPERED GLASS
WG - WIRE GLASS (HORIZONTAL/ VERTICAL WIRE ORIENTATION)
WPG - WIRE PATTERNED GLASS

5. DOOR LOUVER TYPES:
AD - ADJUSTABLE
LP - LIGHTPROOF
SB - STANDARD BLADE
SP - SIGHTPROOF
SR - STORM RESISTANT

DOOR LOUVER CONSTRUCTION & FINISH:
AA - ALUMINUM, ANODIZED
AP - ALUMINUM, PAINTED
WP - WOOD, PAINTED
WT - WOOD, TRANSPARENT

6. FRAME CONSTRUCTION/CASING & FINISH:
AA - ALUMINUM, ANODIZED
AP - ALUMINUM, PAINTED
MP - METAL, PAINTED
WP - WOOD, PAINTED
PL - PLASTIC LAMINATE
WT - WOOD, TRANSPARENT
VC - VINYL CLAD

NOTE: SEE COLOR & MATERIAL SCHEDULE FOR COLOR DESIGNATIONS.

7. HARDWARE:
HARDWARE GROUPS BY DOOR HARDWARE SUPPLIER

8. DETAILS:
SEE HEAD/JAMB DETAILS ON SHEET A-704 - A-706, AND THRESHOLD DETAILS ON SHEET A-704 - A-706, UNLESS OTHERWISE NOTED.

9. REMARKS LIST
NOTE: SEE STRUCTURAL FOR WIND PRESSURE TABLE.

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REVISIONS

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
DOOR TYPES, DOOR SCHEDULE & NOTES

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

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PROJECT NO.	SHEET NO.
221093-01	A701

SHEET ISSUE DATE
09/05/25

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DOOR SCHEDULE

DOOR MARK	ROOM NAME	WIDTH	HEIGHT	DOOR TYPE (1)	THICKNESS	CONSTRUCTION (2)	FINISH	DOOR FINISH	GLASS (4)	LOUVER (5)	RATING (7)	FRAME MATERIAL	FRAME FINISH	HARDWARE GROUP (7)	HEAD (8) U.O.N	JAMB (8) U.O.N.	THRESHOLD (8) U.O.N.	REMARKS	RISK
20	SHARED OFFICE (2)	3' - 0"	7' - 0"	FG3	1 3/4"	SC	WS	HARVEST MAPLE 7953	TG			FF	HARVEST MAPLE 7953	13.1	1/A705	1/A705	4/A705	PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	LOW
21	EXIT 3	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	DARK ASH 1025-5	-			MP	DARK ASH 1025-5	5.1	9/A704	9/A704	11/A704		LOW
22	COPIER WORKROOM	3' - 0"	7' - 0"	FG3	1 3/4"	SC	WS	HARVEST MAPLE 7953	TG			FF	HARVEST MAPLE 7953	14.1	1/A705	1/A705	16/A705		LOW
23	ELEC PANEL	6' - 0"	7' - 0"	F2	1 3/8"	SC	WS	HARVEST MAPLE 7953	-			FF	HARVEST MAPLE 7953	11.1	1/A705	1/A705	16/A705		LOW
24	HSKP	3' - 0"	7' - 0"	F	1 3/8"	SC	WS	HARVEST MAPLE 7953				MP	PT-10	14.1	5/A705	5/A705	16/A705		LOW
25	CHART TO STAFF CORR	3' - 0"	7' - 0"	FG3	1 3/4"	SC	WS	HARVEST MAPLE 7953	TG			MP	PT-10	14.1	5/A705	5/A705	16/A705		LOW
26	CHART TLT	3' - 0"	7' - 0"	F	1 3/8"	SC	WS	HARVEST MAPLE 7953	-			MP	PT-10	17.1	5/A705	5/A705, 6/A705	7/A705	1/2" UNDERCUT	LOW
27	MED	3' - 0"	7' - 0"	SRG3	1 3/4"	HM	MP	-	TG			FF	HARVEST MAPLE 7953	8.1	1/A705	1/A705	16/A705	CARD READER	LOW
28A	CONSULT TO PATIENT CORR	3' - 0"	7' - 0"	SRG3	1 3/4"	HM	FF	WINTER SKY 8792-58	PC			MP	PT-10	18.1	9/A705	14/A705	16/A705	1/2" UNDERCUT, ANTI-BARRICADE DOOR, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, CARD READER	HIGH
28B	CONSULT TO DAYROOM	3' - 0"	7' - 0"	SRG3	1 3/4"	HM	FF	NIGHT RENDEZVOUS 1037-5	PC		20 MIN	MP	PT-10	18.1	5/A705	5/A705	16/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, CARD READER	MEDIUM
29	PATIENT RM 6	3' - 6"	7' - 0"	FG1	1 3/4"	HM	FF	WINTER SKY 8792-58	PC			MP	PT-10	25A.1 / BH1.0	9/A705	14/A705	16/A705	ANTI-BARRICADE DOOR, ANTI-LIGATURE DOOR HANDLES, CONTINUOUS HINGES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, OVER-DOOR ALARM	HIGH
30	PATIENT RM 5	3' - 6"	7' - 0"	FG1	1 3/4"	HM	FF	WINTER SKY 8792-58	PC			MP	PT-10	25A.1 / BH1.0	9/A705	14/A705	16/A705	ANTI-BARRICADE DOOR, ANTI-LIGATURE DOOR HANDLES, CONTINUOUS HINGES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, OVER-DOOR ALARM	HIGH
31	PATIENT RM 3	3' - 6"	7' - 0"	FG1	1 3/4"	HM	FF	WINTER SKY 8792-58	PC			MP	PT-10	25A.1 / BH1.0	9/A705	14/A705	16/A705	ANTI-BARRICADE DOOR, ANTI-LIGATURE DOOR HANDLES, CONTINUOUS HINGES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, OVER-DOOR ALARM	HIGH
32	PATIENT RM 1	3' - 6"	7' - 0"	FG1	1 3/4"	HM	FF	WINTER SKY 8792-58	PC			MP	PT-10	25A.1 / BH1.0	9/A705	14/A705	16/A705	ANTI-BARRICADE DOOR, ANTI-LIGATURE DOOR HANDLES, CONTINUOUS HINGES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, OVER-DOOR ALARM	HIGH
33	PATIENT CORRIDOR	4' - 0"	7' - 0"	SRG3	1 3/4"	HM	MP	NIGHT RENDEZVOUS 1037-5	PC		20 MIN	MP	PT-10	20.1	13/A705	5/A705	16/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSERS, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, CARD READER	MEDIUM
34	PATIENT RM 2	3' - 6"	7' - 0"	FG1	1 3/4"	HM	FF	WINTER SKY 8792-58	PC			MP	PT-10	25A.1 / BH1.0	9/A705	14/A705	16/A705	ANTI-BARRICADE DOOR, ANTI-LIGATURE DOOR HANDLES, CONTINUOUS HINGES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, OVER-DOOR ALARM	HIGH
35A	EXIT 1 INT	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	WINTER SKY 8792-58	-			MP	PT-10	21.1	5/A705	5/A705	8/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, CARD READER	HIGH
35B	EXIT 1 EXT	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	COLOR- MATCH DEFS-02	-			MP	-	5.1	9/A704	9/A704	11/A704		LOW
36	PATIENT RM 4 (ADA)	3' - 6"	7' - 0"	FG1	1 3/4"	HM	FF	WINTER SKY 8792-58	PC			MP	PT-10	25A.1 / BH1.0	9/A705	14/A705	16/A705	ANTI-BARRICADE DOOR, ANTI-LIGATURE DOOR HANDLES, CONTINUOUS HINGES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, OVER-DOOR ALARM	HIGH
37	PATIENT TLT/SHW ADA	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	WINTER SKY 8792-58	-			MP	PT-10	27.1	5/A705	5/A705, 6/A705	7/A705	1/2" UNDERCUT, HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER	HIGH
38	PATIENT SHW	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	WINTER SKY 8792-58	-			MP	PT-10	27.1	5/A705	5/A705	7/A705	1/2" UNDERCUT, HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER	HIGH
39	PATIENT TLT	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	WINTER SKY 8792-58	-			MP	PT-10	27.1	5/A705	5/A705	7/A705	1/2" UNDERCUT, HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER	HIGH
40A	DAYROOM TO NURSE STATION	3' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	DARK ASH 1025-5	PC			MP	PT-10	19.1	5/A705	5/A705	12/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, CARD READER	MEDIUM
40B	DAYROOM TO NURSE STATION	3' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	DARK ASH 1025-5	PC			MP	PT-10	19.1	5/A705	5/A705	12/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, CARD READER	MEDIUM
40C	NURSE STATION TO CHART	3' - 0"	7' - 0"	FG3	1 3/4"	SC	WS	HARVEST MAPLE 7953	-			FF	HARVEST MAPLE 7953	13.1	1/A705	1/A705	16/A705	PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	LOW
41	DAYROOM TO SECURED YARD	3' - 3"	7' - 0"	SRG3	1 3/4"	AL	FF	CHAMPAGNE	PC			AA	CHAMPAGNE	2.1	13/A704	14/A704	13/A704	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, CARD READER	MEDIUM
42	TEL	3' - 0"	7' - 0"	SRG3	1 3/4"	HM	MP	NIGHT RENDEZVOUS 1037-5	PC			FF	NIGHT RENDEZVOUS 1037-5	18.1	5/A705	5/A705	16/A705	1/2" UNDERCUT, HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, CARD READER	MEDIUM
43	PATIENT TLT ADA	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	NIGHT RENDEZVOUS 1037-5	-			MP	PT-10	27.1	5/A705	5/A705	7/A705	1/2" UNDERCUT, HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER	HIGH
44	PATIENT TLT	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	WINTER SKY 8792-58	-			MP	PT-10	27.1	5/A705	5/A705	7/A705	1/2" UNDERCUT, HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER	HIGH
45	PATIENT SHW	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	WINTER SKY 8792-58	-			MP	PT-10	27.1	5/A705	5/A705	7/A705	1/2" UNDERCUT, HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER	HIGH
46	PATIENT TLT/SHW ADA	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	WINTER SKY 8792-58	-			MP	PT-10	27.1	5/A705	5/A705	7/A705	1/2" UNDERCUT, HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER	HIGH
47	PATIENT RM 7	3' - 6"	7' - 0"	FG1	1 3/4"	HM	FF	WINTER SKY 8792-58	PC			MP	PT-10	25A.1 / BH1.0	9/A705	14/A705	16/A705	ANTI-BARRICADE DOOR, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, OVER-DOOR ALARM	HIGH
48	PATIENT RM 9	3' - 6"	7' - 0"	FG1	1 3/4"	HM	FF	WINTER SKY 8792-58	PC			MP	PT-10	25A.1 / BH1.0	9/A705	14/A705	16/A705	ANTI-BARRICADE DOOR, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, OVER-DOOR ALARM	HIGH
49	PATIENT CORRIDOR	4' - 0"	7' - 0"	SRG3	1 3/4"	HM	MP	NIGHT RENDEZVOUS 1037-5	PC			MP	PT-10	20.1	13/A705	5/A705	16/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSERS, CARD READER	MEDIUM
50	PATIENT RM 10	3' - 6"	7' - 0"	FG1	1 3/4"	HM	FF	WINTER SKY 8792-58	PC			MP	PT-10	25A.1 / BH1.0	9/A705	14/A705	16/A705	ANTI-BARRICADE DOOR, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, OVER-DOOR ALARM	HIGH
51A	EXIT 2 INT	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	WINTER SKY 8792-58	-			MP	PT-10	21.1	5/A705	5/A705	8/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, CARD READER	
51B	EXIT 2 EXT	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	COLOR- MATCH DEFS-02	-			AP	-	5.1	9/A704	9/A704	11/A704		LOW
52	PATIENT RM 8 (ADA)	3' - 6"	7' - 0"	FG1	1 3/4"	HM	FF	WINTER SKY 8792-58	PC			MP	PT-10	25A.1 / BH1.0	9/A705	14/A705	16/A705	ANTI-BARRICADE DOOR, ANTI-LIGATURE DOOR HANDLES, CONTINUOUS HINGES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, OVER-DOOR ALARM	HIGH
53	HOUSEKEEPING	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	WINTER SKY 8792-58	-			MP	PT-10	24.1	5/A705	5/A705	12/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED , PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	LOW
54A	QUIET	3' - 0"	7' - 0"	SRG3	1 3/4"	HM	FF	WINTER SKY 8792-58	PC			MP	PT-10	25.1	9/A705	14/A705	16/A705	ANTI-BARRICADE DOOR, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	HIGH
54B	QUIET TO LAUNDRY	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	COLOR-MATCH PT-01	PC			FF	COLOR-MATCH PT-01	29.1	5/A705	5/A705	12/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, KEY FOR STAFF ENTRY ONLY (BOTH SIDES)	MEDIUM
55	LAUNDRY	3' - 0"	7' - 0"	SRG3	1 3/4"	HM	MP	NIGHT RENDEZVOUS 1037-5	PC			FF	PT-10	24.1	5/A705	5/A705	12/A705	HOSPITAL TIP HINGES, ANT-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	MEDIUM
56A	LARGE THERAPY/CRAFT	3' - 0"	7' - 0"	SRG3	1 3/4"	HM	MP	NIGHT RENDEZVOUS 1037-5	PC			FF	PT-10	25.1	5/A705	5/A705, 2/A705	16/A705	HOSPITAL TIP HINGES, ANT-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	MEDIUM
56B	LARGE THERAPY/CRAFT	3' - 0"	7' - 0"	SRG3	1 3/4"	HM	MP	NIGHT RENDEZVOUS 1037-5	PC			FF	PT-10	25.1	5/A705	5/A705, 2/A705	16/A705	HOSPITAL TIP HINGES, ANT-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	MEDIUM
57	NOURISH	3' - 0"	7' - 0"	FG3	1 3/4"	HM	MP	JAVA , SMOOTH GRAIN	PC			MP	PT-10	24.1	5/A705	5/A705	16/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	MEDIUM
58	CLEAN	3' - 0"	7' - 0"	FG3	1 3/4"	HM	MP	JAVA , SMOOTH GRAIN	PC			MP	PT-10	24.1	5/A705	5/A705	16/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	MEDIUM

DOOR NOTES LIST

1. DOOR TYPES
B - BI-FOLD
BL - BI-FOLD LOUVER
CD - COUNTER DOOR
CG - COUNTER GRILLE
F - FLUSH
FG - FLUSH GLAZING
FL - FLUSH LOUVER
FM - FLUSH WITH MOULDING
FLO - FLUSH LOCK-OFF
G - GARAGE
GL - GLASS
MG - METAL GATE
OD - OVERHEAD DOOR
OG - OVERHEAD GRILLE
OP - OPERABLE PARTITION
SFD - SLIDING FOLDING DOOR
SG - SLIDING GLASS
SR - STILE RAIL
SRG - STILE RAIL GLASS

NOTE: SUB-TYPES ARE INDICATED BY A NUMERAL

2. DOOR CONSTRUCTION:
A - ACOUSTICAL
AL - ALUMINUM
B - BULLET PROOF
E - EXISTING
GL - GLASS
HC - HOLLOW CORE
HM - HOLLOW METAL
M - METAL
PB - LEAD LINED
SC - SOLID CORE
SR - STILE & RAIL
FRP - FIBERGLASS

3. DOOR FINISH:
AA - ALUMINUM, ANODIZED
AP - ALUMINUM, PAINTED
FF - FACTORY FINISH
MP - METAL, PAINTED
WP - WOOD, PAINTED
WS - WOOD, STAINED
PL - PLASTIC LAMINATE
WT - WOOD, TRANSPARENT
VC - VINYL CLAD

NOTE: SEE COLOR & MATERIAL SCHEDULE FOR COLOR DESIGNATIONS.

4. GLASS TYPES:
ALL GLASS SHALL BE 1/4" THK. U.O.N.

BR - SECURITY GLASS-BALLISTIC RESISTANT
DG - DECORATIVE GLASS
FE - SECURITY GLASS-FORCED ENTRY
FG - FLOAT GLASS
FS - FIRE SAFETY GLASS
FR - FIRE RATED GLASS
HR - HURRICANE RESISTANT GLASS
HS - HEAT STRENGTHENED GLASS
IG - INSULATING GLAZING
LG - LAMINATED GLASS
LL - LEAD GLASS
MG - ONE WAY VISION GLASS
PG - PATTERNED GLASS
TG - TEMPERED GLASS
WG - WIRE GLASS (HORIZONTAL/ VERTICAL ORIENTATION) WIRE
WPG - WIRE PATTERNED GLASS

5. DOOR LOUVER TYPES:
AD - ADJUSTABLE
LP - LIGHTPROOF
SB - STANDARD BLADE
SP - SIGHTPROOF
SR - STORM RESISTANT

DOOR LOUVER CONSTRUCTION & FINISH:
AA - ALUMINUM, ANODIZED
AP - ALUMINUM, PAINTED
WP - WOOD, PAINTED
WT - WOOD, TRANSPARENT

6. FRAME CONSTRUCTION/CASING & FINISH:
AA - ALUMINUM, ANODIZED
AP - ALUMINUM, PAINTED
FF - FACTORY FINISHED
MP - METAL, PAINTED
WP - WOOD, PAINTED
PL - PLASTIC LAMINATE
WT - WOOD, TRANSPARENT
VC - VINYL CLAD

NOTE: SEE COLOR & MATERIAL SCHEDULE FOR COLOR DESIGNATIONS.

7. HARDWARE:
HARDWARE GROUPS BY DOOR HARDWARE SUPPLIER.

8. DETAILS:
SEE HEAD/JAMB DETAILS ON SHEET A-___,
AND THRESHOLD DETAILS ON SHEET A-___,
UNLESS OTHERWISE NOTED.

9. REMARKS LIST
NOTE: SEE STRUCTURAL FOR WIND PRESSURE TABLE.

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

#	Date	Description

CD / BID SET
02/27/26

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
DOOR SCHEDULE & NOTES

SCALE:

DRAWN BY	CHECKED BY
Author	Checker

PROJECT NO.	SHEET NO.
221093-01	A702

SHEET ISSUE DATE
09/05/25

Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

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DOOR SCHEDULE

DOOR MARK	ROOM NAME	WIDTH	HEIGHT	DOOR TYPE (1)	THICKNESS	CONSTRUCTION (2)	FINISH	DOOR FINISH	GLASS (4)	LOUVER (5)	RATING (7)	FRAME MATERIAL	FRAME FINISH	HARDWARE GROUP (7)	HEAD (8) U.O.N	JAMB (8) U.O.N.	THRESHOLD (8) U.O.N.	REMARKS	RISK
59A	SECLUSION ANTE RM TO CORRIDOR	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	JAVA , SMOOTH GRAIN	-			MP	PT-10	25.1	5/A705	5/A705	7/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	HIGH
59B	SECLUSION ANTE RM TO DAYROOM	3' - 0"	7' - 0"	SRG3	1 3/4"	HM	MP	NIGHT RENDEZVOUS 1037-5	-			MP	PT-10	25.1	5/A705	5/A705	7/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	HIGH
61	CORRIDOR	4' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	NIGHT RENDEZVOUS 1037-5	PC			MP	PT-10	23.1	13/A705	5/A705	12/A705	1/2" UNDERCUT, HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, CARD READER	MEDIUM
62	SECLUSION	4' - 0"	7' - 0"	FG2	1 3/4"	HM	FF	WINTER SKY 8792-58	PC		45 MIN	MP	PT-10	26.1 / BH2.0	1/A706	3/A706	2/A706	PADDED DOOR, ANTI-BARRICADE DOOR, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, NO EXPOSED DR HARDWARE ON INSIDE FACE OF DOOR	HIGH
63A	VISIT/TELE (PATIENT SIDE)	3' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	JAVA , SMOOTH GRAIN	PC			FF	JAVA, SMOOTH GRAIN	25.1	5/A705	5/A705, 2/A705	16/A705	HOSPITAL TIP HINGES, ANT-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	MEDIUM
63B	VISIT/TELE (STAFF SIDE)	3' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	JAVA , SMOOTH GRAIN	PC			FF	JAVA, SMOOTH GRAIN	18.1	5/A705	5/A705	16/A705	HOSPITAL TIP HINGES, ANT-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, CARD READER	MEDIUM
64A	VISIT/INTAKE/DISCHARGE (PATIENT SIDE)	3' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	JAVA, SMOOTH GRAIN	PC			FF	JAVA, SMOOTH GRAIN	25.1	5/A705	5/A705	16/A705	HOSPITAL TIP HINGES, ANT-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	MEDIUM
64B	VISIT/INTAKE/DISCHARGE (STAFF SIDE)	3' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	JAVA, SMOOTH GRAIN	PC			FF	JAVA, SMOOTH GRAIN	18.1	5/A705	5/A705	16/A705	HOSPITAL TIP HINGES, ANT-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, CARD READER	MEDIUM
65	HW	6' - 0"	7' - 0"	F2	1 3/4"	HM	MP	JAVA, SMOOTH GRAIN	-			MP	PT-10	22.1	5/A705	5/A705	16/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	MEDIUM
66	SOILED	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	DARK ASH 1025-5	-		45 MIN	MP	PT-10	14.1	5/A705	5/A705	16/A705		LOW
67	TRASH	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	DARK ASH 1025-5	-		45 MIN	MP	PT-10	14.1	5/A705	5/A705	8/A705		LOW
68	VESTIBULE	3' - 0"	7' - 0"	FG3	1 3/4"	HM	MP	JAVA , SMOOTH GRAIN	TG			MP	PT-10	24.1	5/A705	5/A705	16/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	MEDIUM
69	FIRE	6' - 0"	7' - 0"	FL2	1 3/4"	HM	MP	COLOR-MATCH STO; FRENCH VANILLA #10609-79	-	SR		MP	COLOR-MATCH STO; FRENCH VANILLA #10609-79	6.1	9/A704	9/A704	10/A704	DOOR POSITION SWITCH	LOW
70	PAT BELONG	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	DARK ASH 1025-5	-			MP	PT-10	15.1	5/A705	5/A705	16/A705		LOW
71	ELEC	3' - 0"	7' - 0"	FL	1 3/4"	HM	MP	COLOR-MATCH STO; FRENCH VANILLA #10609-79	-	SR	45 MIN	AP	COLOR-MATCH STO; FRENCH VANILLA #10609-79	3.1	9/A704	9/A704	10/A704	DOOR POSITION SWITCH	LOW
72A	TRANSPORT LOBBY TO SALLYPORT	4' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	JAVA , SMOOTH GRAIN	PC			MP	PT-10	19.1	13/A705	2/A705	16/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSERS, CARD READER	MEDIUM
72B	SALLYPORT TO CORRIDOR	4' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	JAVA , SMOOTH GRAIN	PC			MP	PT-10	19.1	13/A705	2/A705	16/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSERS, CARD READER	MEDIUM
73A	SECURITY	3' - 0"	7' - 0"	F	1 3/8"	SC	FF	HARVEST MAPLE 7953	TG			FF	HARVEST MAPLE 7953	8.1	5/A705	5/A705	3/A705	CARD READER	LOW
73B	SALLYPORT TO SECURITY	3' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	JAVA , SMOOTH GRAIN	PC			FF	JAVA, SMOOTH GRAIN	18.1	5/A705	5/A705, 2/A705	4/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM, CARD READER	MEDIUM
74	SECURITY/DATA	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	JAVA , SMOOTH GRAIN	-			MP	PT-10	9.1	5/A705	5/A705	12/A705	PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	LOW
75A	TRANSPORT LOBBY (SIDE)	6' - 0"	7' - 0"	F2	1 3/4"	HM	MP	JAVA , SMOOTH GRAIN	-			MP	PT-10	4.1	9/A704	9/A704	11/A704	CARD READER	LOW
75B	TRANSPORT LOBBY (FRONT)	12' - 0"	7' - 9"	SRG1	4 1/2"	AA	FF	TBD	TG			AA	TBD	28.1	5/A704	7/A704	6/A704		LOW
76A	CHASE	2' - 6"	7' - 0"	F	1 3/4"	HM	MP	COLOR-MATCH STO; FRENCH VANILLA #10609-79	-			MP	COLOR-MATCH STO; FRENCH VANILLA #10609-79	7.1	9/A704	9/A704	10/A704	1/2" UNDERCUT, HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER	HIGH
76B	CHASE	2' - 6"	7' - 0"	F	1 3/4"	HM	MP	COLOR-MATCH STO; FRENCH VANILLA #10609-79	-			MP	COLOR-MATCH STO; FRENCH VANILLA #10609-79	7.1	9/A704	9/A704	10/A704	1/2" UNDERCUT, HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER	HIGH
77A	CR LOBBY/WAITING TO CR INTAKE/CONSULT	3' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	JAVA, SMOOTH GRAIN	PC			MP	PT-10	25.1	5/A705	5/A705	12/A706	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	HIGH
77B	CR OBSERVATION TO CR INTAKE/CONSULT	3' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	JAVA, SMOOTH GRAIN	PC			MP	PT-10	25.1	5/A705	5/A705	16/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	
78	CR PATIENT TOILET	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	WINTER SKY 8792-58				MP	PT-10	27.1	5/A705	5/A705	7/A705	1/2" UNDERCUT, HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER	HIGH
79	CR QUIET ROOM	3' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	JAVA, SMOOTH GRAIN	PC			MP	PT-10	25.1	5/A705	5/A705	16/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	HIGH
80	CR OBSERVATION	3' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	JAVA, SMOOTH GRAIN	PC			MP	PT-10	25.1	5/A705	5/A705	16/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER	HIGH
81A	CR NURSE STATION TO STAFF CORRIDOR	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	WINTER SKY 8792-58				MP	PT-10	16.1	5/A705	5/A705	12/A705	PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	LOW
81B	CR NURSE STATION TO CR OBSERVATION	3' - 0"	7' - 0"	FG4	1 3/4"	HM	MP	JAVA, SMOOTH GRAIN	PC			MP	PT-10	25.1	1/A705	1/A705	12/A705	HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER, PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	HIGH
82	CR PATIENT SHOWER	3' - 0"	7' - 0"	F	1 3/4"	HM	MP	WINTER SKY 8792-58	FT			MP	PT-10	27.1	1/A705	1/A705	7/A705	1/2" UNDERCUT, HOSPITAL TIP HINGES, ANTI-LIGATURE DOOR HANDLES, CONCEALED CLOSER	LOW
83	OFFICE (1)	3' - 0"	7' - 0"	FG3	1 3/4"	SC	WS	HARVEST MAPLE 7953	TG			FF	HARVEST MAPLE 7953	13.1	1/A705	1/A705	4/A705	PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	LOW
84	OFFICE (1)	3' - 0"	7' - 0"	FG3	1 3/4"	SC	WS	HARVEST MAPLE 7953	TG			FF	HARVEST MAPLE 7953	13.1	1/A705	1/A705	4/A705	PERIMETER SEAL, AUTOMATIC DOOR BOTTOM	LOW
85	STORAGE	3' - 0"	7' - 0"	F	1 3/8"	SC	WS	HARVEST MAPLE 7953				MP	PT-10	15.1	5/A705	5/A705	16/A705		LOW
86	MECHANICAL YARD	6' - 0"	7' - 0"	F2	1 3/4"	HM	MP	SEE REMARKS	-		-	FF	SEE REMARKS	30.1	TBD	TBD	TBD	KEY FOR MAINTENANCE ONLY. FINISH TO MATCH BARRIER WALL	LOW
87	MECHANICAL YARD	6' - 0"	7' - 0"	F2	1 3/4"	HM	MP	SEE REMARKS	-		-	FF	SEE REMARKS	30.1	TBD	TBD	TBD	KEY FOR MAINTENANCE ONLY. FINISH TO MATCH BARRIER WALL	LOW
88	MAINTENANCE GATE	6' - 0"	6' - 0"	MG1	2"	AL	FF	TBD				FF	TBD	30.1	1/L203	1/L203	1/L203	KEY FOR MAINTENANCE ONLY	LOW

DOOR NOTES LIST

1. DOOR TYPES
B - BI-FOLD
BL - BI-FOLD LOUVER
CD - COUNTER DOOR
CG - COUNTER GRILLE
F - FLUSH
FG - FLUSH GLAZING
FL - FLUSH LOUVER
FM - FLUSH WITH MOULDING
FLO - FLUSH LOCK-OFF
G - GARAGE
GL - GLASS
MG - METAL GATE
OD - OVERHEAD DOOR
OG - OVERHEAD GRILLE
OP - OPERABLE PARTITION
SFD - SLIDING FOLDING DOOR
SG - SLIDING GLASS
SR - STILE RAIL
SRG - STILE RAIL GLASS

NOTE: SUB-TYPES ARE INDICATED BY A NUMERAL

2. DOOR CONSTRUCTION:
A - ACOUSTICAL
AL - ALUMINUM
B - BULLET PROOF
E - EXISTING
GL - GLASS
HC - HOLLOW CORE
HM - HOLLOW METAL
M - METAL
PB - LEAD LINED
SC - SOLID CORE
SR - STILE & RAIL
FRP - FIBERGLASS

3. DOOR FINISH:
AA - ALUMINUM, ANODIZED
AP - ALUMINUM, PAINTED
FF - FACTORY FINISH
MP - METAL, PAINTED
WP - WOOD, PAINTED
WS - WOOD, STAINED
PL - PLASTIC LAMINATE
WT - WOOD, TRANSPARENT
VC - VINYL CLAD

NOTE: SEE COLOR & MATERIAL SCHEDULE FOR COLOR DESIGNATIONS.

4. GLASS TYPES:
ALL GLASS SHALL BE 1/4" THK. U.O.N.

BR - SECURITY GLASS-BALLISTIC RESISTANT
DG - DECORATIVE GLASS
FE - SECURITY GLASS-FORCED ENTRY
FG - FLOAT GLASS
FS - FIRE SAFETY GLASS
FR - FIRE RATED GLASS
HR - HURRICANE RESISTANT GLASS
HS - HEAT STRENGTHENED GLASS
IG - INSULATING GLAZING
LG - LAMINATED GLASS
LL - LEAD GLASS
MG - ONE WAY VISION GLASS
PG - PATTERNED GLASS
TG - TEMPERED GLASS
WG - WIRE GLASS (HORIZONTAL/ VERTICAL WIRE ORIENTATION)
WPG - WIRE PATTERNED GLASS

5. DOOR LOUVER TYPES:
AD - ADJUSTABLE
LP - LIGHTPROOF
SB - STANDARD BLADE
SP - SIGHTPROOF
SR - STORM RESISTANT

DOOR LOUVER CONSTRUCTION & FINISH:
AA - ALUMINUM, ANODIZED
AP - ALUMINUM, PAINTED
WP - WOOD, PAINTED
WT - WOOD, TRANSPARENT

6. FRAME CONSTRUCTION/CASING & FINISH:
AA - ALUMINUM, ANODIZED
AP - ALUMINUM, PAINTED
FF - FACTORY FINISHED
MP - METAL, PAINTED
WP - WOOD, PAINTED
PL - PLASTIC LAMINATE
WT - WOOD, TRANSPARENT
VC - VINYL CLAD

NOTE: SEE COLOR & MATERIAL SCHEDULE FOR COLOR DESIGNATIONS.

7. HARDWARE:
HARDWARE GROUPS BY DOOR HARDWARE SUPPLIER

8. DETAILS:
SEE HEAD/JAMB DETAILS ON SHEET A-___,
AND THRESHOLD DETAILS ON SHEET A-___,
UNLESS OTHERWISE NOTED.

9. REMARKS LIST
NOTE: SEE STRUCTURAL FOR WIND PRESSURE TABLE.

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

#	Date	Description

CD / BID SET
02/27/26

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

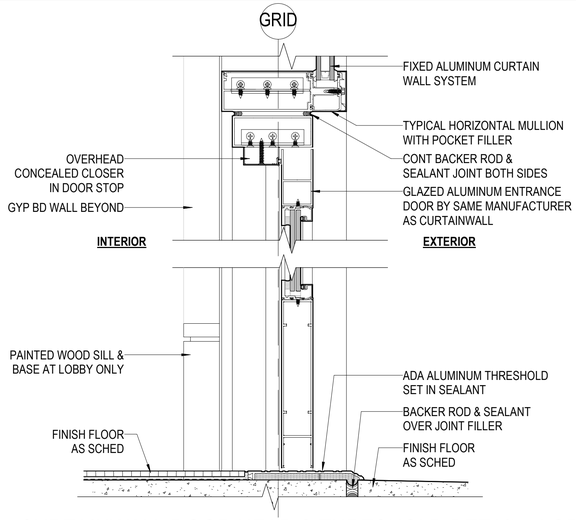
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SHEET NAME
DOOR SCHEDULE & NOTES

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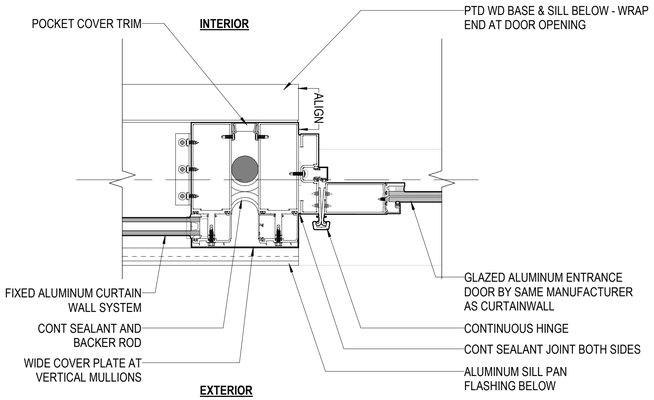
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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A703
SHEET ISSUE DATE	
11/12/25	

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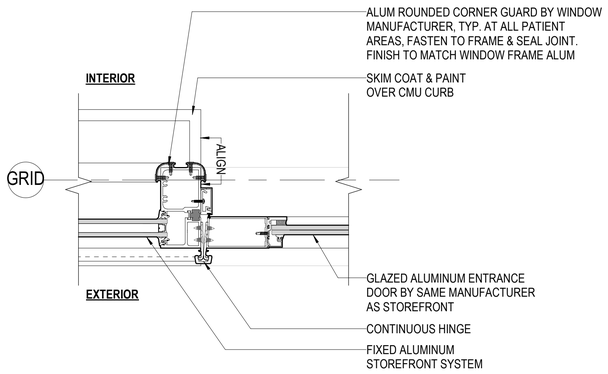
13 CURTAINWALL DOOR HEAD & THRESHOLD DETAIL - LOBBY

SCALE: 3" = 1'-0"



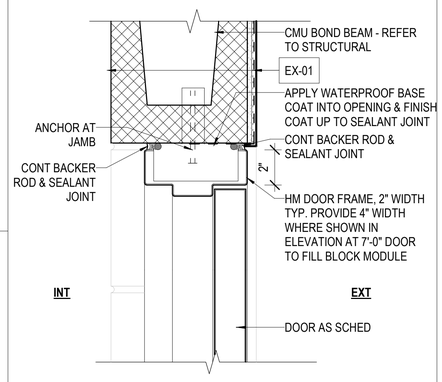
14 CURTAINWALL DOOR JAMB DETAIL - LOBBY

SCALE: 3" = 1'-0"



15 CURTAINWALL DOOR JAMB DETAIL - DAYROOM

SCALE: 3" = 1'-0"

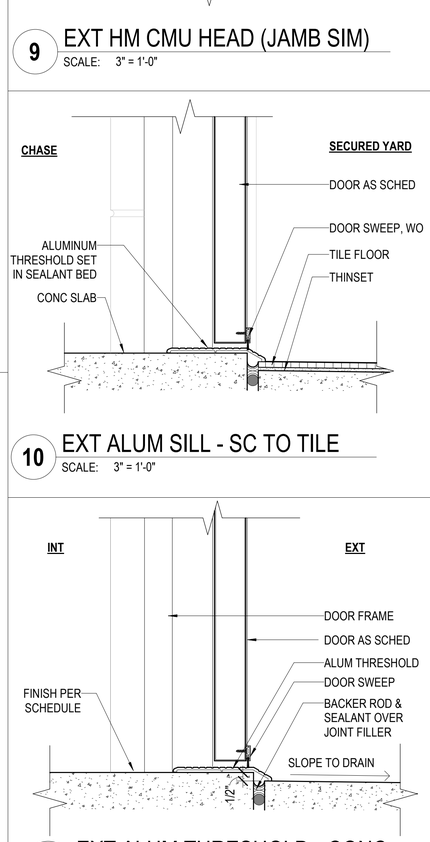


9 EXT HM CMU HEAD (JAMB SIM)

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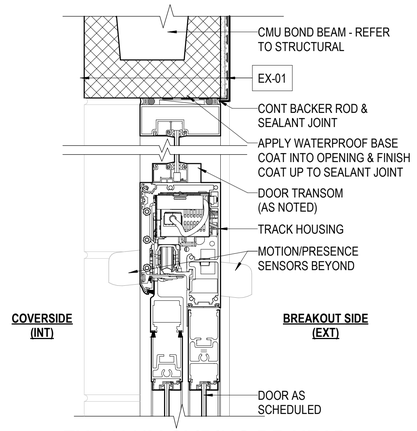
10 EXT ALUM SILL - SC TO TILE

SCALE: 3" = 1'-0"



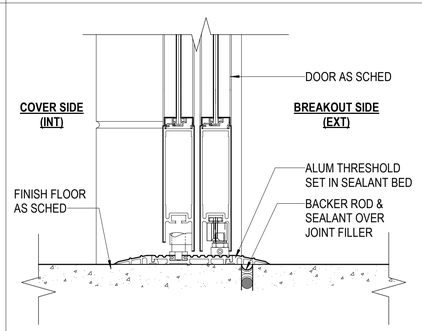
11 EXT ALUM THRESHOLD - CONC

SCALE: 3" = 1'-0"



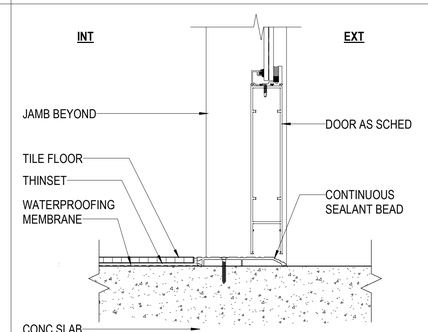
5 EXT ALUM SLIDING DR HEAD

SCALE: 3" = 1'-0"



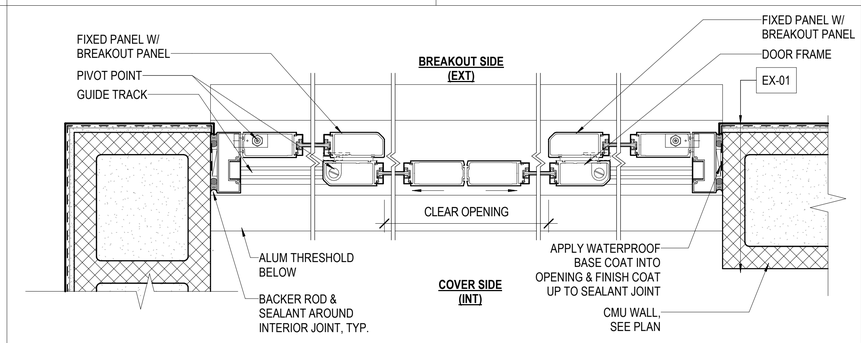
6 EXT ALUM SLIDING DR THRESHOLD

SCALE: 3" = 1'-0"



2 EXT ALUM SILL - TILE TO CONC

SCALE: 3" = 1'-0"



7 JAMB @ EXT ALUM SLIDING DOOR

SCALE: 3" = 1'-0"

G70

111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

#	Date	Description

CD / BID SET

02/27/26

This work was prepared by me or under my supervision and construction of this project will be under my observation

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
DOOR DETAILS

SCALE: 3" = 1'-0"

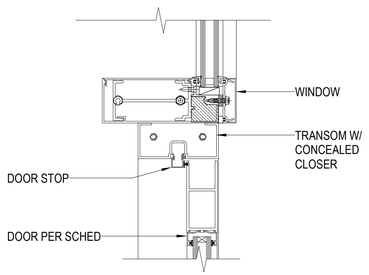
DRAWN BY	CHECKED BY
Author	Checker

PROJECT NO.	SHEET NO.
221093-01	A704

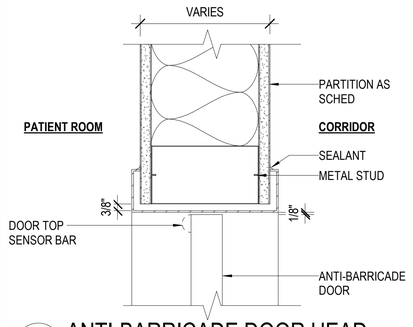
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07/21/25

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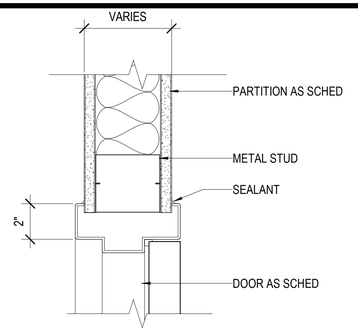
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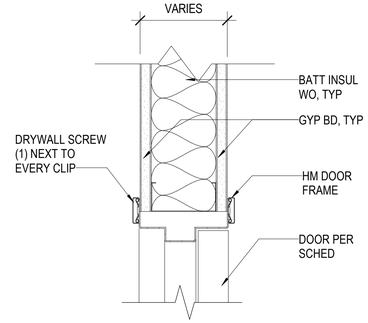
13 INT TRANSOM HEAD
SCALE: 3" = 1'-0"



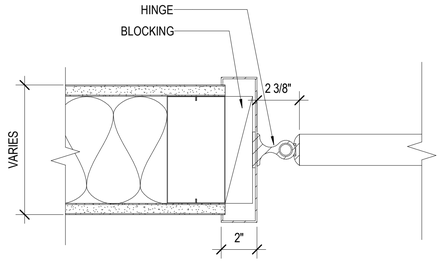
9 ANTI-BARRICADE DOOR HEAD
SCALE: 3" = 1'-0"



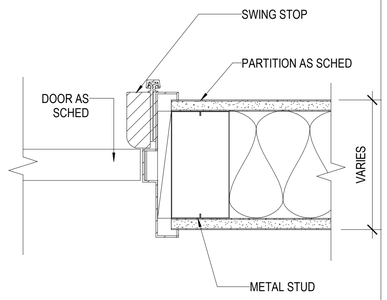
5 INT HM HEAD (JAMB SIM)
SCALE: 3" = 1'-0"

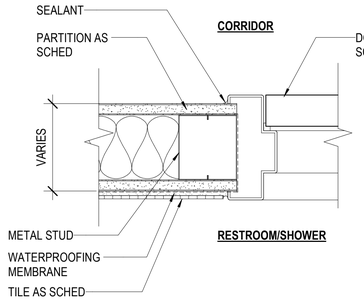


1 INT HM HEAD (JAMB SIM)
SCALE: 3" = 1'-0"

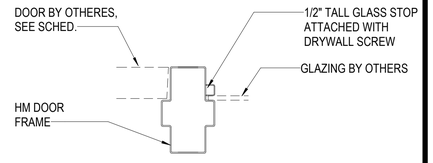


14 ANTI-BARRICADE DOOR JAMB
SCALE: 3" = 1'-0"

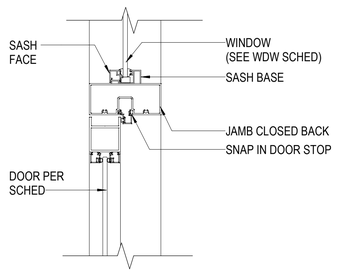




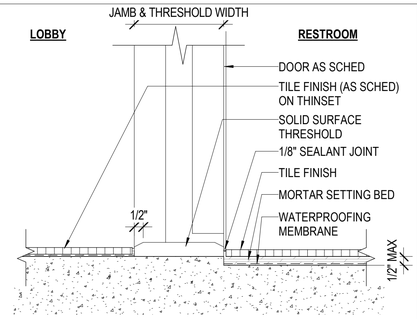
6 HM DOOR JAMB - TILE
SCALE: 3" = 1'-0"



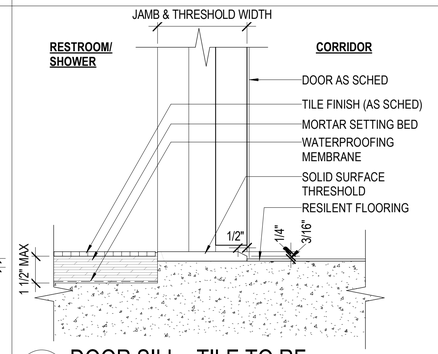
2 HM DOOR JAMB - GLAZING
SCALE: 3" = 1'-0"



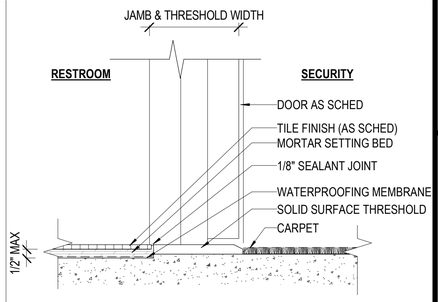
15 INT HM HEAD W/ TRANSOM ABOVE
SCALE: 3" = 1'-0"



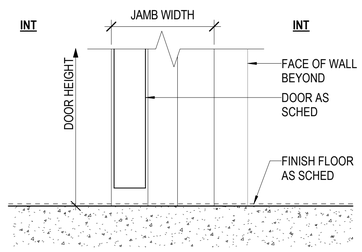
11 DOOR SILL - TILE TO TILE
SCALE: 3" = 1'-0"



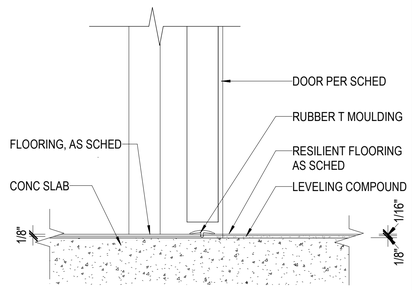
7 DOOR SILL - TILE TO RF
SCALE: 3" = 1'-0"



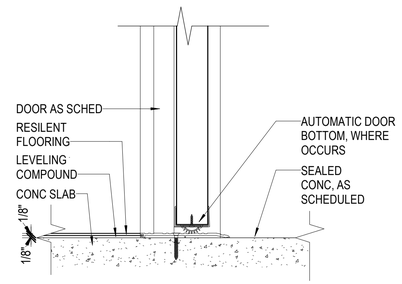
3 DOOR SILL - TILE TO CPT
SCALE: 3" = 1'-0"



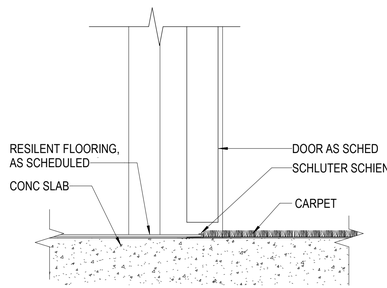
16 THRESHOLD (NO THRESHOLD)
SCALE: 3" = 1'-0"



12 DOOR SILL - RF OR SDT TO RF
SCALE: 3" = 1'-0"



8 THRESHOLD - RF TO SC
SCALE: 3" = 1'-0"



4 DOOR SILL - RF TO CPT
SCALE: 3" = 1'-0"

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

#	Date	Description

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

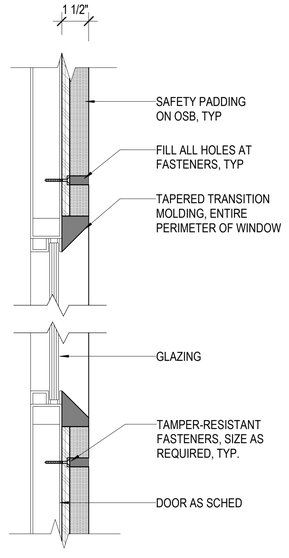
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
DOOR DETAILS

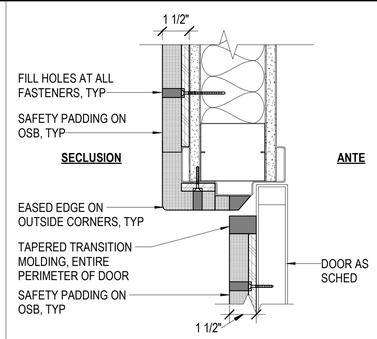
SCALE: 3" = 1'-0"

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A705
SHEET ISSUE DATE	
08/15/25	

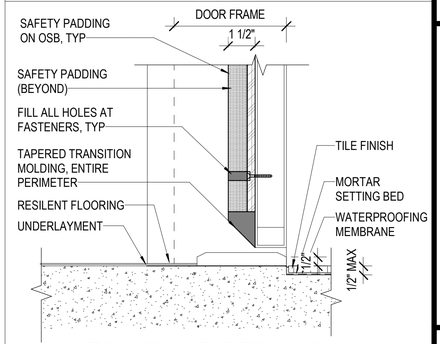
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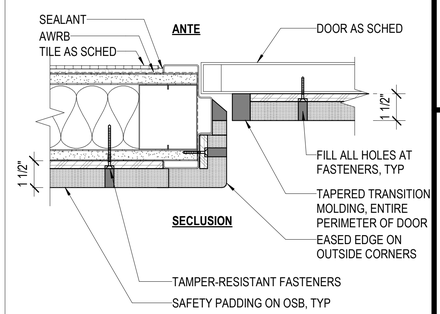
6 SECLUSION GLAZING DETAIL
SCALE: 3" = 1'-0"



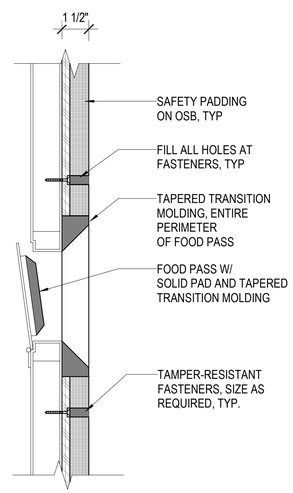
1 SECLUSION HEAD (JAMB SIM)
SCALE: 3" = 1'-0"



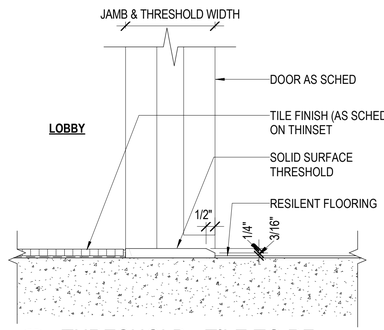
2 SECLUSION THRESHOLD
SCALE: 3" = 1'-0"



3 SECLUSION DOOR JAMB
SCALE: 3" = 1'-0"



8 SECLUSION FOOD PASS DETAIL
SCALE: 3" = 1'-0"



12 THRESHOLD - TILE TO RF
SCALE: 3" = 1'-0"

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111 S. KING STREET, SUITE 170
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TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

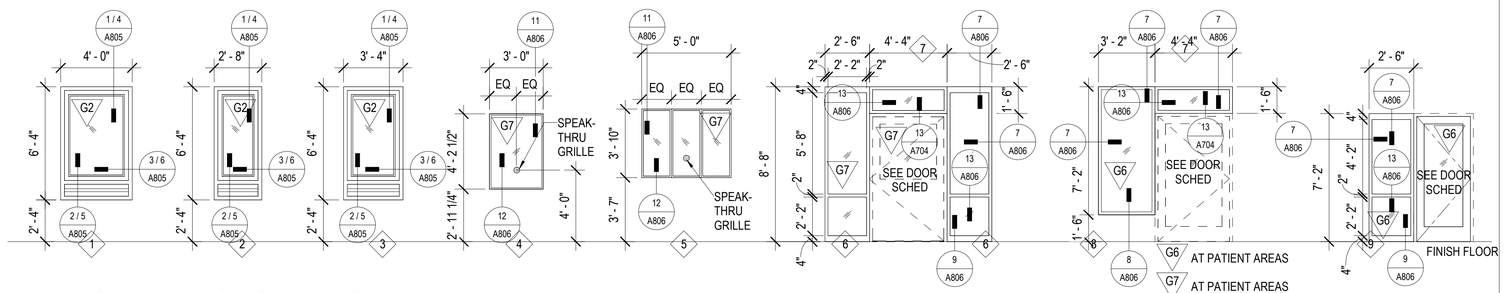
SHEET NAME
DOOR DETAILS

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A706
SHEET ISSUE DATE	
07/21/25	

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WINDOW TYPES



BH WINDOW VENTILATOR INTEGRAL BLIND LARGE MISSILE IMPACT RATED

BH WINDOW VENTILATOR INTEGRAL BLIND LARGE MISSILE IMPACT RATED

BH WINDOW VENTILATOR INTEGRAL BLIND LARGE MISSILE IMPACT RATED

INTERIOR FIXED WINDOW W/ SPEAK THRU GRILLE

INTERIOR 3 PANEL FIXED WINDOW W/ SPEAK THRU GRILLE

INTERIOR FIXED WINDOW & TRANSOM

INTERIOR FIXED WINDOW & TRANSOM

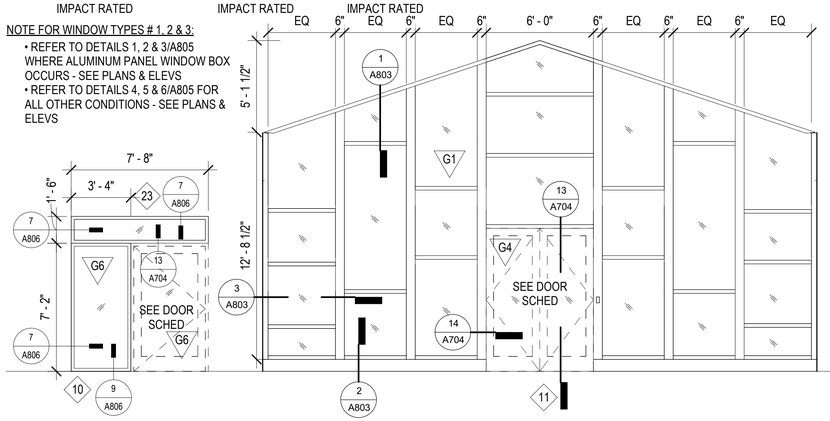
INTERIOR FIXED WINDOW

G6 AT PATIENT AREAS

G7 AT STAFF AREAS

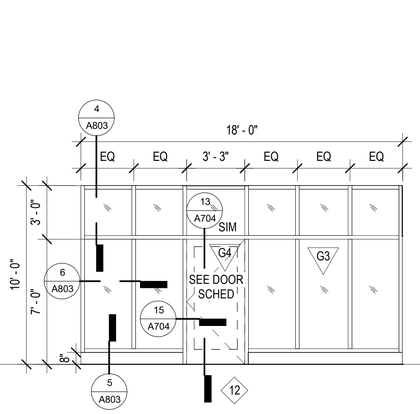
NOTE FOR WINDOW TYPES # 1, 2 & 3:

- REFER TO DETAILS 1, 2 & 3/A805 WHERE ALUMINUM PANEL WINDOW BOX OCCURS - SEE PLANS & ELEVS
- REFER TO DETAILS 4, 5 & 6/A805 FOR ALL OTHER CONDITIONS - SEE PLANS & ELEVS

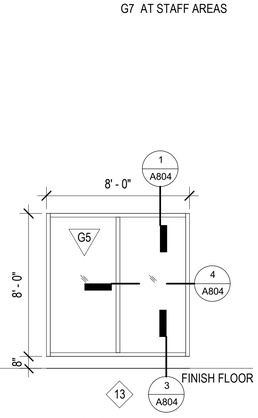


INTERIOR PATIENT WING FIXED WINDOW & TRANSOM

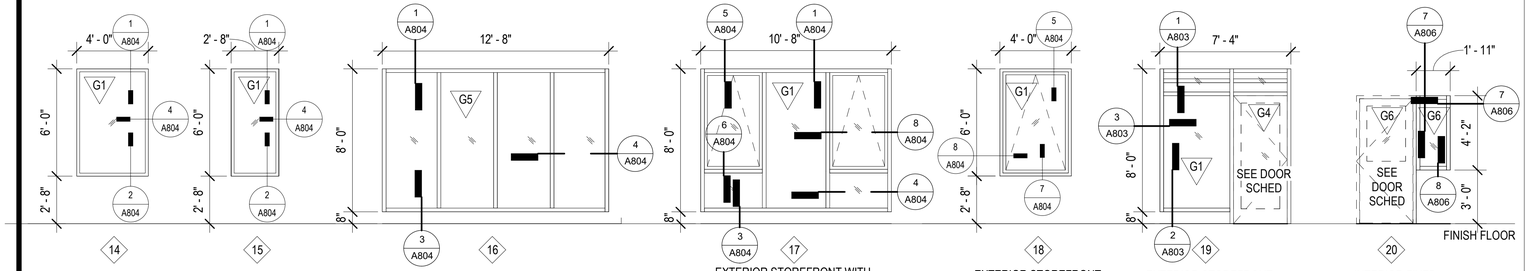
LOBBY EXTERIOR CURTAINWALL



DAYROOM EXTERIOR STOREFRONT



EXTERIOR STOREFRONT @ PATIENT CORRIDOR



EXTERIOR STOREFRONT

EXTERIOR STOREFRONT @ CHART

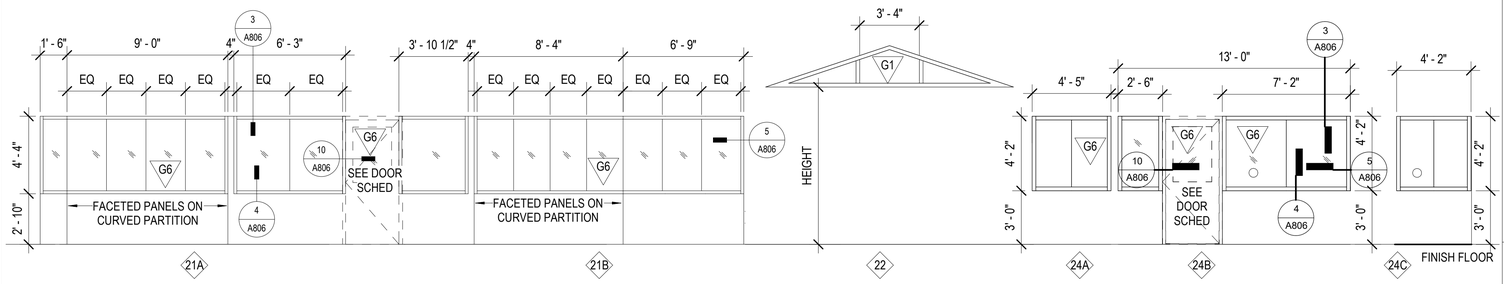
EXTERIOR STOREFRONT @ DAYROOM

EXTERIOR STOREFRONT WITH OPERABLE AWNING WINDOW @ BREAK ROOM

EXTERIOR STOREFRONT WITH OPERABLE AWNING WINDOW @ STAFF CORRIDOR

EXTERIOR STOREFRONT @ CRC LOBBY

INTERIOR FIXED WINDOW



INTERIOR PATIENT WING FIXED WINDOW @ NURSE STATION

EXTERIOR STOREFRONT @ DAYROOM DORMER

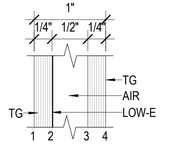
INTERIOR FIXED WINDOW @ CDC NURSE STATION

WINDOW & LOUVER NOTES LIST

1. GLASS IS 1/4" THICK, UNLESS NOTED OTHERWISE. SEE REMARKS LIST.
2. ALL WINDOW DIMENSIONS IN CMU WALLS ARE SHOWN AS NOMINAL DIMENSIONS. COORDINATE ALL WINDOW AND ROUGH OPENING DIMENSIONING WITH CMU BLOCK MODULE.
3. GLAZING TYPES:
   AG - ACOUSTIC GLASS
   BR - SECURITY GLASS - BALLISTIC RESISTANT
   CVG - CERAMIC COATED VISION GLASS
   FE - SECURITY GLASS - FORCED ENTRY
   FG - FLOAT GLASS
   FR - FIRE RATED GLASS
   HR - HURRICANE RESISTANT GLASS
   HS - HEAT STRENGTHENED GLASS
   IG - INSULATED GLAZING
   LG - LAMINATED GLASS
   MG - ONE WAY VISION GLASS
   PC - POLYCARBONATE GLAZING
   SG - CERAMIC COATED SPANDREL GLASS
   TG - TEMPERED GLASS
   WG - WIRE GLASS
4. GLASS TREATMENTS:
   AIR - AIR SPACE
   ARG - ARGON-FILLED AIR SPACE
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   IP - IONOPLAST-POLYMER INTERLAYER
   SI - SECURITY LAMINATE INTERLAYER
5. LOUVER TYPES:
   A - ACOUSTICAL
   AB - ADJUSTABLE BLADE
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   SB - STANDARD BLADE
   SR - STORM RESISTANT
   SP - SIGHT PROOF
6. RATING:
   WINDOWS AND GLASS RATINGS AS APPLICABLE, ARE SHOWN IN MINUTES.
7. NOTE: CONTRACTOR SHALL VERIFY DIMENSIONS IN FIELD TO ACHIEVE ALL MULLION ALIGNMENTS WITH ADJACENT BUILDING COMPONENTS AS NOTED ON THE PLANS.
9. U-FACTORS LISTED IN IGU PROFILES BELOW ARE FOR THE TOTAL WINDOW ASSEMBLY, INCLUDING GLAZING AND FRAMES. IGU PROFILES:

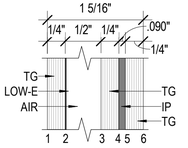
EXTERIOR

G1



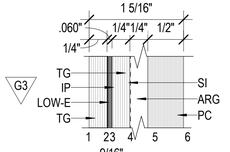
PERFORMANCE TARGETS
VLT = 60%
U-FACTOR = 0.27
SHGC = 0.25
BOD: #2 GUARDIAN SUNGUARD SNX 60+ CLEAR

G2



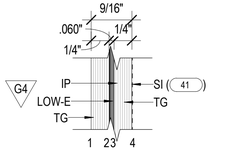
PERFORMANCE TARGETS
VLT = 60%
U-FACTOR = 0.26
SHGC = 0.25
BOD: #2 GUARDIAN SUNGUARD SNX 60+ CLEAR
#4 KURARAY SENTRYGLAS IONOPLAST

G3



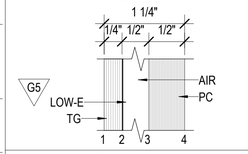
PERFORMANCE TARGETS
VLT = 51%
U-FACTOR = 0.49 (0.50 MAX)
SHGC = 0.24 (0.40 MAX)
BOD: #2 GUARDIAN SUNGUARD SNX 60+ CLEAR
#3 KURARAY SENTRYGLAS IONOPLAST
#4 ACE LAMINATES 200 SERIES SL9
#5 AZ POLYMERS AZCARB AR (COATED)

G4



PERFORMANCE TARGETS
VLT = 57%
U-FACTOR = 0.87 (1.10 MAX)
SHGC = 0.30 (0.40 MAX)
BOD: #2 GUARDIAN SUNGUARD SNX 60+ CLEAR
#3 KURARAY SENTRYGLAS IONOPLAST
#4 ACE LAMINATES 200 SERIES SL9 (41)

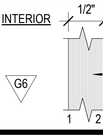
G5



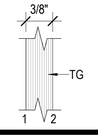
PERFORMANCE TARGETS
VLT = 58%
U-FACTOR = 0.25 (0.50 MAX)
SHGC = 0.26 (0.30 MAX)
BOD: #2 GUARDIAN SUNGUARD SNX 60+ CLEAR
#3 AZ POLYMERS AZCARB AR (COATED)

INTERIOR

G6



G7



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111 S. KING STREET, SUITE 170
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REVISIONS

#	Date	Description

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
WINDOW TYPES

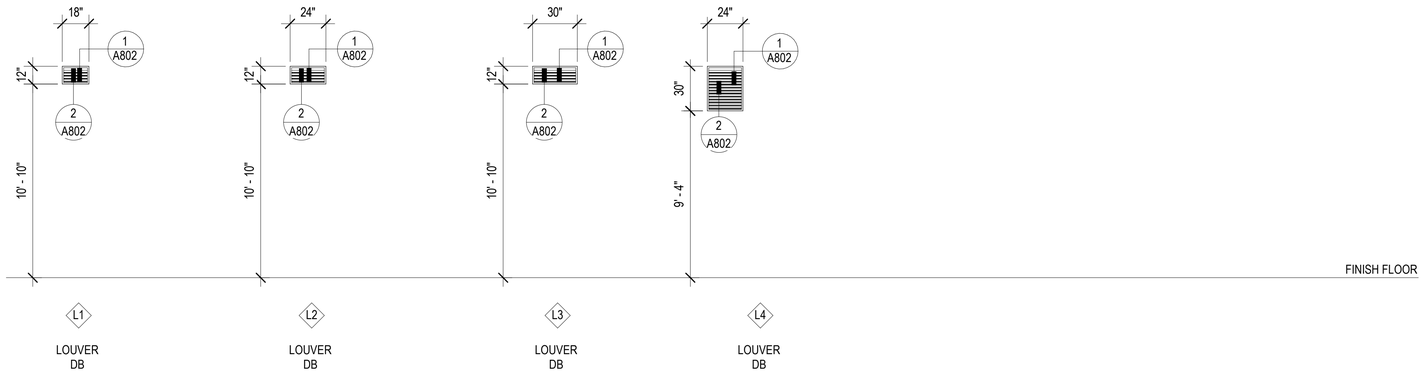
SCALE: As indicated

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A801
SHEET ISSUE DATE	
09/05/25	

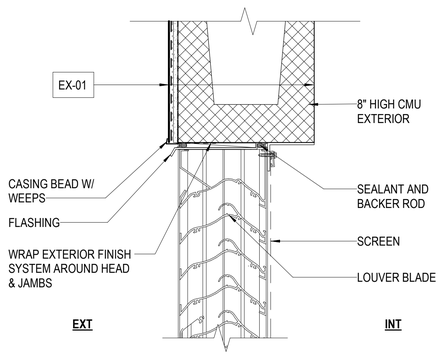
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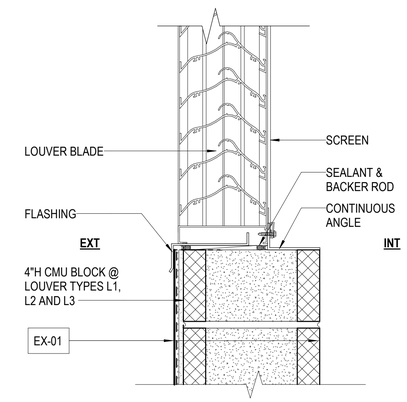
LOUVER TYPES



NOTE: SEE A108, A109, A110, AND A111 FOR LOUVER LOCATIONS



1 LOUVER HEAD (JAM SIM)
SCALE: 3" = 1'-0"



2 LOUVER SILL
SCALE: 3" = 1'-0"

WINDOW & LOUVER NOTES LIST

1. GLASS IS 1/4" THICK, UNLESS NOTED OTHERWISE. SEE REMARKS LIST.

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FILENAME
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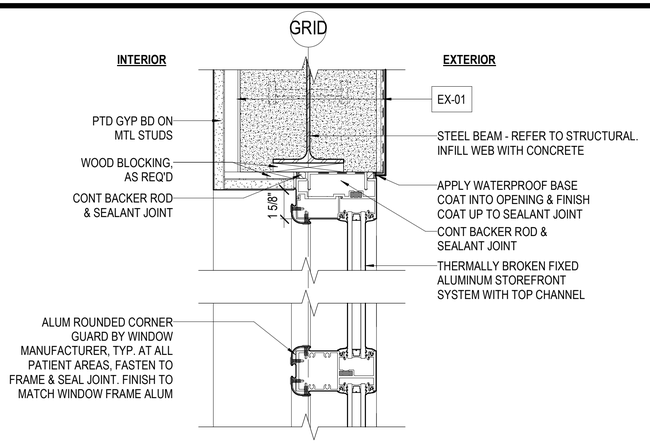
SHEET NAME
LOUVER TYPES & LOUVER DETAILS

SCALE: As indicated

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A802
SHEET ISSUE DATE	
09/29/25	

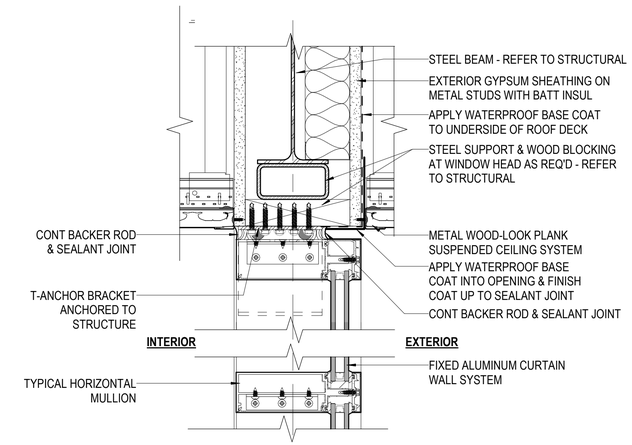
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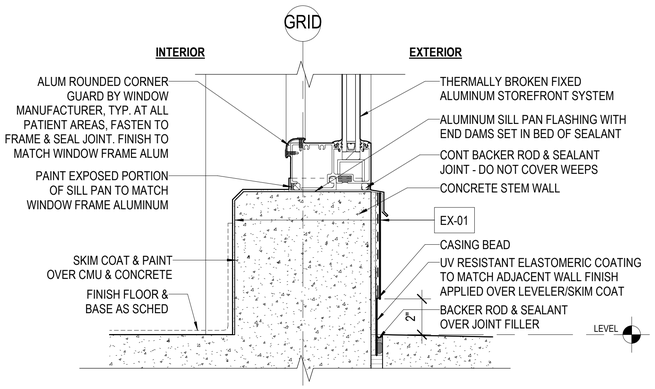
4 STOREFRONT HEAD DETAIL - DAYROOM

SCALE: 3" = 1'-0"



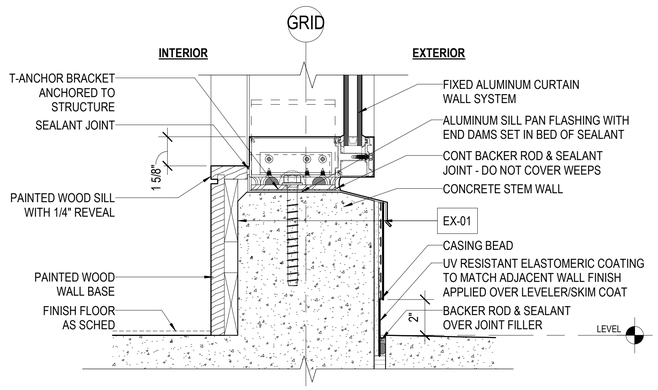
1 CURTAINWALL HEAD DETAIL - LOBBY

SCALE: 3" = 1'-0"



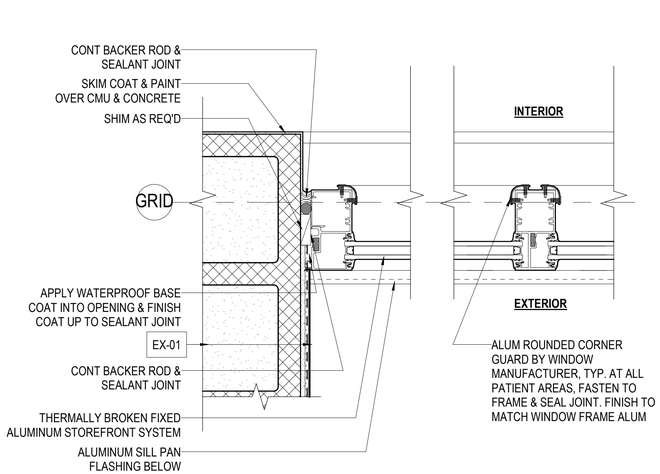
5 STOREFRONT SILL DETAIL - DAYROOM

SCALE: 3" = 1'-0"



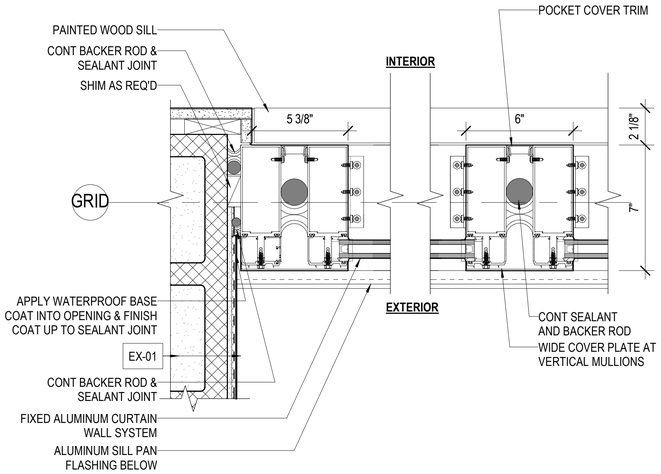
2 CURTAINWALL SILL DETAIL - LOBBY

SCALE: 3" = 1'-0"



6 STOREFRONT JAMB DETAIL - DAYROOM

SCALE: 3" = 1'-0"



3 CURTAINWALL JAMB DETAIL - LOBBY

SCALE: 3" = 1'-0"

G70

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02/27/26

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

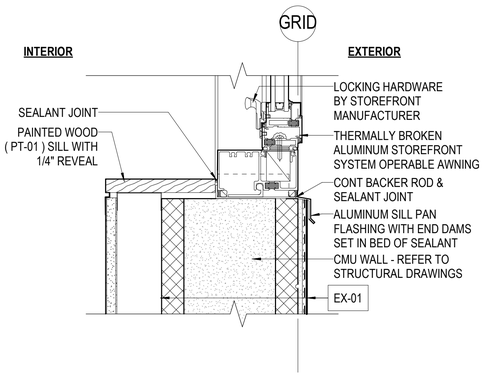
SHEET NAME
WINDOW DETAILS

SCALE: 3" = 1'-0"

DRAWN BY	CHECKED BY
Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A803
SHEET ISSUE DATE	
10/01/25	

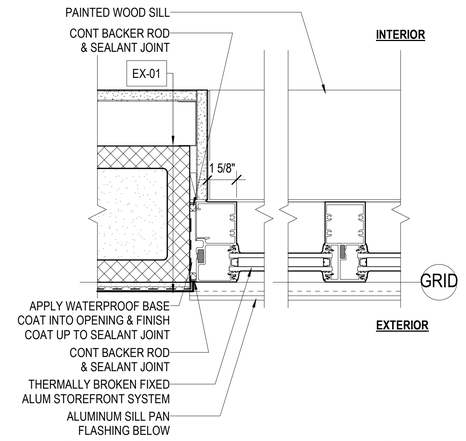
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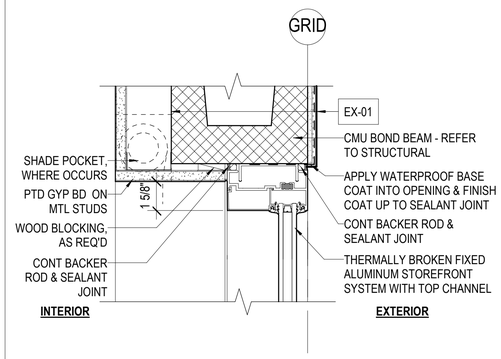
7 STOREFRONT SILL DETAIL - AWNING

SCALE: 3" = 1'-0"



4 STOREFRONT JAMB DETAIL - TYPICAL

SCALE: 3" = 1'-0"



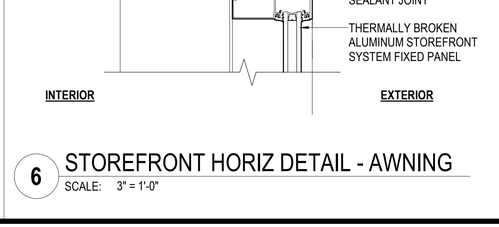
1 STOREFRONT HEAD DETAIL - TYPICAL

SCALE: 3" = 1'-0"



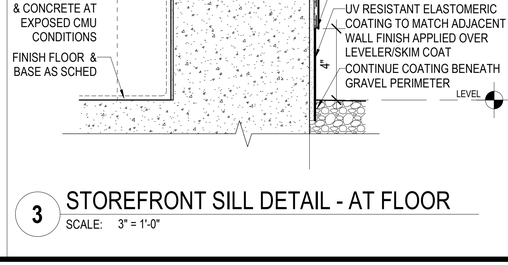
8 STOREFRONT JAMB DETAIL - AWNING

SCALE: 3" = 1'-0"



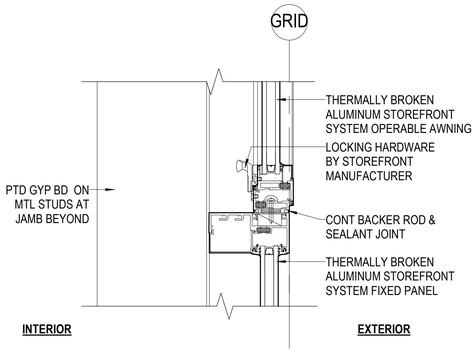
5 STOREFRONT HEAD DETAIL - AWNING

SCALE: 3" = 1'-0"



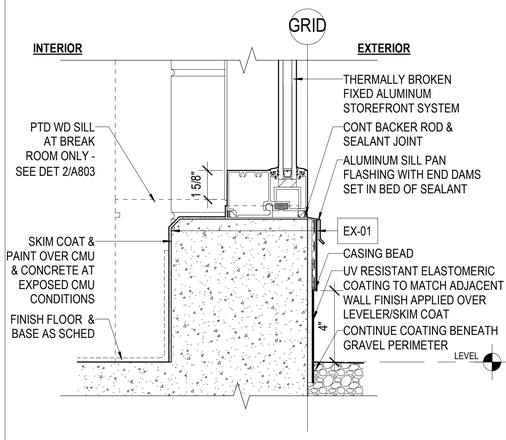
2 STOREFRONT SILL DETAIL - TYPICAL

SCALE: 3" = 1'-0"



6 STOREFRONT HORIZ DETAIL - AWNING

SCALE: 3" = 1'-0"



3 STOREFRONT SILL DETAIL - AT FLOOR

SCALE: 3" = 1'-0"

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

#	Date	Description

CD / BID SET

02/27/26

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TMK#: 4-6-014:113

FILENAME
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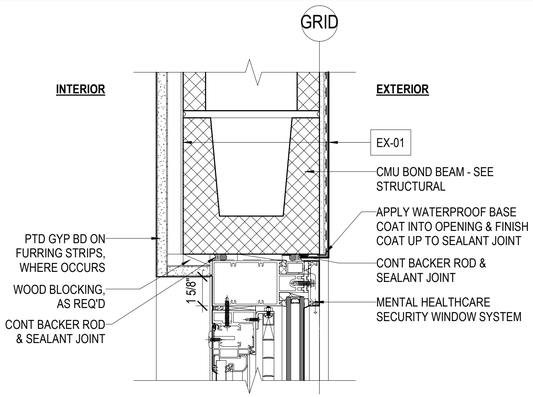
SHEET NAME
WINDOW DETAILS

SCALE: 3" = 1'-0"

DRAWN BY	CHECKED BY
Author	Checker
PROJECT NO.	**SHEET NO.**
221093-01	**A804**
SHEET ISSUE DATE	
10/01/25	

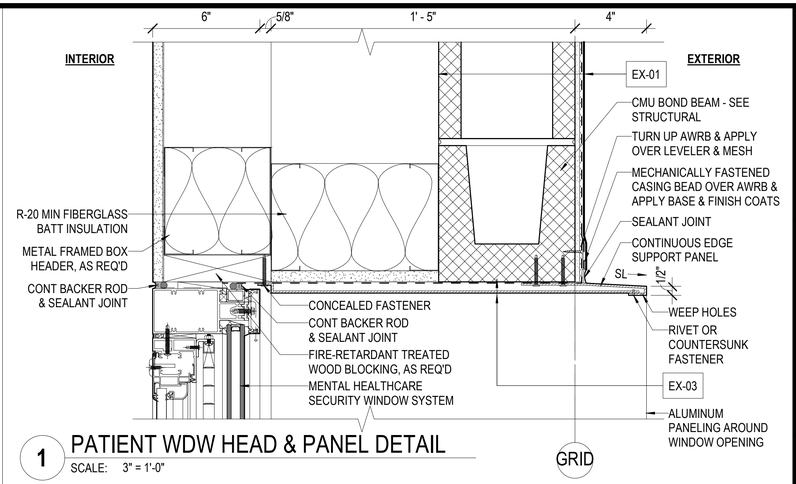
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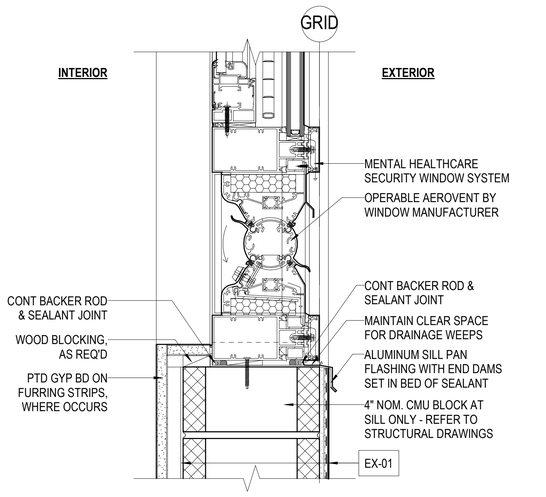
4 PATIENT WDW HEAD DETAIL

SCALE: 3" = 1'-0"



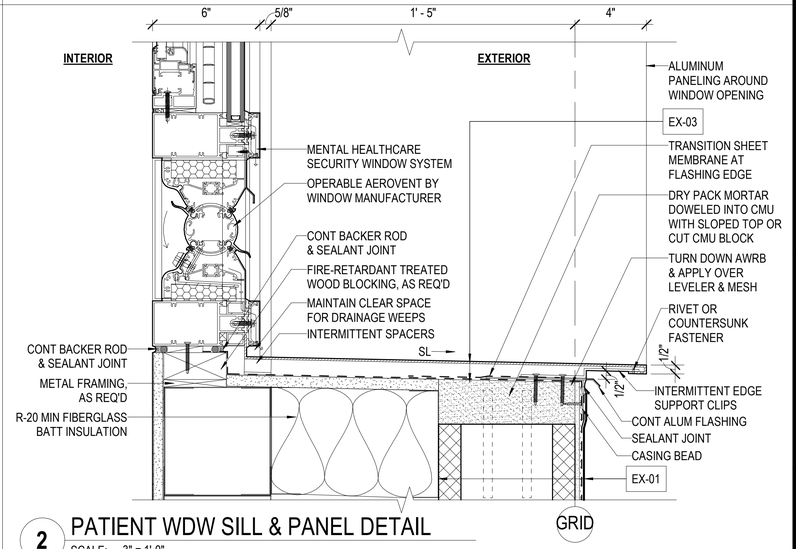
1 PATIENT WDW HEAD & PANEL DETAIL

SCALE: 3" = 1'-0"



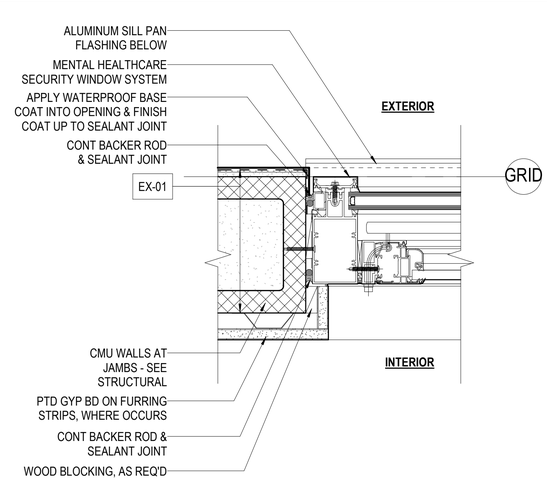
5 PATIENT WDW SILL DETAIL

SCALE: 3" = 1'-0"



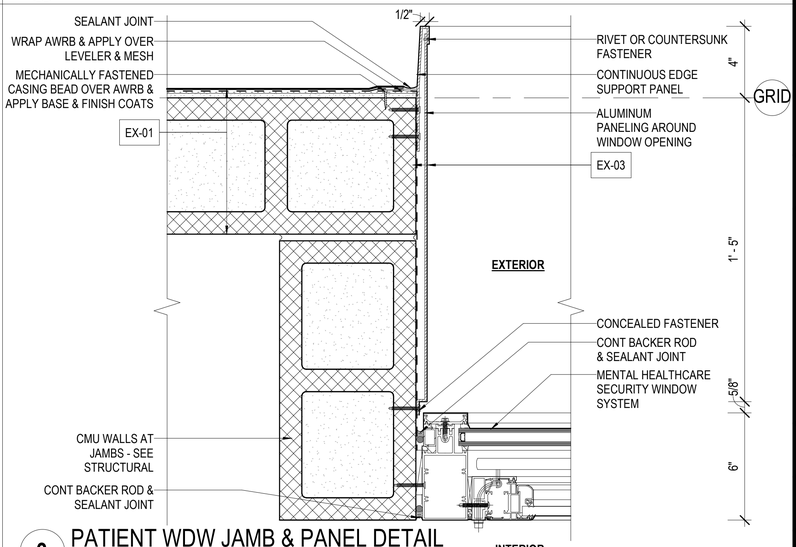
2 PATIENT WDW SILL & PANEL DETAIL

SCALE: 3" = 1'-0"



6 PATIENT WDW JAMB DETAIL

SCALE: 3" = 1'-0"



3 PATIENT WDW JAMB & PANEL DETAIL

SCALE: 3" = 1'-0"

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111 S. KING STREET, SUITE 170
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REVISIONS

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TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

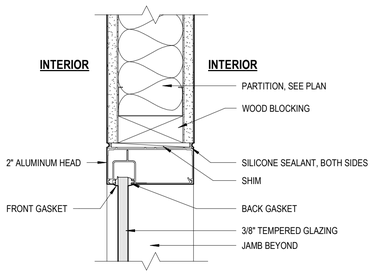
SHEET NAME
WINDOW DETAILS

SCALE: 3" = 1'-0"

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A805
SHEET ISSUE DATE	
10/01/25	

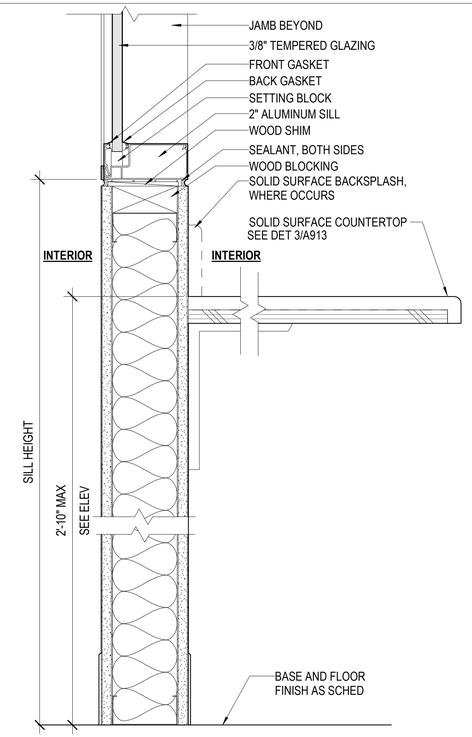
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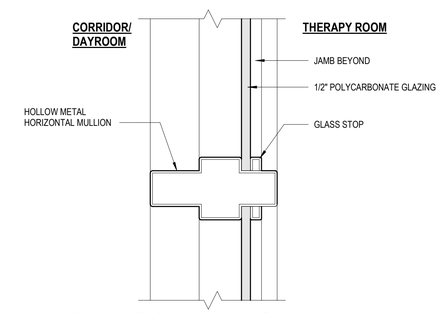
11 FIXED WINDOW, STAFF AREA, HEAD

SCALE: 3" = 1'-0"



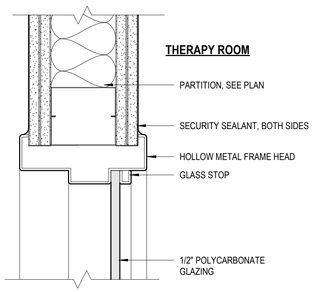
12 FIXED WINDOW, STAFF AREA, SILL

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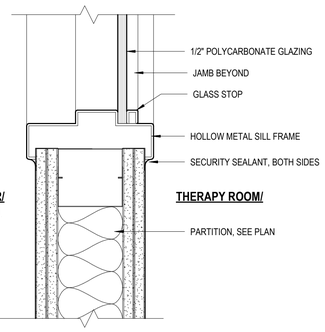
13 HM WINDOW, MULLION

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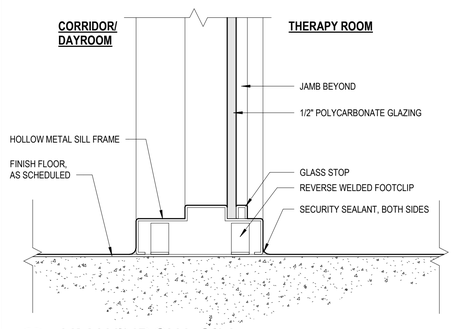
7 HM WINDOW, HEAD (JAMB SIM)

SCALE: 3" = 1'-0"



8 HM WINDOW, SILL

SCALE: 3" = 1'-0"



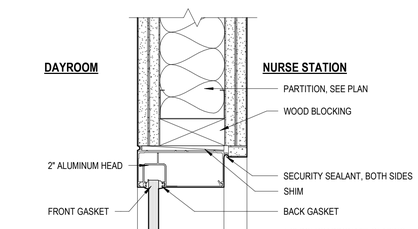
9 HM WINDOW, SILL

SCALE: 3" = 1'-0"



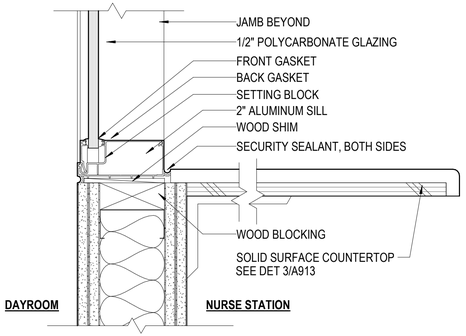
10 NURSE STATION WINDOW, JAMB AT DOOR

SCALE: 3" = 1'-0"



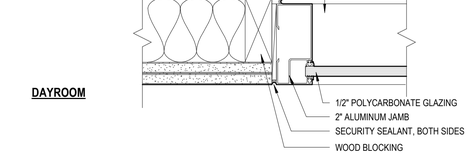
3 NURSE STATION WINDOW, HEAD

SCALE: 3" = 1'-0"



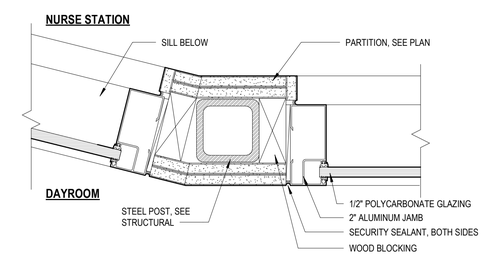
4 NURSE STATION WINDOW, SILL

SCALE: 3" = 1'-0"



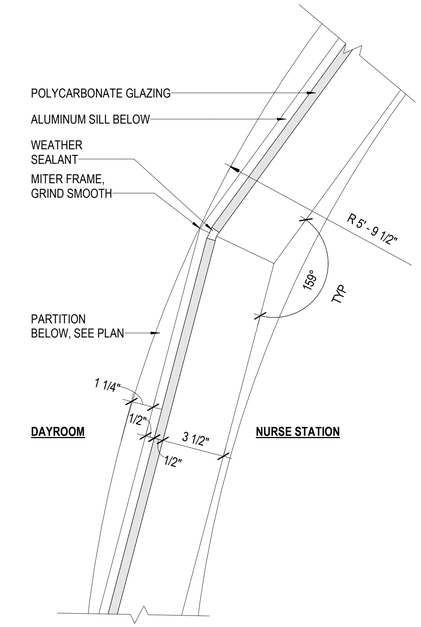
5 NURSE STATION WINDOW, JAMB

SCALE: 3" = 1'-0"



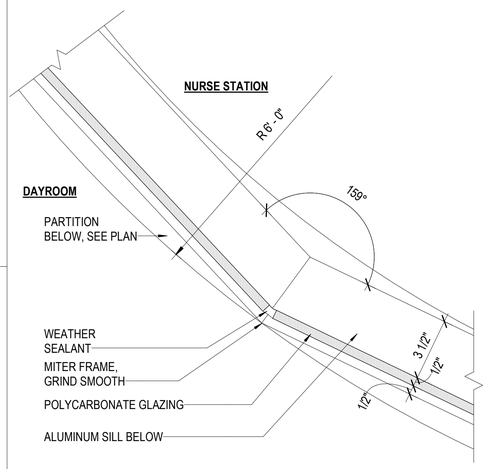
6 NURSE STATION WINDOW, JAMB AT POST

SCALE: 3" = 1'-0"



1 NURSE STATION, WINDOW 19A

SCALE: 3" = 1'-0"



2 NURSE STATION, WINDOW 19B

SCALE: 3" = 1'-0"

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111 S. KING STREET, SUITE 170
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REVISIONS

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SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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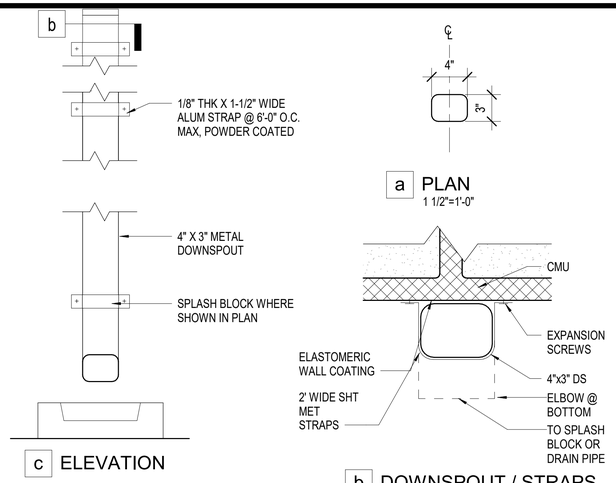
SHEET NAME
WINDOW DETAILS

SCALE: 3" = 1'-0"

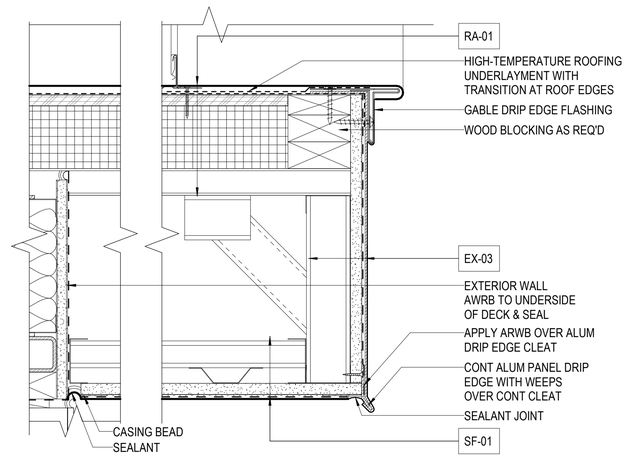
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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	**A806**
SHEET ISSUE DATE	
09/29/25	

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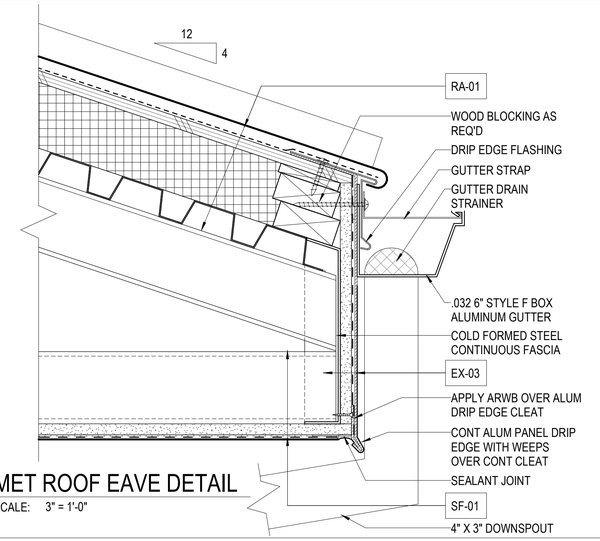
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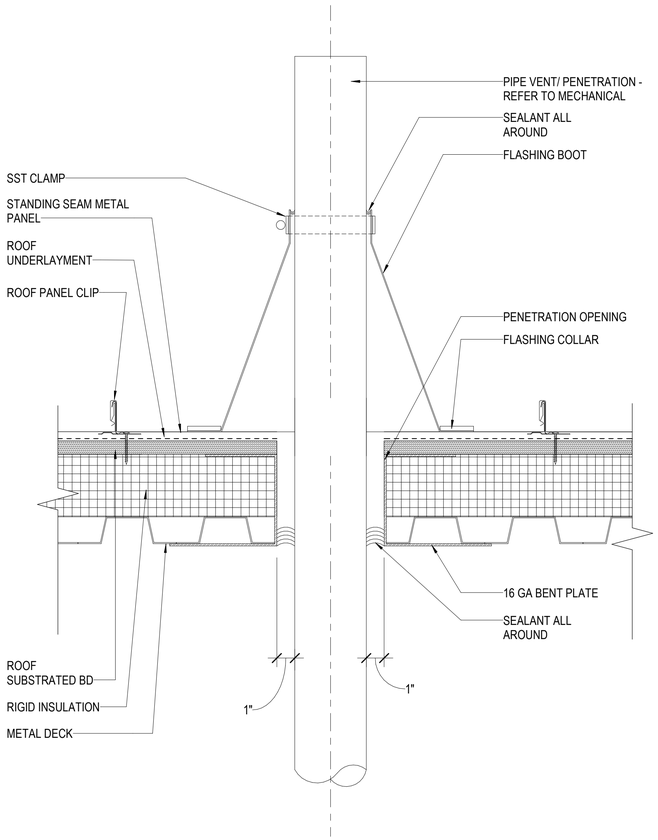
7 DOWNSPOUT DETAIL
SCALE: 1 1/2" = 1'-0"



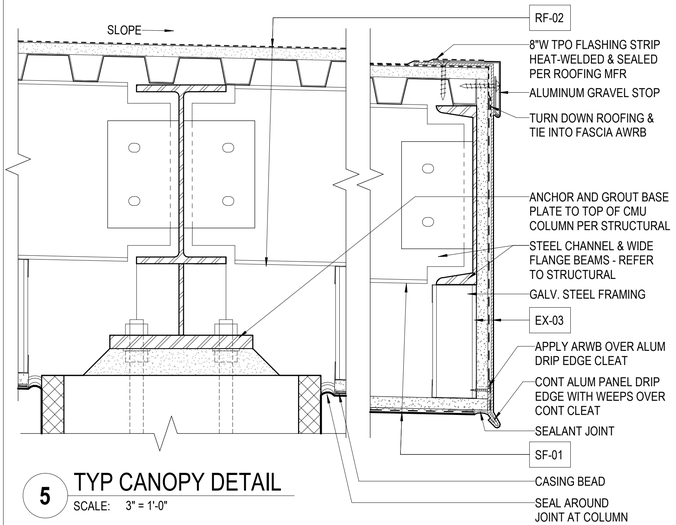
4 TYP METAL ROOF GABLE DETAIL
SCALE: 3" = 1'-0"



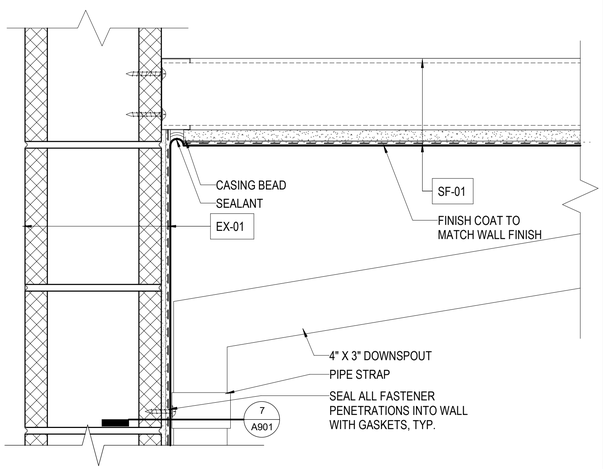
1 MET ROOF EAVE DETAIL
SCALE: 3" = 1'-0"



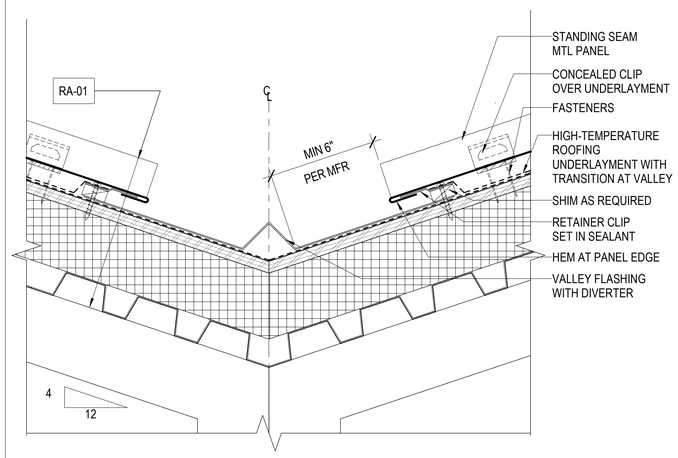
9 ROOF TYP PENETRATION
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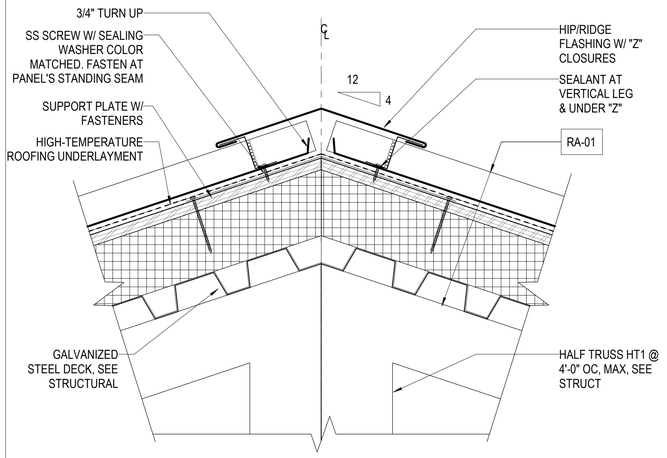
5 TYP CANOPY DETAIL
SCALE: 3" = 1'-0"



2 DEFS SOFFIT DETAIL
SCALE: 3" = 1'-0"



6 VALLEY FLASHING
SCALE: 3" = 1'-0"



3 RIDGE/HIP FLASHING
SCALE: 3" = 1'-0"

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111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
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WWW.G70.DESIGN

REVISIONS

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TMK#: 4-6-014:113

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Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

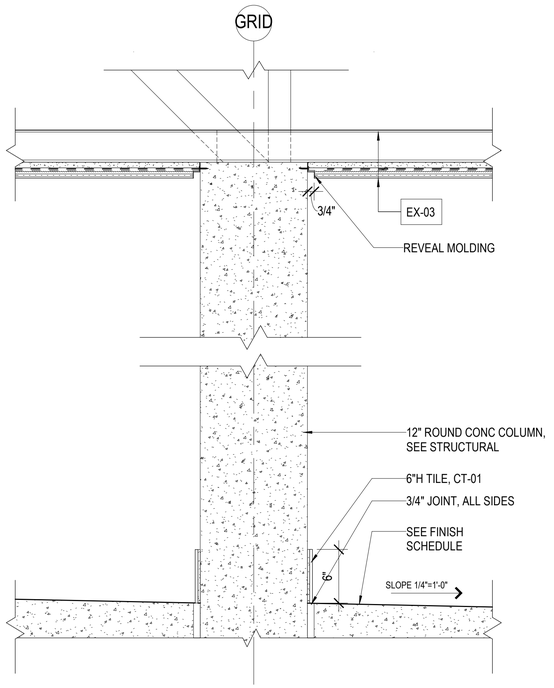
SHEET NAME
METAL ROOFING DETAILS

SCALE: As indicated

DRAWN BY	CHECKED BY
Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A901
SHEET ISSUE DATE	
09/05/25	

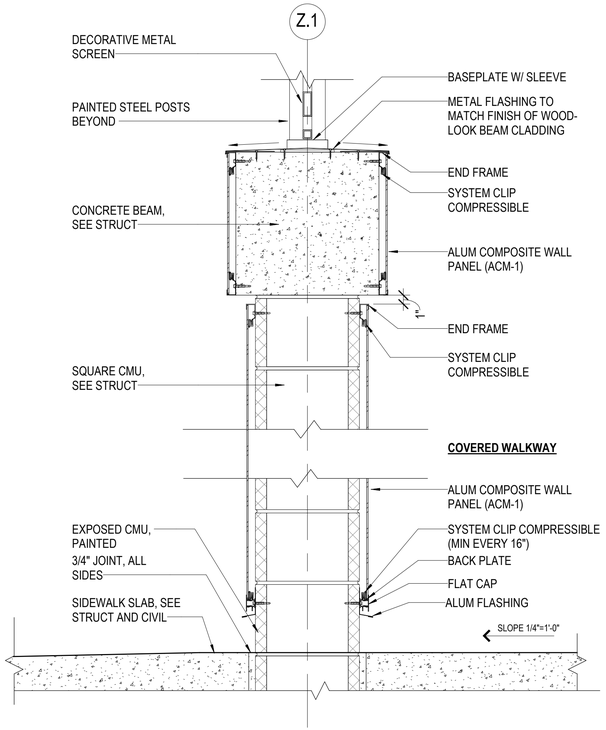
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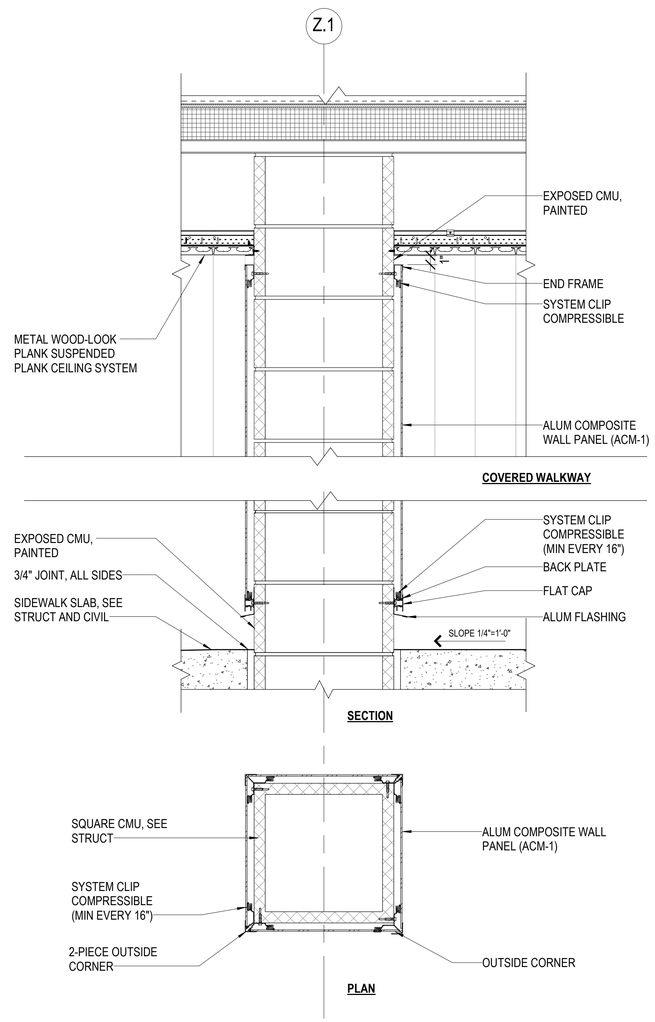
5 SECURED YARD COLUMN DETAIL

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



3 MAIN ENTRY SMALL COLUMN DETAIL

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

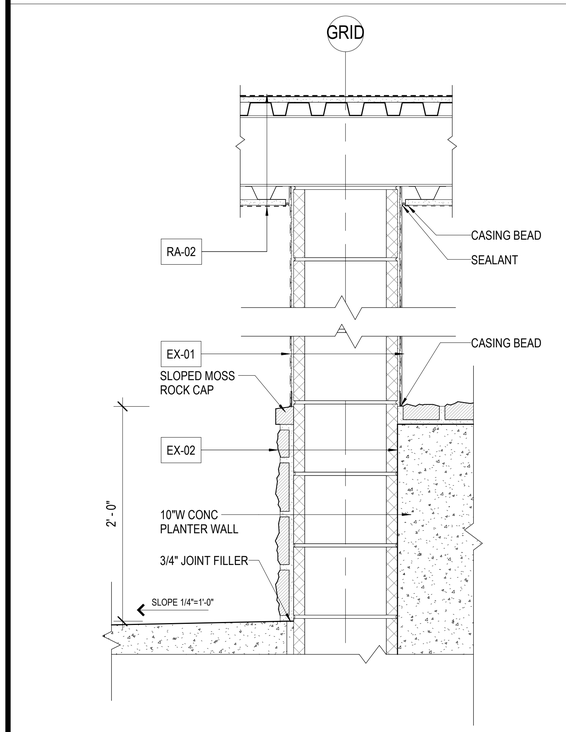


SECTION

PLAN

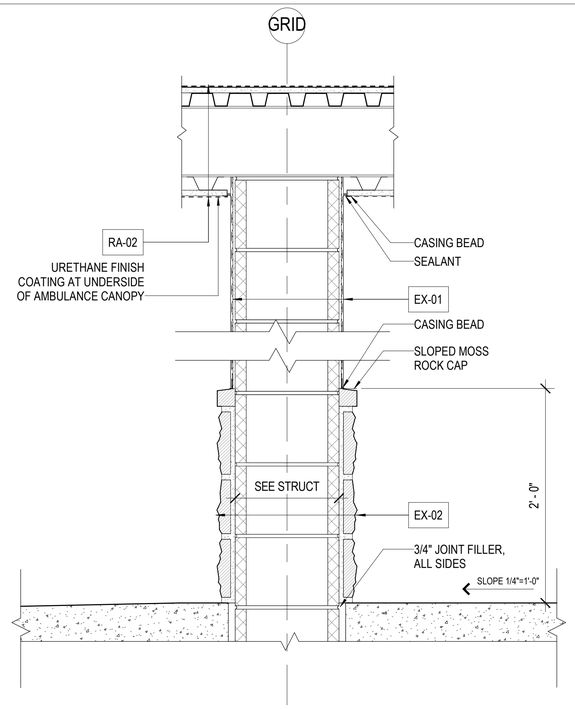
1 MAIN ENTRY LARGE COLUMN DETAIL

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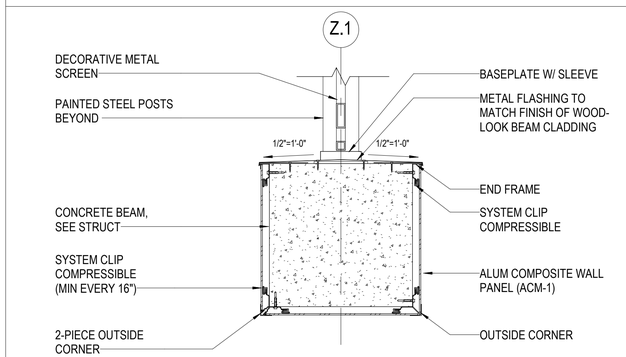
6 COLUMN EMBEDDED IN PLANTER DETAIL

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



4 DEFS MOSS ROCK COLUMN DETAIL, TYP

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



2 METAL CLADDING @ FRONT ENTRY BEAM

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

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

#	Date	Description

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

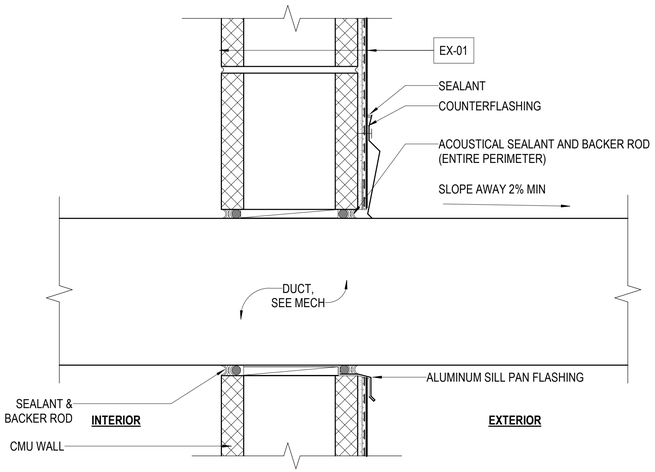
SHEET NAME
COLUMN DETAILS

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

DRAWN BY	CHECKED BY
Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A902
SHEET ISSUE DATE	
09/29/25	

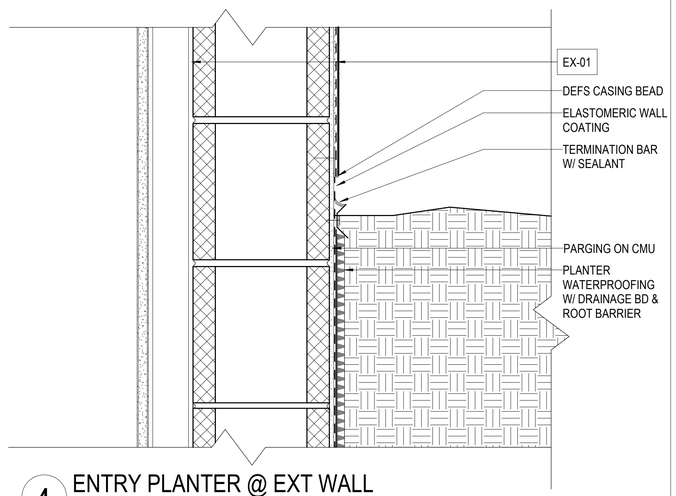
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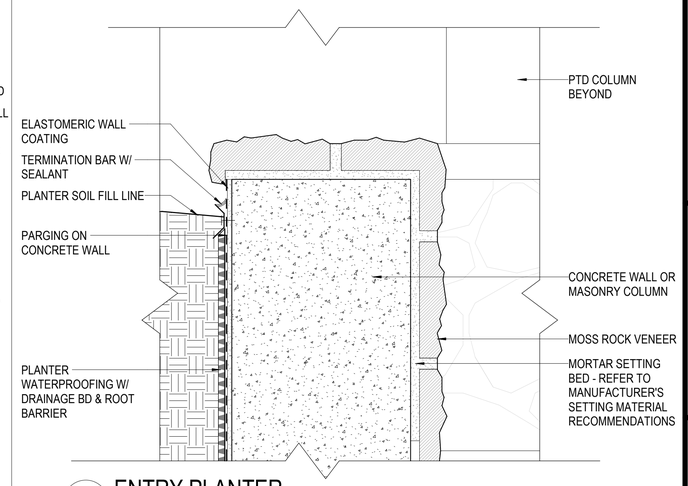
7 DUCT THRU WALL SECTION

SCALE: 3" = 1'-0"



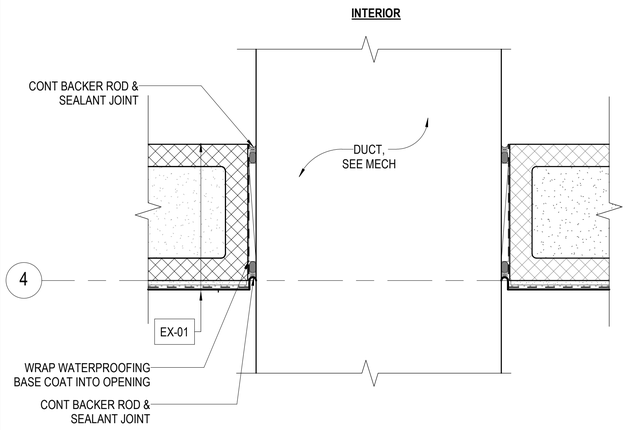
4 ENTRY PLANTER @ EXT WALL

SCALE: 3" = 1'-0"



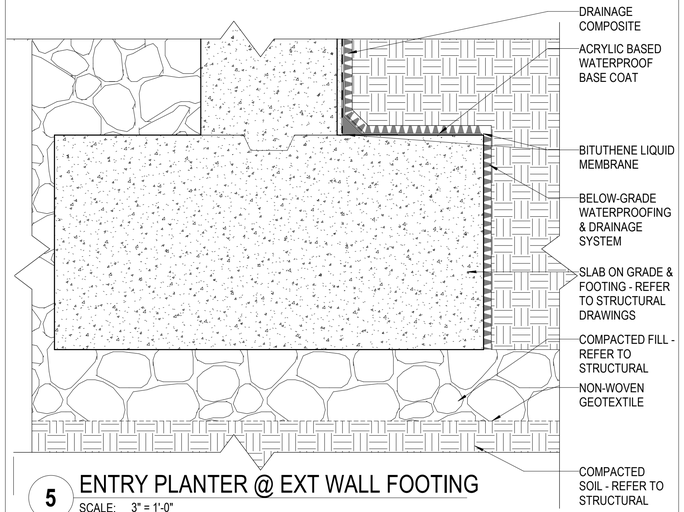
1 ENTRY PLANTER

SCALE: 3" = 1'-0"



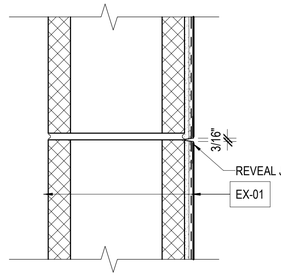
8 TYP DUCT PENETRATION JAMB PLAN

SCALE: 3" = 1'-0"



5 ENTRY PLANTER @ EXT WALL FOOTING

SCALE: 3" = 1'-0"



2 TYP DEFS REVEAL JOINT

SCALE: 3" = 1'-0"

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TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

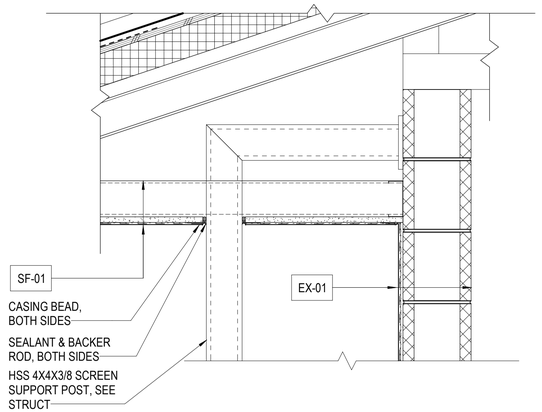
SHEET NAME
EXTERIOR WALL & PLANTER DETAILS

SCALE: 3" = 1'-0"

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A903
SHEET ISSUE DATE	
09/29/25	

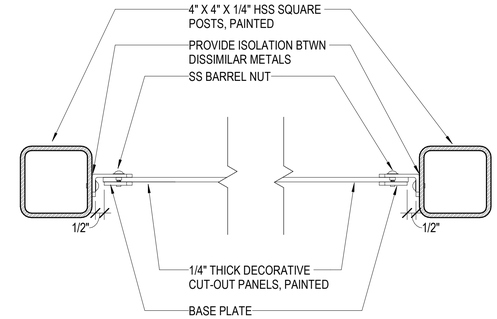
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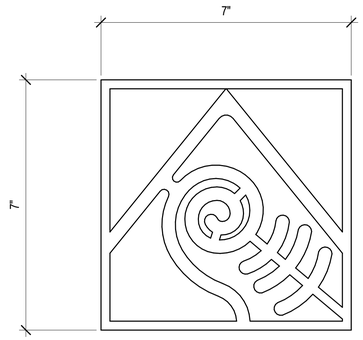
4 SCREEN POST TO SOFFIT DETAIL

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



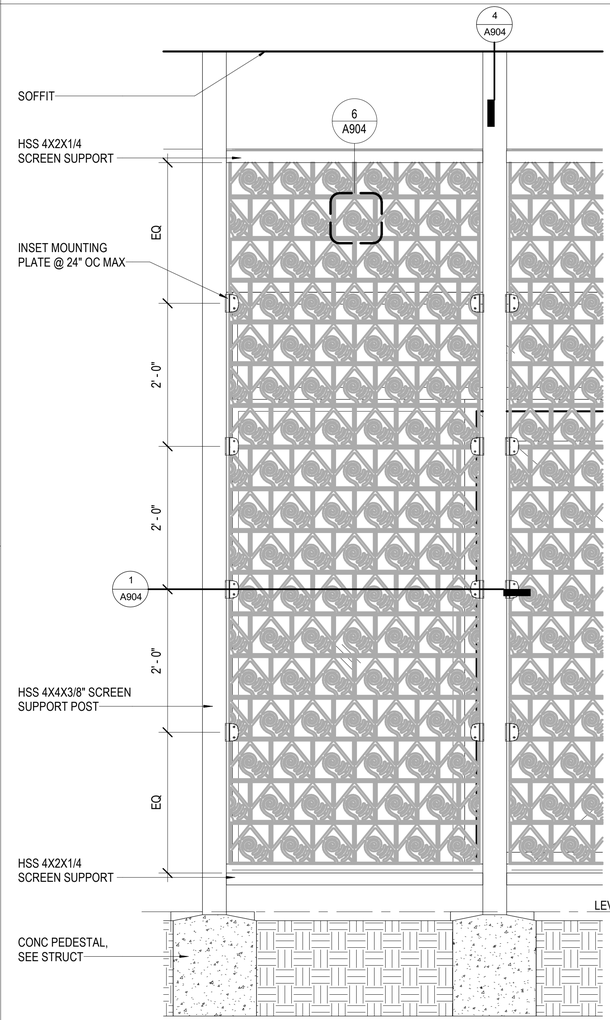
1 DECORATIVE SCREEN MOUNTING DETAIL

SCALE: 3" = 1'-0"



6 DECORATIVE SCREEN PATTERN

SCALE: 6" = 1'-0"



3 DECORATIVE SCREEN @ PATIENT COORIDOR

SCALE: 1" = 1'-0"

G70

111 S. KING STREET, SUITE 170
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REVISIONS

#	Date	Description

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

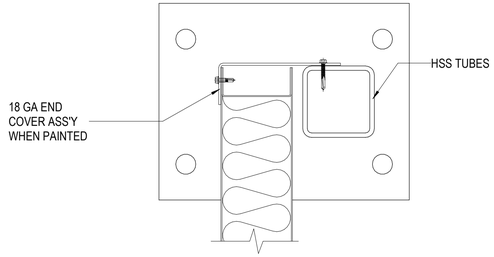
SHEET NAME
DECORATIVE SCREEN DETAILS

SCALE: As indicated

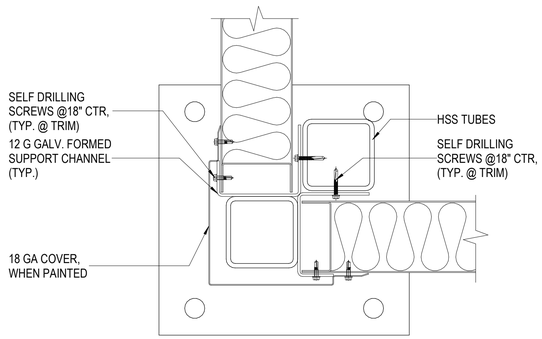
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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	**A904**
SHEET ISSUE DATE	
01/30/26	

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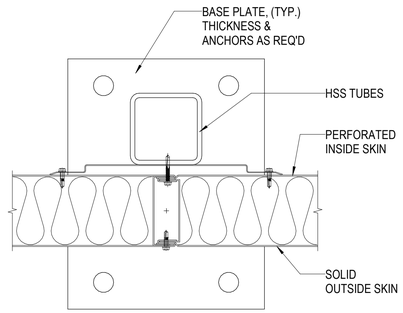
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TYP. END COLUMN CONNECTION



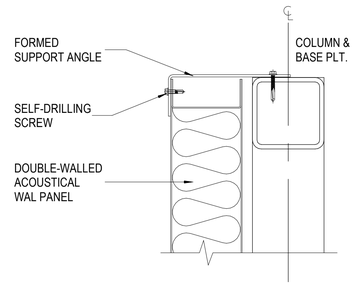
TYP. PANEL TO CORNER COLUMN CONNECTION



TYP. PANEL TO CENTER COLUMN CONNECTION

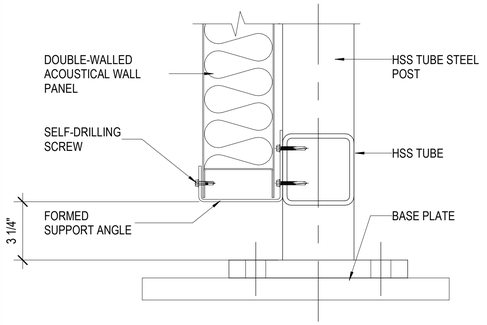
14 TYP PANEL CONNECTION DETAILS

SCALE: 3" = 1'-0"



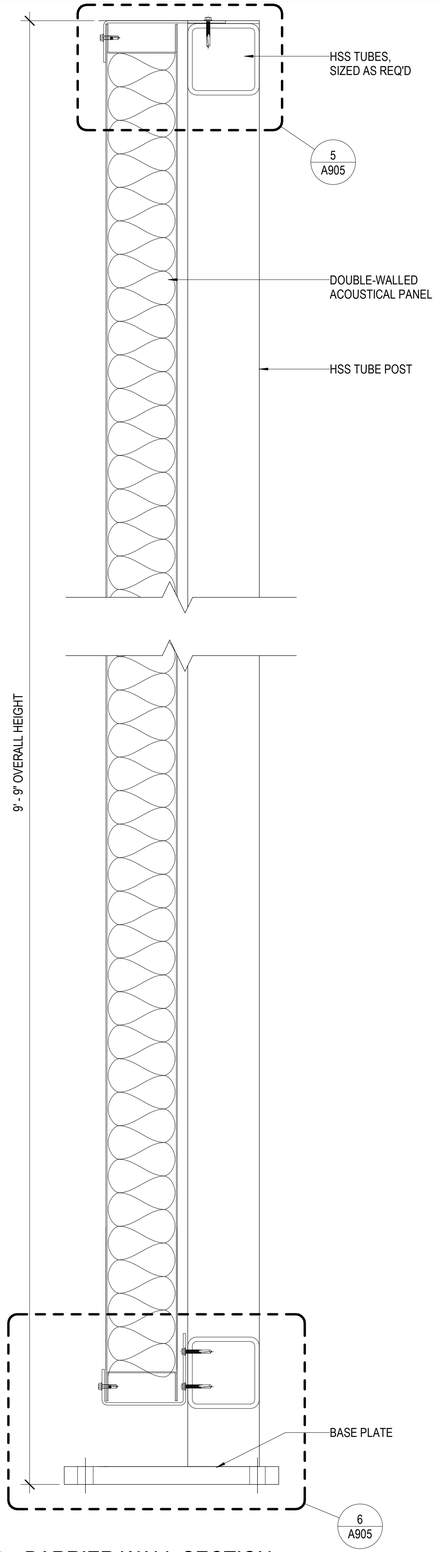
5 BARRIER WALL TOP WALL DETAIL

SCALE: 3" = 1'-0"



6 BARRIER WALL BASEPLATE DETAIL

SCALE: 3" = 1'-0"



4 BARRIER WALL SECTION

SCALE: 3" = 1'-0"

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

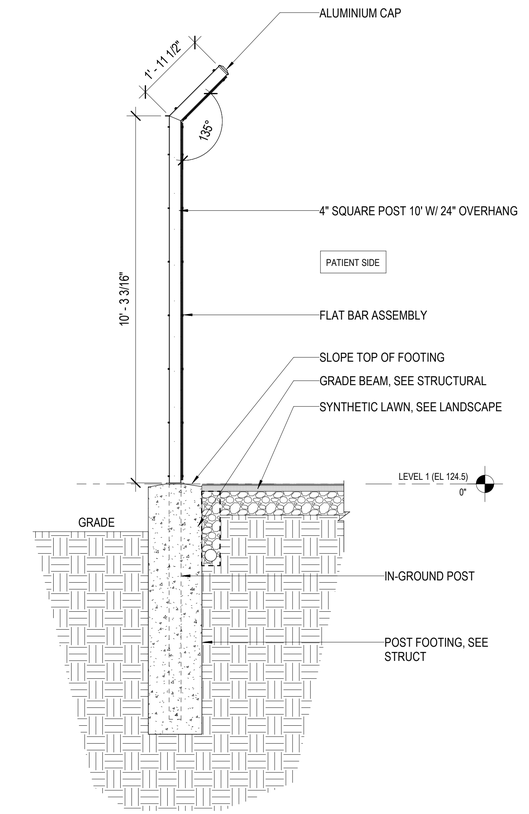
SHEET NAME
MECHANICAL YARD SCREEN DETAILS

SCALE: 3" = 1'-0"

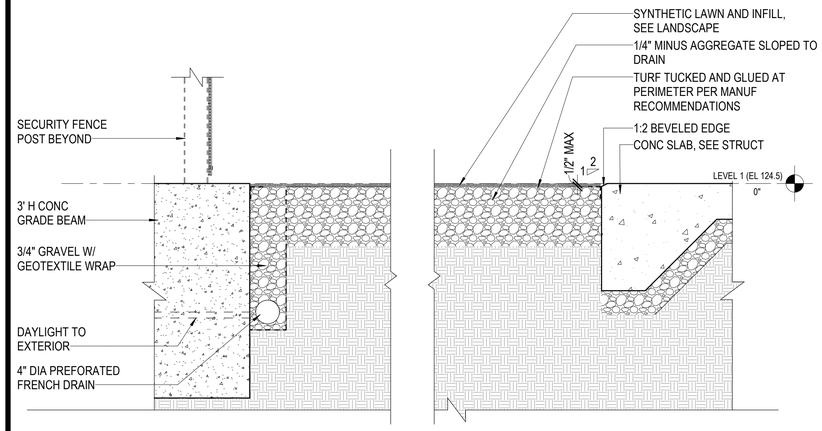
DRAWN BY	CHECKED BY
Author	Checker
PROJECT NO.	SHEET NO.
221093-01	**A905**
SHEET ISSUE DATE	
03/05/26	

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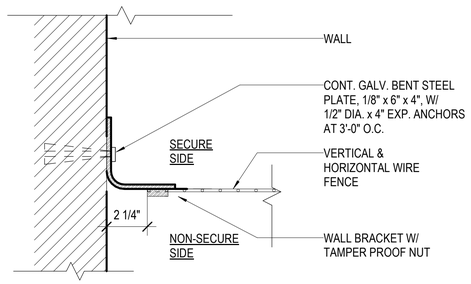
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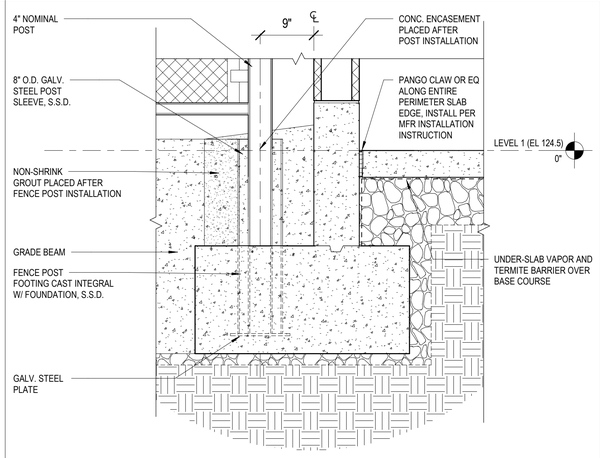
2 SECURITY FENCE SECTION
SCALE: 1/2" = 1'-0"



9 SECURED COURTYARD FLOOR SECTION AT SOG
SCALE: 1" = 1'-0"



6 SECURITY FENCE CLOSURE AT BUILDING
SCALE: 3" = 1'-0"



3 SECURITY FENCE CONNECTION AT BUILDING
SCALE: 1" = 1'-0"

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TMK#: 4-6-014:113

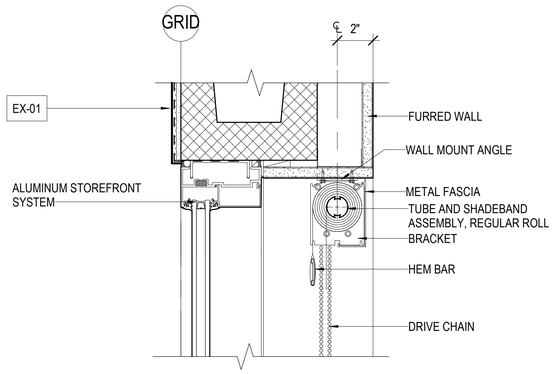
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SHEET NAME
SECURED YARD DETAILS

SCALE: As indicated

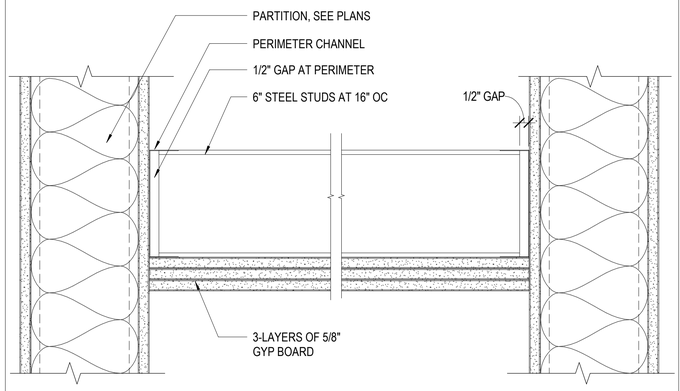
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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A906
SHEET ISSUE DATE	
09/29/25	

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7 ROLLER SHADE, TYP

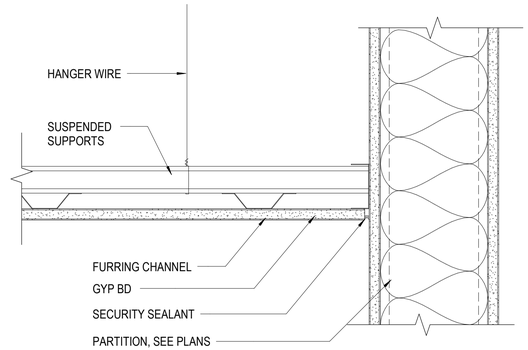
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DESIGN NO. I501, UL 263

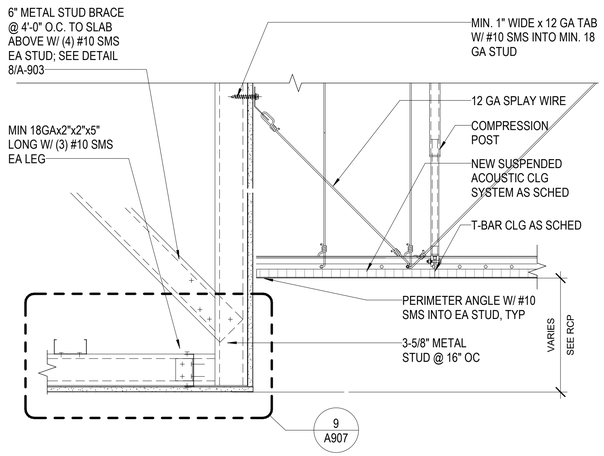
4 1-HOUR CEILING

SCALE: 3" = 1'-0"



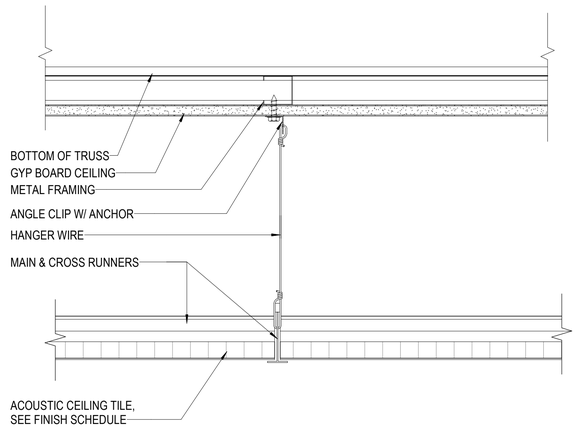
1 GYP BD CEILING, EDGE, TYP

SCALE: 3" = 1'-0"



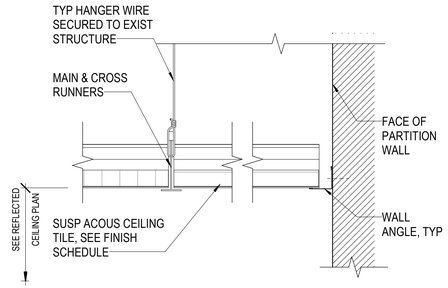
8 GYP BD SOFFIT TO ACT

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



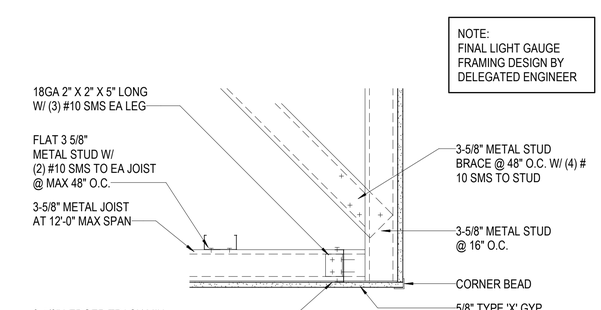
5 SUSPENDED SECURITY CEILING, MAIN SUPPORT

SCALE: 3" = 1'-0"



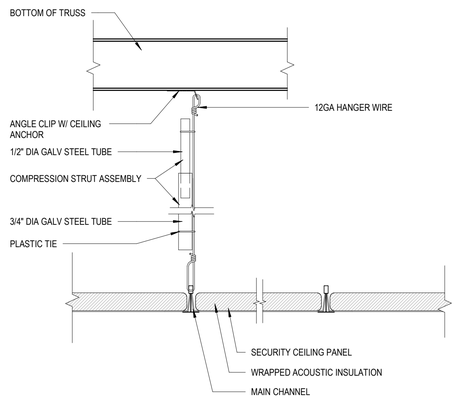
2 ACT CEILING, EDGE, TYP

SCALE: 3" = 1'-0"



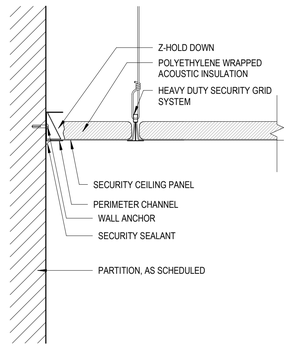
9 GYP BD SOFFIT, TYP

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



6 SUSPENDED SECURITY CEILING, MAIN SUPPORT

SCALE: 3" = 1'-0"



3 SUSPENDED SECURITY CEILING EDGE, TYP

SCALE: 3" = 1'-0"

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TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

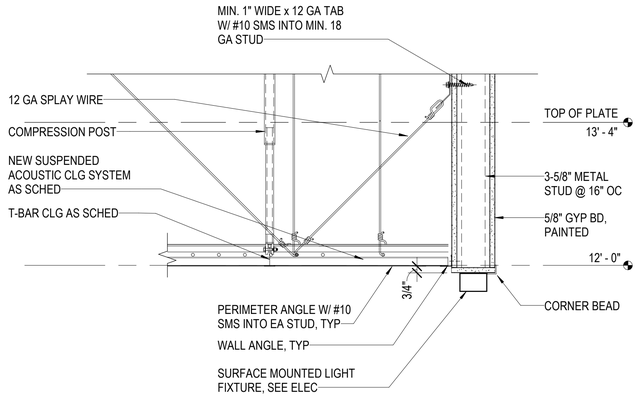
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CEILING DETAILS

SCALE: As indicated

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A907
SHEET ISSUE DATE	
09/29/25	

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1 DAYROOM ATRIUM SOFFIT

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

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Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
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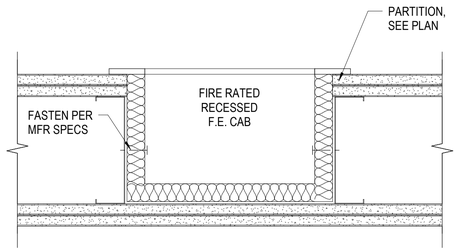
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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A908
SHEET ISSUE DATE	
09/29/25	

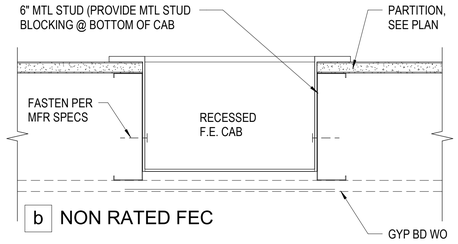
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NOTES:
1. SEE PLAN FOR LOCATION.
2. MOUNT FEC TO COMPLY W/ ADA REGULATIONS.

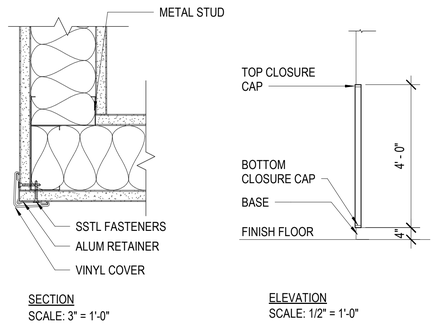


a 1 HR FIRE RATED FEC IN 1 HR PARTITIONS

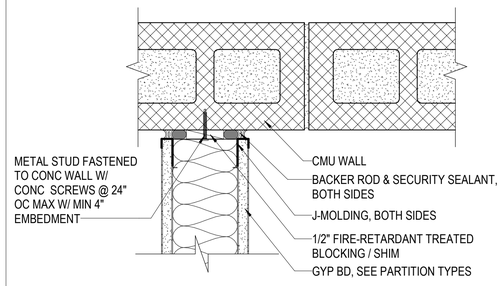


b NON RATED FEC

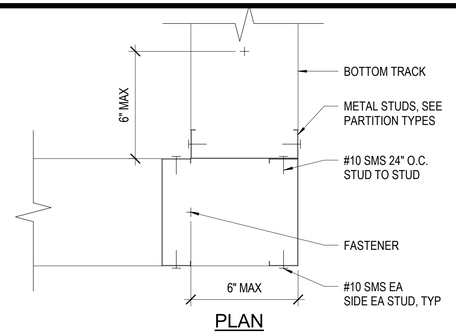
13 RECESSED FEC, TYP
SCALE: 3" = 1'-0"



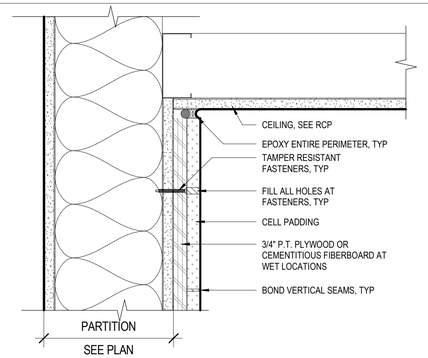
9 CORNER GUARD @ GYP BD WALLS
SCALE: 3" = 1'-0"



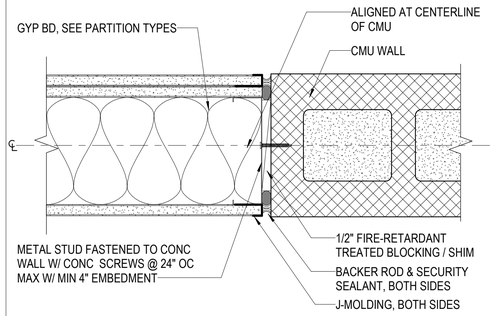
5 CMU/PARTITION INTERSECTION
SCALE: 3" = 1'-0"



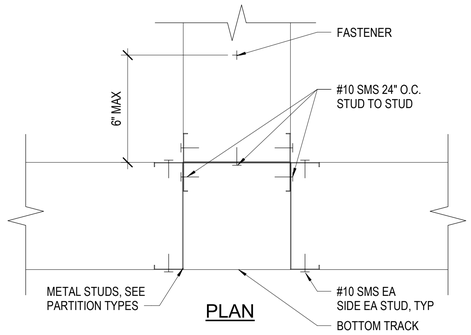
1 INTERSECTION OF STUDS, CORNER
SCALE: 3" = 1'-0"



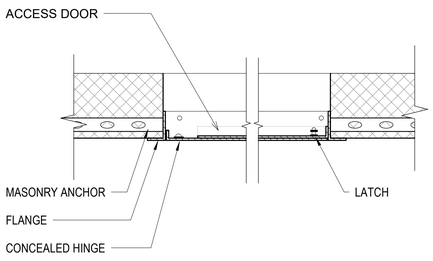
10 PADDED WALL AT CEILING
SCALE: 3" = 1'-0"



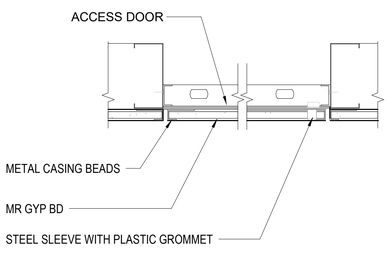
6 CMU/ PARTITION INTERSECTION, ALIGNED
SCALE: 3" = 1'-0"



2 INTERSECTION OF STUDS
SCALE: 3" = 1'-0"

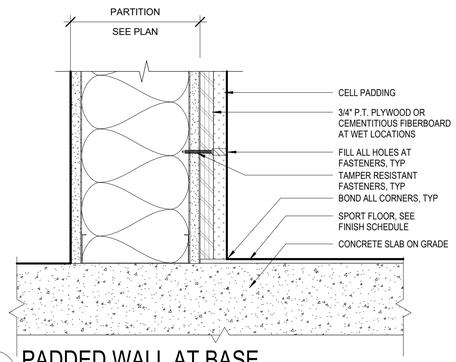


a AT MASONRY WALL

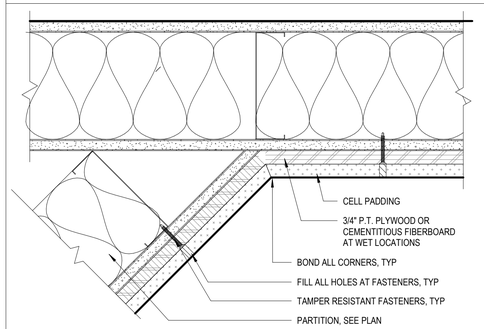


b AT GYP BD WALL

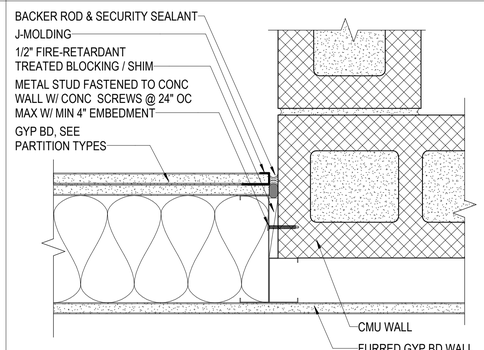
14 ACCESS PANEL, TYP
SCALE: 3" = 1'-0"



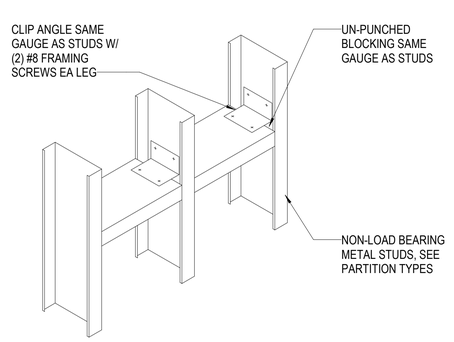
11 PADDED WALL AT BASE
SCALE: 3" = 1'-0"



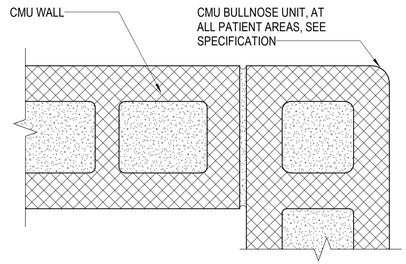
12 PADDED WALL AT INSIDE CORNER
SCALE: 3" = 1'-0"



7 CMU/ PARTITION INTERSECTION, FURRED
SCALE: 3" = 1'-0"

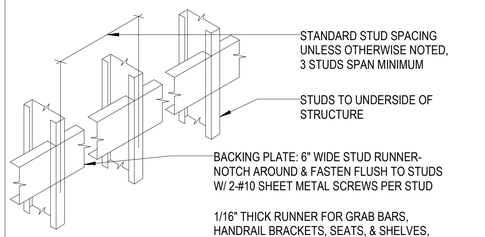


3 BLOCKING, TYP
SCALE: 1 1/2" = 1'-0"



8 ROUNDED CMU CORNER, TYP
SCALE: 3" = 1'-0"

NOTE: PROVIDE BACKING PLATE PER DETAIL OR PER MANUFACTURERS RECOMMENDATIONS AT ALL LOCATIONS WHICH REQUIRE ADDITIONAL SUPPORT - DECISION SHALL MAINTAIN ALL CODE COMPLIANCE



NOTE:
FINAL LIGHT GAUGE FRAMING DESIGN BY DELEGATED ENGINEER

4 BACKING PLATE, TYP
SCALE: 3" = 1'-0"

G70
111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

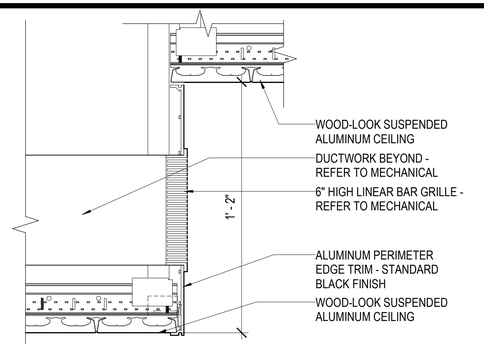
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
INTERIOR DETAILS

SCALE: As indicated

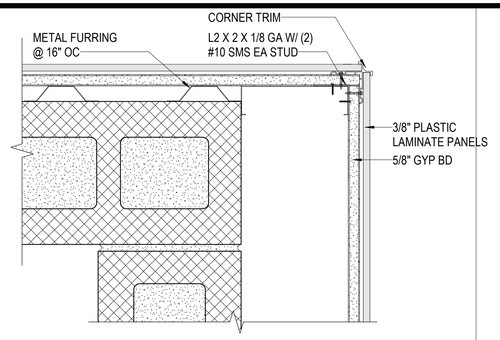
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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	**A909**
SHEET ISSUE DATE	
10/15/25	

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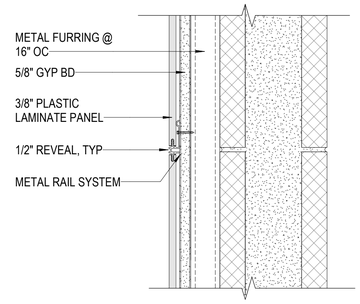
6 LOBBY CEILING FASCIA

SCALE: 3" = 1'-0"



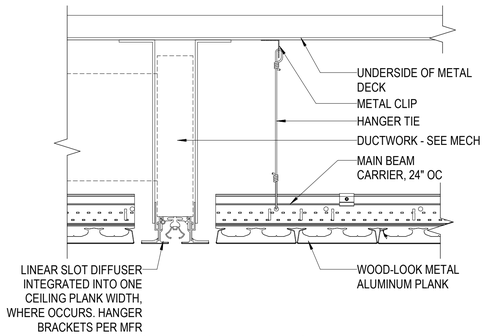
3 PLAM PANEL CORNER

SCALE: 3" = 1'-0"



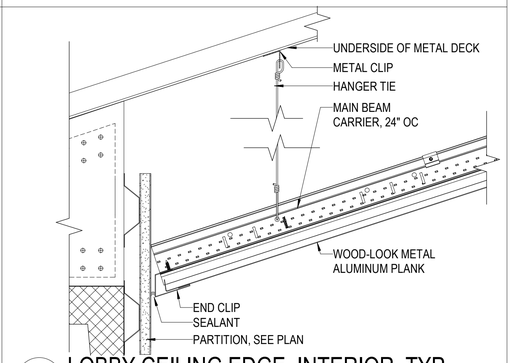
1 PLAM PANELS & REVEAL, TYP

SCALE: 3" = 1'-0"



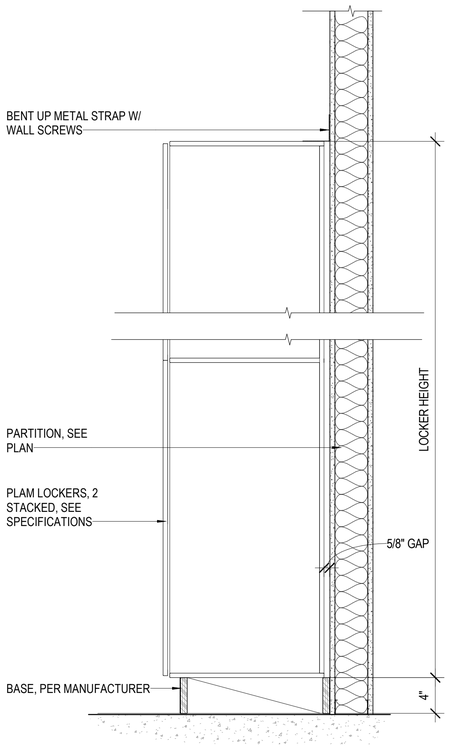
7 LOBBY CEILING, INTERIOR, TYP

SCALE: 3" = 1'-0"



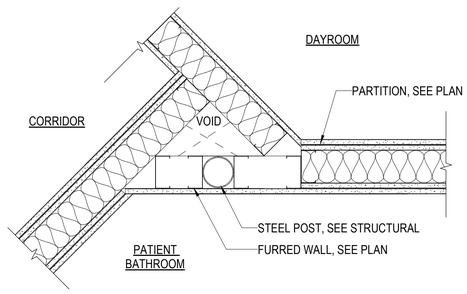
8 LOBBY CEILING EDGE, INTERIOR, TYP

SCALE: 3" = 1'-0"



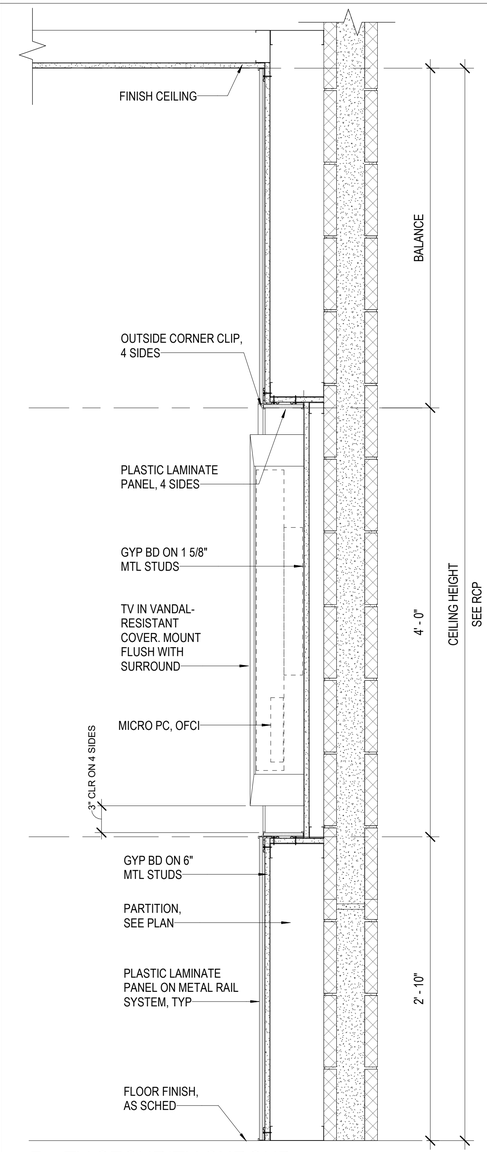
4 STAFF LOCKERS

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



5 VOID AT PATIENT BATHROOM

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



2 TV SECURITY SHROUD

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

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TMK#: 4-6-014:113

FILENAME
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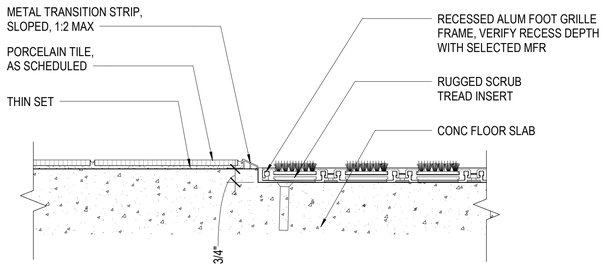
SHEET NAME
INTERIOR DETAILS

SCALE: As indicated

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A910
SHEET ISSUE DATE	
10/15/25	

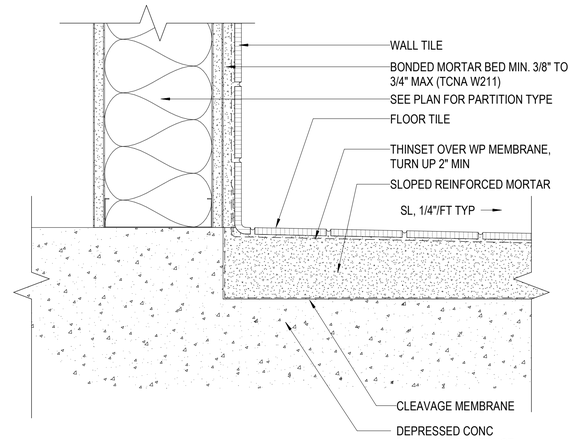
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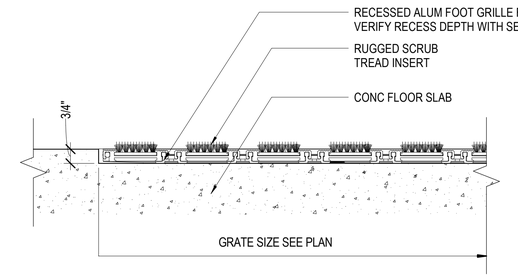
4 RECESSED WALK OFF MAT, INTERIOR

SCALE: 3" = 1'-0"



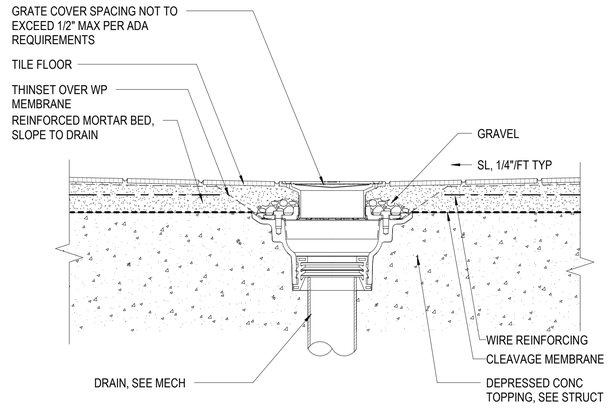
1 FLOOR/WALL AT DEPRESSED SLAB

SCALE: 3" = 1'-0"



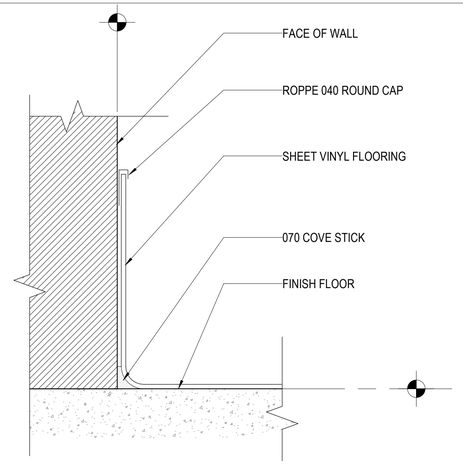
5 RECESSED WALK OFF MAT, EXTERIOR

SCALE: 3" = 1'-0"



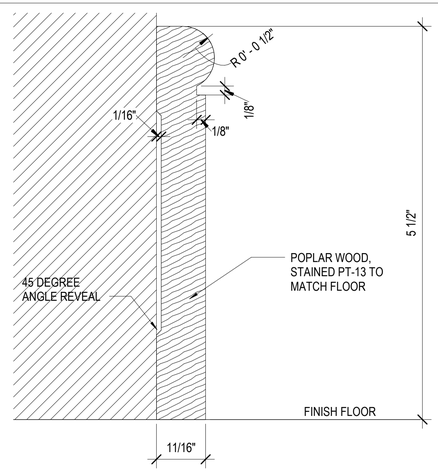
2 FLOOR DRAIN, TYP

SCALE: 3" = 1'-0"



6 COVE BASE, TYP

SCALE: 6" = 1'-0"



3 WOOD WALL BASE, TYP

SCALE: 12" = 1'-0"

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TMK#: 4-6-014:113

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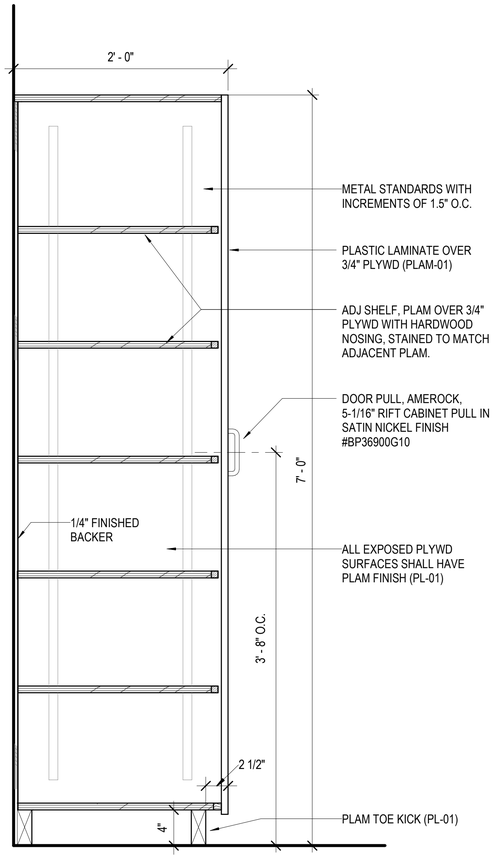
SHEET NAME
INTERIOR DETAILS

SCALE: As indicated

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A911
SHEET ISSUE DATE	
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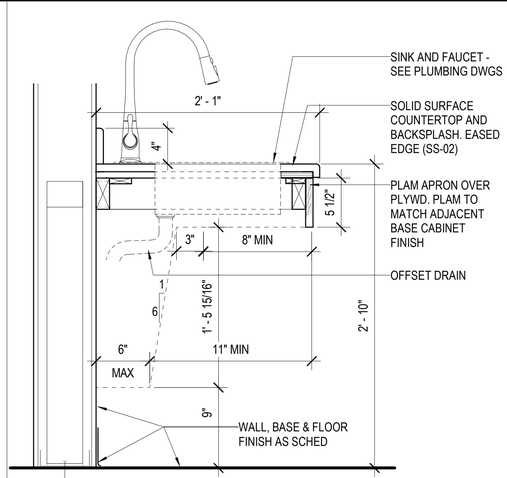
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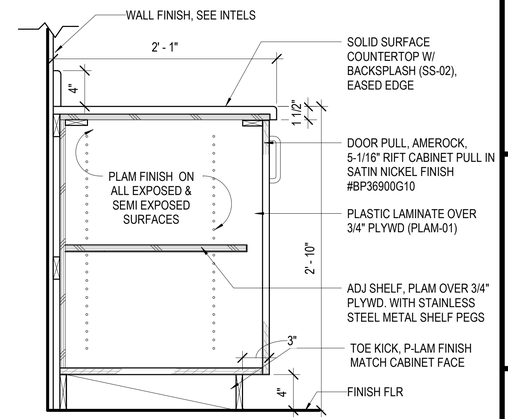
8 TYPICAL FULL HT CABINET

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



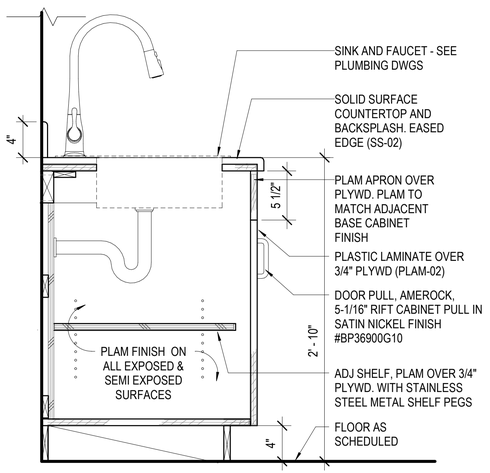
4 TYPICAL SINK W/ APRON

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



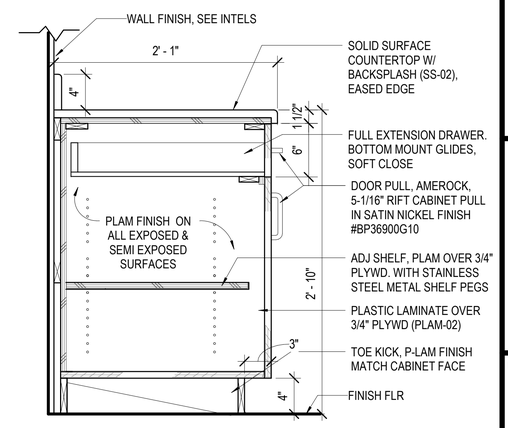
1 TYPICAL BASE CABINET - DOOR

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



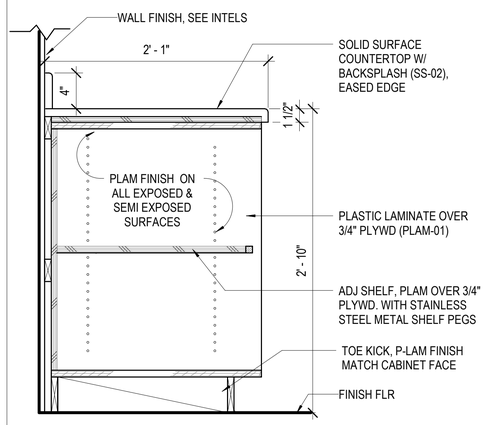
5 TYPICAL SINK WITH BASE CABINET

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



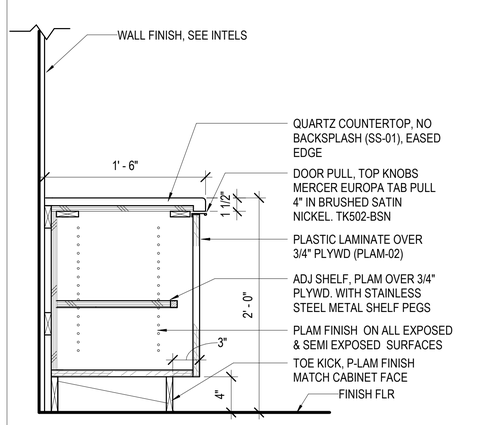
2 TYP BASE CABINET - DOOR + DRAWER

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



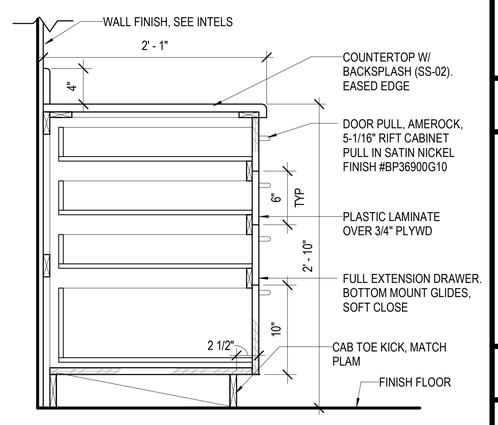
9 TYPICAL BASE CABINET - OPEN

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



6 BASE CABINET AT CONF ROOM MEDIA

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



3 TYPICAL BASE CABINET - 4 DRAWER

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

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REVISIONS

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TMK#: 4-6-014:113

FILENAME
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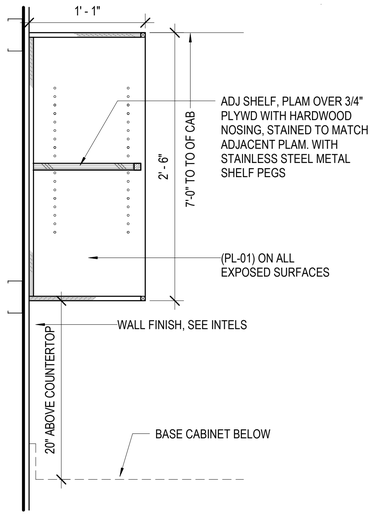
SHEET NAME
MILLWORK DETAILS

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

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Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A912
SHEET ISSUE DATE	
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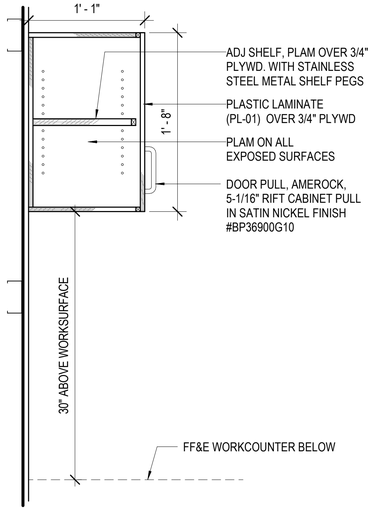
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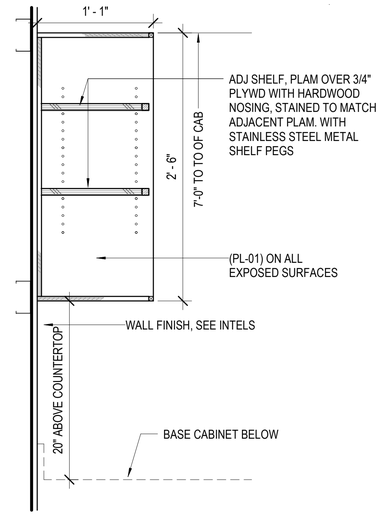
8 TYP UPPER CABINET - OPEN SHELVING

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



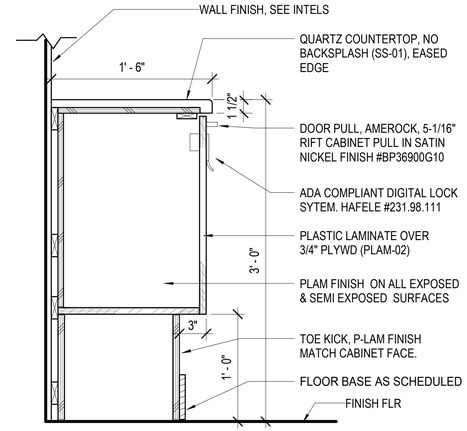
6 UPPER CABINET AT MEDS

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



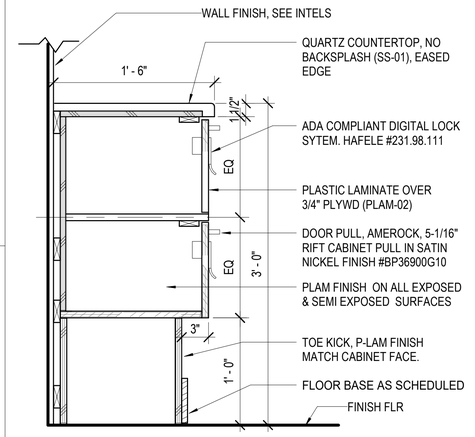
4 TYP UPPER CABINET - OPEN SHELVING

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



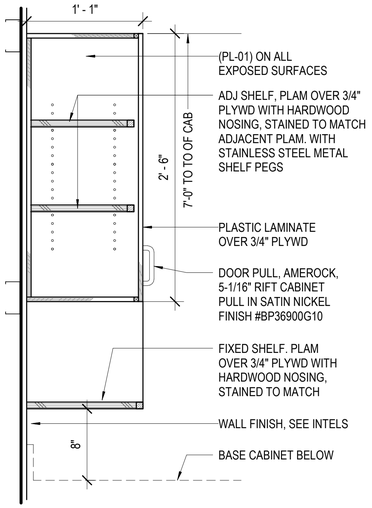
1 LOBBY LOCKER - SINGLE

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



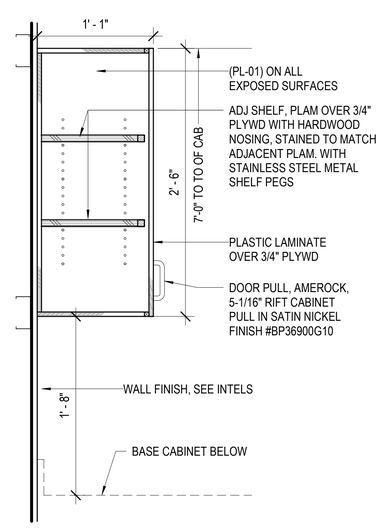
2 LOBBY LOCKER - DOUBLE

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



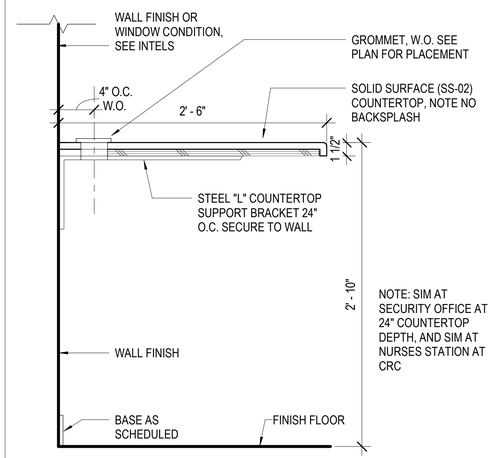
7 UPPER CABINET W/ SHELF

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



5 TYPICAL UPPER CABINET

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



3 WORKSURFACE AT NURSE STATION

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

G70

111 S. KING STREET, SUITE 170
HONOLULU, HAWAII 96813
808.523.5866
WWW.G70.DESIGN

REVISIONS

#	Date	Description

CD / BID SET

02/27/26

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Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

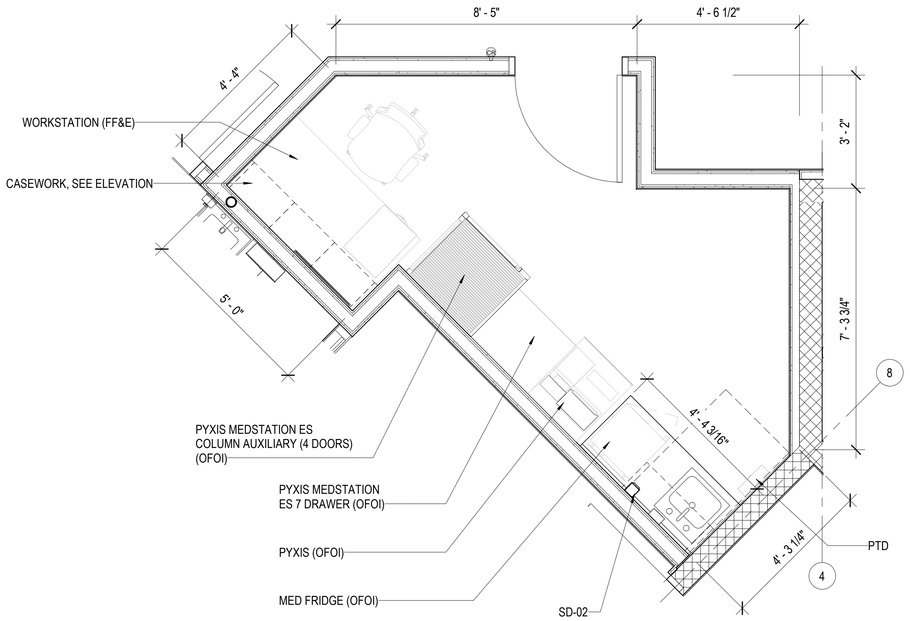
SHEET NAME
MILLWORK DETAILS

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

DRAWN BY	CHECKED BY
Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A913
SHEET ISSUE DATE	
10/15/25	

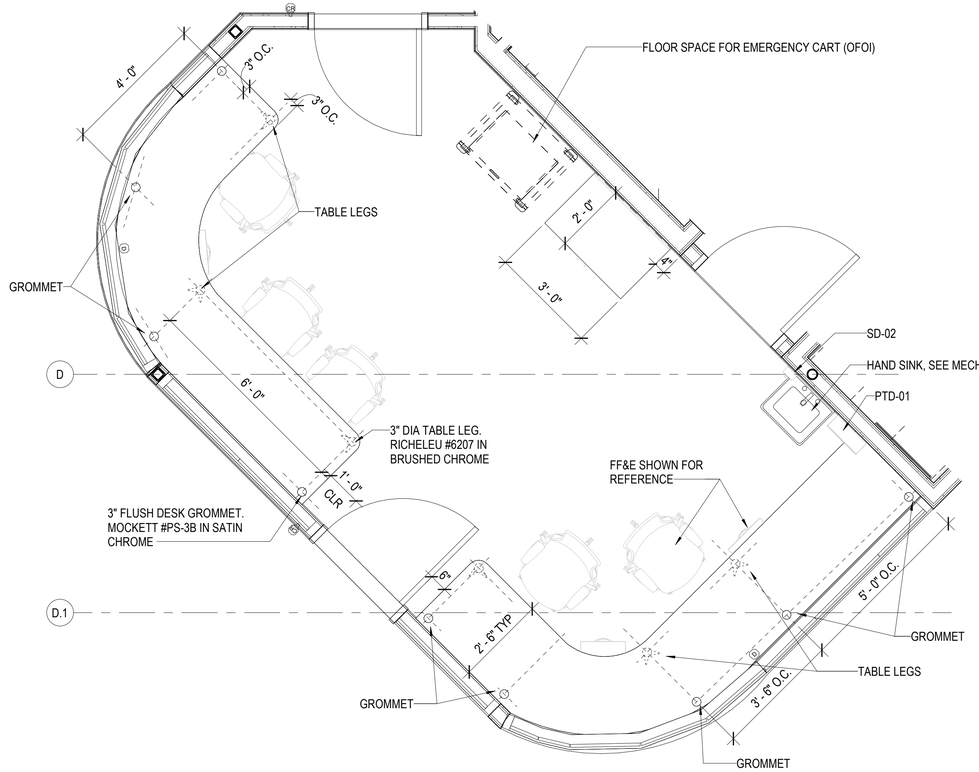
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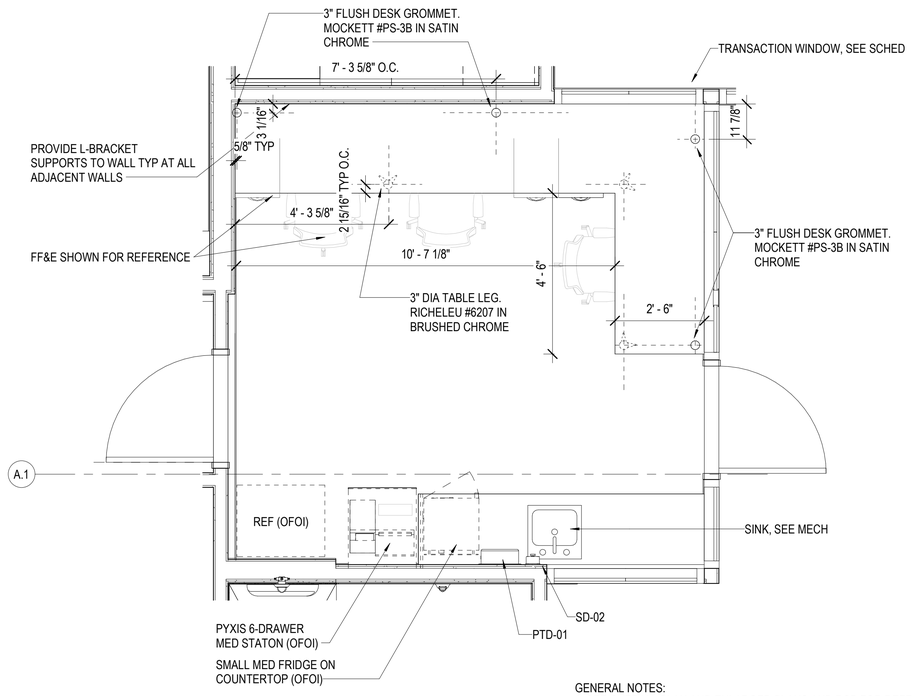
3 MEDICATION RM (RM 27) - ENLARGED PLAN

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



1 ENLARGED PLAN AT NURSE STATION (RM 40)

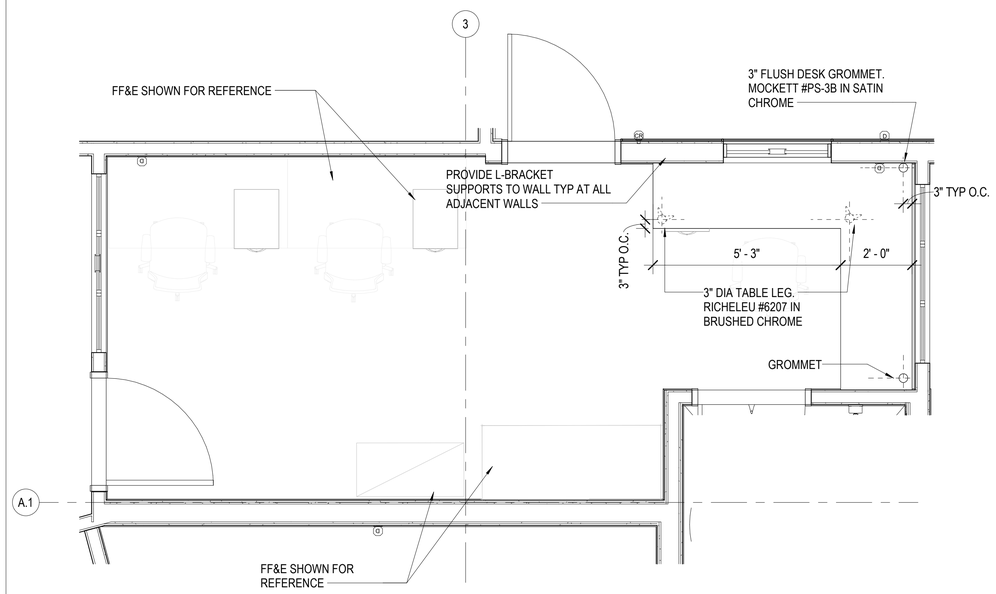
SCALE: 1/2" = 1'-0"



4 CR NURSE STATION (RM 81) - PLAN

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

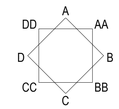
GENERAL NOTES:
1. SEE OVERALL PLAN AND ENLARGED PLANS AND RCP FOR REFERENCE
2. SEE FINISH SCHEDULES AND ROOM FINISH SCHEDULE
3. SEE BATH ACCESSSORY SCHEDULE ON SHEET A623. SEE ACCESSORY MOUNTING HEIGHT SHEET FOR MOUNTING - STANDARD AND ACCESSIBLE
4. FURNITURE, APPLIANCE AND MEDICAL EQUIPMENT, IF SHOWN IS SHOWN FOR REFERENCE, AND ASSUMED NIC AND TO BE PROVIDED BY OTHER
5. ALL DIMS ARE SHOWN AS A.F.F.
6. SEE INTELS FOR ADDITIONAL INFORMATION



2 ENLARGED PLAN AT SECURITY (RM 73)

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

2' 1' 0' 2' 4'



G70

111 S. KING STREET, SUITE 170
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808.523.5866
WWW.G70.DESIGN

REVISIONS

#	Date	Description

CD / BID SET

02/27/26

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_A24_Central.rvt

SHEET NAME
ENLARGED MILLWORK PLAN AND DETAILS

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

DRAWN BY	CHECKED BY
Author	Checker
PROJECT NO.	SHEET NO.
221093-01	A914
SHEET ISSUE DATE	
10/15/25	

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GENERAL:

1. VERIFY ALL FIELD DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK. ALL DISCREPANCIES SHALL BE PROMPTLY REPORTED TO THE CONTRACTING OFFICER.
2. OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
3. MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE 2018 EDITION OF THE "INTERNATIONAL BUILDING CODE" (IBC-18) AS AMENDED AND ADOPTED BY THE "HAWAII STATE BUILDING CODE", EFFECTIVE APRIL 20, 2021.
4. UNLESS SPECIFICALLY DETAILED ELSEWHERE, FOLLOW TYPICAL DETAILS ON SHEET S51 TO S5X.
5. WHERE CONDITIONS HAVE NOT BEEN SPECIFICALLY INDICATED BUT ARE SIMILAR TO DETAILS SHOWN ON S51 TO S5X, MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
5. WHERE INDICATED, STRUCTURAL DRAWINGS HAVE BEEN PREPARED TO APPROXIMATE SCALE. UNLESS A DRAWING SPECIFICALLY PROVIDES A DIMENSION, DO NOT SCALE STRUCTURAL DRAWINGS TO DETERMINE DIMENSIONS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING. PROVIDE TEMPORARY ERECTION BRACING AND SHORING FOR STRUCTURAL MEMBERS AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

FOUNDATION NOTES:

1. THE FOUNDATION DESIGN IS BASED ON THE REPORT TITLED "GEOTECHNICAL ENGINEERING EXPLORATION, SMMH PHASE 1A BEHAVIORAL HEALTH NEW PATIENT FACILITY, KAPAA, KAUAI, HAWAII, DATED DECEMBER 10, 2021, AND PREPARED BY KOKUA GEOTECH LLC. THE NOTES STATED BELOW APPLY TO THE WORK SHOWN ON THE STRUCTURAL DRAWINGS.
2. RELATIVE COMPACTION, IN THESE NOTES, SHALL REFER TO THE IN-PLACE DRY DENSITY OF SOIL EXPRESSED AS A PERCENTAGE OF THE MAXIMUM DRY DENSITY OF THE SAME SOIL ESTABLISHED IN ACCORDANCE WITH ASTM D 1557. OPTIMUM MOISTURE IS THE WATER CONTENT (PERCENTAGE BY DRY WEIGHT) CORRESPONDING TO THE MAXIMUM DRY DENSITY.
3. THE PROJECT SITE SHALL BE CLEARED OF ALL VEGETATION, INCLUDING LARGE ROOTS, DEBRIS AND OTHER DELETERIOUS MATERIAL, EXISTING STOCKPILED SOILS AND OTHER UNSUITABLE MATERIALS. REMOVE AND DISPOSE OF THE DELETERIOUS MATERIAL AND STOCKPILED SOILS PROPERLY OFF-SITE.
4. ONSITE CLAYEY SOIL IS EXPANSIVE AND MUST NOT BE USED FOR STRUCTURAL FILL BELOW THE FOUNDATIONS AND SLABS-ON-GRADE. ONSITE CLAYEY SOIL MUST NOT BE USED FOR BACKFILL BEHIND RETAINING WALLS.
5. IMPORTED STRUCTURAL FILL SHALL BE WELL-GRADED, NON-EXPANSIVE GRANULAR MATERIAL, SUCH AS CRUSHED CORAL OR BASALT, HAVING A MAXIMUM PARTICLE SIZE OF 3 INCHES. BETWEEN 10 AND 30 PERCENT OF SOIL BY WEIGHT MUST PASS THE #200 SIEVE. IMPORTED STRUCTURAL FILL MUST HAVE A CBR VALUE OF 20 OR HIGHER AND A SWELL POTENTIAL OF 1 PERCENT OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM D1883.
6. PRIOR TO PLACEMENT OF STRUCTURAL FILL, THE EXCAVATIONS MUST BE REVIEWED BY THE PROJECT GEOTECHNICAL ENGINEER TO CONFIRM THE MATERIAL IS AS EXPECTED. THE PROJECT GEOTECHNICAL ENGINEER MUST ALSO APPROVE THE IMPORTED STRUCTURAL FILL PRIOR TO BRINGING THE MATERIAL TO THE JOBSITE.
7. IN AREAS REQUIRING PLACEMENT OF STRUCTURAL FILL, SCARIFY THE EXPOSED SUBGRADE TO A DEPTH OF AT LEAST 10 INCHES. THEN MOISTURE CONDITION THE SOIL ABOVE THE OPTIMUM MOISTURE CONTENT AND COMPACT TO A MINIMUM 90 PERCENT RELATIVE COMPACTION.
8. IF COBBLES OR BOULDERS ARE EXPOSED AT THE BOTTOM OF OVER-EXCAVATIONS, THEY MUST BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL. SOFT AND YIELDING AREAS MUST BE OVER-EXCAVATED TO EXPOSE UNDERLYING FIRM MATERIAL AND REPLACED WITH COMPACTED STRUCTURAL FILL.
9. ON-SITE SOILS MAY BE USED FOR GENERAL FILL MATERIAL PROVIDED THEY ARE FREE OF VEGETATION, DELETERIOUS MATERIALS AND ROCK FRAGMENTS GREATER THAN 3 INCHES IN MAXIMUM DIMENSION. GENERAL FILL MUST NOT BE USED UNDER THE FOUNDATIONS , SLABS-ON-GRADE, OR AS BACKFILL BEHIND RETAINING WALLS.
10. GENERAL FILL MATERIAL MUST BE MOISTURE CONDITIONED TO AT LEAST 2% ABOVE OPTIMUM MOISTURE CONTENT AND NON-EXPANSIVE STRUCTURAL FILL MATERIAL SHALL BE MOISTURE CONDITIONED ABOVE OPTIMUM MOISTURE CONTENT. FILL MATERIALS SHALL BE PLACED IN HORIZONTAL LIFTS NO GREATER THAN 8 INCHES LOOSE THICKNESS AND COMPACTED TO 90 PERCENT RELATIVE COMPACTION. NON-EXPANSIVE STRUCTURAL FILL MATERIAL SHALL BE MOISTURE CONDITIONED ABOVE OPTIMUM MOISTURE CONTENT, PLACED IN HORIZONTAL LIFTS NO GREATER THAN 8 INCHES LOOSE THICKNESS
11. FOOTINGS MUST BE UNDERLAIN BY 12 INCHES OF IMPORTED STRUCTURAL FILL. THE IMPORTED STRUCTURAL FILL MUST EXTEND LATERALLY AT LEAST 12 INCHES BEYOND THE EDGE OF THE FOOTING. THE BOTTOM OF OVER-EXCAVATED FOOTING SUBGRADES MUST BE SCARIFIED AND RECOMPACTED THOROUGHLY PRIOR TO PLACEMENT OF STRUCTURAL FILL MATERIAL. PRIOR TO PLACEMENT OF FOUNDATION REINFORCING STEEL, BOTTOM OF FOOTING EXCAVATIONS MUST BE CLEANED OF LOOSE MATERIAL AND INSPECTED BY GEOTECHNICAL SPECIAL INSPECTOR.
12. BUILDING FOOTINGS MUST BE EMBEDDED A MINIMUM OF 24 INCHES BELOW THE ADJACENT FINISH GRADE. STEP BOTTOM OF CONTINUOUS WALL FOOTINGS WHERE REQUIRED TO MAINTAIN THE MINIMUM EMBEDMENT. FOR SLOPING GROUND CONDITIONS, THE FOOTINGS MUST EXTEND DEEPER TO OBTAIN A MINIMUM 6-FOOT SETBACK DISTANCE MEASURED HORIZONTALLY FROM THE OUTSIDE EDGE OF THE FOOTING TO THE FACE OF THE SLOPE. LOOSE FILL MATERIAL OR TOP SOIL ON THE SLOPE FACE MUST NOT BE INCLUDED WHEN DETERMINING THE EXTENT OF LATERAL COVER.
13. BUILDING SLABS-ON-GRADE MUST BE UNDERLAIN BY A MINIMUM OF 12 INCHES OF IMPORTED STRUCTURAL FILL. AT INTERIOR SLABS, THE UPPER 4 INCHES OF THE STRUCTURAL FILL MUST CONSIST OF CLEAN #3 FINE GRAVEL (ASTM C33, NO. 67). COMPACT THE #3 FINE GRAVEL CUSHION FILL TO A LEVEL SURFACE USING A VIBRATORY COMPACTOR. AT EXTERIOR SLABS, THE UPPER 6 INCHES OF STRUCTURAL FILL MUST BE AGGREGATE BASE COURSE. COMPACT THE AGGREGATE BASE COURSE TO A MINIMUM 95 PERCENT RELATIVE COMPACTION.
14. SPECIAL INSPECTION OF THE PLACEMENT AND COMPACTION OF STRUCTURAL FILL IS REQUIRED. STRUCTURAL FILL MUST ONLY BE PLACED AND COMPACTED WITH THE SPECIAL INSPECTOR PRESENT. KOKUA GEOTECH, LLC IS THE OFFICE RESPONSIBLE FOR SPECIAL INSPECTIONS FOR THE EARTHWORK.
15. GEOTECHNICAL DESIGN PARAMETERS: SEE DESIGN CRITERIA ON NEXT SHEET.

A.	ALLOWABLE BEARING PRESSURE	2,500 PSF
	INCLUDING WIND OR EARTHQUAKE FORCES	3,333 PSF
B.	PASSIVE EARTH PRESSURE	300 PSF/FT (3,000 PSF MAX)
C.	COEFFICIENT OF STATIC FRICTION	0.4
D.	ACTIVE EARTH PRESSURE (EQUIVALENT FLUID PRESSURE)	
	LEVEL BACKFILL	40 PCF
	SLOPING BACKFILL	45 PCF
E.	AT-REST EARTH PRESSURE (EQUIVALENT FLUID PRESSURE)	
	LEVEL BACKFILL	60 PCF
	SLOPING BACKFILL	64 PCF
F.	SEISMIC SITE CLASS	D

REINFORCING STEEL:

1. STEEL REINFORCING BARS SHALL BE DEFORMED BAR CONFORMING TO ASTM A615, GRADE 60 REINFORCING BARS TO BE WELDED SHALL BE DEFORMED BARS CONFORM TO ASTM A706, GRADE 60.
2. WELDED WIRE REINFORCEMENT (WWR) SHALL BE GALVANIZED AND CONFORM TO ASTM A1060. PROVIDE WWR IN SHEETS.
3. WELDING INVOLVING REINFORCING BARS SHALL CONFORM TO AWS D1.4 "STRUCTURAL WELDING CODE-REINFORCING STEEL" AND BE PERFORMED BY CERTIFIED WELDERS.
4. REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICES AT OTHER LOCATIONS SHALL BE MADE AWAY FROM POINTS OF MAXIMUM STRESS AND APPROVED BY THE ENGINEER. SEE TYPICAL DETAILS FOR "LAP SPLICES".
5. BARS NOTED AS "CONT", MAY BE SPLICED ANYWHERE ALONG ITS LENGTH. PROVIDE LAP LENGTHS SCHEDULED WITH THE TYPICAL DETAIL.
6. PROVIDE DOWELS IN FOOTINGS THE SAME SIZE, NUMBER AND IN THE SAME LOCATION AS VERTICAL WALL AND COLUMN REINFORCING. DOWELS SHALL HAVE A PROJECTION SUFFICIENT FOR A TENSION LAP SPLICE, BUT NOT LESS THAN 24 INCHES.
7. REINFORCING STEEL SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.
8. UNLESS NOTED OTHERWISE, SPECIFIED CONCRETE COVER FOR REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING MINIMUM VALUES:

CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	3"
CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	2"
CONCRETE NOT EXPOSED TO WEATHER NOR IN CONTACT WITH GROUND:	
WALLS	3/4"
BEAM STIRRUPS & COLUMN TIES	1-1/2"

TOLERANCE FOR CONCRETE COVER SHALL BE AS FOLLOWS:

MEMBERS 4" OR LESS IN THICKNESS	+3/8, -1/4"
MEMBERS 12" THICK OR LESS	±3/8"
MEMBERS GREATER THAN 12" THICK	±1/2"

FOR ALL CASES, THE COVER SHALL NOT BE LESS THAN ⅓ OF WHAT IS INDICATED AND REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

CONCRETE:

1. EXCEPT AS NOTED OTHERWISE ON THE CONTRACT DRAWINGS AND SPECIFICATIONS, CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO REFERENCE SPECIFICATION ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE."
2. CONCRETE EXPOSED TO VIEW BY THE GENERAL PUBLIC DURING NORMAL USE OF THE BUILDING SHALL BE "ARCHITECTURAL CONCRETE" AS DEFINED IN ACI 301. PROVIDE FORM-FACING MATERIALS THAT CREATES SPECIFIED APPEARANCE AND TEXTURE OF CONCRETE SURFACE.
3. LOCATIONS OF ALL CONSTRUCTION OR COLD JOINTS SHALL BE COORDINATED WITH AND APPROVED BY THE CONTRACTING OFFICER
4. SLEEVES EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. PIPE MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES BUT SHALL NOT BE EMBEDDED THEREIN.
5. SECURE ALL BOLTS, ANCHORS, INSERTS, ETC. AND VERIFY ALL GROOVES, SLOTS, AND FINISHES PRIOR TO PLACING CONCRETE.
6. UNLESS NOTED OTHERWISE, PROVIDE 3/4" CHAMFER AT EXPOSED CORNERS.
7. VERIFY LOCATIONS AND DIMENSIONS OF SLOTS, ANCHORS, DUCTS, ETC., RELATING TO MECHANICAL, ELECTRICAL AND ARCHITECTURAL WORK BEFORE PLACING CONCRETE.
8. ALL CONCRETE WORK SHALL BE THOROUGHLY CONSOLIDATED DURING PLACEMENT USING MECHANICAL VIBRATION.
9. CONCRETE SHALL BE CURED FOR A PERIOD OF NOT LESS THAN 7 DAYS.
10. THREE DAYS PRIOR TO THE POURING OF ANY STRUCTURAL CONCRETE, THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER SO AN INSPECTION OF FORMS AND REINFORCING STEEL CAN BE ARRANGED.
11. SPECIFIED 28-DAY COMPRESSIVE STRENGTH, TOP SIZE AGGREGATE AND MAXIMUM WATER-CEMENTITIOUS MATERIAL (*w/cm*) RATIO OF CONCRETE SHALL BE AS FOLLOWS:

	STRENGTH (PSI)	MAX AGGREGATE	*w/cm* RATIO
SLAB ON GRADE	4,500	1-1/2"	0.45
FOOTINGS AND GRADE BEAMS	4,000	1-1/2"	0.50
BEAMS AND COLUMNS	4,000	3/4"	0.50
WALLS	4,000	3/4"	0.50

EPOXY ANCHOR SYSTEM:

1. ADHESIVE FOR ANCHOR SYSTEM SHALL BE AN INJECTABLE, TWO-COMPONENT ADHESIVE CONFORMING TO THE REQUIREMENTS OF ACI 355.4 "ACCEPTANCE CRITERIA FOR QUALIFICATION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE AND COMMENTARY". THE ANCHOR SYSTEM SHALL BE ONE OF THE FOLLOWING:
   A. SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)
   B. HILTI "HIT-HY 200-R" (ICC-ES ESR-3187)
   C. DEWALT "AC200+" (ICC-ES ESR-4027)
   D. AN APPROVED SYSTEM MEETING ACI 355.4 AND THE MINIMUM BOND STRESS VALUES BELOW.
2. ADHESIVE ANCHOR SYSTEM ABOVE SHALL BE SUPPLIED AS A COMPLETE SYSTEM INCLUDING ALL MANUFACTURER RECOMMENDED SUPPLIES TO PROPERLY CLEAN THE DRILLED HOLE AND TO MIX AND DISPENSE THE ADHESIVE.
3. ADHESIVE ANCHORS SHALL HAVE THE FOLLOWING MINIMUM CHARACTERISTIC BOND STRENGTH FOR 1/2" THREADED ROD, DRY CONCRETE, TEMPERATURE RANGE A, f'c=2,500 PSI:

CRACKED CONCRETE, τ_{cr}	1040 PSI
UNCRACKED CONCRETE, τ_{uncr}	2100 PSI

EPOXY ANCHOR SYSTEM, CONTINUED:

4. THE FOLLOWING DEFINES THE REFERENCES USED IN THE STRUCTURAL DRAWINGS:

"EPOXY ANCHOR":	THREADED ROD OF DIAMETER NOTED, POST-INSTALLED INTO CONCRETE USING AN ADHESIVE ANCHORING SYSTEM.
"EPOXY DOWEL":	DEFORMED REINFORCING BAR OF SIZE NOTED, POST-INSTALLED INTO CONCRETE USING AN ADHESIVE ANCHORING SYSTEM.
"SET IN EPOXY":	POST INSTALLED ANCHORING INTO CONCRETE USING AN ADHESIVE ANCHORING SYSTEM.

5. UNLESS NOTED OTHERWISE, THREADED ANCHOR RODS SHALL BE HOT DIP GALVANIZED AND CONFORM TO ASTM F1554, GRADE 36. THREADED ANCHOR RODS SHALL BE FULLY THREADED, HAVE COURSE THREADS, CLEAN, STRAIGHT AND FREE OF INDENTATIONS OR OTHER DEFECTS ALONG THEIR LENGTH.
6. REBAR FOR EPOXY DOWELS SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 OR ASTM A706. EMBEDDED PORTIONS OF REINFORCING BARS MUST BE STRAIGHT, AND FREE OF MILL SCALE, RUST, MUD, OIL AND OTHER COATINGS THAT MAY IMPAIR THE BOND WITH THE ADHESIVE.
7. DRILL HOLES WITH A ROTARY HAMMER DRILL USING A CARBIDE-TIPPED MASONRY DRILL BIT. HOLE SIZE SHALL BE AS STATED BY THE MANUFACTURER FOR THE ANCHOR OR DOWEL SIZE. DEPTH OF HOLE SHALL BE THE EMBEDMENT NOTED ON THE DRAWINGS.
8. WHERE NO EMBEDMENT DEPTH IS SHOWN ON THE DETAIL, PROVIDE THE SHALLOWER OF THE FOLLOWING EMBEDMENT:

THREADED RODS:	8 TIMES THE ROD DIAMETER ($8d_a$) 3/4 THE CONCRETE THICKNESS
REBAR DOWELS:	12 TIMES THE BAR DIAMETER ($12d_b$) 3/4 THE CONCRETE THICKNESS

9. ANCHORS AND DOWELS SHALL NOT BE INSTALLED INTO HARDENED CONCRETE BEFORE THE CONCRETE HAS REACHED ITS SPECIFIED COMPRESSIVE STRENGTH AT 28-DAYS.
10. INSTALLATION OF ADHESIVE ANCHORS AND DOWELS SHALL BE PERFORMED BY PERSONNEL TRAINED BY THE ADHESIVE MANUFACTURER. THE MANUFACTURER'S WRITTEN INSTRUCTIONS FOR ALL ASPECTS OF THE INSTALLATION SHALL BE STRICTLY FOLLOWED.
11. ANCHORS AND POST-INSTALLED REINFORCING BARS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM SUCH AS THE ACI/CRSI ADHESIVE ANCHOR INSTALLATION CERTIFICATION PROGRAM.
12. AFTER SETTING ANCHOR OR DOWEL IN THE ADHESIVE FILLED HOLE, DO NOT DISTURB, LOAD OR TORQUE THE ANCHOR OR DOWEL UNTIL ADHESIVE HAS FULLY CURED.
13. DO NOT EXCEED MANUFACTURER'S PUBLISHED MAXIMUM TORQUE ON THREADED ROD ANCHORS.
14. SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1705.3 OF IBC-18 IS REQUIRED FOR THE INSTALLATION OF POST-INSTALLED ADHESIVE ANCHORS AND DOWELS. POST-INSTALLED ANCHORS AND DOWELS IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS REQUIRE CONTINUOUS SPECIAL INSPECTION. OTHER INSTALLATIONS REQUIRE PERIODIC SPECIAL INSPECTION. ITEMS REQUIRING SPECIAL INSPECTION AND THE FREQUENCY OF PERIODIC SPECIAL INSPECTIONS ARE STATED IN THE PRODUCT'S ICC-ESR EVALUATION REPORT.

CONCRETE SCREW ANCHORS:

1. CONCRETE SCREW ANCHOR IS A STEEL THREADED ANCHOR WITH A HEX-WASHER HEAD. ANCHOR SHALL BE CARBON STEEL WITH A ZINC COATING FOR INTERIOR AND CONCEALED EXTERIOR INSTALLATIONS AND BE TYPE 316 STAINLESS STEEL FOR EXPOSED EXTERIOR INSTALLATIONS. THE FOLLOWING ARE ACCEPTABLE ANCHORS:
   A. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713, ESR-1056)
   B. SIMPSON STRONG-TIE "STAINLESS STEEL TITEN HD" (UES-ER #493)
   C. HILTI "KH-EZ" (ICC-ES ESR-3027, ESR-3056)
   D. HILTI "KH-EZ SS316" (ICC-ES ESR-3027, ESR-3056)
   E. DEWALT "SCREW-BOLT+" (ICC-ES ESR-3889, ESR-4042)
   F. AN APPROVED CONCRETE SCREW ANCHOR WITH ICC-ES REPORT SHOWING VALUES FOR TENSION AND SHEAR IN CRACKED AND UNCRACKED CONCRETE, AND HAVING MINIMUM NOMINAL STEEL STRENGTH IN TENSION, (N_{sa}) FOR 1/2 INCH DIAMETER ANCHOR OF 18,100 LB FOR CARBON STEEL, AND 20,600 LB FOR TYPE 316 STAINLESS STEEL.
2. DRILL HOLES WITH A ROTARY HAMMER DRILL USING A CARBIDE-TIPPED MASONRY DRILL BIT. DRILLED HOLE SIZE SHALL MATCH THE ANCHOR SIZE WITH A DEPTH 1/2 INCH DEEPER THAN THE NOMINAL EMBEDMENT DEPTH. HOLES MUST BE PERPENDICULAR TO THE CONCRETE SURFACE.
3. CLEARANCE HOLE IN THE FIXTURE SHALL HAVE A DIAMETER 1/8" LARGER THAN THE ANCHOR DIAMETER.
4. ANCHORS SHALL NOT BE INSTALLED INTO HARDENED CONCRETE BEFORE THE CONCRETE HAS REACHED ITS SPECIFIED COMPRESSIVE STRENGTH AT 28-DAYS.
5. INSTALL ANCHOR SO THAT THE HEX-WASHER HEAD IS FLUSH TO THE FIXTURE. DO NOT EXCEED MAXIMUM TORQUE SPECIFIED BY THE MANUFACTURER. ANCHOR MAY BE SLIGHTLY LOOSENED AND RE-TIGHTENED TO ADJUST FIXTURE, BUT CANNOT BE REMOVED AND REUSED.
6. PERIODIC SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 1705.3 OF IBC-12 IS REQUIRED FOR THE INSTALLATION OF CONCRETE SCREW ANCHORS. ITEMS REQUIRING SPECIAL INSPECTION ARE STATED IN THE PRODUCT'S ICC-ESR EVALUATION REPORT. FREQUENCY OF SPECIAL INSPECTIONS IS AS NOTED IN THE "SPECIAL INSPECTION" NOTES ON THE NEXT SHEET.

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APRIL 30, 2026
License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
250802_S001.dwg

SHEET NAME
GENERAL STRUCTURAL NOTES

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PROJECT NO.	SHEET NO.
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CONCRETE MASONRY (CMU):

1. MASONRY MATERIALS AND CONSTRUCTION SHALL CONFORM TO TMS 602-16 "SPECIFICATION FOR MASONRY STRUCTURES" EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
2. CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT, HOLLOW, LOAD-BEARING UNITS CONFORMING TO ASTM C90. NET AREA COMPRESSIVE OF MASONRY UNITS SHALL BE 2,000 PSI.
3. MASONRY MORTAR SHALL BE TYPE "M", CONFORMING TO THE PROPORTION SPECIFICATIONS OF ASTM C270.
4. GROUT SHALL BE READY-MIX GROUT CONFORMING TO ASTM C476, COURSE, AND HAVE A MINIMUM STRENGTH OF 3,000 PSI IN 28-DAYS, AS TESTED IN ACCORDANCE WITH ASTM C1019. GROUT SLUMP SHALL BE BETWEEN 8 AND 11 INCHES.
5. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. UNLESS OTHERWISE NOTED, LENGTH OF LAP FOR LAP SPLICES IN MASONRY SHALL BE AS SCHEDULED IN TYPICAL DETAILS.
6. JOINT REINFORCEMENT SHALL BE 9 GAUGE, LADDER TYPE CONFORMING TO ASTM A951. HOT DIP GALVANIZE JOINT REINFORCEMENT IN CONFORMANCE WITH ASTM A153.
7. BAR POSITIONERS MADE FROM HOT-DIPPED GALVANIZED 9 GAUGE STEEL WIRE SHALL BE USED TO PREVENT DISPLACEMENT OF REINFORCING BARS DURING THE COURSE OF CONSTRUCTION.
8. UNLESS NOTED OTHERWISE, WALLS SHALL BE CONSTRUCTED IN CONVENTIONAL RUNNING BOND.
9. SOLID GROUT ALL MASONRY WORK. CLEANOUTS ARE REQUIRED FOR GROUT POURS THAT THAT EXCEED 5'-4".
10. CONSOLIDATE CONVENTIONAL GROUT BY MECHANICAL VIBRATION. RECONSOLIDATE CONVENTIONAL GROUT BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED (USUALLY WITHIN 10 MINUTES OF GROUT PLACEMENT).
11. AT CMU WALLS PROVIDE HORIZONTAL JOINT REINFORCING AT 16" OC. PROVIDE A MINIMUM OF 6" LAP SPLICE JOINT REINFORCEMENT.

STRUCTURAL STEEL:

1. ALL STEEL WORK SHALL CONFORM TO AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL" AND AISC 303 "CODE OF STANDARD PRACTICE" AS PUBLISHED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
2. ALL STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123.
3. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992.
4. STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B. PIPE DIAMETERS NOTED ON DRAWINGS ARE NOMINAL DIAMETERS.
5. SQUARE AND RECTANGLE HOLLOW STRUCTURAL SECTIONS (TUBES) SHALL CONFORM TO ASTM A500, GRADE B.
6. ALL OTHER SHAPES AND PLATES SHALL CONFORM TO ASTM A36.
7. WELDS SHALL CONFORM TO THE AWS D1.1 "STRUCTURAL WELDING CODE-STEEL" PUBLISHED BY THE AMERICAN WELDING SOCIETY AND BE DONE BY CERTIFIED WELDERS.
8. UNLESS NOTED OTHERWISE, ANCHOR RODS AND THREADED RODS SHALL CONFORM TO ASTM F1554, GRADE 36.
9. UNLESS NOTED OTHERWISE, ALL BOLTED CONNECTIONS SHALL BE MADE WITH ASTM F3125, GRADE A325, TYPE I.
10. NON-SHRINK GROUT SHALL BE NONMETALLIC CONFORMING TO ASTM C1107.
11. PRIOR TO FABRICATION, SUBMIT SHOP DRAWINGS FOR REVIEW.
12. REPAIR DAMAGE TO GALVANIZED COATINGS USING INORGANIC ZINC RICH PAINT CONFORMING TO ASTM A780.

STEEL ROOF DECK:

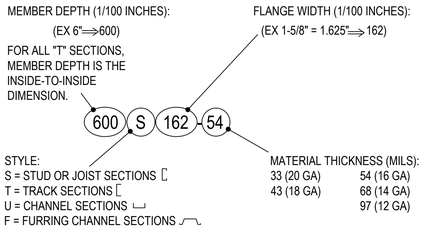
1. STEEL ROOF DECK SHALL BE FABRICATED FROM ZINC-COATED (GALVANIZED) STRUCTURAL-QUALITY SHEET STEEL CONFORMING TO ASTM A653. COATING DESIGNATION SHALL BE G90.
2. DECK PROFILE, STEEL THICKNESS AND MINIMUM STEEL TENSILE YIELD STRENGTH SHALL BE AS CALLED OUT ON THE DRAWINGS. SECTION PROPERTIES SHALL BE CALCULATED IN ACCORDANCE WITH AISI S100, SECTION B.
3. PROVIDE RIDGE, HIP AND VALLEY PLATES FABRICATED FROM THE SAME MATERIAL AS THE DECK.
4. FURNISH THE MANUFACTURER'S STANDARD ACCESSORIES TO COMPLETE THE DECK INSTALLATION. ACCESSORIES SHALL BE OF THE SAME MATERIAL AS THE DECK.
5. SUBMIT SHOP DRAWINGS AND MATERIAL DATA FOR REVIEW PRIOR TO FABRICATION.
6. DECK PANELS SHALL SPAN OVER TWO OR MORE SUPPORTS.
7. MINIMUM BEARING OF DECK ON SUPPORTS SHALL BE 2 INCHES.
8. WELDING SHALL FOLLOW WELDING PROCEDURES OF AWS D1.3 STRUCTURAL WELDING CODE-SHEET STEEL" AND BE DONE BY WELDERS QUALIFIED UNDER AWS D1.3 FOR SHEET STEEL.
9. MECHANICAL FASTENING SHALL FOLLOW THE INSTRUCTIONS AND RECOMMENDATIONS OF THE MANUFACTURER OF THE FASTENING TOOL.
10. DO NOT SUPPORT SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS, UTILITIES, AND OTHER LOADS BY STEEL DECK UNLESS INDICATED.

COLD-FORMED STEEL TRUSSES:

1. COLD-FORMED STEEL TRUSSES ARE A DELEGATED DESIGN SYSTEM. COMPONENTS MAY BE STANDARD C-SHAPED MEMBERS OR PROPRIETARY SHAPES. PROVIDE COMPLETE ROOF TRUSS FRAMING DESIGN CONFORMING TO AISI S100 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS". DESIGN SHALL BE PERFORMED BY OR UNDER THE SUPERVISION OF A STRUCTURAL ENGINEER LICENSED IN THE STATE OF HAWAII.
2. ALL COMPONENTS OF THE CFS ROOF FRAMING SHALL BE COLD-FORMED FROM STEEL SHEETS CONFORMING TO ASTM A653, STRUCTURAL STEEL (SS) CLASSIFICATION, ZINC-COATED (GALVANIZED) WITH A MINIMUM G90 COATING. SHAPES, SIZES, THICKNESS AND MATERIAL CLASS (YIELD STRENGTH) AS REQUIRED TO SUIT DESIGN.
3. IN ADDITION TO THE WEIGHT OF THE CFS ROOF FRAMING, TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM SUPERIMPOSED LOADS:
   A. DEAD LOAD AT TOP CHORD ..... 10 PSF
   B. LIVE LOAD AT TOP CHORD ..... 20 PSF
   C. DEAD LOAD TO BOTTOM CHORD ..... 10 PSF
   D. MECHANICAL EQUIPMENT INCLUDING FIRE SPRINKLER PIPES SHALL BE SUPPORTED OFF OF TOP CHORDS ONLY. TRUSSES SHALL BE DESIGNED FOR SUPERIMPOSED DEAD LOAD FROM WEIGHT OF EQUIPMENT AND PIPES.
   E. WIND LOADS: DESIGN PRESSURES DETERMINED USING THE WIND LOAD PROVISIONS OF ASCE 7-16 AND THE WIND DESIGN DATA IN THE "DESIGN CRITERIA" PORTION OF THESE STRUCTURAL NOTES. FOR LOAD COMBINATIONS INCLUDING NET UPLIFT WIND PRESSURES, REDUCE SUPERIMPOSED TOP CHORD DEAD LOAD TO 6 PSF AND SUPERIMPOSED DEAD LOAD AT THE BOTTOM CHORD TO 3 PSF BEFORE APPLYING THE LOAD FACTOR.
4. IN LIEU OF A RATIONAL ANALYSIS TO DEFINE JOINT FLEXIBILITY, THE FOLLOWING ANALYSIS MODEL ASSUMPTIONS SHALL BE USED:
   A. CHORD MEMBERS ARE CONTINUOUS, EXCEPT MEMBERS ARE ASSUMED TO HAVE PINNED CONNECTIONS AT THE HEEL, PITCH BREAKS, AND CHORD SPLICES.
   B. WEB MEMBERS ARE ASSUMED TO HAVE PINNED CONNECTIONS AT EACH END.
   C. ONLY ONE TRUSS SUPPORT SHALL BE MODELED AS A PINNED CONNECTION WITH LATERAL RESTRAINT IN THE PLANE OF THE TRUSS. ALL OTHER SUPPORTS SHALL BE MODELED AS ROLLER CONNECTIONS THAT ALLOW LATERAL TRANSLATION IN THE PLANE OF THE TRUSS.
5. ALLOWABLE TOTAL LOAD DEFLECTION SHALL BE SPAN/240, BUT SHALL NOT EXCEED 1 INCH. ALLOWABLE DEFLECTION DUE TO LIVE LOAD SHALL BE SPAN/360. ALLOWABLE DEFLECTION DUE TO WIND LOAD SHALL BE SPAN/360.
6. WEB CONFIGURATION SHALL ACCOMMODATE ROUTING OF MECHANICAL DUCTS AND MECHANICAL EQUIPMENT IN THE CEILING. TRUSS MANUFACTURER SHALL VERIFY MECHANICAL EQUIPMENT SIZE, WEIGHT AND LOCATION; AND DUCT SIZE AND LOCATION WITH MECHANICAL SHOP DRAWINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THIS TASK.
7. FOLLOW TRUSS LAYOUT PLAN(S) AS SHOWN ON THESES STRUCTURAL DRAWINGS.
8. TRUSS MANUFACTURER AND GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS RELATING TO TRUSSES.
9. SEE ARCHITECTURAL DRAWINGS FOR SLOPES OF TOP CHORDS.
10. THE BOTTOM CHORD OF TRUSSES WHICH ARE NOT ATTACHED DIRECTLY TO GYPSUM BOARD CEILING SHALL BE CONSIDERED UNBRACED IN THE MINOR AXIS OF THE BOTTOM CHORD. IN SUCH CASES THE TRUSS MANUFACTURER SHALL DESIGN, DETAIL AND PROVIDE THE NECESSARY BRACING OF THE BOTTOM CHORD FOR WIND UPLIFT CONDITIONS.
11. BLOCKING AT RIDGES, HIPS, VALLEYS AND AT ALL OTHER LOCATIONS NECESSARY TO PROPERLY SUPPORT THE STEEL ROOF DECK SHALL BE DETAILED AND PROVIDED AS A PART OF THE TRUSS ROOF FRAMING SYSTEM.
12. BUILT-UP FRAMING ON PREFABRICATED COLD FORM TRUSSES AND SECONDARY BRACING (AS REQUIRED) SHALL BE DESIGNED AND DETAILED BY COLD-FORMED STEEL TRUSS MANUFACTURER. BUILT-UP FRAMING SHALL BE CONNECTED TO UNDERLYING TRUSS FRAMING AS REQUIRED TO RESIST UPLIFT WIND FORCES.
13. IN NO CIRCUMSTANCES SHALL TRUSS MEMBERS BE CUT, DRILLED THRU, OR REMOVED AFTER INSTALLATION.
14. SUBMITTALS:
   A. LAYOUT PLANS FOR TRUSSES WITH PROPER DESIGNATIONS THAT IDENTIFY TRUSS ON LAYOUT PLAN WITH CALCULATIONS.
   B. FABRICATION AND ERECTION DRAWINGS SHOWING MEMBER LOCATION AND SIZE, CONNECTOR PLATES, PLATE DIMENSIONS, REQUIRED BRACING AND CAPACITIES.
   C. DESIGN CALCULATIONS, PREPARED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF HAWAII.

COLD-FORMED STEEL (CFS) FRAMING:

1. COLD-FORMED STEEL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AISI S240 "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL STRUCTURAL FRAMING".
2. FRAMING COMPONENTS SHALL COMPLY WITH ASTM C955. SHEET STEEL SHALL COMPLY WITH ASTM A653, SS GRADE 33 FOR 33 MIL (20 GAGE) AND 43 MIL (18 GAGE) MEMBERS. SHEET STEEL SHALL COMPLY WITH ASTM A653, SS GRADE 50 CLASS 1 FOR MEMBERS 54 MIL (16 GAGE) AND HEAVIER. MINIMUM ZINC-COATING (GALVANIZED) DESIGNATION SHALL BE G90.
3. STUDS SHALL BE PROVIDED WITH FACTORY PUNCHOUTS AT CENTER-TO-CENTER SPACING OF 24". NO OTHER HOLES ARE ALLOWED IN THE STUDS UNLESS APPROVED BY THE CONTRACTING OFFICER.
4. SCREWS FOR STEEL-TO-STEEL CONNECTIONS SHALL BE SELF-DRILLING, SELF TAPPING STEEL SCREWS CONFORMING TO ASTM C1513. SIZE AND TYPE INDICATED ON THE DRAWINGS. PROVIDE LOW-PROFILE HEAD BENEATH SHEATHING AND STANDARD HEAD ELSEWHERE. SCREWS SHALL HAVE ELECTROPLATED OR HOT-DIP ZINC COATING.
5. MEMBERS ARE IDENTIFIED USING NOMENCLATURE OF THE STEEL STUD MANUFACTURER'S ASSOCIATIONS (SSMA) AS FOLLOWS:



DESIGN CRITERIA:

1. RISK CATEGORY: II
2. ROOF LIVE LOAD: ..... 20 PSF
3. WIND DESIGN DATA:
   BASIC DESIGN WIND SPEED, *V* 130
   WIND EXPOSURE C
   TOPOGRAPHIC FACTOR 1.0
   DIRECTIONALITY FACTOR 0.85
   ENCLOSURE CLASSIFICATION ..... PARTIALLY ENCLOSED BUILDING
5. EARTHQUAKE DESIGN DATA:
   MAPPED - MAXIMUM CONSIDERED EARTHQUAKE ACCELERATIONS
   S_S (SHORT PERIOD) ..... 0.223 g
   S_1 (1 SEC. SHORT PERIOD) ..... 0.063 g
   SITE CLASS ..... D
   DESIGN SPECTRAL RESPONSE ACCELERATIONS
   S_{DS} (SHORT PERIOD) ..... 0.238 g
   S_{D1} (1 SEC PERIOD) ..... 0.101 g
   SEISMIC DESIGN CATEGORY ..... B

DESIGN CODES AND STANDARDS:

	STATE BUILDING CODE COUNCIL, "BUILDING CODE OF THE STATE OF HAWAII" EFFECTIVE APRIL 20, 2021
IBC 2018	INTERNATIONAL CODE COUNCIL, "INTERNATIONAL BUILDING CODE", 2018
ASCE 7-16	AMERICAN SOCIETY OF CIVIL ENGINEERS, "MINIMUM DESIGN AND ASSOCIATED CRITERIA LOADS FOR BUILDING AND OTHER STRUCTURES", 2016 EDITION
ACI 318-14	AMERICAN CONCRETE INSTITUTE, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", 2014 EDITION
AISC 360-16	AMERICAN INSTITUTE OF STEEL CONSTRUCTION, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", 2016 EDITION
TMS 402-16	THE MASONRY SOCIETY, "BUILDING CODE FOR MASONRY STRUCTURES", 2016 EDITION
AISI S100-16	AMERICAN IRON AND STEEL INSTITUTE, "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", 2016 EDITION
AISI S240-15	AMERICAN IRON AND STEEL INSTITUTE, "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL STRUCTURAL FRAMING", 2015 EDITION

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

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SPECIAL INSPECTION REQUIREMENTS LIST BELOW:

1. THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR FOR WORK REQUIRING SPECIAL INSPECTION PER CHAPTER 17 OF THE 2018 IBC AS ADOPTED AND AMENDED BY THE "HAWAII STATE BUILDING CODE".
2. THE WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL COMPLETION OF THE REQUIRED INSPECTIONS. PROCEDURES REQUIRING CONTINUOUS SPECIAL INSPECTION SHALL BE PERFORMED WITH THE SPECIAL INSPECTOR PRESENT AND OBSERVING THE WORK.
3. THE WORK REQUIRING SPECIAL INSPECTION IS LISTED IN THE SPECIAL INSPECTION SCHEDULE.
4. FREQUENCY NOTED ON SCHEDULE IS BASED ON THE FOLLOWING LEGEND:
   - C INDICATES "CONTINUOUS" SPECIAL INSPECTION WHICH IS INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.
   - P INDICATES "PERIODIC" SPECIAL INSPECTION WHICH IS INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.

SPECIAL INSPECTION SCHEDULE

VERIFICATION AND INSPECTION	REFERENCED STANDARD	FREQUENCY	REMARKS
SOILS (IBC 1705.6)			
PRIOR TO PLACEMENT OF COMPACTED STRUCTURAL FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PROPERLY PREPARED.		P	
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		P	
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT OF STRUCTURAL FILL.		C	
CONCRETE CONSTRUCTION (IBC 1705.3)			
INSPECTION OF REINFORCING STEEL SIZE AND PLACEMENT.		P	
INSPECTION OF ANCHORS CAST IN CONCRETE.		P	
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER		P	
VERIFY USE OF REQUIRED DESIGN MIX		P	
AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS; OBSERVE THE PREPARATION OF TEST SPECIMENS, PERFORMANCE OF SLUMP, AIR CONTENT TESTS, AND MEASUREMENT OF THE CONCRETE TEMPERATURE.	ASTM C172 ASTM C31 ACI 318: 5.6	C	
INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION AND TECHNIQUES.	ACI 318: 5.9, 5.10	C	
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TECHNIQUE.	ACI 318: 5.11-5.13	P	
ANCHORS POST-INSTALLED IN HARDENED CONCRETE.	ACI 355.4 ACI 318: 26.7		SPECIAL INSPECTION REQUIREMENT IN THE PRODUCT'S ICC-ES EVALUATION REPORT.
MASONRY CONSTRUCTION (IBC 1705.4)			
CONCRETE MASONRY CONSTRUCTION SHALL BE INSPECTED AND VERIFIED IN ACCORDANCE WITH TMS 402 QUALITY ASSURANCE PROGRAM REQUIREMENTS, LEVEL C.	TMS 602: 1.6		VERIFICATION REQUIREMENTS IN TABLE 3 AND SPECIAL INSPECTION REQUIREMENTS IN TABLE 4, AT A FREQUENCY ASSOCIATED WITH QUALITY ASSURANCE LEVEL 2

SPECIAL INSPECTION SCHEDULE, CONTINUED

VERIFICATION AND INSPECTION	REFERENCED STANDARD	FREQUENCY	REMARKS
STEEL CONSTRUCTION (IBC 1705.2)			
STRUCTURAL STEEL	AISC 360		SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360, CHAPTER N.
MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK.	CONTRACT DOCUMENTS AND APPROVED SUBMITTALS	P	
WELDING INSPECTION AND WELDER QUALIFICATION FOR COLD-FORMED STEEL.	AWS D1.3	P	
VERIFY COLD-FORMED STEEL TRUSS FIELD CONNECTIONS TO OTHER TRUSSES AND SUPPORTS.	CONTRACT DOCUMENTS AND APPROVED SUBMITTALS	P	

ABBREVATIONS

2L	DOUBLE ANGLE	IF	INSIDE FACE
AB	ANCHOR BOLT	IN	INCHES
ACI	AMERICAN CONCRETE INSTITUTE	INFO	INFORMATION
ADDL	ADDITIONAL	INT	INTERIOR
AFF	ABOVE FINISH FLOOR	JT	JOINT
ALT	ALTERNATE, ALTERNATING	KIP	1,000 POUNDS
APPROX	APPROXIMATE	KSF	KIPS PER SQUARE FOOT
ARCH	ARCHITECTURAL OR ARCHITECT	KSI	KIPS PER SQUARE INCH
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	L	ANGLE, LENGTH
AWS	AMERICAN WELDING SOCIETY	LG	LONG
BAL	BALANCE	LL	LIVE LOAD
BASE PL	BASE PLATE	LLH	LONG LEG HORIZONTAL
BLDG	BUILDING	LLV	LONG LEG VERTICAL
BM	BEAM	LONGIT	LONGITUDINAL
BOT	BOTTOM	MAX	MAXIMUM
BTWN	BETWEEN	MECH	MECHANICAL
CFS	COLD FORMED STEEL	MFR	MANUFACTURER
CIP	CAST-IN-PLACE	MIN	MINIMUM
CJ	CONSTRUCTION, CONTROL JOINT	MISC	MISCELLANEOUS
CJP	COMPLETE JOINT PENETRATION	NO	NUMBER
CL	CENTERLINE	NTS	NOT TO SCALE
CLR	CLEAR	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	OPNG	OPENING
COL	COLUMN	OPP	OPPOSITE
CONC	CONCRETE	PL	PLATE
CONN	CONNECT, CONNECTION	PSF	POUNDS PER SQUARE FOOT
CONT	CONTINUOUS	PSI	POUNDS PER SQUARE INCH
DBL	DOUBLE	R OR RAD	RADIUS
DET	DETAIL	REINF	REINFORCEMENT, REINFORCING
DIA, Ø	DIAMETER	REQD	REQUIRED
DIAG	DIAGONAL	SCHED	SCHEDULE
DL	DEAD LOAD	SECT	SECTION
DN	DOWN	SHT	SHEET
DWG	DRAWING	SIM	SIMILAR
EA	EACH	SOG	SLAB-ON-GRADE
EE	EACH END	SP	SPACE, SPACES
EF	EACH FACE	SPECS	SPECIFICATION, SPECIFICATIONS
EJ	EXPANSION JOINT	SQ	SQUARE
ELEV, EL	ELEVATION	STD	STANDARD
EQ	EQUAL	STIFF	STIFFENER
ES	EACH SIDE	STL	STEEL
EW	EACH WAY	STRUC	STRUCTURAL
EXP	EXPANSION	T&B	TOP AND BOTTOM
EXST, (E)	EXISTING	THK	THICK, THICKNESS
EXT	EXTERIOR	THRU	THROUGH
FFE	FINISH FLOOR ELEVATION	TOC	TOP OF CONCRETE
FLR	FLOOR	TOF	TOP OF FOOTING
FT	FOOT, FEET	TOS	TOP OF SLAB, TOP OF STEEL
FTG	FOOTING	TOW	TOP OF WALL
GA	GAGE, GAUGE	TRANS	TRANSVERSE
GALV	GALVANIZE, GALVANIZED	TYP	TYPICAL
GB	GRADE BEAM	UNO	UNLESS NOTED OTHERWISE
GL	GRIDLINE	VERT	VERTICAL
HDR	HEADER	W	WIDE, WIDTH
HORIZ	HORIZONTAL	W/	WITH
HSS	HOLLOW STRUCTURAL SECTION	W/O	WITHOUT
HT	HEIGHT	WF	WIDE FLANGE
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	WJ	WALL JOINT
ID	INSIDE DIAMETER	WP	WORK POINT
		WWR	WELDED WIRE REINFORCEMENT

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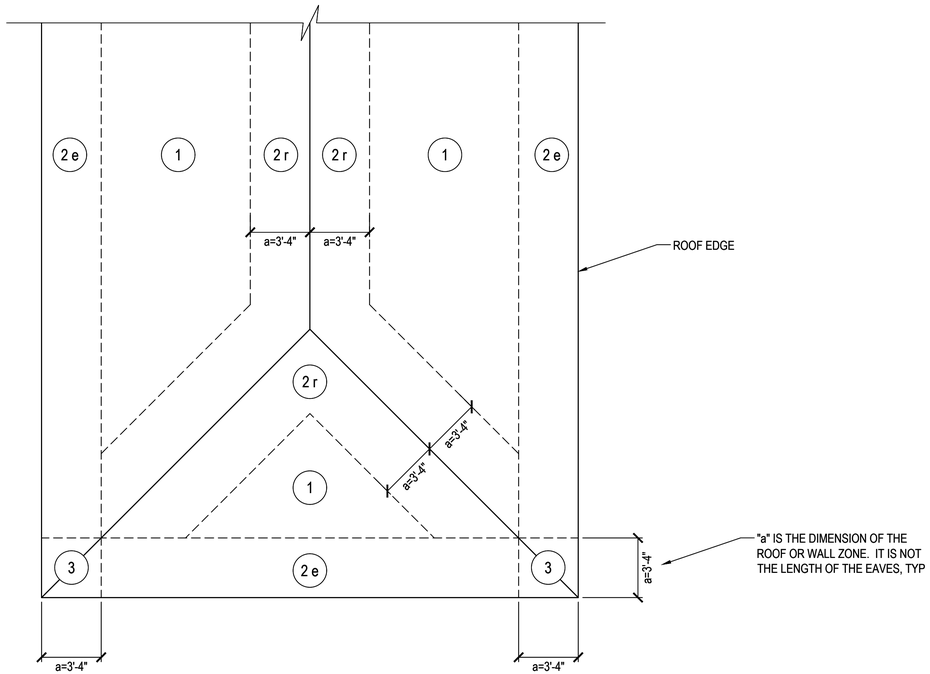
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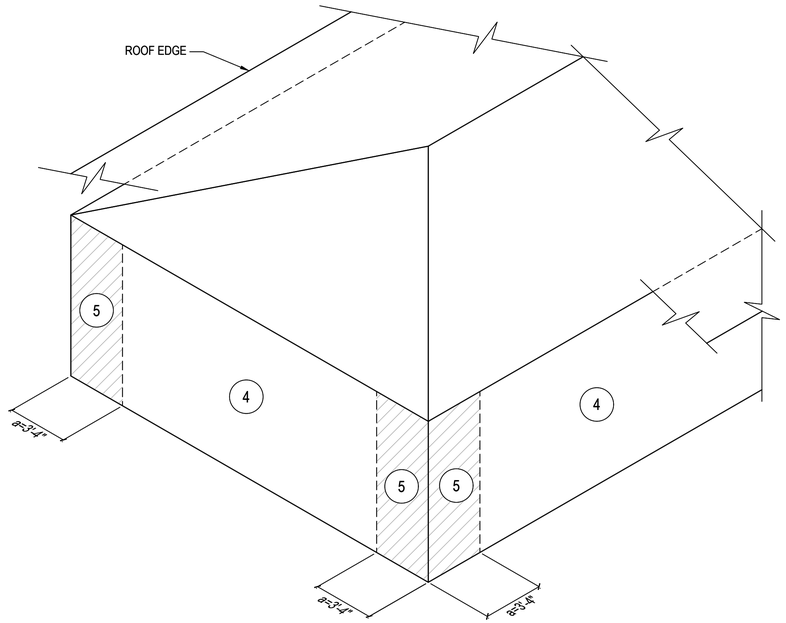
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SCHEMATIC ROOF ZONES



SCHEMATIC WALL ZONES

EFFECTIVE AREA (ft^2)	ALLOWABLE STRESS DESIGN (ASD) WIND PRESSURE (lb/ft^2)							
	ZONE							
	1	2r	2e	3	4		5	
10	-46.8	-68.7	-56.7	-68.7	30.8	-32.8	30.8	-38.8
20	-48.0	-65.9	-55.8	-62.7	29.8	-31.8	29.8	-36.7
50	-49.5	-62.2	-54.6	-54.8	28.4	-30.4	28.4	-33.9
100	-50.7	-59.5	-53.7	-48.8	27.3	-29.3	27.3	-31.8
200	-50.7	-56.7	-52.7	-42.8	26.3	-28.3	26.3	-29.7
500	-50.7	-56.7	-52.7	-42.8	24.9	-26.9	24.9	-26.9

NOTES:

1. COMPONENTS AND CLADDING PRESSURES LISTED IN THE TABLE ARE SERVICE LEVEL PRESSURES. FOR STRENGTH LEVEL PRESSURES DIVIDE VALUES IN TABLE BY 0.6.
2. NEGATIVE PRESSURES ACT AWAY FROM THE EXTERIOR SURFACE. POSITIVE PRESSURES ACT TOWARD THE EXTERIOR SURFACE.
3. FOR ZONES 4 AND 5, BOTH THE POSITIVE PRESSURE CONDITION AND THE NEGATIVE PRESSURE CONDITION SHALL BE CONSIDERED IN SEPARATE LOAD COMBINATIONS.

1 COMPONENT AND CLADDING DESIGN WIND PRESSURES (ASD)

SCALE: NTS

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APRIL 30, 2026

License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
250802_S004.dwg

SHEET NAME

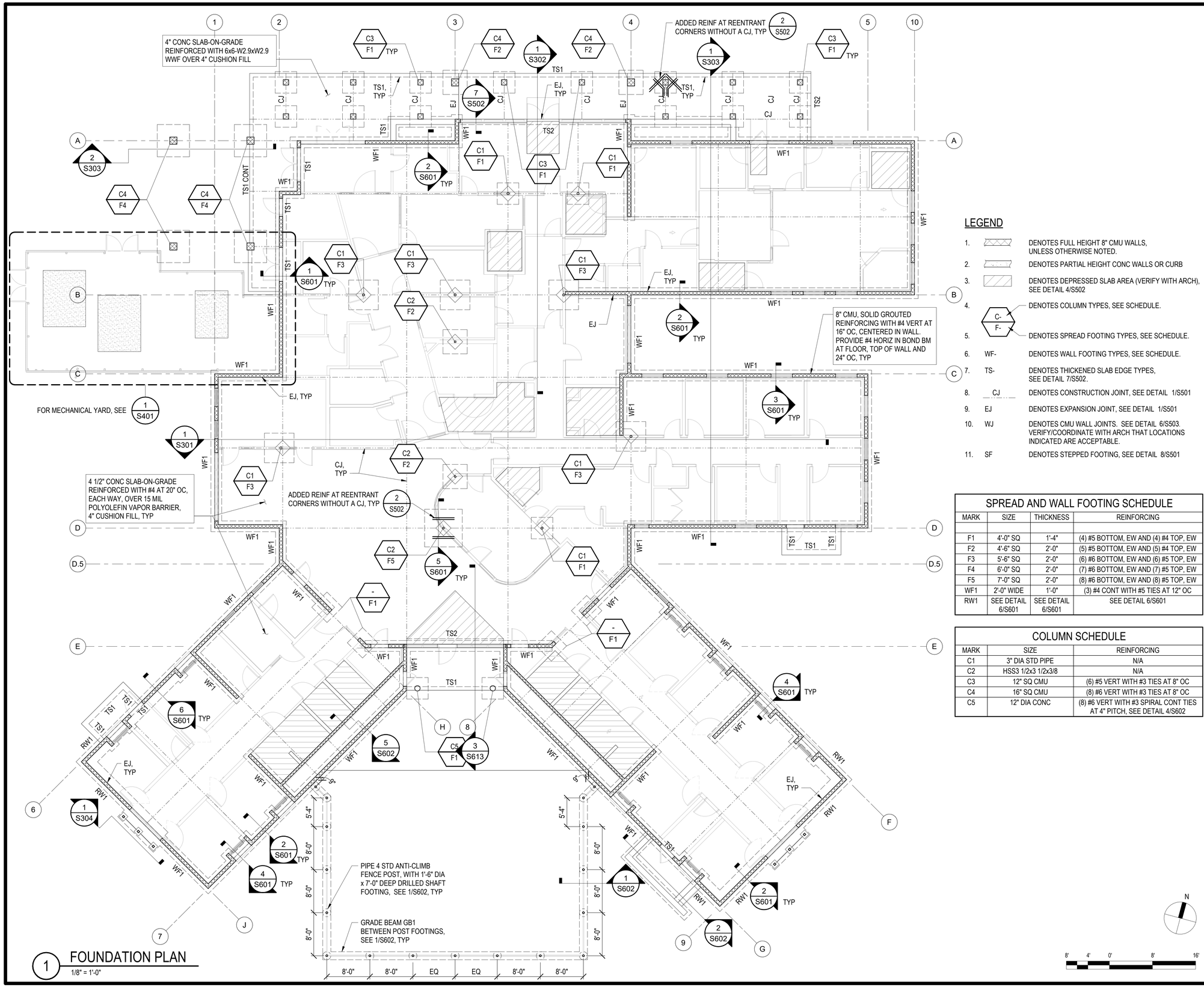
COMPONENT AND CLADDING WIND PRESSURES

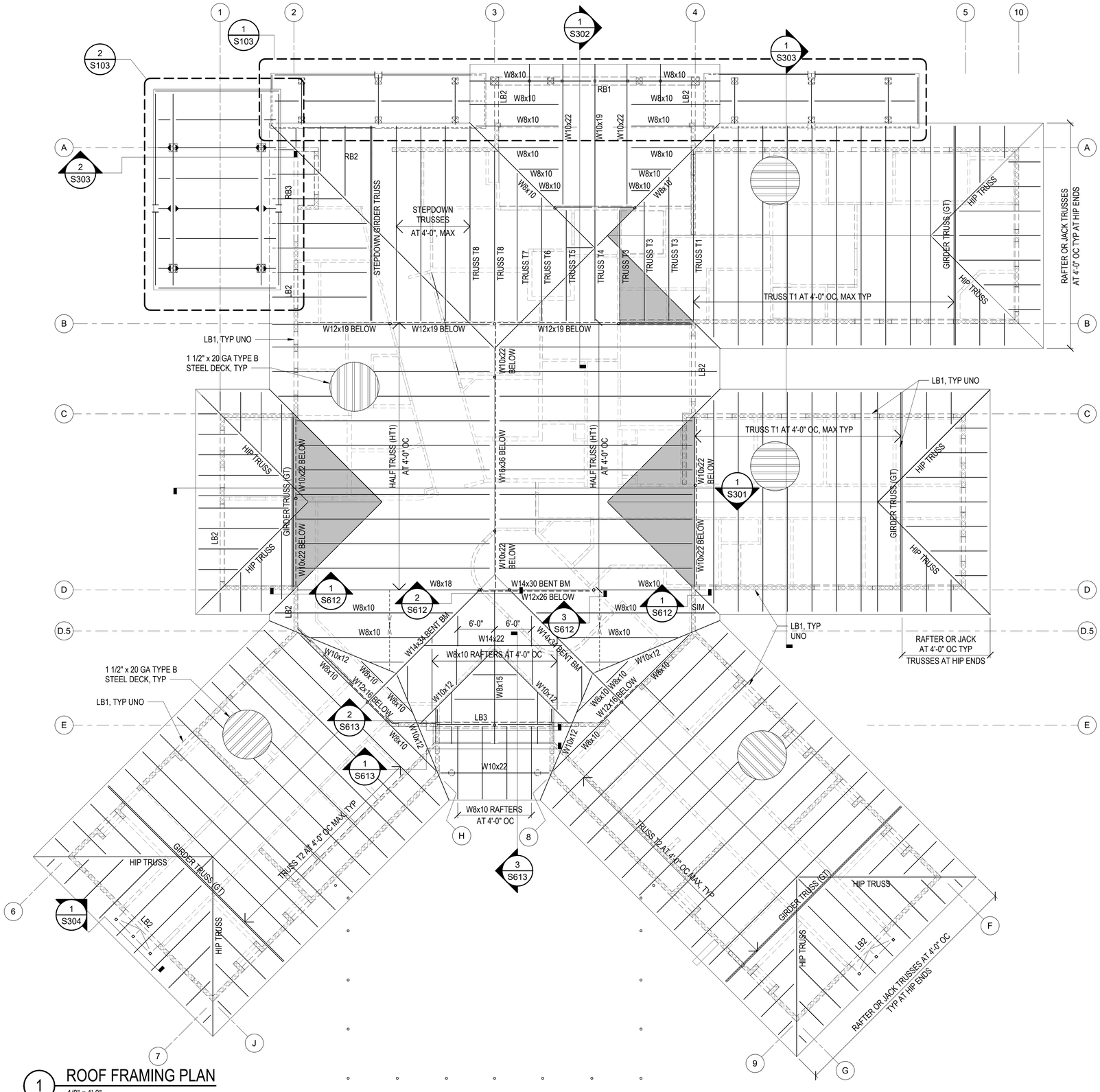
SCALE: As indicated

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BIN	BIN
PROJECT NO.	SHEET NO.
221093-01	S004
SHEET ISSUE DATE	
02/27/2026	

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4" CONC SLAB-ON-GRADE REINFORCED WITH 6x6-W2.9xW2.9 WWF OVER 4" CUSHION FILL
ADDED REINF AT REENTRANT CORNERS WITHOUT A CJ, TYP
8" CMU, SOLID GROUTED REINFORCING WITH #4 VERT AT 16" OC, CENTERED IN WALL. PROVIDE #4 HORIZ IN BOND BM AT FLOOR, TOP OF WALL AND 24" OC, TYP
FOR MECHANICAL YARD, SEE
4 1/2" CONC SLAB-ON-GRADE REINFORCED WITH #4 AT 20" OC, EACH WAY, OVER 15 MIL POLYOLEFIN VAPOR BARRIER, 4" CUSHION FILL, TYP
PIPE 4 STD ANTI-CLIMB FENCE POST, WITH 1'-6" DIA x 7'-0" DEEP DRILLED SHAFT FOOTING, SEE 1/S602, TYP
GRADE BEAM GB1 BETWEEN POST FOOTINGS, SEE 1/S602, TYP
8'-0"
8'-0"
EQ
EQ
8'-0"
8'-0"
5'-4"
8'-0"
8'-0"
8'-0



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

ROOF FRAMING NOTES:

1. UNLESS OTHERWISE NOTED THE MAIN ROOF SHALL BE FRAMED WITH COLD-FORMED STEEL PRE-ENGINEERED TRUSSES AT 4 FEET (PLUS OR MINUS) SPACING AS SHOWN ON THE ROOF FRAMING PLAN. ALL COLD-FORMED STEEL SHALL BE GALVANIZED TO G90. SEE ROOF TRUSS NOTES ON S002.
2. ALL COLD-FORMED STEEL MEMBERS USED FOR CANOPIES AND WALKWAY ROOF SHALL BE GALVANIZED TO G90.
3. ALL WIDE FLANGE BEAM, PLATES, AND PIPES SHALL BE HOT- DIPPED GALVANIZED.
4. UNLESS OTHERWISE NOTED, ROOF FRAMING SHALL BE SHEATHED BY 1-1/2" x 22 GA TYPE B ROOF METAL DECKING. SEE 4/S504

LEGEND

1. BEARING WALLS BELOW
2. NON-STRUCTURAL PARTITIONS SEE ARCH FOR DETAILS
3. CIRCULAR CONC COL BELOW
4. 3 1/2"Ø STD PIPE IN WALL OR EXPOSED
5. WIDE FLANGE BEAMS
6. HEADER BEAMS
7. BUILT-UP FRAMING AT 4'-0" MAX BY TRUSS MANUFACTURER.TYPE B STEEL DECK SHALL BE CONTINUOUS BENEATH ALL BUILT-UP FRAMING AREAS.
8. INDICATES SQUARE CMU COLUMN BELOW. SEE FOUNDATION PLAN FOR TYPE AND SCHEDULE.

N

8' 4' 0' 8' 16'

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APRIL 30, 2026
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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_S24_Central.rvt

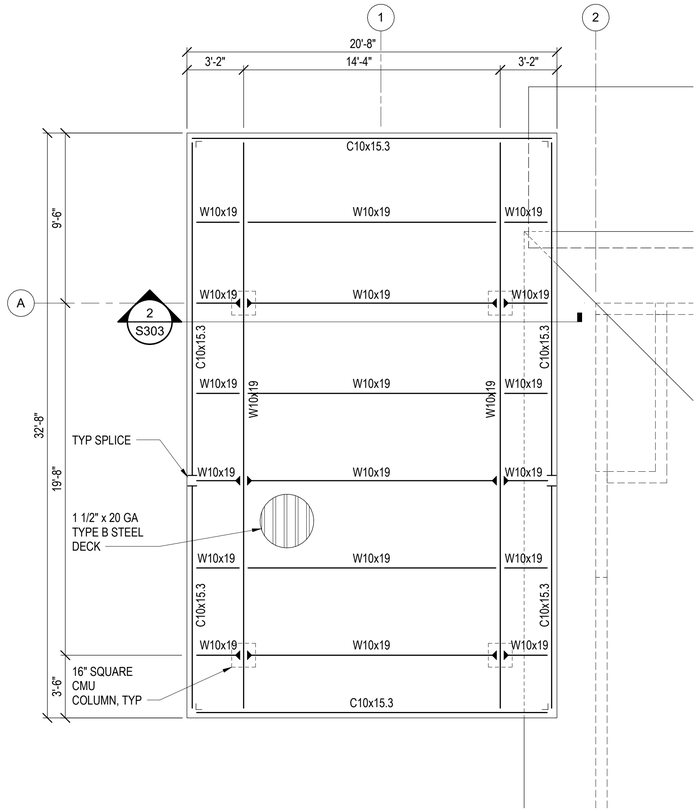
SHEET NAME
ROOF FRAMING PLAN

SCALE: As indicated

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PROJECT NO.	SHEET NO.
221093-01	S102
SHEET ISSUE DATE	
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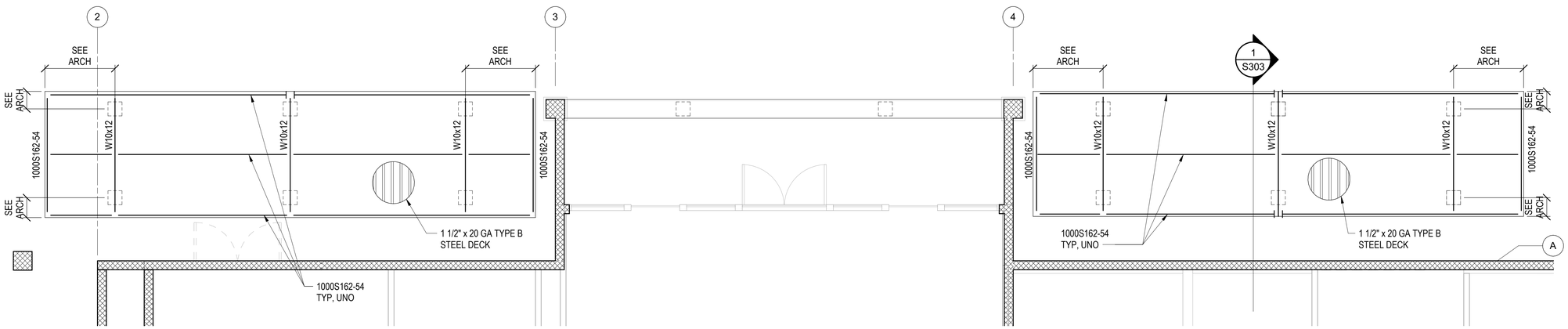
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3/2/2026 5:19:01 PM



2 AMBULANCE ROOF FRAMING PLAN

1/4" = 1'-0"



1 FLAT ROOF FRAMING PLAN

1/4" = 1'-0"

ROOF FRAMING NOTES:

1. UNLESS OTHERWISE NOTED THE MAIN ROOF SHALL BE FRAMED WITH COLD-FORMED STEEL PRE-ENGINEERED TRUSSES AT 4 FEET (PLUS OR MINUS) SPACING AS SHOWN ON THE ROOF FRAMING PLAN. ALL COLD-FORMED STEEL SHALL BE GALVANIZED TO G90. SEE ROOF TRUSS NOTES ON S002.
2. ALL COLD-FORMED STEEL MEMBERS USED FOR CANOPIES AND WALKWAY ROOF SHALL BE GALVANIZED TO G90.
3. ALL WIDE FLANGE BEAM, PLATES, AND PIPES SHALL BE HOT- DIPPED GALVANIZED.
4. UNLESS OTHERWISE NOTED, ROOF FRAMING SHALL BE SHEATHED BY 1-1/2" x 22 GA TYPE B ROOF METAL DECKING. SEE 4/S504

LEGEND

1. BEARING WALLS BELOW
2. NON-STRUCTURAL PARTITIONS SEE ARCH FOR DETAILS
3. CMU COL BELOW
4. 3 1/2"Ø STD PIPE IN WALL OR EXPOSED
5. WIDE FLANGE BEAMS
6. HEADER BEAMS
7. BUILT-UP FRAMING AT 4'-0" MAX BY TRUSS MANUFACTURER.TYPE B STEEL DECK SHALL BE CONTINUOUS BENEATH ALL BUILT-UP FRAMING AREAS.
8. INDICATES WELDED FLANGE MOMENT CONNECTION. SEE DETAIL 1/S611 FOR BEAM-TO-BEAM MOMENT CONNECTION.

N

4' 2' 0' 4' 8'

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TMK#: 4-6-014:113

FILENAME
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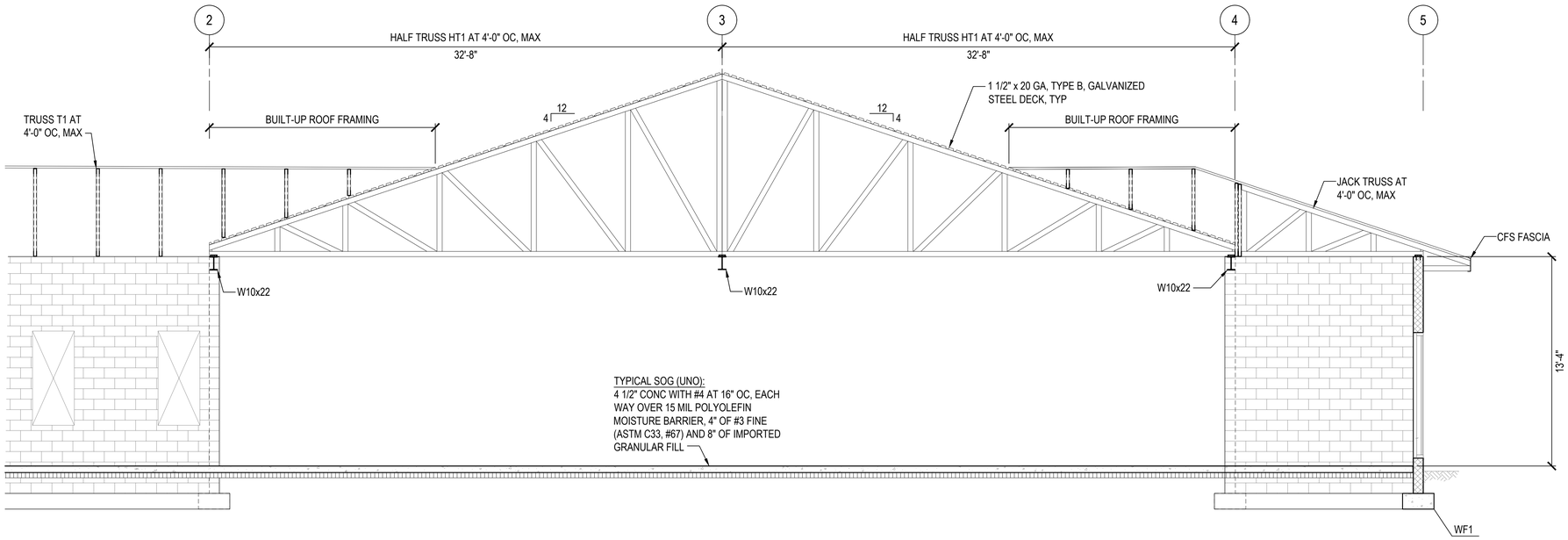
SHEET NAME
ROOF FRAMING PLAN

SCALE: As indicated

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PROJECT NO.	SHEET NO.
221093-01	S103
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1 SECTION - CHART ROOM, NOISY DINING

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

0 2' 4' 8'

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TMK#: 4-6-014:113

FILENAME
250802_S301.dwg

SHEET NAME
BUILDING SECTION

SCALE: As indicated

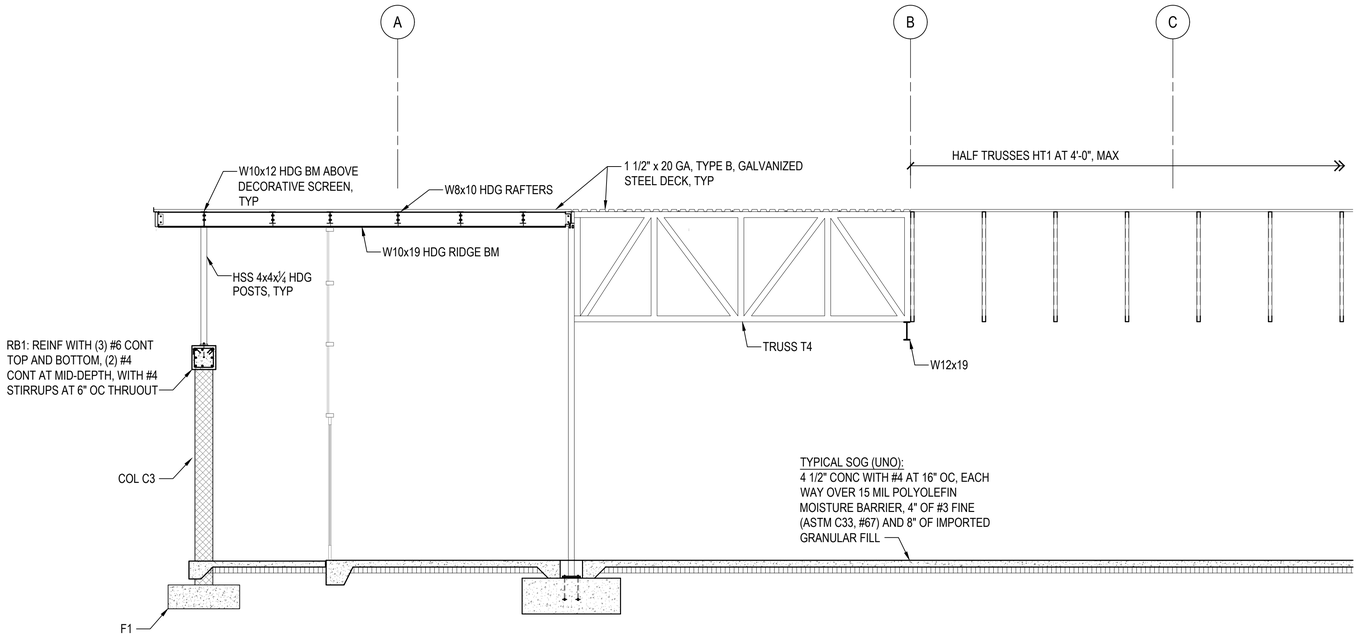
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BIN	BIN

PROJECT NO.	SHEET NO.
221093-01	S301

SHEET ISSUE DATE
02/27/2026

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1 SECTION - ENTRY/LOBBY

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

0 2' 4' 8'

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SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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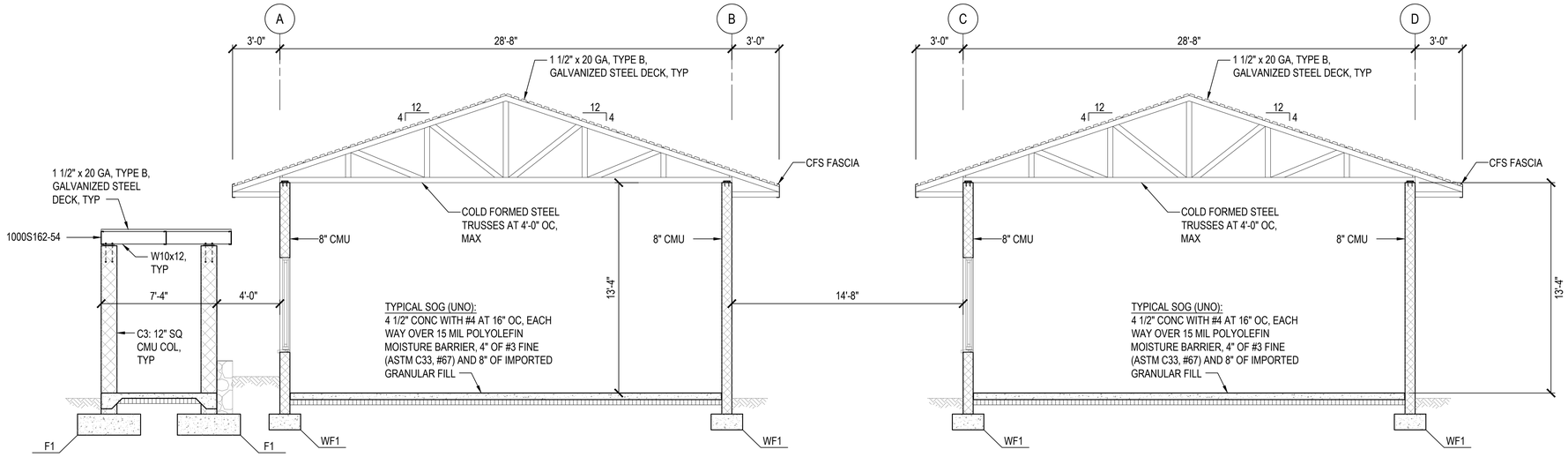
SHEET NAME
BUILDING SECTION

SCALE: As indicated

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BIN	BIN
PROJECT NO.	SHEET NO.
221093-01	**S302**
SHEET ISSUE DATE	
02/27/2026	

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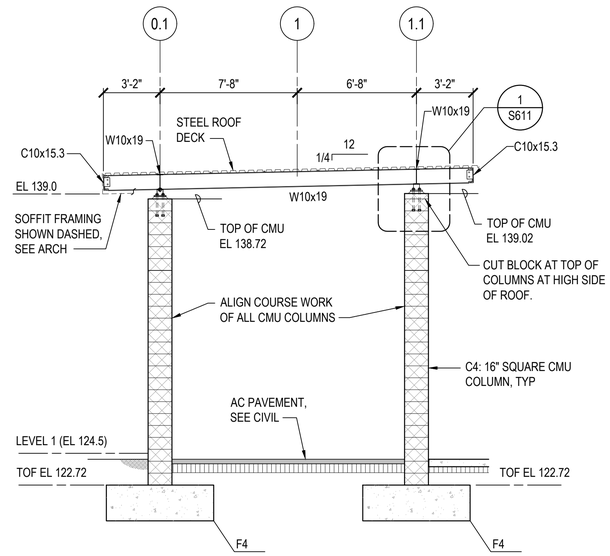
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1 SECTION - OUTPATIENT CLINIC AND STAFF OFFICES

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

0 2' 4' 8'



2 SECTION - AMBULANCE DROP OFF/LOADING

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

0 2' 4' 8'

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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SHEET NAME
BUILDING SECTION

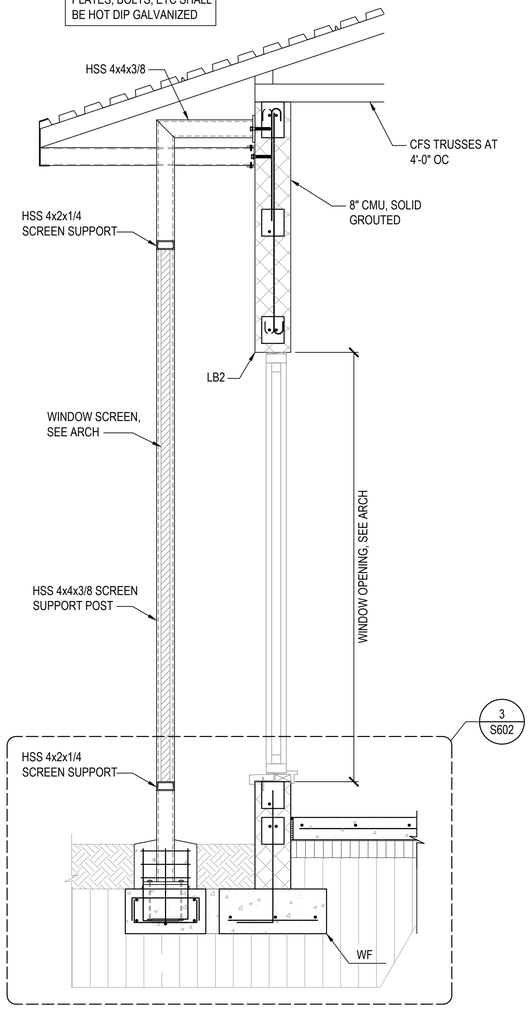
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BIN	BIN
PROJECT NO.	SHEET NO.
221093-01	S303
SHEET ISSUE DATE	
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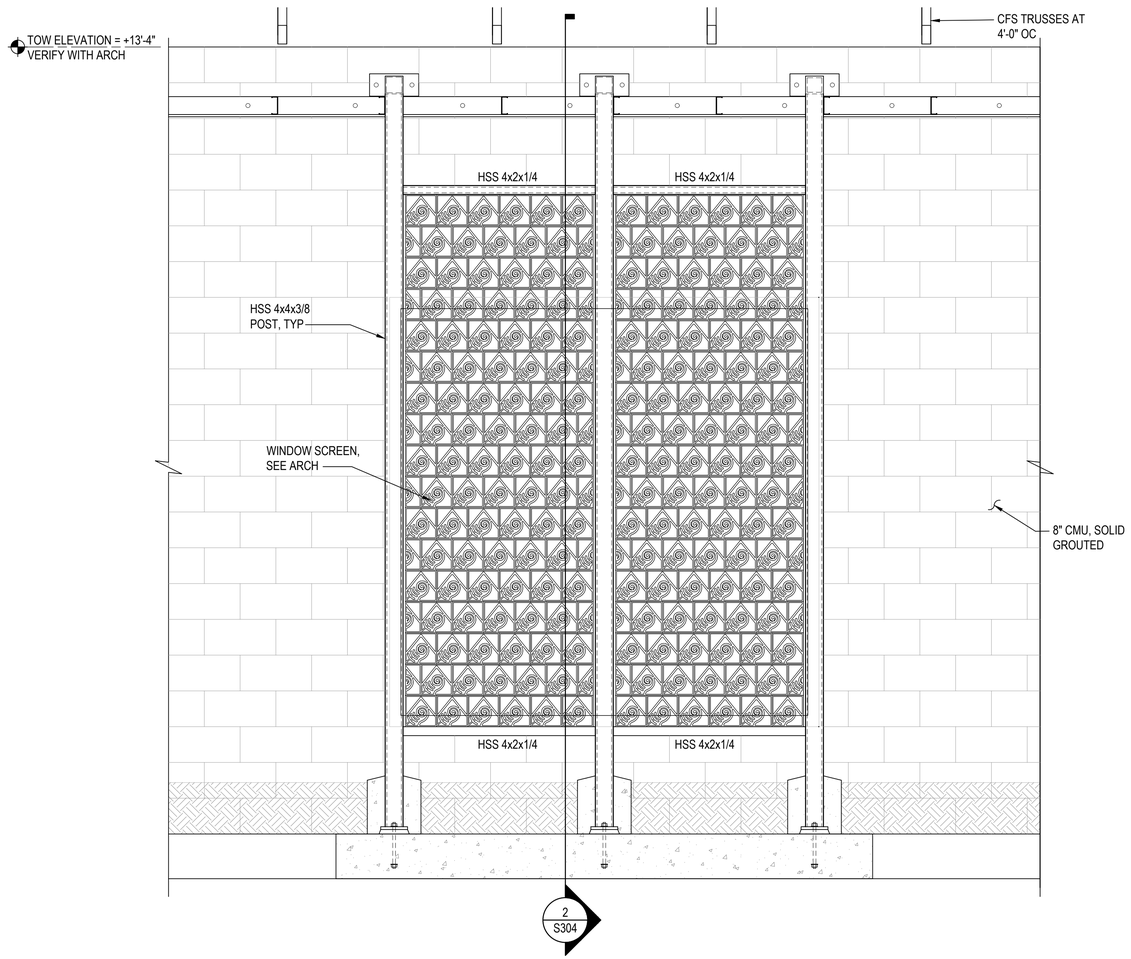
2/27/2026 8:40:52 PM

NOTE: ALL STEEL POSTS, PLATES, BOLTS, ETC SHALL BE HOT DIP GALVANIZED



2 SECTION
SCALE: 3/4" = 1'-0"

NOTE: ALL STEEL POSTS, PLATES, BOLTS, ETC SHALL BE HOT DIP GALVANIZED



1 WINDOW SCREEN SUPPORT FRAMING ELEVATION
SCALE: 3/4" = 1'-0"

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TMK#: 4-6-014:113

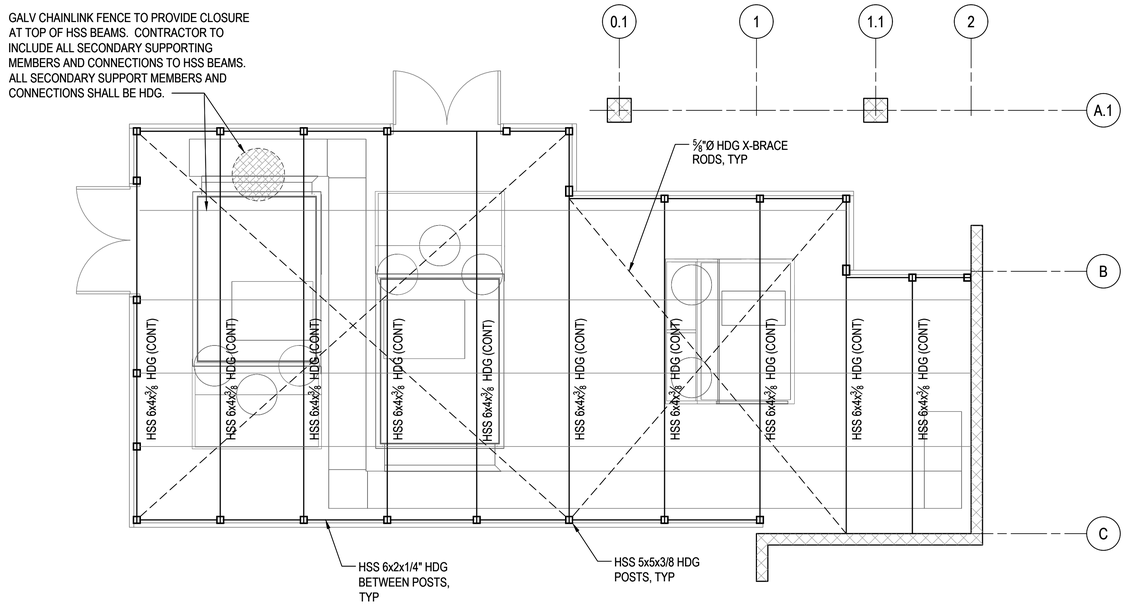
FILENAME
250802_S304.dwg

SHEET NAME
DECORATIVE SCREEN ELEVATION AND SECTION

SCALE: As indicated

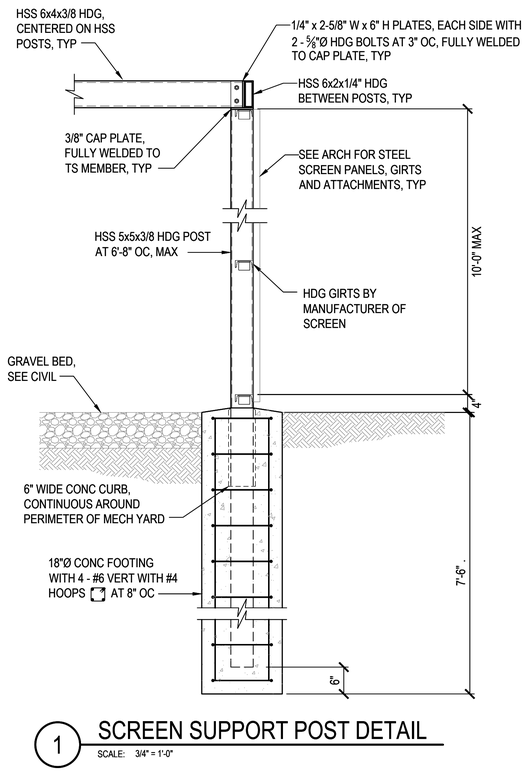
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BIN	BIN
PROJECT NO.	SHEET NO.
221093-01	S304
SHEET ISSUE DATE	
02/27/2026	

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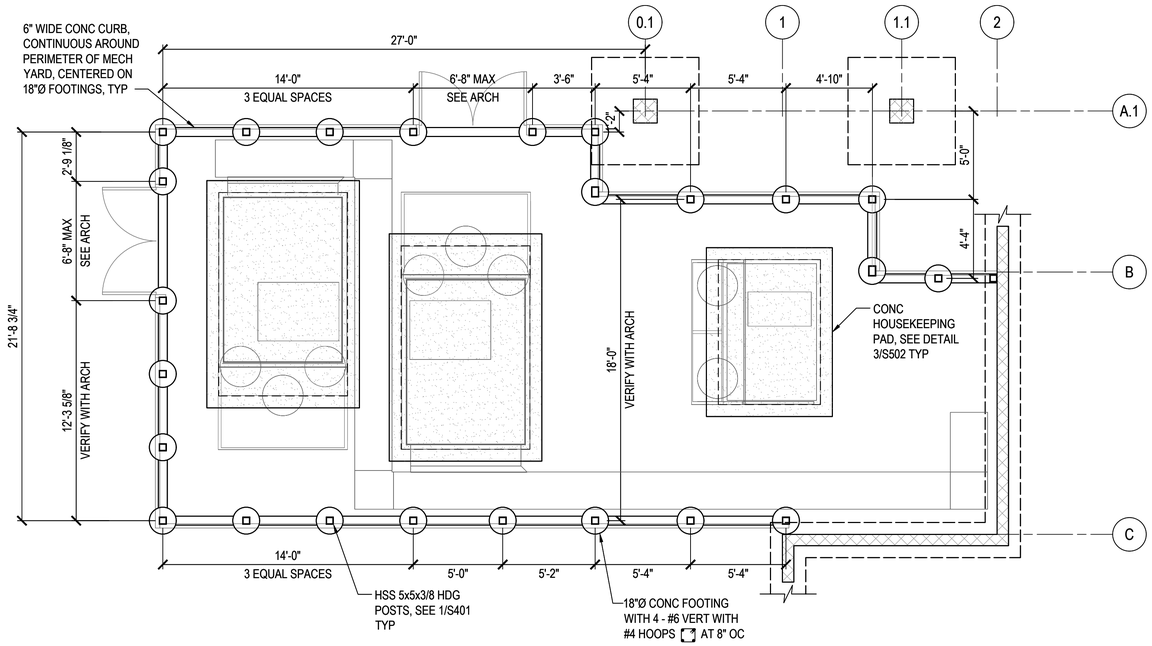
2 SUPPORT FOR HORIZONTAL CHAIN LINK CLOSURE LID

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



1 SCREEN SUPPORT POST DETAIL

SCALE: 3/4" = 1'-0"



3 FOUNDATION PLAN

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

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TMK#: 4-6-014:113

FILENAME
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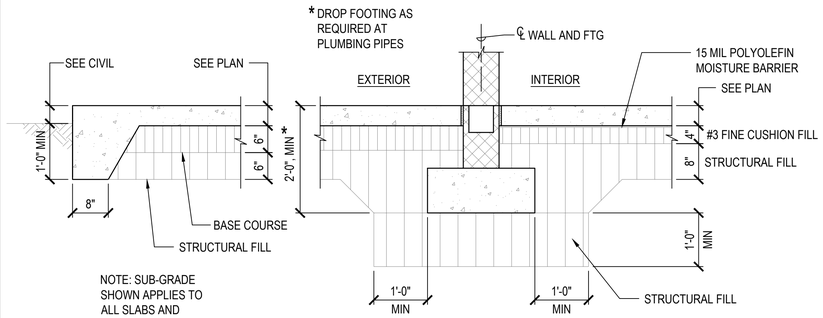
SHEET NAME
MECHANICAL YARD PLANS AND DETAILS

SCALE: As indicated

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BIN	BIN
PROJECT NO.	SHEET NO.
221093-01	S401
SHEET ISSUE DATE	
02/27/2026	

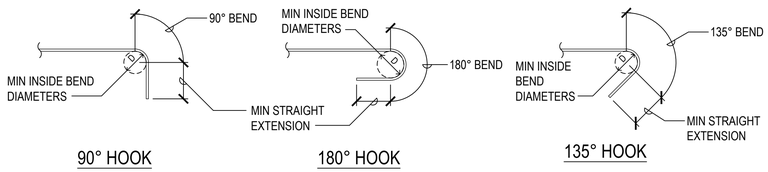
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2 TYP SUBGRADE DETAIL

SCALE: NTS

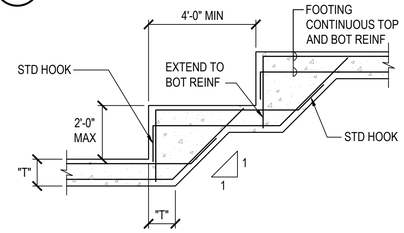


90° HOOK 180° HOOK 135° HOOK

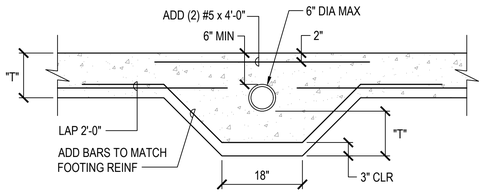
STANDARD HOOKS & MINIMUM INSIDE BEND DIAMETERS					
BAR SIZE NO	STIRRUPS AND TIES		ALL OTHER BENDS		
	MINIMUM INSIDE BEND DIAMETER	MIN STRAIGHT EXTENSION 90° & 135° HOOKS	MINIMUM INSIDE BEND DIAMETER	MIN STRAIGHT EXTENSION 90° HOOKS	MIN STRAIGHT EXTENSION 180° HOOKS
#3	1 1/2"	3"	2 1/4"	4 1/2"	2 1/2"
#4	2"	3"	3"	6"	2 1/2"
#5	2 1/2"	3 3/4"	3 3/4"	7 1/2"	2 1/2"
#6	-	-	4 1/2"	9"	3"
#7	-	-	5 1/4"	10 1/2"	3 1/2"
#8	-	-	6"	12"	4"

4 REBAR STANDARD HOOKS AND BEND DETAIL

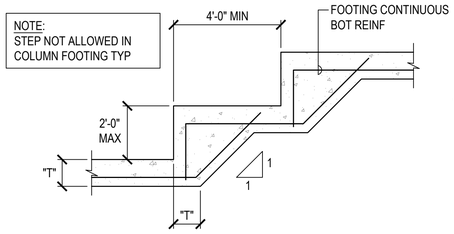
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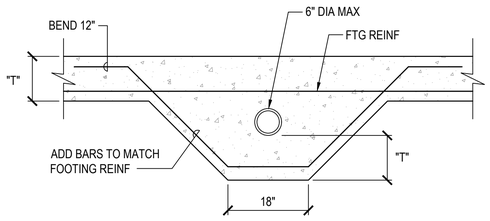
FOOTINGS WITH BOT REINF ONLY



THROUGH FOOTING



FOOTINGS WITH BOT REINF ONLY



UNDER FOOTING

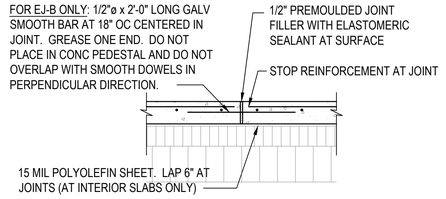
8 TYPICAL STEPPED FOOTING

SCALE: NTS

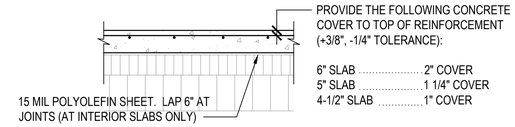
7 TYPICAL PIPE SLEEVE DETAIL

SCALE: NTS

FOR EJ-B ONLY: 1/2"ø x 2'-0" LONG GALV SMOOTH BAR AT 18" OC CENTERED IN JOINT. GREASE ONE END. DO NOT PLACE IN CONC PEDESTAL AND DO NOT OVERLAP WITH SMOOTH DOWELS IN PERPENDICULAR DIRECTION.

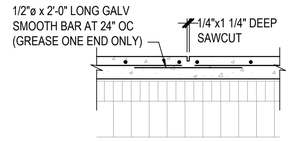


TYP. EXPANSION JOINT (EJ & EJ-B AS NOTED)

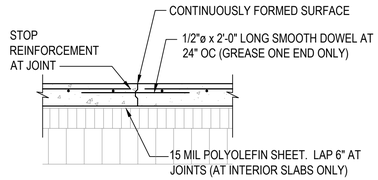


TYPICAL REINFORCEMENT PLACEMENT

NOTE:
SAWCUTS SHALL BE MADE AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT DISLODGEMENT OF AGGREGATE. COMPLETE SAWING OF JOINTS WITHIN 12 HOURS AFTER CONCRETE PLACEMENT. USE EARLY-ENTRY DRY-CUT SAW.



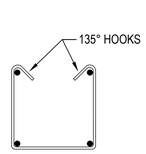
CONTROL JOINT (CJ)



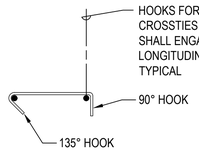
CONSTRUCTION JOINT

1 TYPICAL SLAB-ON-GRADE DETAILS

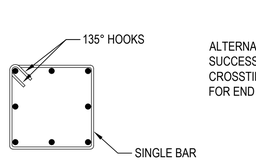
SCALE: NTS



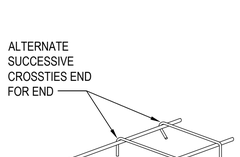
U-STIRRUP



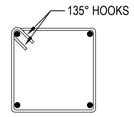
CROSSTIE



HOOP



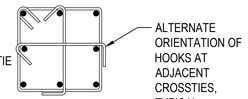
ALTERNATING CROSSTIES



SINGLE BAR



U-STIRRUP WITH CROSSTIE

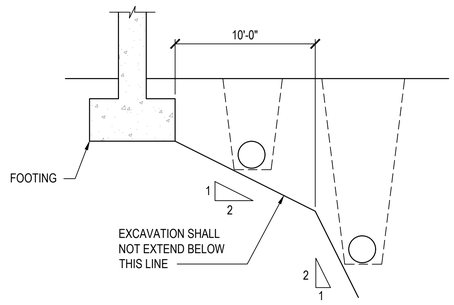


HOOP WITH CROSSTIES

NOTE:
FOR BEND DIAMETER AND STRAIGHT EXTENSION OF HOOKS, SEE TYPICAL DETAIL.

3 TYPICAL STIRRUP, HOOP AND CROSS TIE DETAIL

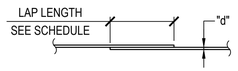
SCALE: NTS



NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TRENCH SLOPES BY SHORING AS REQUIRED.

6 TYPICAL TRENCH DETAIL

SCALE: NTS



LAP SPLICE



BAR OFFSET

DEFORMED BAR SPLICE LAP LENGTHS					
BAR SIZE	CONCRETE f'c = 4,000 PSI TOP BARS	CONCRETE f'c = 4,000 PSI OTHER BARS	CONCRETE f'c = 4,500 PSI TOP BARS	CONCRETE f'c = 4,500 PSI OTHER BARS	CONCRETE MASONRY
#3	24"	18"	20"	16"	18"
#4	26"	20"	24"	18"	22"
#5	32"	24"	30"	22"	34"
#6	45"	34"	42"	32"	64"
#7	74"	57"	70"	54"	88"
#8	96"	74"	91"	70"	130"

NOTES:

1. SPLICES OF REINFORCING BARS SHALL OCCUR ONLY WHERE INDICATED ON THE DRAWINGS.
2. UNLESS NOTED OTHERWISE, BARS NOTED "CONT", AND VERTICAL WALL AND COLUMN BARS MAY BE SPLICED ANYWHERE ALONG THEIR LENGTHS WITH LAP LENGTH INDICATED ON THIS SCHEDULE.
3. TOP BARS ARE HORIZONTAL BARS THAT HAVE MORE THAN 12 INCHES OF FRESH CONCRETE PLACED BELOW THE BAR.

5 REBAR LAP SPLICE DETAIL

SCALE: NTS

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APRIL 30, 2026
License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
250802_S501.dwg

SHEET NAME
TYPICAL DETAILS

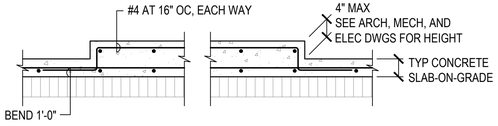
SCALE: As indicated

DRAWN BY	CHECKED BY
BIN	BIN

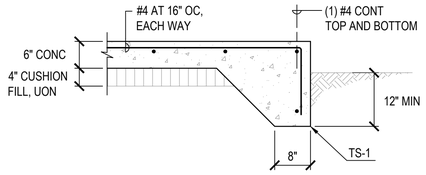
PROJECT NO.	SHEET NO.
221093-01	S501

SHEET ISSUE DATE
02/27/2026

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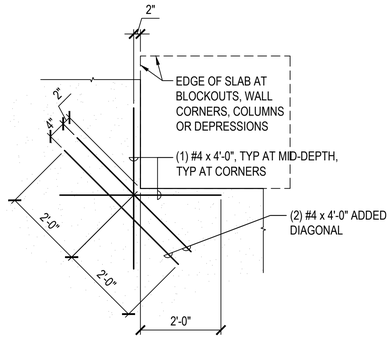
CONDITION AT RAISED SLAB WITHIN TYPICAL SLAB-ON-GRADE



CONDITION AT EXTERIOR EQUIPMENT PAD

3 TYPICAL CONCRETE PAD DETAIL

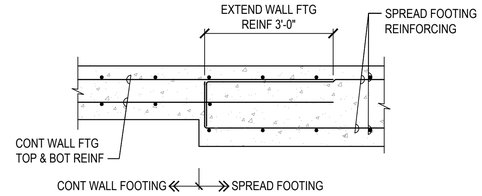
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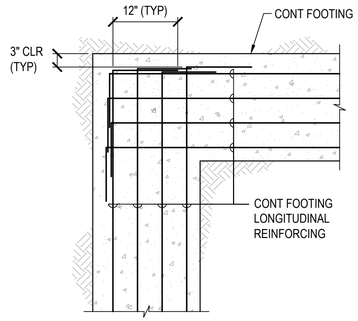
PLAN

2 TYP SOG RE-ENTRANT CORNER/BLOCKOUT DETAIL

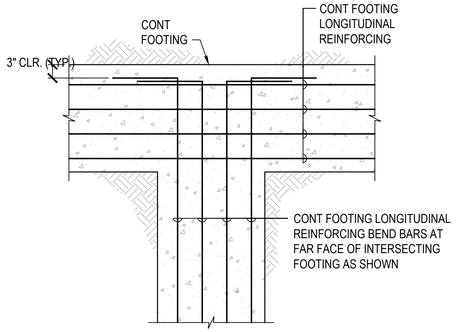
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ELEVATION



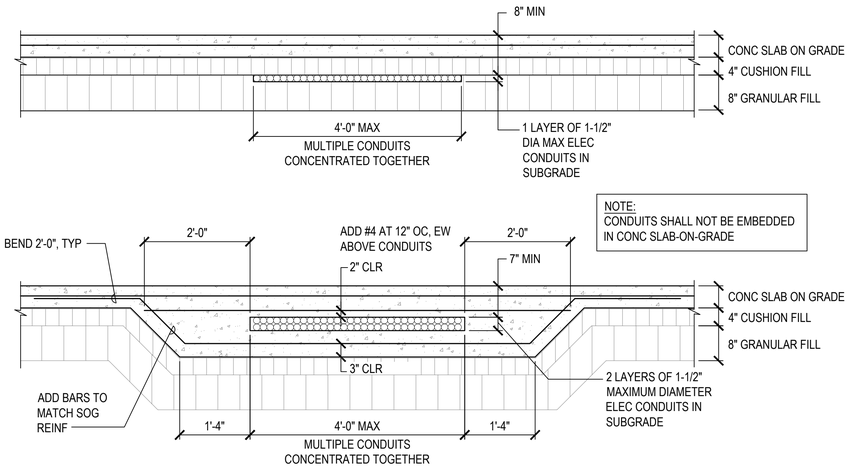
PLAN AT CORNERS



PLAN AT "T" INTERSECTION

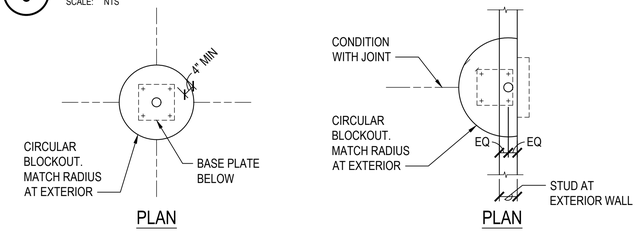
1 FOOTING DETAIL AT INTERSECTIONS

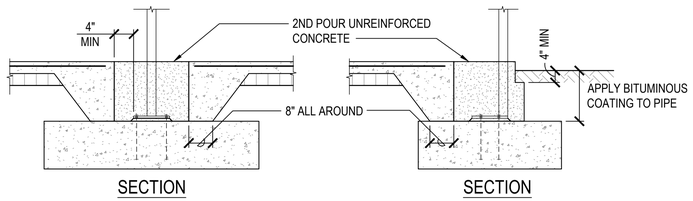
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6 ELECTRICAL CONDUITS BELOW SLAB-ON-GRADE

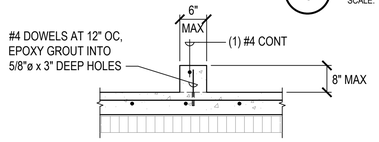
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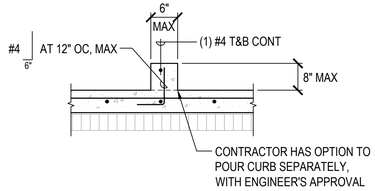


9 CJ AT PIPE COLUMNS

SCALE: NTS

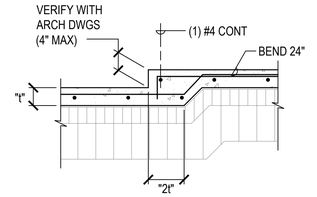


ALTERNATE AT PARTITION WALL ONLY



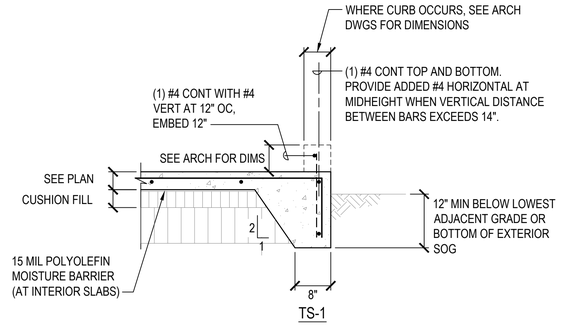
5 TYP CONCRETE CURB DETAIL

SCALE: NTS



4 TYP DEPRESSED SLAB DETAIL

SCALE: NTS



7 THICKENED SLAB DETAIL

SCALE: NTS

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SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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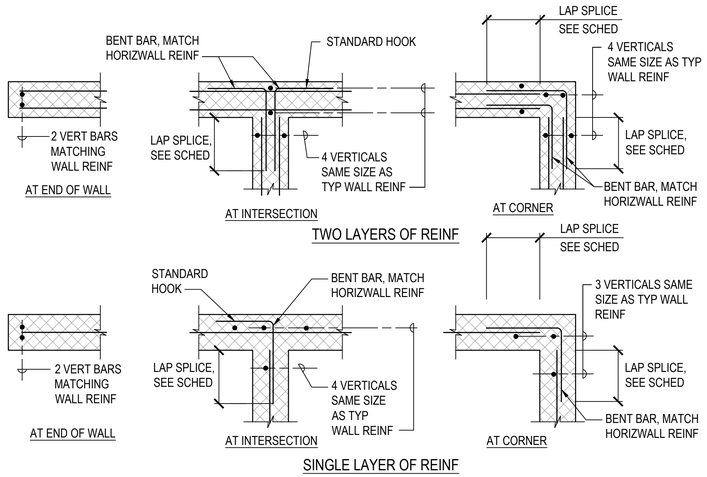
SHEET NAME
TYPICAL DETAILS

SCALE: As indicated

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BIN	BIN
PROJECT NO.	SHEET NO.
221093-01	**S502**
SHEET ISSUE DATE	
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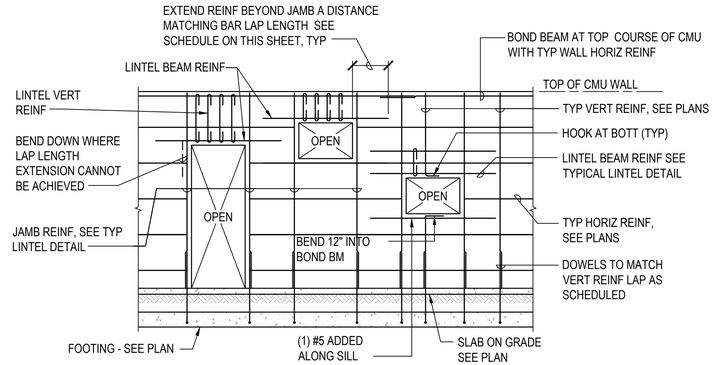
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2 TYPICAL CMU REINFORCING AT WALL ENDS, INTERSECTIONS & CORNERS

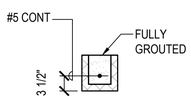
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4 TYPICAL CMU WALL REINFORCING DETAIL

SCALE: NTS

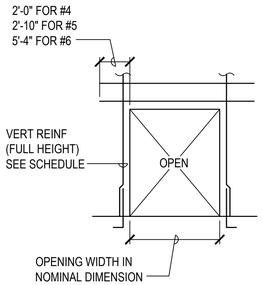
NOTE:
UNLESS NOTED OTHERWISE THESE LINTEL DETAILS SHALL APPLY.

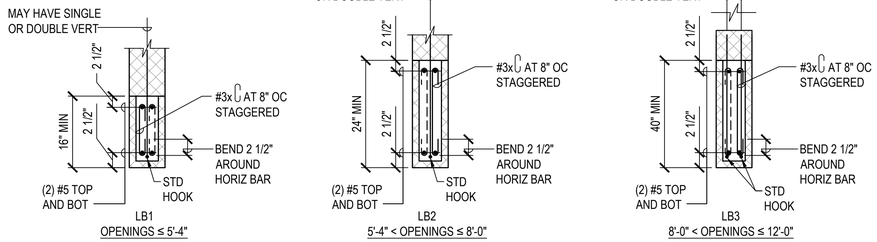


SINGLE COURSE LINTEL BM OPENINGS ≤ 2'-8"

JAMB REINF SCHEDULE		
OPENING WIDTH	# OF CELLS AT JAMB W/ REINF AT EF	REINF SIZE
≤ 4'-0"	1	SAME AS TYP VERT
≤ 6'-0"	2	SAME AS TYP VERT
≤ 8'-0"	3	SAME AS TYP VERT
≤ 12'-0"	4	SAME AS TYP VERT

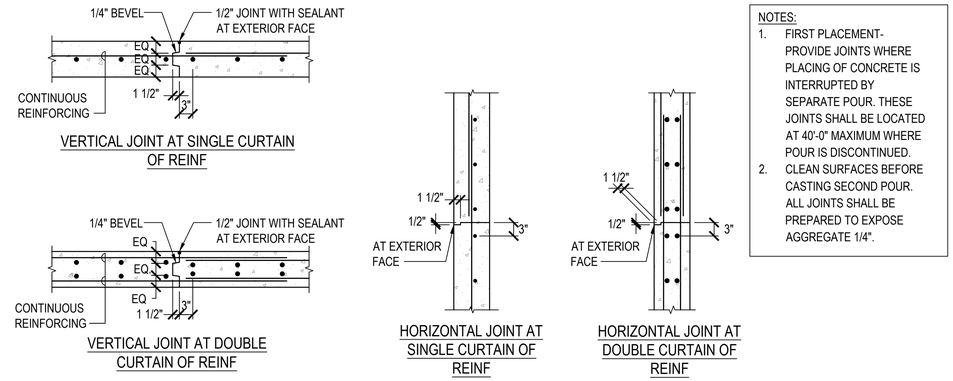
JAMB REINF SHALL BE FULL HEIGHT, FOOTING TO TOP OF WALL





7 LINTELS AT CMU WALLS (LB-)

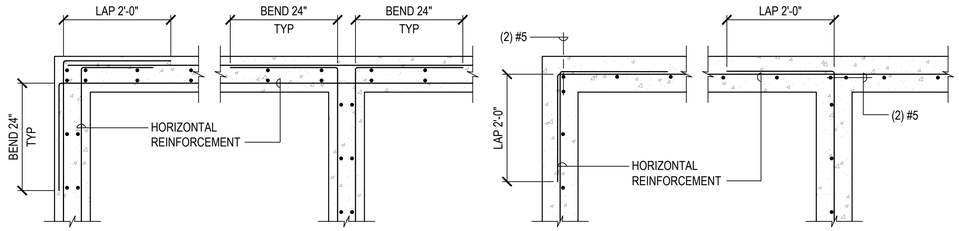
SCALE: NTS



NOTES:
1. FIRST PLACEMENT- PROVIDE JOINTS WHERE PLACING OF CONCRETE IS INTERRUPTED BY SEPARATE POUR. THESE JOINTS SHALL BE LOCATED AT 40'-0" MAXIMUM WHERE POUR IS DISCONTINUED.
2. CLEAN SURFACES BEFORE CASTING SECOND POUR. ALL JOINTS SHALL BE PREPARED TO EXPOSE AGGREGATE 1/4".

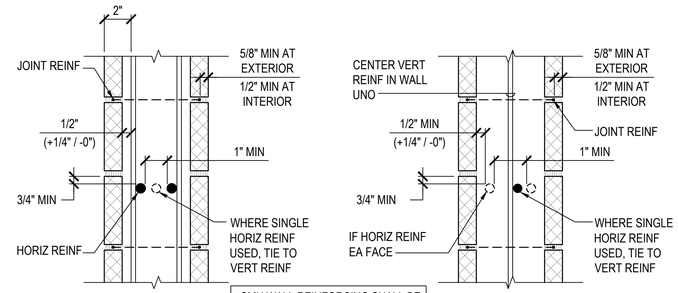
1 TYPICAL CONCRETE WALL CONSTRUCTION JOINT (WJ)

SCALE: NTS



3 TYPICAL CONCRETE WALL REINFORCING DETAILS

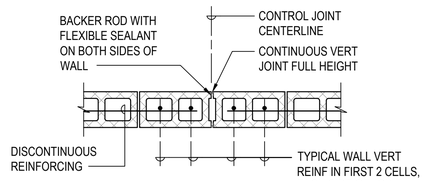
SCALE: NTS



CMU WALL REINFORCING SHALL BE SECURED AGAINST DISPLACEMENT BY GALVANIZED WIRE POSITIONER, 9 GAUGE MINIMUM.

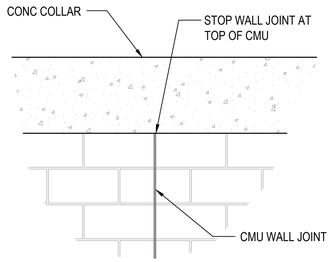
5 CMU WALL REINFORCING PLACEMENT

SCALE: NTS



JOINTS AT WALLS WITH CONCRETE COLLAR SHALL NOT EXTEND INTO THE CONCRETE COLLAR. SEE ELEVATION AT RIGHT,

PLAN-SECTION



ELEVATION

6 CMU WALL JOINT (WJ)

SCALE: NTS

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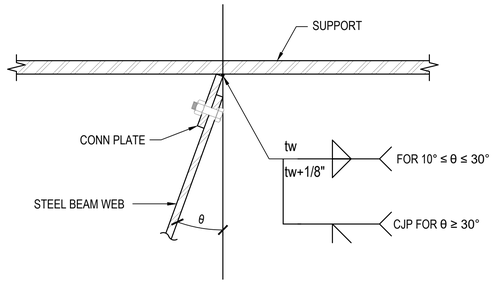
SHEET NAME
TYPICAL DETAILS

SCALE: As indicated

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BIN	BIN
PROJECT NO.	SHEET NO.
221093-01	S503
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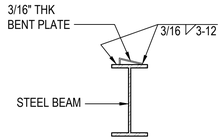
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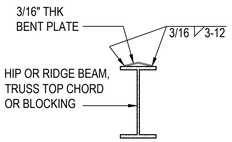


3 TYPICAL SKEWED BEAM CONNECTION

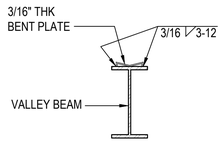
SCALE: NTS



SECTION AT SLOPE



SECTION AT HIP OR RIDGE



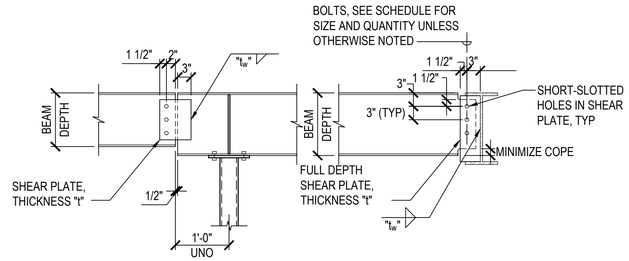
SECTION AT VALLEY

NOTE:
BENT PLATES SHALL BE DETAILED TO PROVIDE 2" MINIMUM BEARING FOR METAL DECKING

2 TYPICAL METAL DECK SUPPORT DETAIL

SCALE: NTS

CONNECTION SCHEDULE				
BEAM DEPTH	BOLTS	NO. OF BOLTS	t	t_w
W8, W10, W12	3/4"ø, A325, X	2	1/4	3/16
W14	3/4"ø, A325, X	3	1/4	3/16
W16	3/4"ø, A325, X	4	3/8	1/4



1 STEEL BEAM-TO-BEAM CONNECTION DETAIL

SCALE: NTS

END BEARING PLATE

INTERMEDIATE BEARING PLATE

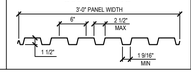
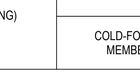
POST TO BEAM

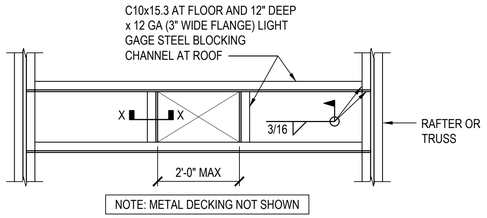
BASE BEARING PLATE

NOTES:
1. ALL BEARING PLATES SHALL BE 5/8" THICK UNLESS NOTED OTHERWISE ON PLAN OR SECTION.
2. ALL STIFFENERS SHALL BE 1/4" THICK, EACH SIDE, UNO
3. FOR TUBE OR PIPES SIZES, SEE PLAN.
4. W = BEAM FLANGE WIDTH MINIMUM (BEAM FLANGE WIDTH PLUS 1/2" AT END CONDITION).
5. SLOPED RAFTER CONDITION SIMILAR.

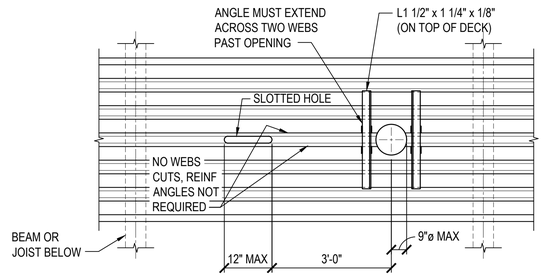
5 TYP STEEL PIPE/TUBE CONNECTIONS

SCALE: NTS

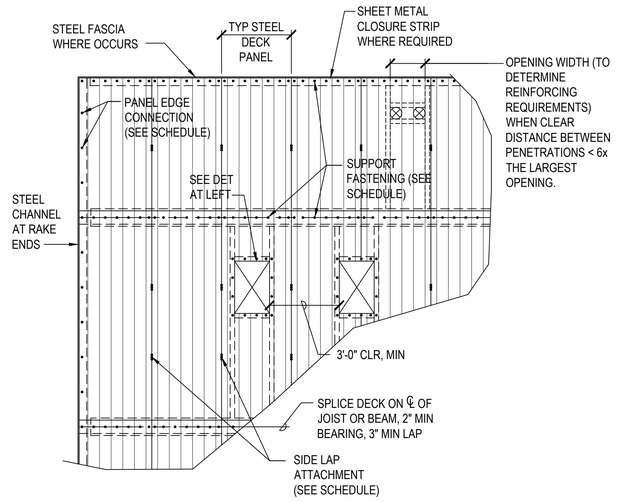
GALVANIZED METAL DECK SCHEDULE								
METAL DECK LOCATION	DECK TYPE	MINIMUM MOMENT OF INERTIA AND SECTION MODULUS	TOTAL THICKNESS INCLUDING CONCRETE TOPPING	SUPPORTING MEMBERS	SEAM ATTACHMENT (MINIMUM)	FASTENER PATTERN	STRUCTURAL CONNECTION AT INTERIOR SUPPORTS	SUPPORT PARALLEL TO EDGE
ALL ROOFS	1 1/2" x 20 GA, TYPE B G90 COATING 	I=0.220 IN⁴ /FT +S=0.235 IN³ /FT	(NO TOPPING)	ROLLED SECTIONS	VERCO PUNCHLOCK, ASC DELTA GRIP OR EQUIVALENT AT 12" CENTERS	36/7 	HILTI ENP2/ENPH2-21-L-15	HILTI ENP2/ENPH2-21-L-15 AT 12" OC
				COLD-FORMED MEMBERS	VERCO PUNCHLOCK, ASC DELTA GRIP OR EQUIVALENT AT 12" CENTERS	36/7 	#12-14 CLIMASEAL PLATED HEX WASHER HEAD TEK3 SCREWS	#12-14 CLIMASEAL PLATED HEX WASHER HEAD TEK3 SCREWS AT 6" CENTERS



9" < OPENINGS < 3'-0"



OPENINGS < 9" DIAM OR SQUARE



TYPICAL DECK LAYOUT

4 TYPICAL METAL DECK SCHEDULE AND DETAILS

SCALE: NTS

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APRIL 30, 2026
License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
250802_S504.dwg

SHEET NAME
TYPICAL DETAILS

SCALE: As indicated

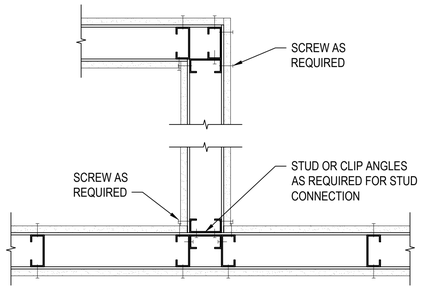
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BIN	BIN

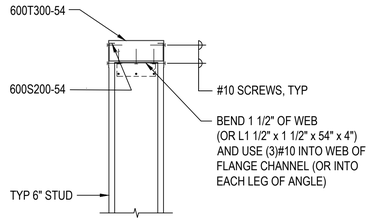
PROJECT NO.	SHEET NO.
221093-01	S504

SHEET ISSUE DATE
02/27/2026

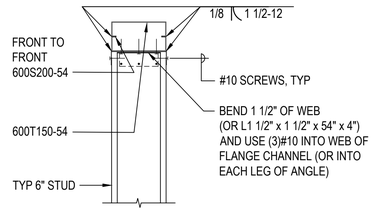
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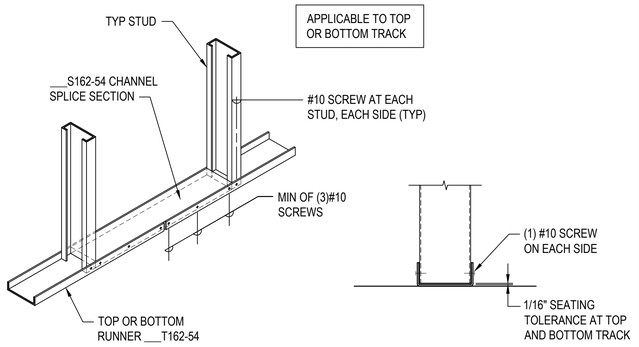




℄ TO ℄ SPAN ≤ 32'-0"



℄ TO ℄ SPAN ≥ 56'-0"



3 NON-SHEARWALL INTERSECTION DETAIL

SCALE: NTS

2 TOP TRACK LOAD BEARING WALL

SCALE: NTS

1 TYPICAL TRACK SPLICE DETAIL

SCALE: NTS

NOTES:
1. X-BRACING SHALL BE FLAT STRAP OR PROPRIETARY SYSTEM.
2. X-BRACING SHALL BE MIDSPAN OF ALL JOIST SPANING GREATER THAN 10'-0".

6 TYPICAL MID-SPAN BRACING

SCALE: NTS

VALLEY

HIP OR RIDGE

5 TYP HIP, RIDGE AND VALLEY BLOCKING

SCALE: NTS

STUDS

NOTES:
1. WHERE WALL IS PART OF SHEAR WALL, STRAP BLOCKING SHALL BE PROVIDED WITH SOLID BLOCKING BETWEEN THE FIRST TWO END STUDS. STRAP BLOCKING SHALL BE PROVIDED BEHIND ALL HORIZONTAL JOINTS OF GYPSUM BOARD IS USED FOR SHEAR WALL SHEATHING.
2. STRAP MUST BE INSTALLED TIGHT.

4 TYPICAL STUD WALL BLOCKING DETAIL

SCALE: NTS

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TMK#: 4-6-014:113

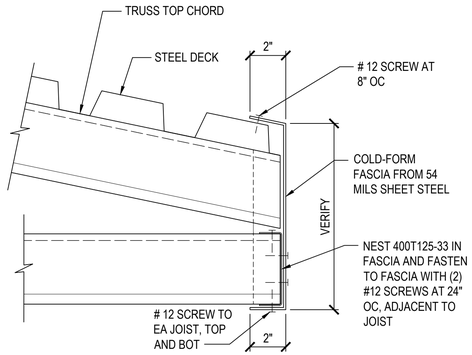
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SHEET NAME
TYPICAL DETAILS

SCALE: As indicated

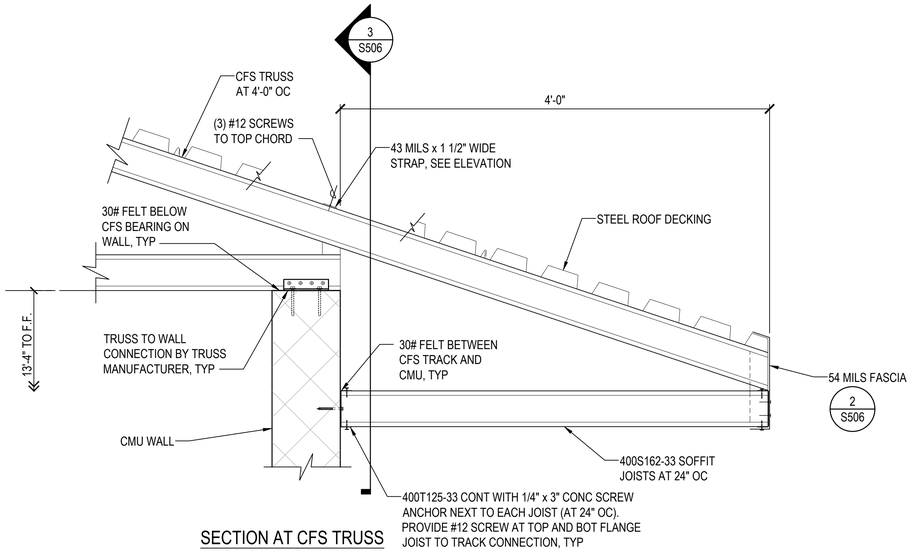
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BIN	BIN
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221093-01	S505
SHEET ISSUE DATE	
02/27/2026	

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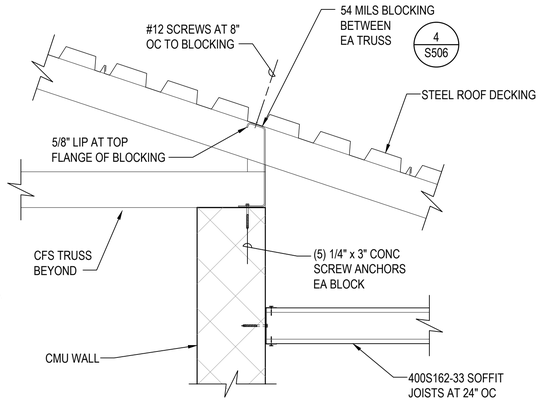


2 TYP CFS FASCIA DETAIL

SCALE: 3" = 1'-0"



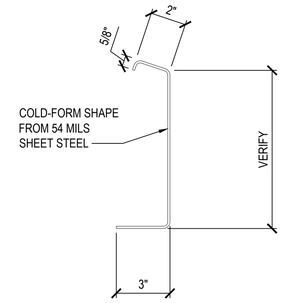
SECTION AT CFS TRUSS

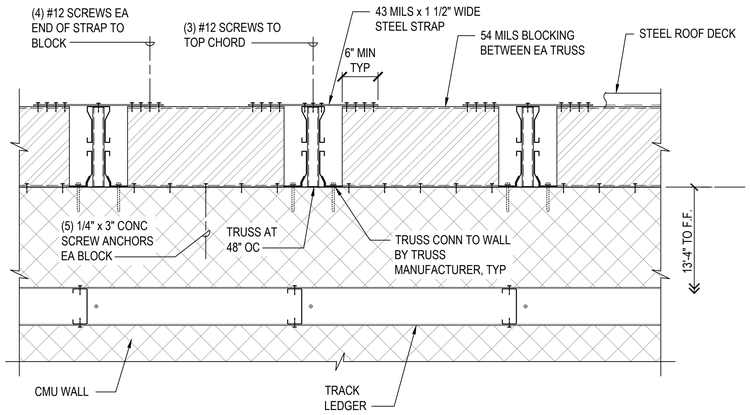


SECTION BETWEEN CFS TRUSSES

1 TYP EAVE DETAIL

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



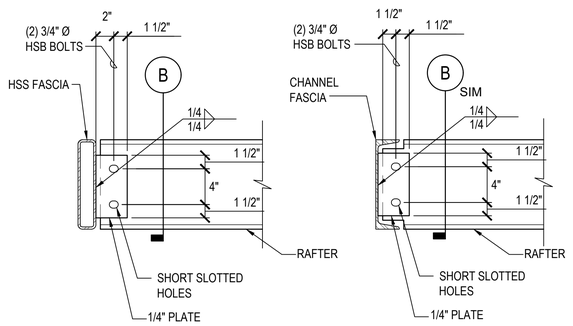


NOTES

1. SEE COLD-FORMED STEEL TRUSS NOTES ON SHEET SA02.
2. ALTERNATE METHODS OF BLOCKING THE TRUSSES MAY BE PROPOSED BY THE CONTRACTOR. BLOCKING MUST PREVENT THE TRUSSES FROM ROLLING AT THE CMU WALL AND MUST BE CAPABLE OF TRANSFERRING 300 LB/FT FROM THE ROOF DECKING TO THE CMU WALL IN THE PLANE OF THE CMU WALL.

4 TYP CFS TRUSS BLOCKING

SCALE: 3" = 1'-0"

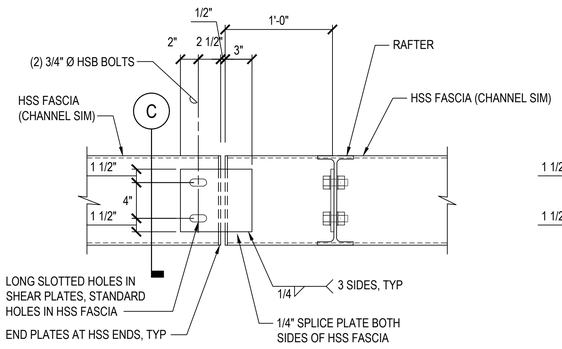


HSS FASCIA CONN

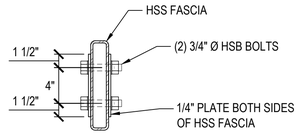
CHANNEL FASCIA CONN

3 ELEVATION AT EAVE

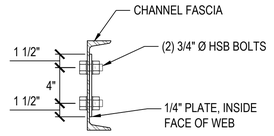
SCALE: NTS



B ELEVATION AT HSS FASCIA SPLICE



HSS FASCIA



CHANNEL FASCIA

C SECTION AT SPLICE IN FASCIA

5 STRUCTURAL STEEL FASCIA DETAIL

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

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
250802_S506.dwg

SHEET NAME
TYPICAL DETAILS

SCALE: As indicated

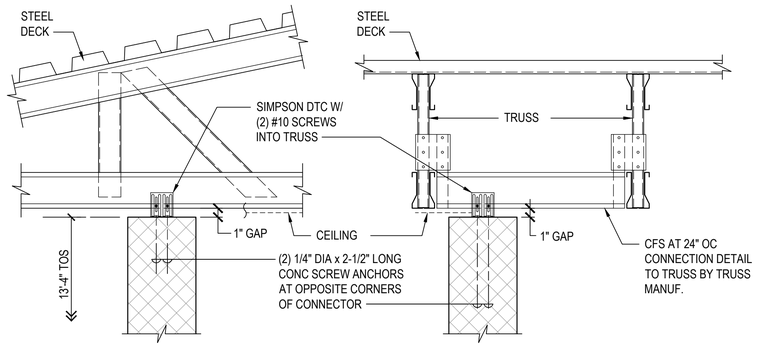
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BIN	BIN

PROJECT NO.	SHEET NO.
221093-01	S506

SHEET ISSUE DATE
02/27/2026

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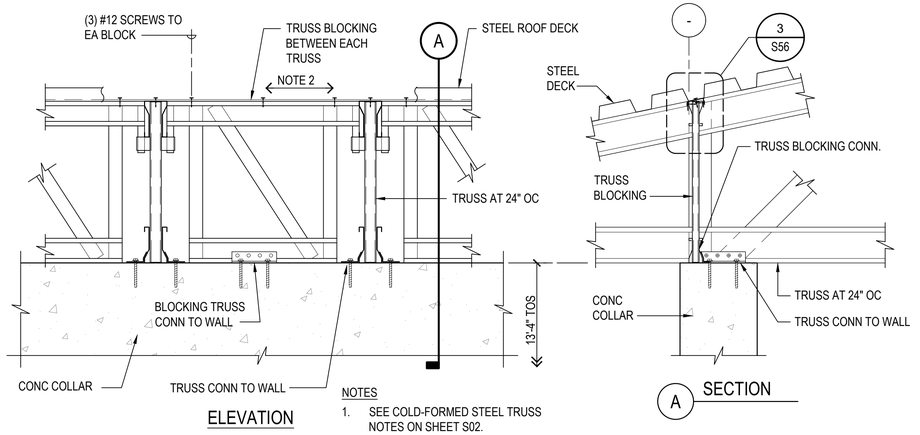
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TRUSS PERPENDICULAR TO WALL | TRUSS PARALLEL TO WALL

2 TYPICAL CFS TRUSS TO NON-BEARING CMU WALL CONNECTION

SCALE: NTS



ELEVATION | SECTION

NOTES

1. SEE COLD-FORMED STEEL TRUSS NOTES ON SHEET S02.
2. DESIGN TRUSS BLOCKING FOR 300 LB (SERVICE LEVEL) IN-PLANE LOAD AT TOP CHORD.

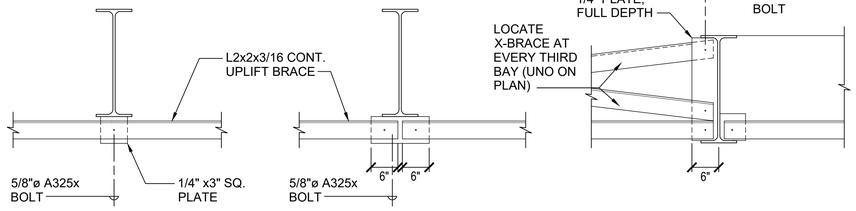
1 TYPICAL TRUSS TO CMU WALL CONNECTION

SCALE: NTS

SCHEDULE OF BOTTOM FLANGE BRACE LOCATION (U.O.N. ON ROOF FRAMING PLAN)	
SPAN	LOCATION(S)
SPAN < 10'-0"	NONE REQUIRED
10'-0" < SPAN < 18'-0"	AT MIDSPAN
SPAN ≥ 18'-0"	AT 1/3 SPAN

NOTES:

1. CONTRACTOR MAY SUBMIT ALTERNATE BRACING DETAIL ALONG WITH CALCULATIONS FOR APPROVAL. CALCULATIONS SHALL BE STAMPED BY LICENSE STRUCTURAL ENGINEER LICENSED IN THE STATE OF HAWAII.
2. DETAIL APPLIES AT ALL ROOF WIDE FLANGE BEAMS.



5 TYPICAL BOTTOM FLANGE BRACE DETAIL

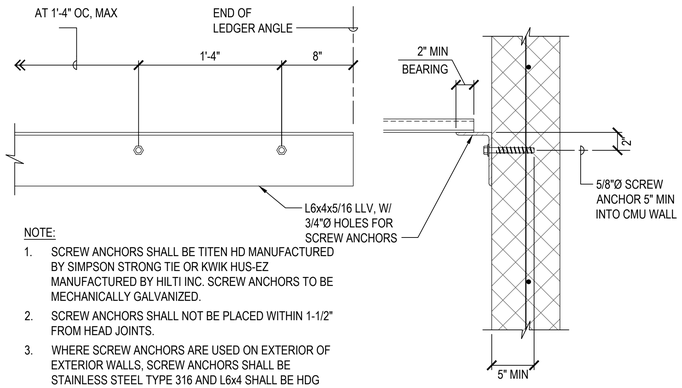
SCALE: NTS

4 CFS FASCIA DETAIL

SCALE: 3" = 1'-0"

3 TYPICAL ROOF DECK TO CFS TRUSS BLOCKING

SCALE: 3" = 1'-0"

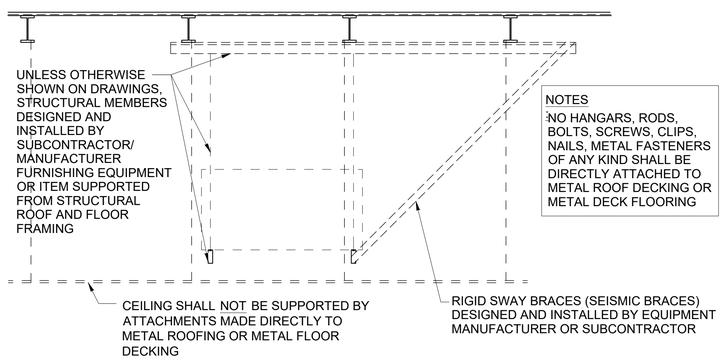


NOTE:

1. SCREW ANCHORS SHALL BE TITEN HD MANUFACTURED BY SIMPSON STRONG TIE OR KWIK HUS-EZ MANUFACTURED BY HILTI INC. SCREW ANCHORS TO BE MECHANICALLY GALVANIZED.
2. SCREW ANCHORS SHALL NOT BE PLACED WITHIN 1-1/2" FROM HEAD JOINTS.
3. WHERE SCREW ANCHORS ARE USED ON EXTERIOR OF EXTERIOR WALLS, SCREW ANCHORS SHALL BE STAINLESS STEEL TYPE 316 AND L6x4 SHALL BE HDG AFTER FABRICATION.

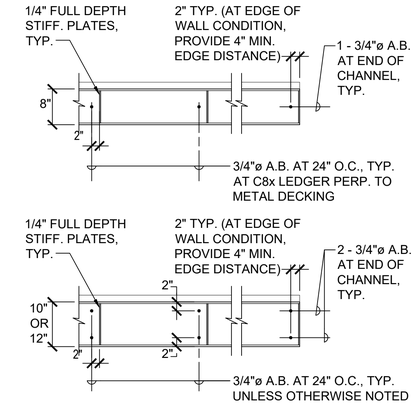
8 ANGLE LEDGER FOR METAL DECKING

SCALE: NTS



7 TYPICAL DETAIL - ELEMENTS SUPPORTED FROM ROOF FRAMING

SCALE: NTS



6 TYPICAL CHANNEL LEDGER DETAIL

SCALE: NTS

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TMK#: 4-6-014:113

FILENAME
250802_S507.dwg

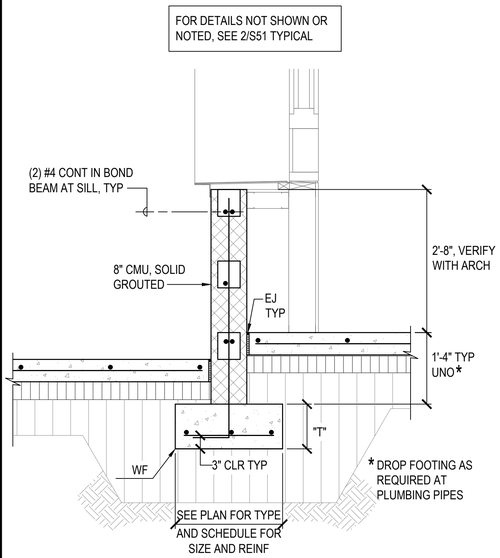
SHEET NAME
TYPICAL DETAILS

SCALE: As indicated

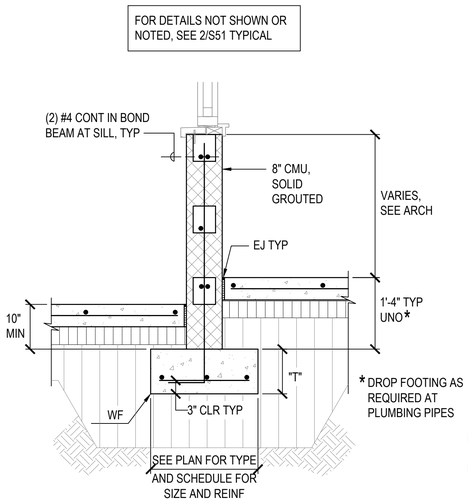
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BIN	BIN
PROJECT NO.	SHEET NO.
221093-01	S507
SHEET ISSUE DATE	
02/27/2026	

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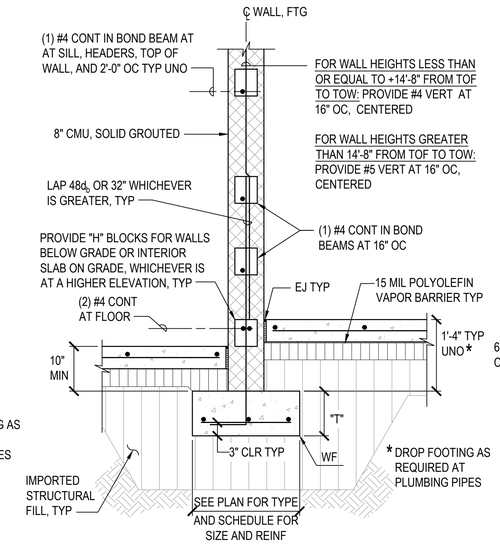
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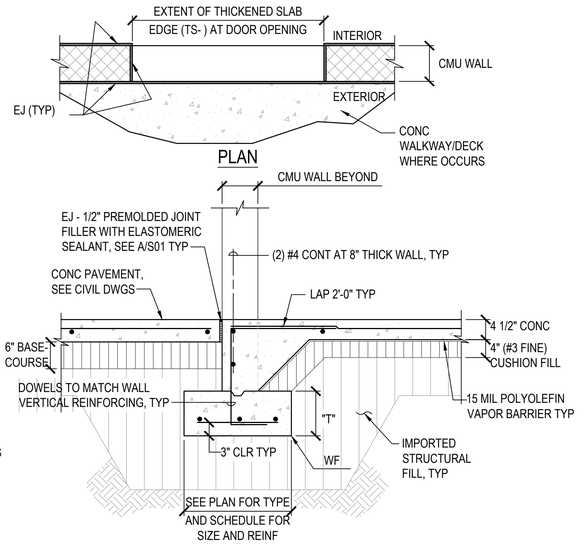
4 SECTION AT WINDOW
SCALE: 3/4" = 1'-0"



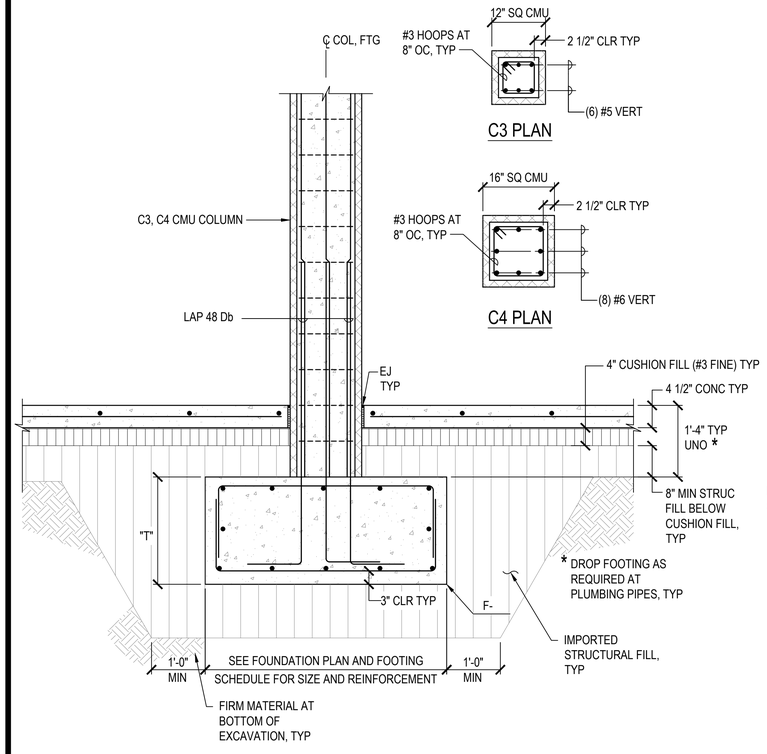
3 SECTION AT WINDOW
SCALE: 3/4" = 1'-0"



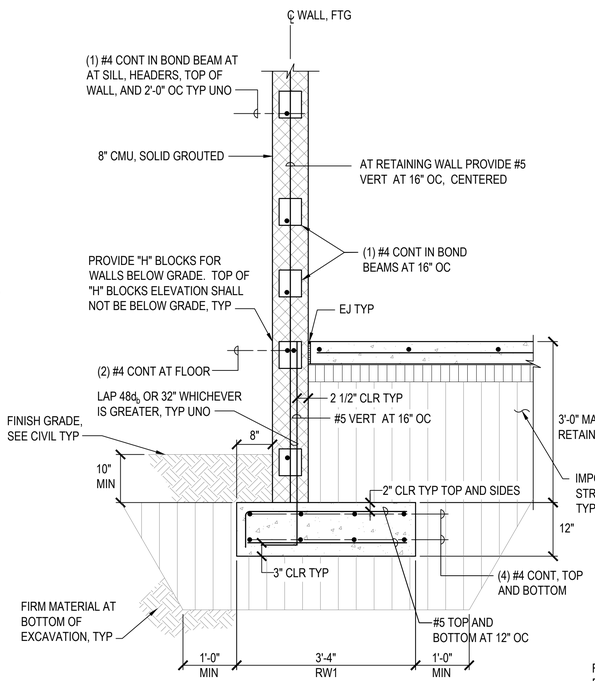
2 TYPICAL CMU WALL SECTION
SCALE: 3/4" = 1'-0"



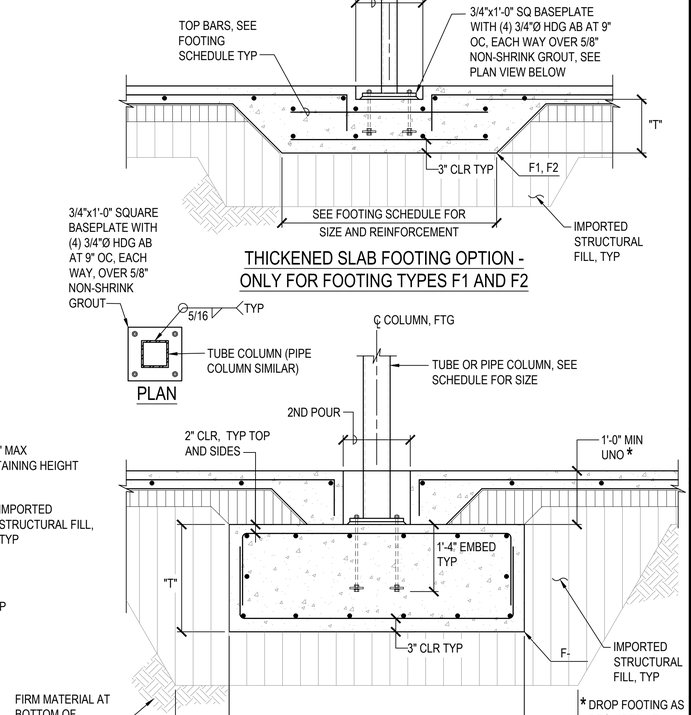
1 TYPICAL SECTION AT DOOR OPENING
SCALE: 3/4" = 1'-0"



7 CMU COLUMN AND FOOTING DETAIL
SCALE: 3/4" = 1'-0"



6 RETAINING WALL FOOTING DETAIL
SCALE: 3/4" = 1'-0"



5 SECTION AT INTERIOR STEEL TUBE OR PIPE COLUMNS
SCALE: 3/4" = 1'-0"

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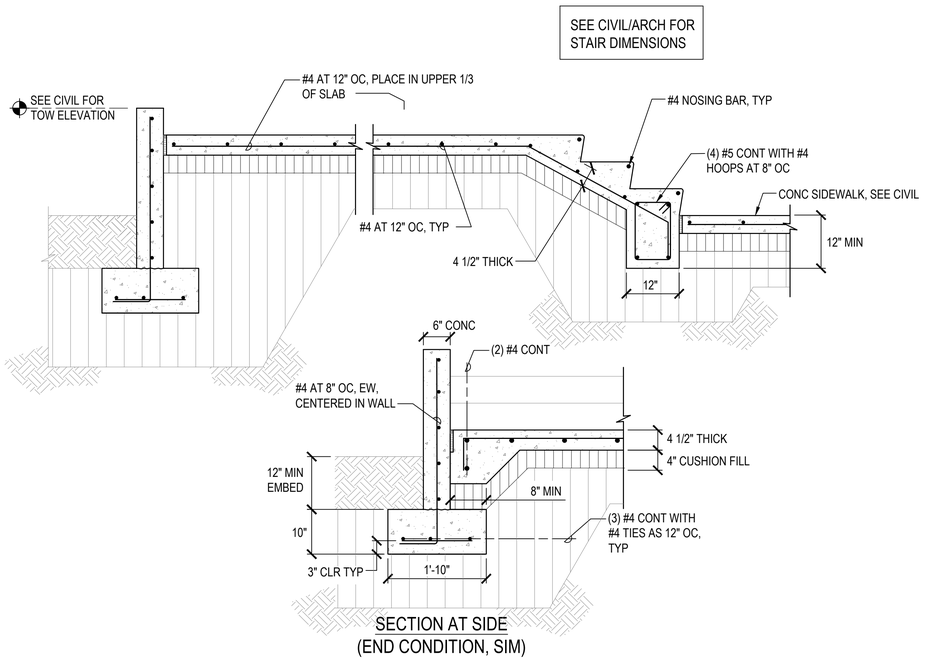
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SHEET NAME
FOUNDATION SECTIONS AND DETAILS

SCALE: As indicated

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BIN	BIN
PROJECT NO.	SHEET NO.
221093-01	S601
SHEET ISSUE DATE	
02/27/2026	

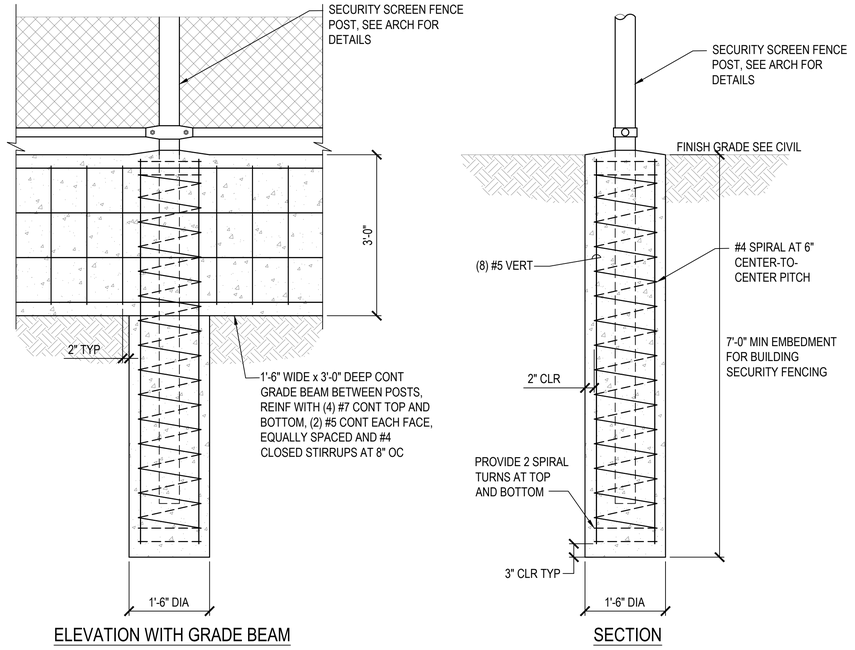
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SECTION AT SIDE
(END CONDITION, SIM)

2 EXTERIOR STAIRS

SCALE: 3/4" = 1'-0"

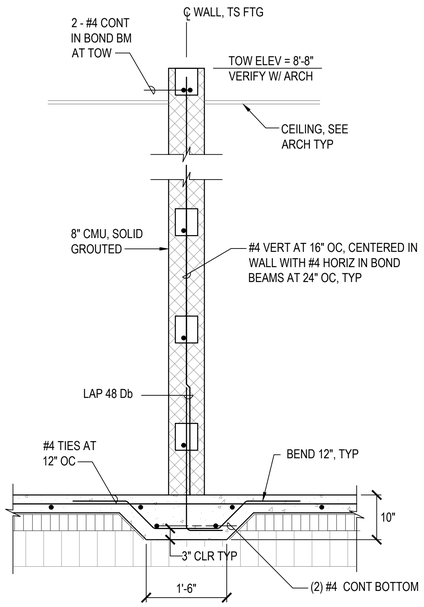


ELEVATION WITH GRADE BEAM

SECTION

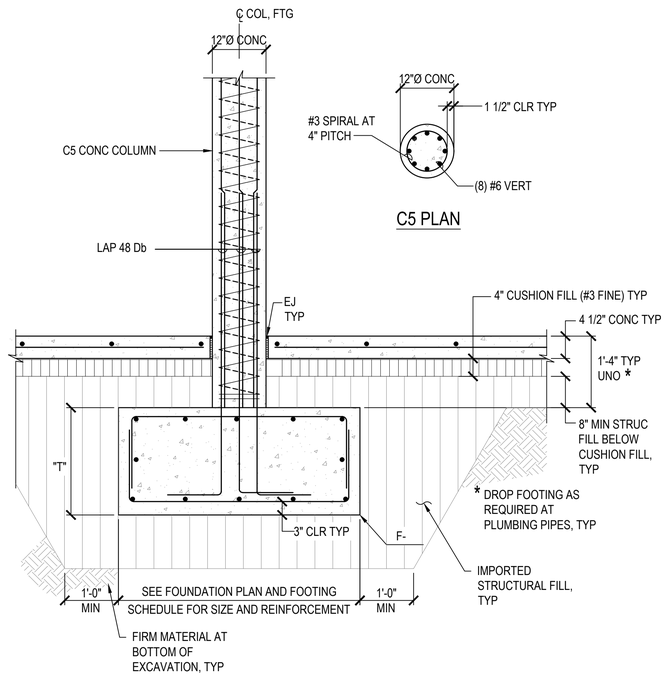
1 SECURITY FENCE POST FOOTING

SCALE: 3/4" = 1'-0"



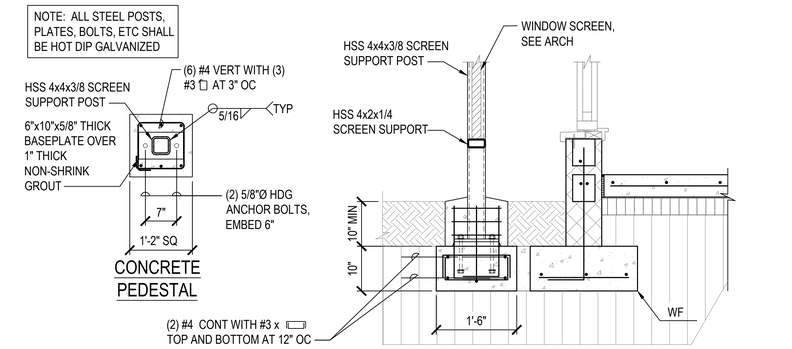
5 CMU WALL AT PLUMBING SHAFT

SCALE: 3/4" = 1'-0"



4 CONCRETE COLUMN AND FOOTING DETAIL

SCALE: 3/4" = 1'-0"



3 WINDOW SCREEN POST DETAIL

SCALE: 3/4" = 1'-0"

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APRIL 30, 2026
License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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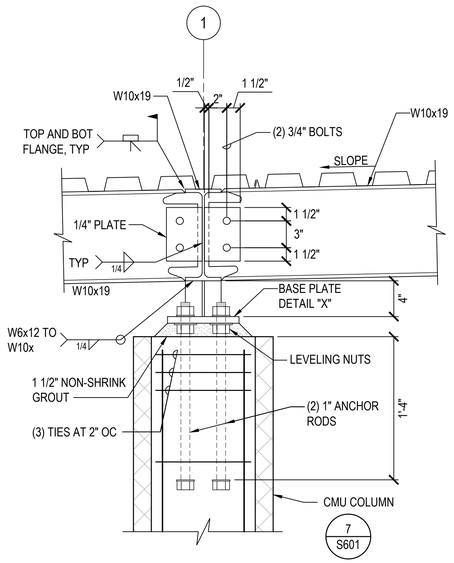
SHEET NAME
FOUNDATION SECTIONS AND DETAILS

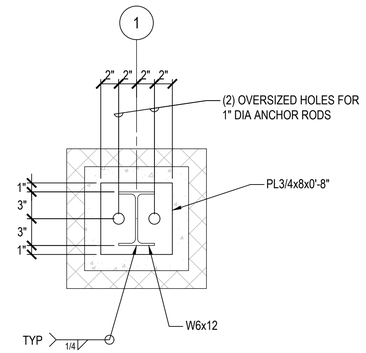
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PROJECT NO.	SHEET NO.
221093-01	S602
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02/27/2026	

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"X" BASE PLATE PLAN-SECTION

1 BEAM-TO-BEAM MOMENT CONNECTION & BEAM CONN TO CMU COL

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

0 6" 12" 18"

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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SHEET NAME
FRAMING SECTIONS AND DETAILS

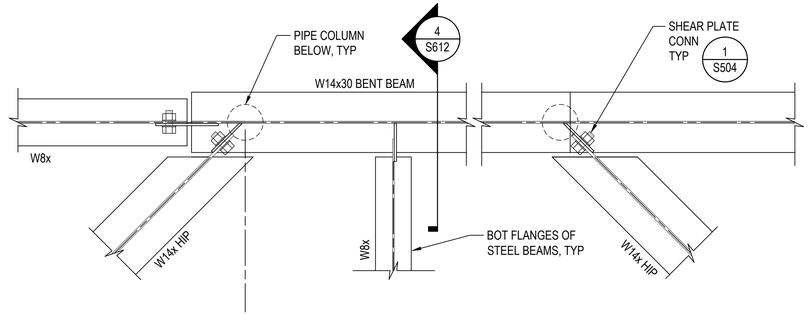
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BIN	BIN

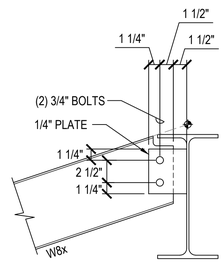
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221093-01	S611

SHEET ISSUE DATE
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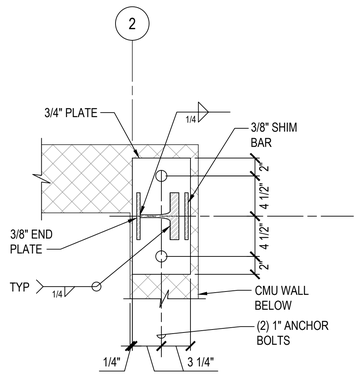
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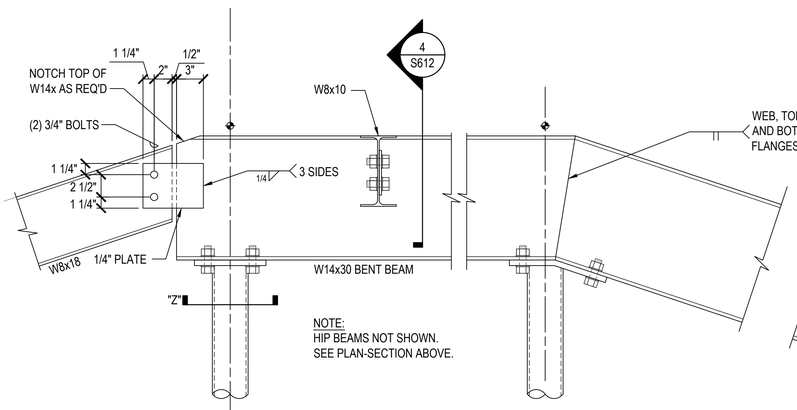
PLAN-SECTION

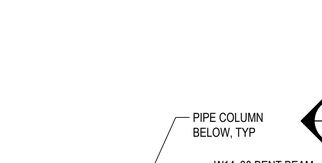


4 SECTION
SCALE: 1 1/2" = 1'-0" 0 6" 12" 18"

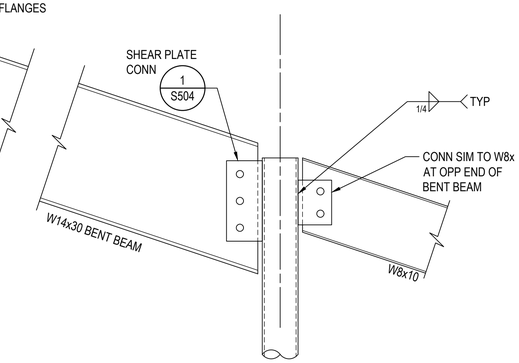


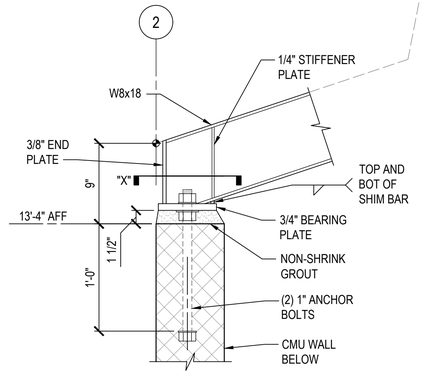
"X" PLAN-SECTION

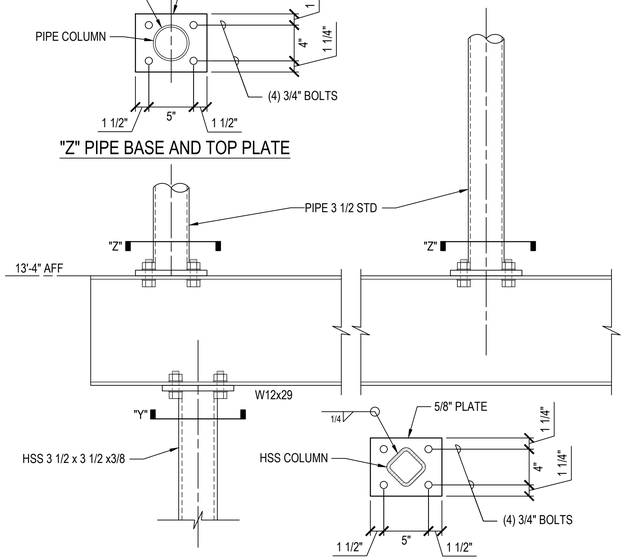




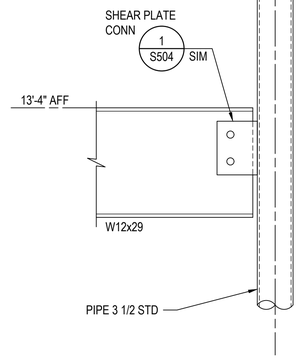
"Z" PIPE BASE AND TOP PLATE







"Y" HSS TOP PLATE



1 SECTION
SCALE: 1 1/2" = 1'-0" 0 6" 12" 18"

2 SECTION
SCALE: 1 1/2" = 1'-0" 0 6" 12" 18"

3 SECTION
SCALE: 1 1/2" = 1'-0" 0 6" 12" 18"

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
250802_S612.dwg

SHEET NAME
FRAMING SECTIONS AND DETAILS

SCALE: As indicated

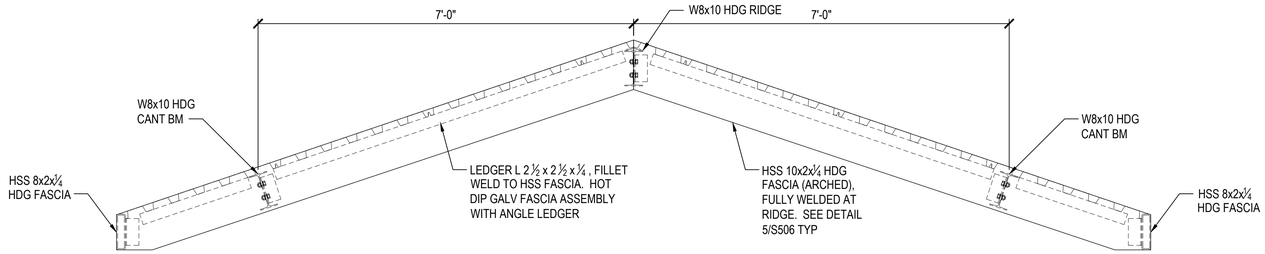
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PROJECT NO.	SHEET NO.
221093-01	S612
SHEET ISSUE DATE	
02/27/2026	

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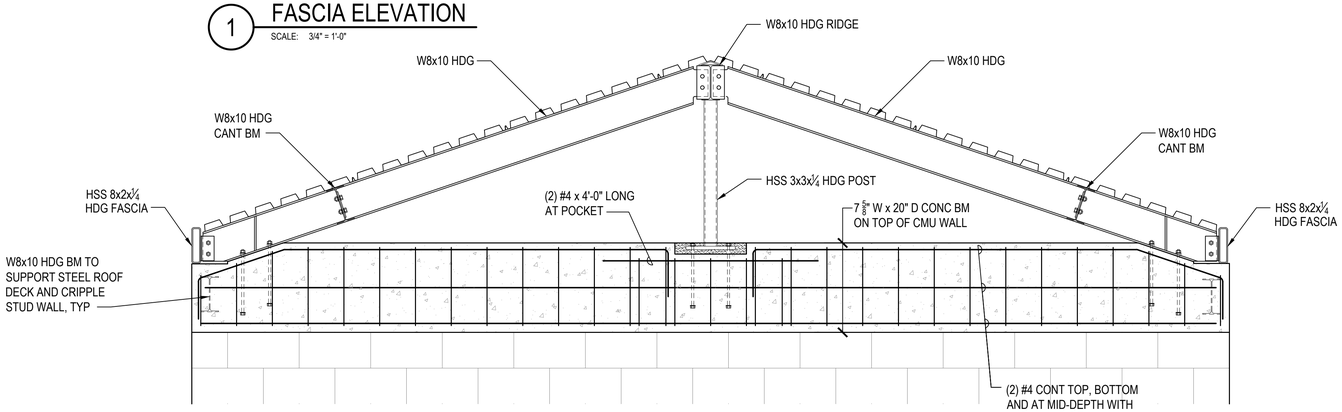
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CONCRETE ROOF BEAM SCHEDULE

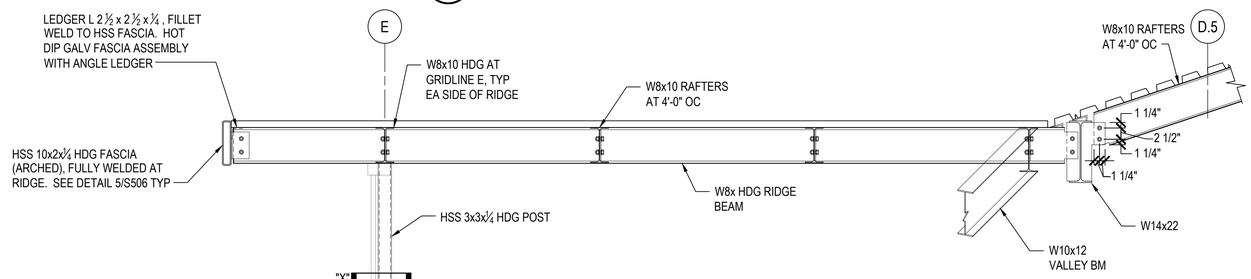
MARK	SIZE (WxD)	REINFORCING
RB1	16"x16"	(3) #6 CONT TOP AND BOTTOM, (2) #4 CONT AT MID-DEPTH WITH #4 STIRRUPS AT 6" OC THRUOUT
RB2	7 5/8"x16"	(2) #6 CONT TOP AND BOTTOM WITH #3 STIRRUPS AT 6" OC THRUOUT
RB3	7 5/8"x16"	(2) #6 CONT TOP AND BOTTOM WITH #3 STIRRUPS AT 6" OC THRUOUT



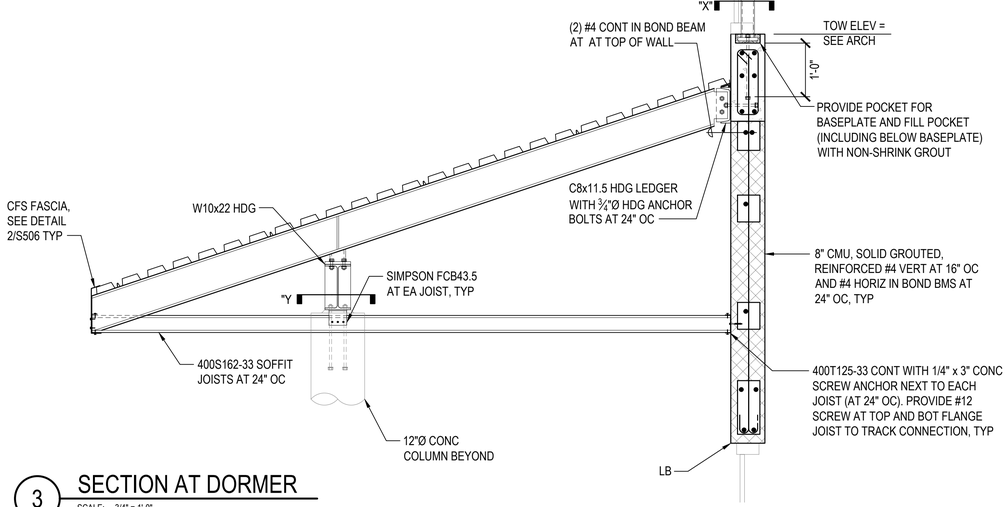
1 FASCIA ELEVATION
SCALE: 3/4" = 1'-0"



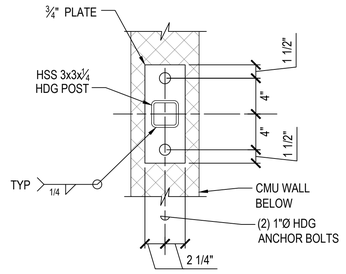
2 SECTION
SCALE: 3/4" = 1'-0"



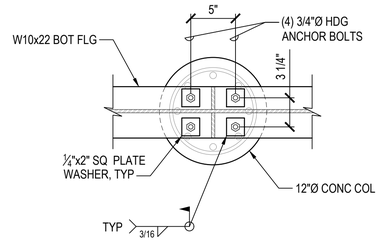
2



3 SECTION AT DORMER
SCALE: 3/4" = 1'-0"



"X" PLAN-SECTION



"Y" PLAN-SECTION

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
250802_S613.dwg

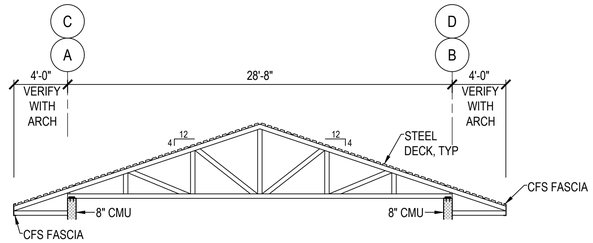
SHEET NAME
FRAMING SECTIONS AND DETAILS

SCALE: As indicated

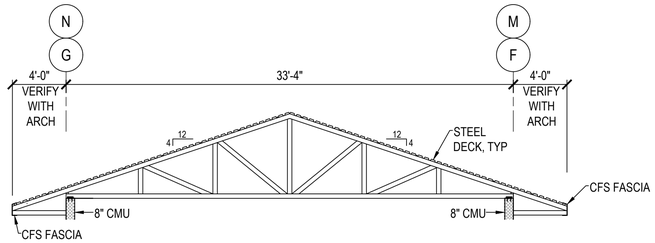
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PROJECT NO.	SHEET NO.
221093-01	S613
SHEET ISSUE DATE	
02/27/2026	

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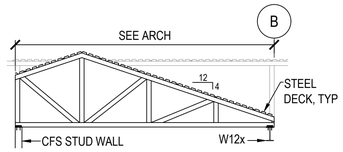
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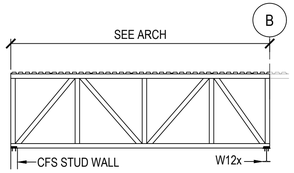
TRUSS T1



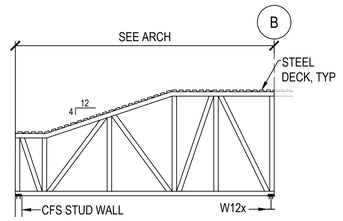
TRUSS T2



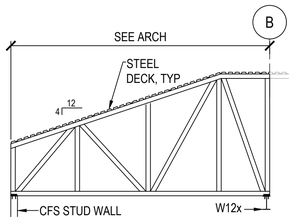
TRUSS T3



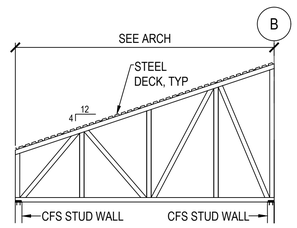
TRUSS T4



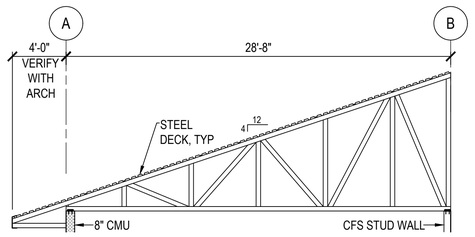
TRUSS T5



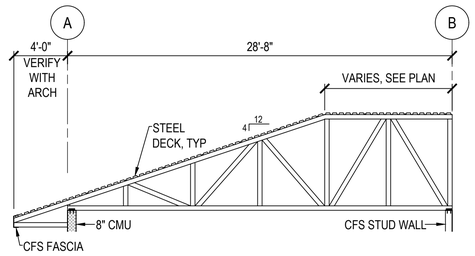
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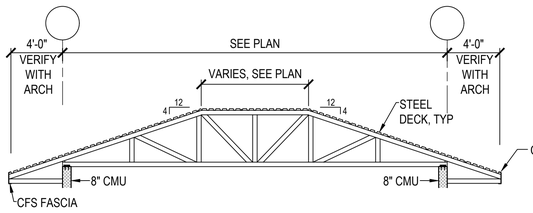
TRUSS T7



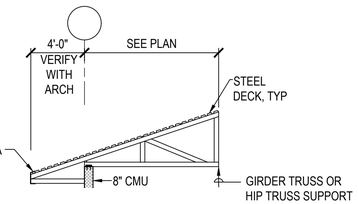
TRUSS T8



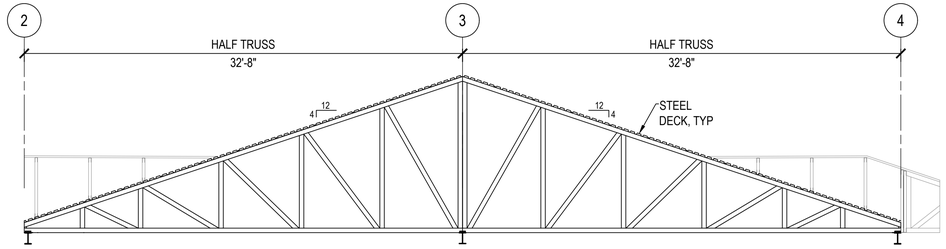
STEPDOWN TRUSS



GIRDER TRUSS GT



HIP TRUSS/JACK TRUSS



HALF TRUSS HT1

COLD-FORMED STEEL (CFS) TRUSSES:

1. COLD-FORMED STEEL TRUSSES ARE A DELEGATED DESIGN SYSTEM. COMPONENTS MAY BE STANDARD C-SHAPED MEMBERS OR PROPRIETARY SHAPES. PROVIDE COMPLETE ROOF TRUSS FRAMING DESIGN CONFORMING TO AISI S100 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS". DESIGN SHALL BE PERFORMED BY OR UNDER THE SUPERVISION OF A STRUCTURAL ENGINEER LICENSED IN THE STATE OF HAWAII.
2. ALL COMPONENTS OF THE CFS ROOF FRAMING SHALL BE COLD-FORMED FROM STEEL SHEETS CONFORMING TO ASTM A653, STRUCTURAL STEEL (SS) CLASSIFICATION, ZINC-COATED (GALVANIZED) WITH A MINIMUM G90 COATING. SHAPES, SIZES, THICKNESS AND MATERIAL CLASS (YIELD STRENGTH) AS REQUIRED TO SUIT DESIGN.
3. IN ADDITION TO THE WEIGHT OF THE CFS ROOF FRAMING, TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM SUPERIMPOSED LOADS:
   A. DEAD LOAD AT TOP CHORD 10 PSF
   B. LIVE LOAD AT TOP CHORD 20 PSF
   C. DEAD LOAD TO BOTTOM CHORD 10 PSF
   D. WIND LOADS: DESIGN PRESSURES DETERMINED USING THE WIND LOAD PROVISIONS OF ASCE 7-16 AND THE WIND DESIGN DATA IN THE "DESIGN CRITERIA" OF THE GENERAL NOTES ON S02. FOR LOAD COMBINATIONS INCLUDING NET UPLIFT WIND PRESSURES, REDUCE SUPERIMPOSED TOP CHORD DEAD LOAD TO 6 PSF AND SUPERIMPOSED DEAD LOAD AT THE BOTTOM CHORD TO 3 PSF BEFORE APPLYING THE LOAD FACTOR.
4. IN LIEU OF A RATIONAL ANALYSIS TO DEFINE JOINT FLEXIBILITY, THE FOLLOWING ANALYSIS MODEL ASSUMPTIONS SHALL BE USED:
   A. CHORD MEMBERS ARE CONTINUOUS, EXCEPT MEMBERS ARE ASSUMED TO HAVE PINNED CONNECTIONS AT THE HEEL, PITCH BREAKS, AND CHORD SPLICES.
   B. WEB MEMBERS ARE ASSUMED TO HAVE PINNED CONNECTIONS AT EACH END.
   C. ONLY ONE TRUSS SUPPORT SHALL BE MODELED AS A PINNED CONNECTION WITH LATERAL RESTRAINT IN THE PLANE OF THE TRUSS. ALL OTHER SUPPORTS SHALL BE MODELED AS ROLLER CONNECTIONS THAT ALLOW LATERAL TRANSLATION IN THE PLANE OF THE TRUSS.
5. ALLOWABLE TOTAL LOAD DEFLECTION SHALL BE SPAN/240, BUT SHALL NOT EXCEED 1 INCH. ALLOWABLE DEFLECTION DUE TO LIVE LOAD SHALL BE SPAN/360. ALLOWABLE DEFLECTION DUE TO WIND LOAD SHALL BE SPAN/360.
6. WEB CONFIGURATION SHALL ACCOMMODATE ROUTING OF MECHANICAL DUCTS AND MECHANICAL EQUIPMENT IN THE CEILING. TRUSS MANUFACTURER SHALL VERIFY MECHANICAL EQUIPMENT SIZE, WEIGHT AND LOCATION; AND DUCT SIZE AND LOCATION WITH MECHANICAL SHOP DRAWINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THIS TASK.
7. FOLLOW TRUSS LAYOUT PLAN(S) AS SHOWN ON THESES STRUCTURAL DRAWINGS.
8. TRUSS MANUFACTURER AND GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS RELATING TO TRUSSES.
9. SEE ARCHITECTURAL DRAWINGS FOR SLOPES OF TOP CHORDS.
10. THE BOTTOM CHORD OF TRUSSES WHICH ARE NOT ATTACHED DIRECTLY TO GYPSUM BOARD CEILING SHALL BE CONSIDERED UNBRACED IN THE MINOR AXIS OF THE BOTTOM CHORD. IN SUCH CASES THE TRUSS MANUFACTURER SHALL DESIGN, DETAIL AND PROVIDE THE NECESSARY BRACING OF THE BOTTOM CHORD FOR WIND UPLIFT CONDITIONS.
11. BLOCKING AT RIDGES, HIPS, VALLEYS AND AT ALL OTHER LOCATIONS NECESSARY TO PROPERLY SUPPORT THE STEEL ROOF DECK SHALL BE DETAILED AND PROVIDED AS A PART OF THE TRUSS ROOF FRAMING SYSTEM.
12. BUILT-UP FRAMING ON PREFABRICATED COLD FORM TRUSSES AND SECONDARY BRACING (AS REQUIRED) SHALL BE DESIGNED AND DETAILED BY COLD-FORMED STEEL TRUSS MANUFACTURER. BUILT-UP FRAMING SHALL BE CONNECTED TO UNDERLYING TRUSS FRAMING AS REQUIRED TO RESIST UPLIFT WIND FORCES.
13. IN NO CIRCUMSTANCES SHALL TRUSS MEMBERS BE CUT, DRILLED THRU, OR REMOVED AFTER INSTALLATION.
14. SUBMITTALS:
   A. LAYOUT PLANS FOR TRUSSES WITH PROPER DESIGNATIONS THAT IDENTIFY TRUSS ON LAYOUT PLAN WITH CALCULATIONS.
   B. FABRICATION AND ERECTION DRAWINGS SHOWING MEMBER LOCATION AND SIZE, CONNECTOR PLATES, PLATE DIMENSIONS, REQUIRED BRACING AND CAPACITIES.
   C. DESIGN CALCULATIONS, PREPARED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF HAWAII.

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APRIL 30, 2026
License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
250802_S701.dwg

SHEET NAME
ROOF TRUSS ELEVATIONS

SCALE: As indicated

DRAWN BY	CHECKED BY
BIN	BIN
PROJECT NO.	SHEET NO.
221093-01	S701
SHEET ISSUE DATE	
02/27/2026	

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GENERAL NOTES:

1. CONSTRUCTION DOCUMENTS CONSIST OF DESIGN DRAWINGS (DWG) AND WRITTEN SPECIFICATIONS (SPEC). WHEREVER DISCREPANCIES OR CONFLICTS ARE FOUND BETWEEN DWG AND SPEC, THE MORE STRINGENT REQUIREMENTS/CRITERIA SHALL GOVERN.
2. ALL WORK SHOWN ON THESE DRAWINGS ARE NEW UNLESS OTHERWISE NOTED.
3. PRIOR TO ORDERING MATERIALS AND PROCURING EQUIPMENT, SUCCESSFUL BIDDER (CONTRACTOR) SHALL BE REQUIRED TO VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO EQUIPMENT, MATERIALS, SIZES, DIMENSIONS, INVERTS, AND VOLTAGES THAT AFFECT HIS WORK. SUBMIT A LETTER TO THE ENGINEER CONFIRMING THAT THIS WAS DONE. IF WRITTEN CONFIRMATION IS NOT RECEIVED BY THE ENGINEER, SHOP DRAWINGS AND OTHER SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. SHOW ALL DISCREPANCIES ON SHOP DRAWINGS AND NOTIFY THE ENGINEER IN WRITING OF SUCH DISCREPANCIES PRIOR TO PROCUREMENT.
4. ALL UTILITIES AND APPURTENANCES SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION, AND IF DAMAGED, SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
5. THIS CONTRACT REQUIRES THE PLUMBING, FIRE PROTECTION, EMCS AND MECHANICAL SUBCONTRACTORS TO CAREFULLY COORDINATE THEIR WORK WITH EACH OTHER, THE GENERAL CONTRACTOR AND OTHER TRADES. PRIORITY SHALL BE GIVEN IN THE FOLLOWING ORDER:
   A. GRAVITY FLOW: SEWER, STORM DRAIN, DOWNSPOUT AND CONDENSATE DRAIN PIPING.
   B. EQUIPMENT AND DUCTWORK.
   C. FORCED AND PRESSURE PIPING SUCH AS WATER AND FIRE SPRINKLER PIPING.
6. CONTRACTOR SHALL PROVIDE DIELECTRIC UNIONS AT CONNECTION POINTS FOR PIPING OF DISSIMILAR METALS.
7. FOR ALL FLOOR, WALL PARTITION, CEILING AND ROOF PENETRATIONS, SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
8. ALL PENETRATIONS OF REQUIRED FIRE-RATED WALLS, PARTITIONS AND FLOORS SHALL BE PROVIDED WITH FIRE STOPPING MATERIAL PER CURRENTLY ENFORCED IBC.
9. NO CUTTING OR DRILLING OF ANY STRUCTURAL MEMBERS WILL BE PERMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. REFER TO STRUCTURAL DRAWING DETAILS FOR ALL MECHANICAL EQUIPMENT AND PIPING ATTACHMENTS TO STRUCTURAL MEMBERS.
10. ALL FASTENERS, SUPPORTS, PIPE HANGERS, SPRING ISOLATORS, AND MISCELLANEOUS STEEL ITEMS INCLUDING BUT NOT LIMITED TO BOLTS, NUTS, SCREWS, RODS, PLATES, AND ANGLES, ETC. SHALL BE GALVANIZED UNLESS OTHERWISE NOTED OR SPECIFIED.
11. PAINT ALL EXPOSED PIPING TO MATCH SURROUNDING COLOR. PROVIDE ESCUTCHEONS WHERE ALL EXPOSED PIPING PENETRATES FINISHED WALLS AND CEILINGS.
12. DEVICES THAT REQUIRE SERVICE CLEARANCE INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING: TRAP PRIMERS, VALVES, ETC. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS TO CAREFULLY PLAN AND COORDINATE THE WORK OF ALL TRADES TO PROVIDE THE REQUIRED SERVICE CLEARANCES FOR THESE DEVICES. PROVIDE ACCESS PANELS TO CONCEALED SPACES (WHETHER SHOWN ON THE PLANS OR NOT) TO ALLOW ACCESS. ACCESS PANELS NOT INDICATED ON DESIGN DRAWINGS THAT ARE REQUIRED TO BE ADDED IN THE FIELD SHALL BE SHOWN ON SHOP DRAWINGS FOR REVIEW. PROVIDE FIRE RATED ACCESS PANELS AS REQUIRED. COORDINATE TYPE OF ACCESS PANEL WITH WALL OR CEILING CONTRACTOR. DO NOT BLOCK ACCESS BY INSTALLING EQUIPMENT, DUCTWORK, SPRINKLERS, PIPING, CABLE TRAYS, CONDUITS, ETC., DIRECTLY BELOW SUCH DEVICES OR DIRECTLY ABOVE ACCESS PANELS. INSTALLATION SHALL PROVIDE SERVICE CLEARANCE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (BUT NOT LESS THAN 24") IN FRONT OF SUCH DEVICES. ACCESS PANELS SHALL BE 30"x30" MINIMUM UNLESS OTHERWISE NOTED.

PLUMBING NOTES:

1. PLUMBING CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND FIRE PROTECTION CONTRACTOR AND OFFSET PIPING TO FIT WORK FROM ALL DISCIPLINES IN SPACE AVAILABLE.
2. ALL HORIZONTAL SOIL, WASTE AND STORM DRAIN PIPING SHALL BE SLOPED AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
3. ALL PIPE INSULATION EXPOSED TO WEATHER OR EXPOSED WITHIN 7'-0" ABOVE FINISHED FLOOR SHALL BE PROVIDED WITH 0.016" THICK ALUMINUM JACKET.
4. WHEN VALVES ARE INSTALLED IN HORIZONTAL POSITION, VALVE STEM SHALL BE INSTALLED IN AN UPRIGHT POSITION. IF THIS IS NOT POSSIBLE BECAUSE OF SPACE AND HEADROOM CONSTRAINTS, VALVE STEM SHALL BE INSTALLED IN AN INCLINED POSITION ABOVE THE HORIZONTAL CENTERLINE OF THE PIPE.
5. ALL COPPER PIPES SHALL USE NON-CORROSIVE FLUX, NON-LEAD SOLDER.
6. SUPPORT HORIZONTAL LINES OF COPPER TUBING AND PLASTIC DWV WITH HANGERS SPACED NOT MORE THAN 6 FEET, CENTER TO CENTER FOR ALL PIPE SIZES. ALL PIPES SHALL BE SUPPORTED AT ELBOWS, BRANCHES AND RISERS.
7. SUPPORT HORIZONTAL CAST IRON SOIL PIPE WITH HANGER, OR PIER, TWO FOR EACH 5 FOOT PIPE LENGTH; LOCATE SUPPORT CLOSE TO JOINTS EXCEPT, PIPE EXCEEDING 5 FEET IN LENGTH SHALL BE SUPPORTED AT NO MORE THAN 5 FOOT INTERVALS. SUPPORTS SHALL BE LOCATED ON BOTH SIDES OF ALL JOINTS AND WITHIN 6" OF THE JOINT.

PLUMBING LEGEND:

	AD	AREA DRAIN
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AP	ACCESS PANEL
	BF	BOTTLE FILLER
	BV	BUTTERFLY VALVE
	CO	CLEANOUT
	CONN	CONNECT OR CONNECTION
	CONT	CONTINUATION
	COTG	CLEANOUT TO GRADE
	CV	CHECK VALVE
	CW	COLD WATER
	DN	DOWN
	DF	DRINKING FOUNTAIN
	DS	DOWNSPOUT
	EWC	ELECTRIC WATER COOLER
	(E)	EXISTING
	FCO	FLOOR CLEANOUT
	FD	FLOOR DRAIN
	FFD	FUNNEL FLOOR DRAIN
	FS	FLOOR SINK
	FSS	FLOOR SERVICE SINK
	FU	FIXTURE UNIT
	GV	GATE VALVE
	HB	HOSE BIBB
	HW	HOT WATER
	HWR	HOT WATER RETURN
	HWRP	HOT WATER RETURN PUMP
0.00	INV	INVERT ELEVATION
	LAV	LAVATORY
	MS	MOP SINK
	PC OR GC	PLUG COCK, OR GAS COCK
	POC	POINT OF CONNECTION
	P REL V	PRESSURE RELIEF VALVE
D	REL D	RELIEF DRAIN
	S OR W	SOIL OR WASTE
SD	SD	STORM DRAIN
	SK	SINK
	S/S	STAINLESS STEEL
	T & PRV	TEMPERATURE & PRESSURE RELIEF VALVE
	TERM	TERMINATE
	TMV	THERMOSTATIC MIXING VALVE
	UR	URINAL
	V	VENT
	VB	VACUUM BREAKER
	VTR	VENT THRU ROOF
	WB	WASHER BOX
	WC	WATER CLOSET
	WCO	WALL CLEANOUT
	WH	WATER HEATER
	WHA	WATER HAMMER ARRESTOR

MEH CORP
MECHANICAL ENGINEERS OF HAWAII CORP.
50 S. BERETANIA STREET, SUITE C-208A
HONOLULU HAWAII 96813-2222
PHONE: 521-8981 FACSIMILE: 536-5457

REVISIONS

#	Date	Description

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_PLUMBING AND FIRE_CENTRAL.rvt

SHEET NAME
GENERAL NOTES, PLUMBING NOTES, AND PLUMBING LEGEND

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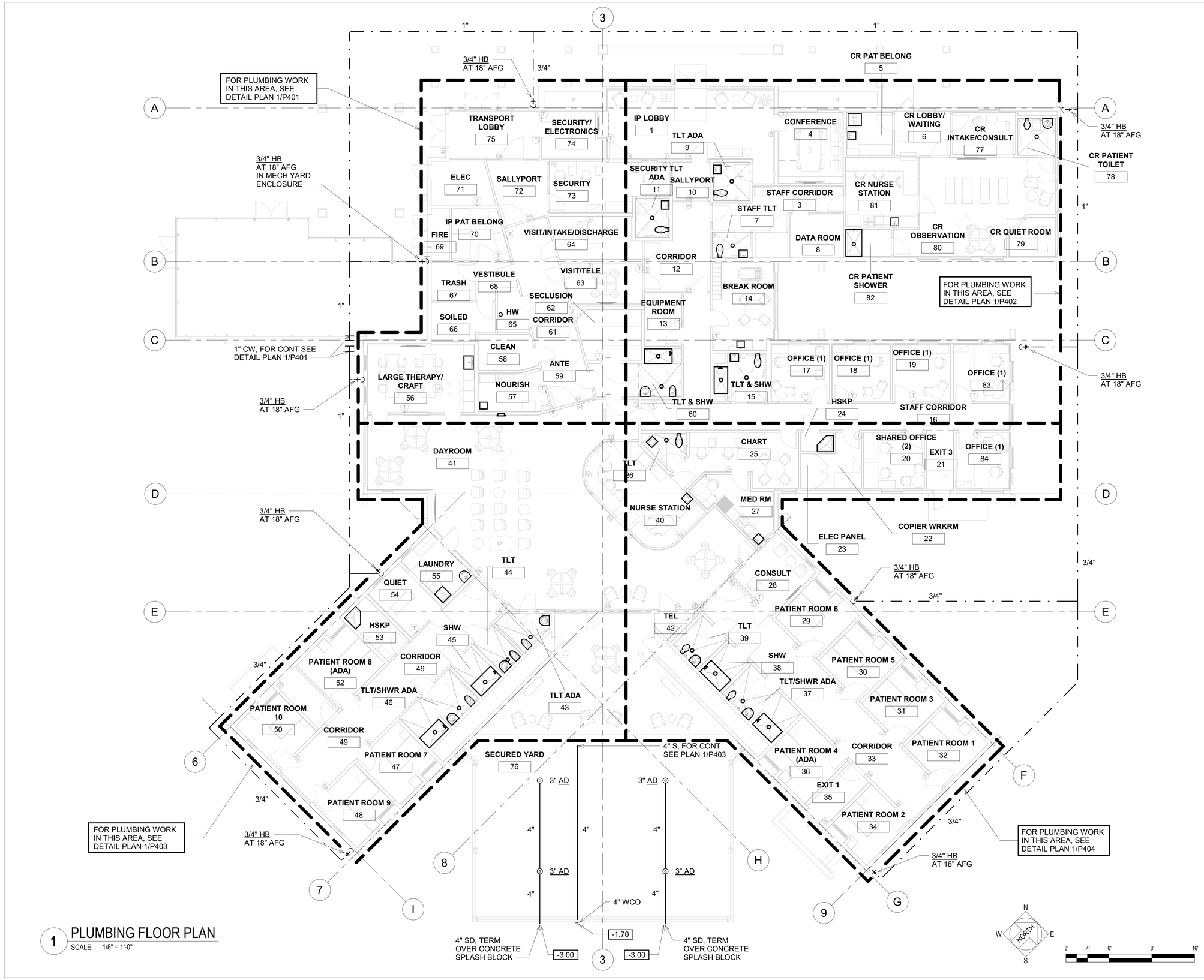
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KY/ML	KC

PROJECT NO.
221093-01

SHEET ISSUE DATE
02/27/2026

SHEET NO.
P001

3/3/2026 8:30:50 AM



1 PLUMBING FLOOR PLAN
SCALE: 1/8" = 1'-0"

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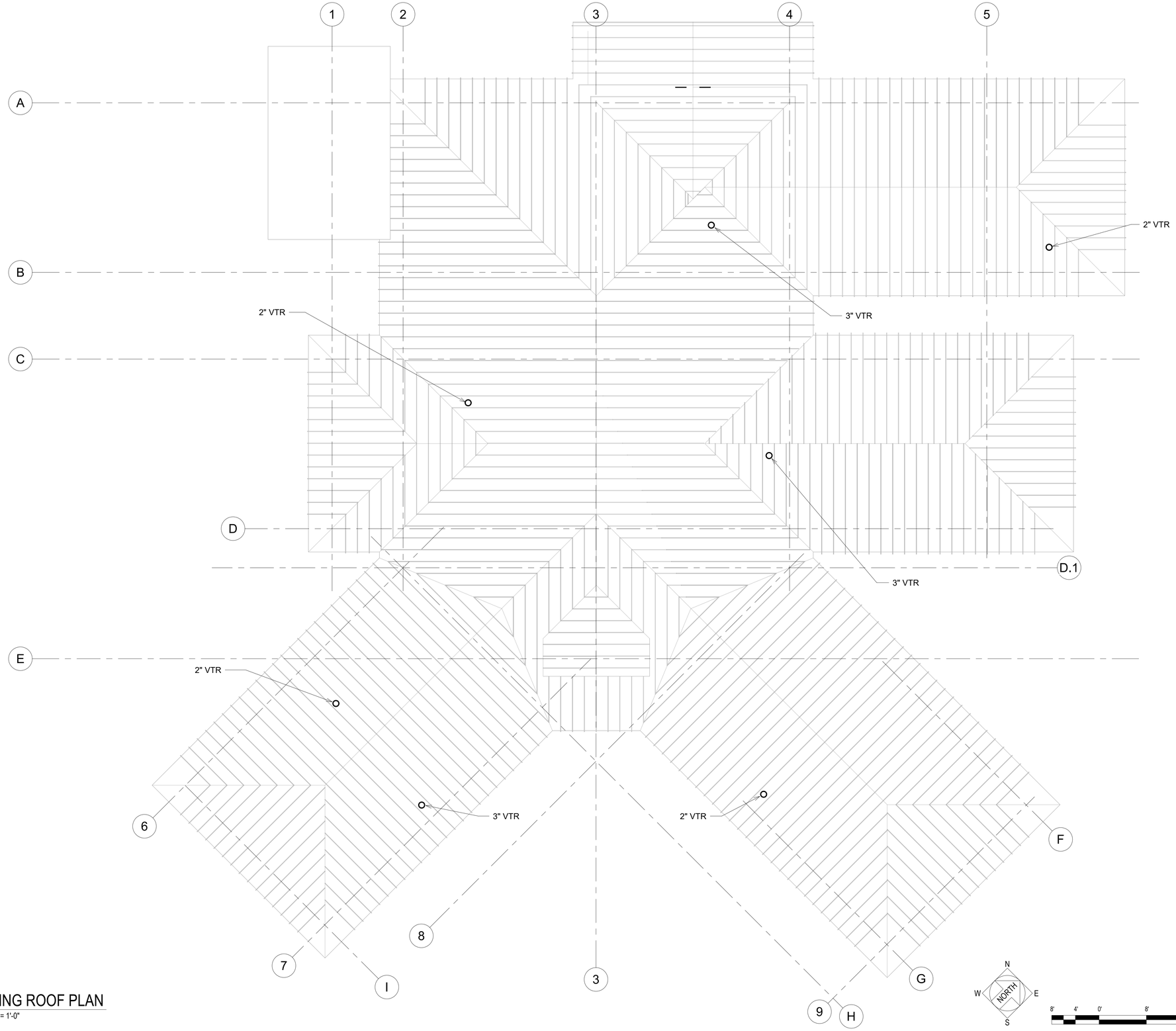
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_PLUMBING AND FIRE_CENTRAL.rvt

SHEET NAME
PLUMBING FLOOR PLAN

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

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PROJECT NO. 221093-01	SHEET NO. P101
SHEET ISSUE DATE 02/27/2026	

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1 PLUMBING ROOF PLAN
SCALE: 1/8" = 1'-0"

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TMK#: 4-6-014:113

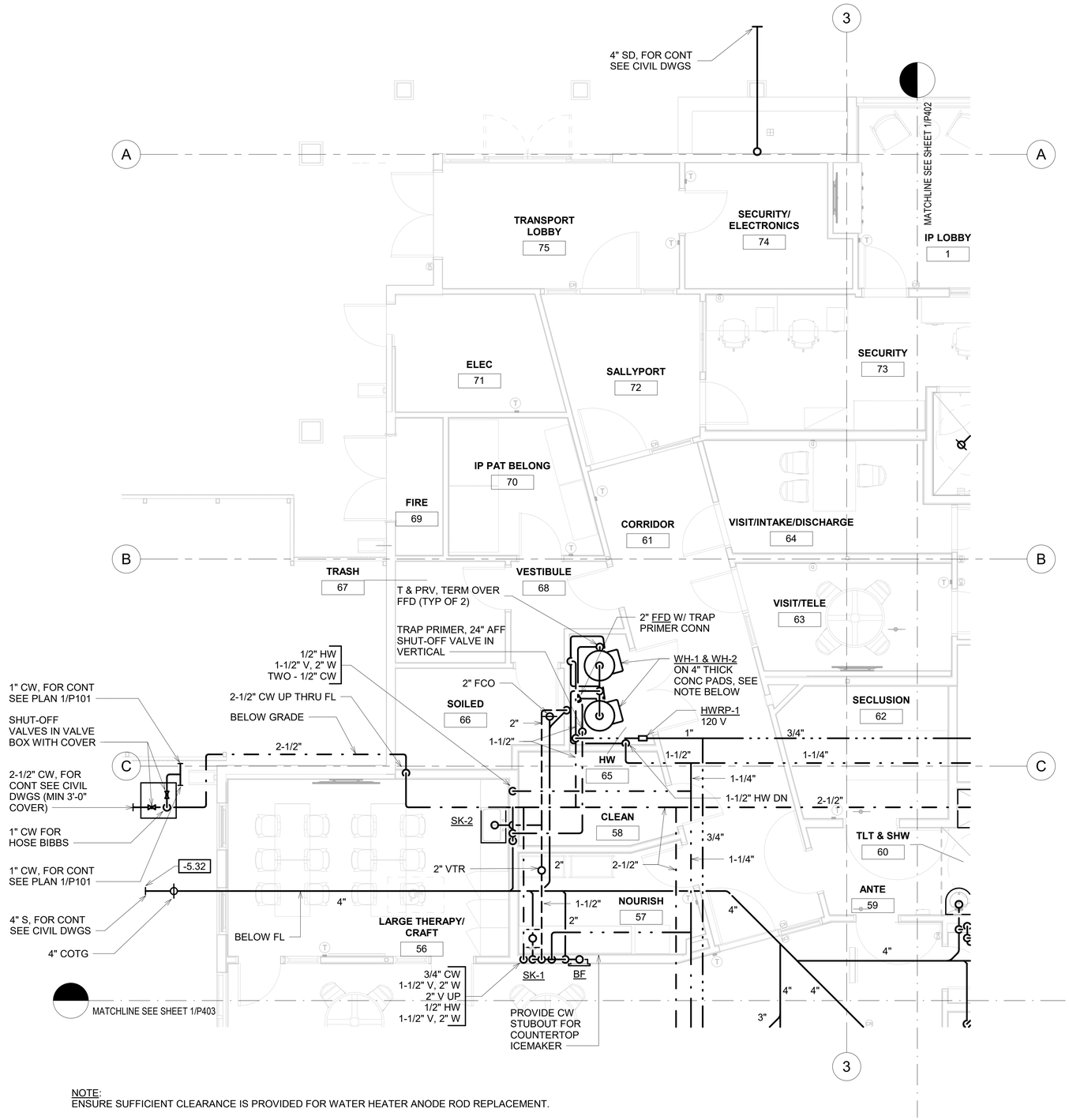
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_PLUMBING AND FIRE_CENTRAL.rvt

SHEET NAME
PLUMBING ROOF PLAN

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

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PROJECT NO.	SHEET NO.
221093-01	**P102**
SHEET ISSUE DATE	
02/27/2026	

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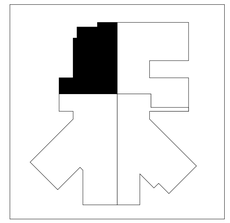


NOTE:
ENSURE SUFFICIENT CLEARANCE IS PROVIDED FOR WATER HEATER ANODE ROD REPLACEMENT.

1 PLUMBING DETAIL FLOOR PLAN - STAFF WING NW

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

KEY PLAN







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SHEET NAME
PLUMBING DETAIL FLOOR PLAN - STAFF WING NW

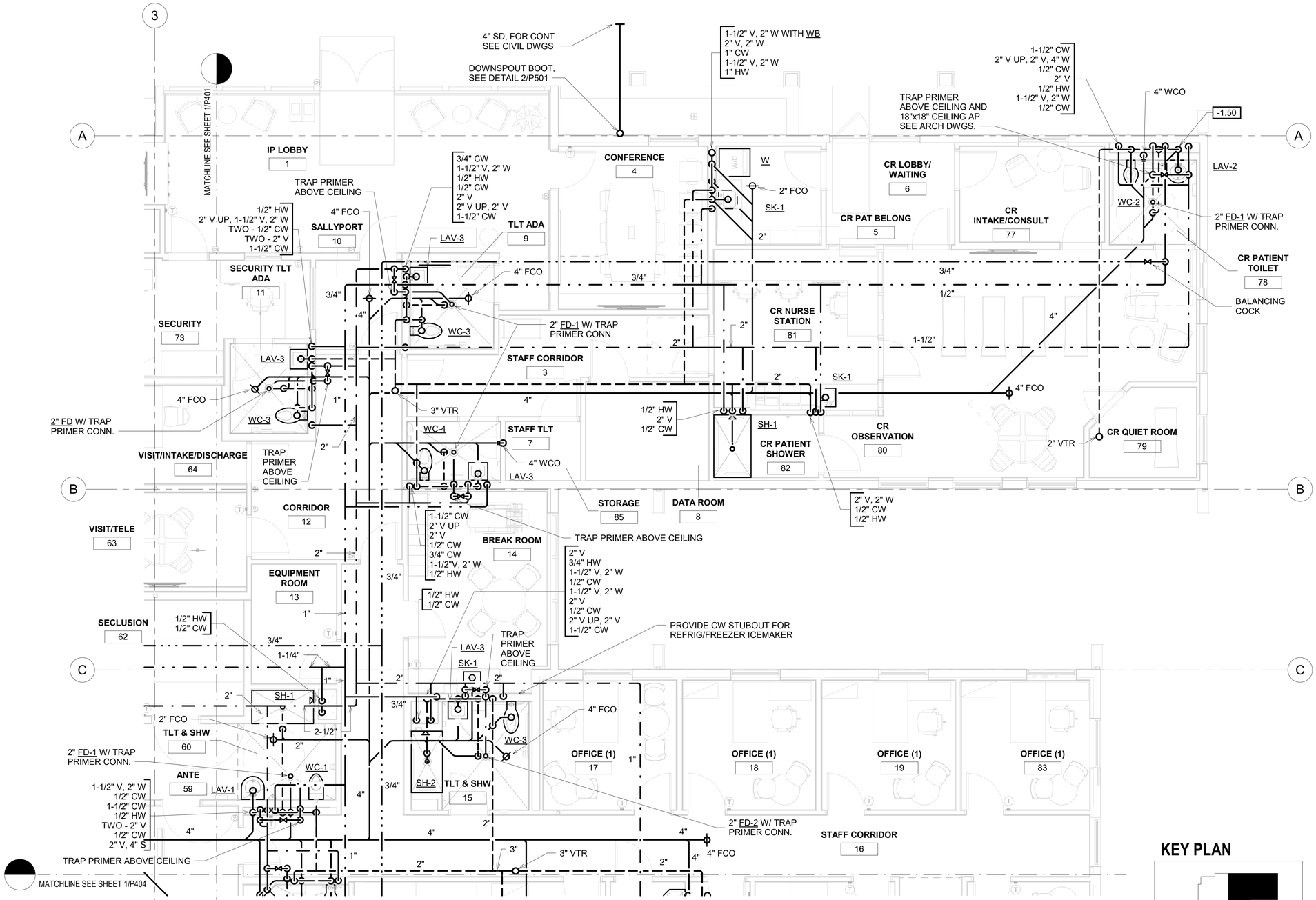
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PROJECT NO.	SHEET NO.
221093-01	P401

SHEET ISSUE DATE
02/27/2026

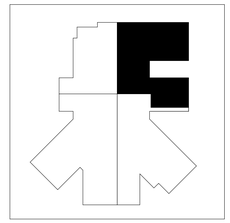
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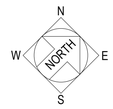


1 PLUMBING DETAIL FLOOR PLAN - STAFF WING NE

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

KEY PLAN







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FILENAME
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SHEET NAME
PLUMBING DETAIL FLOOR PLAN - STAFF WING NE

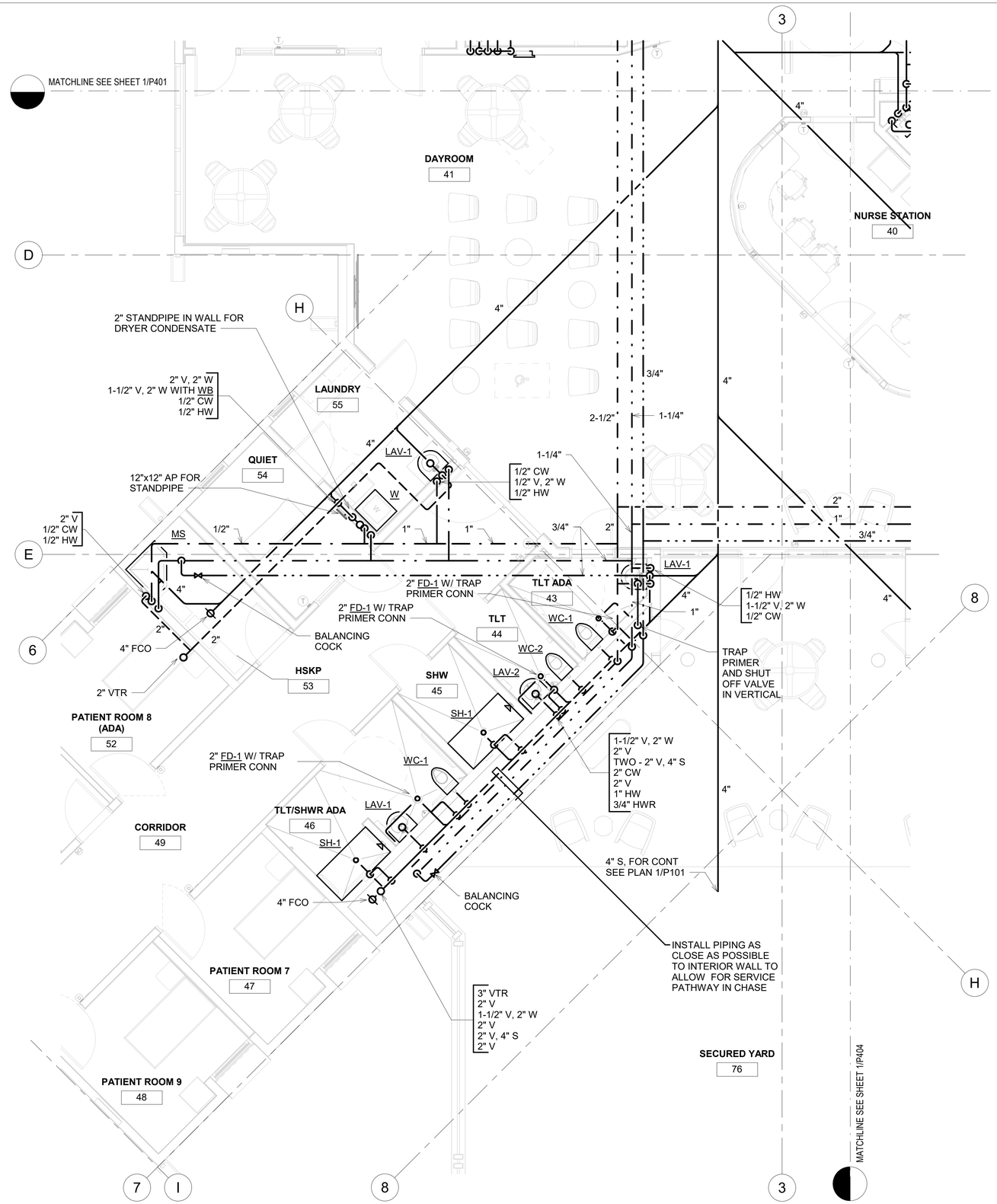
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PROJECT NO.	SHEET NO.
221093-01	**P402**

SHEET ISSUE DATE
02/27/2026

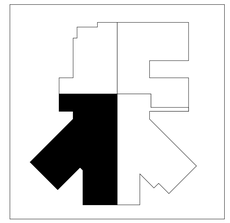
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1 PLUMBING DETAIL FLOOR PLAN - PATIENT WING SW

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

KEY PLAN



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TMK#: 4-6-014:113

FILENAME
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SHEET NAME
PLUMBING DETAIL FLOOR PLAN - PATIENT WING SW

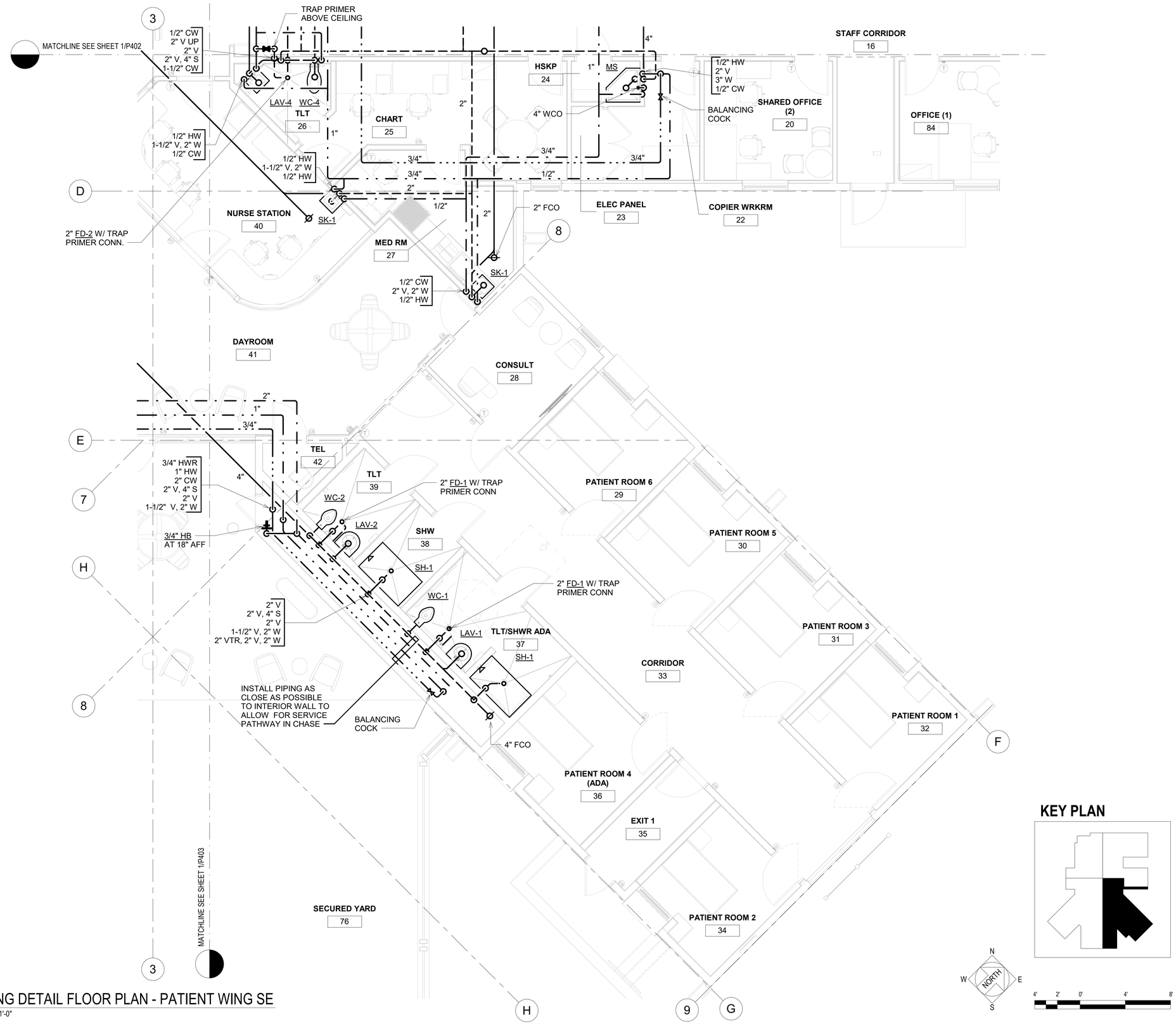
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PROJECT NO.	SHEET NO.
221093-01	P403

SHEET ISSUE DATE
02/27/2026

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1 PLUMBING DETAIL FLOOR PLAN - PATIENT WING SE

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

KEY PLAN

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SHEET NAME
PLUMBING DETAIL FLOOR PLAN - PATIENT WING SE

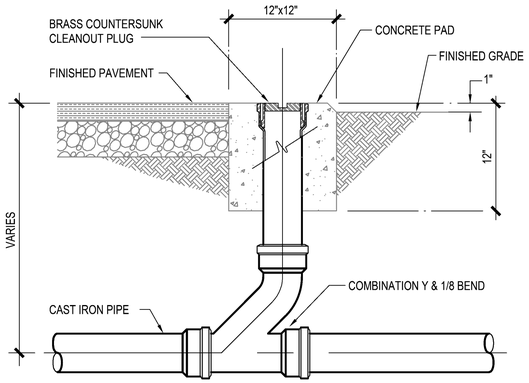
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221093-01	P404

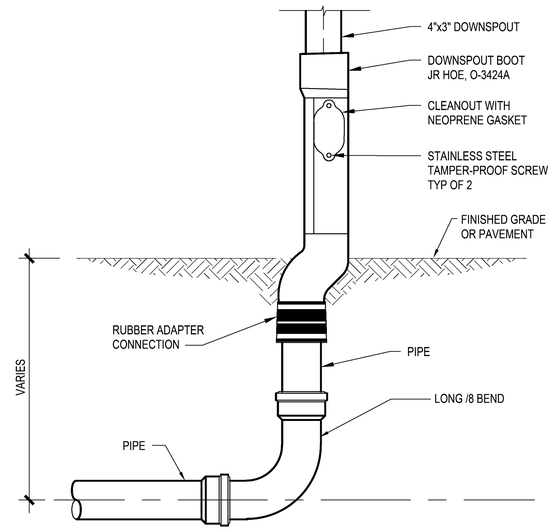
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02/27/2026

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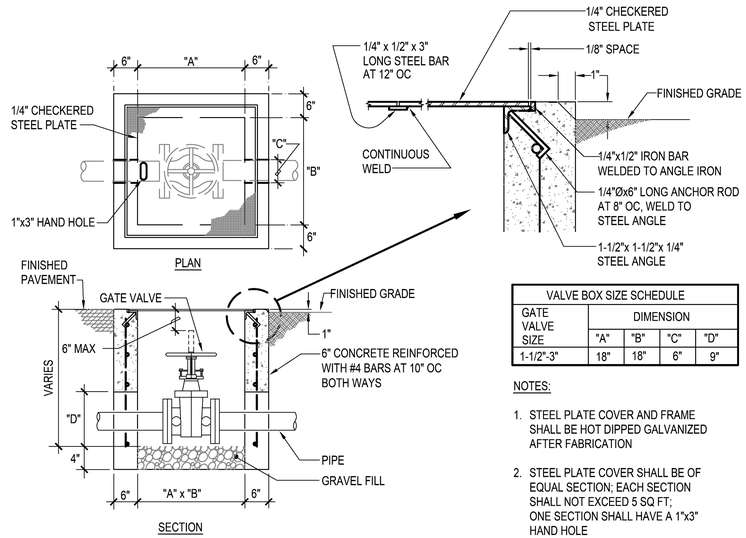
1 CLEANOUT TO GRADE DETAIL

NOT TO SCALE (NON-VEHICULAR TRAFFIC AREAS ONLY)



2 TYPICAL DOWNSPOUT CONNECTION DETAIL

NOT TO SCALE



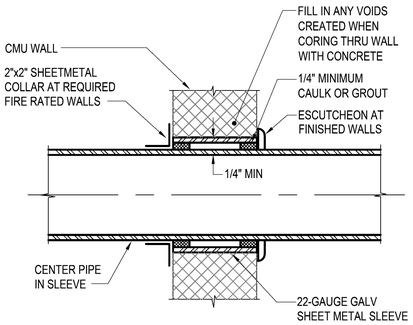
VALVE BOX SIZE SCHEDULE				
GATE VALVE SIZE	DIMENSION			
	"A"	"B"	"C"	"D"
1-1/2"-3"	18"	18"	6"	9"

NOTES:

1. STEEL PLATE COVER AND FRAME SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION
2. STEEL PLATE COVER SHALL BE OF EQUAL SECTION; EACH SECTION SHALL NOT EXCEED 5 SQ FT; ONE SECTION SHALL HAVE A 1"x3" HAND HOLE

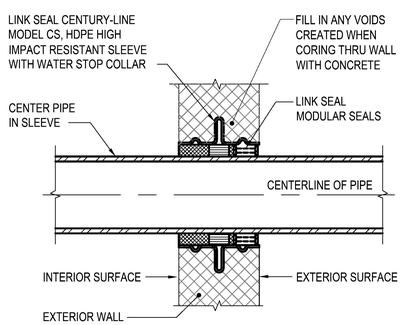
3 TYPICAL VALVE BOX DETAIL

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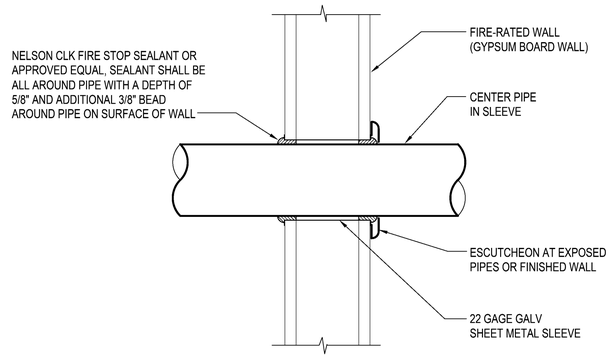
4 PIPE THRU INTERIOR CMU WALL DETAIL

NOT TO SCALE



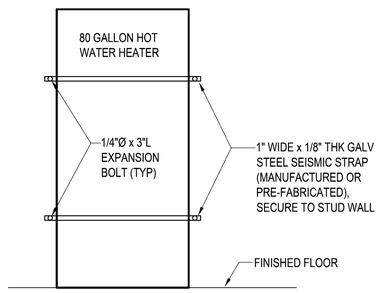
5 PIPE THRU EXTERIOR AND GRADE CMU WALL DETAIL

NOT TO SCALE



6 PIPE THRU FIRE-RATED WALL DETAIL

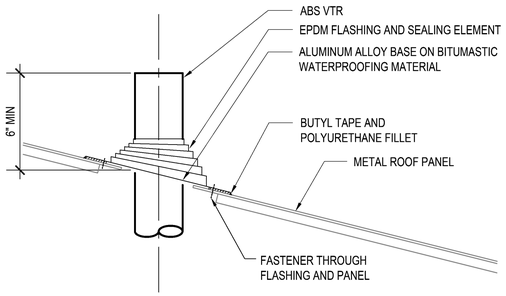
NOT TO SCALE



NOTE:
STRAPS SHALL NOT INTERFERE WITH WATER HEATER ELEMENT ACCESS.

7 HOT WATER HEATER SEISMIC RESTRAINT DETAIL

NOT TO SCALE



8 VENT THRU ROOF DETAIL

NOT TO SCALE

MEH CORP
MECHANICAL ENGINEERS OF HAWAII CORP.
50 S. BERETANIA STREET, SUITE C-208A
HONOLULU HAWAII 96813-2222
PHONE: 521-8981 FACSIMILE: 536-5457

REVISIONS

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

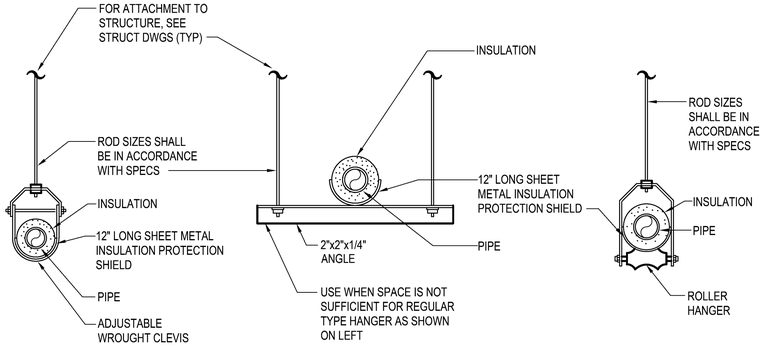
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DETAILS

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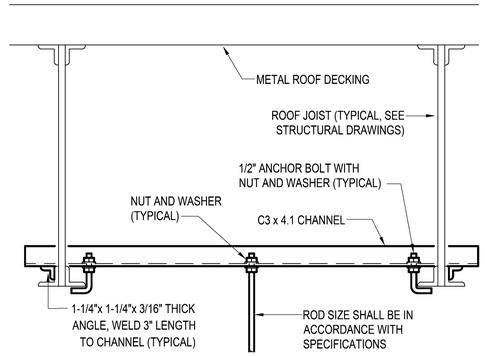
2" AND SMALLER PIPES

2-1/2" AND LARGER PIPES

NOTE:
18" LONG RIGID INSULATION SHALL BE USED AT HANGERS.

1 PIPE HANGER DETAIL

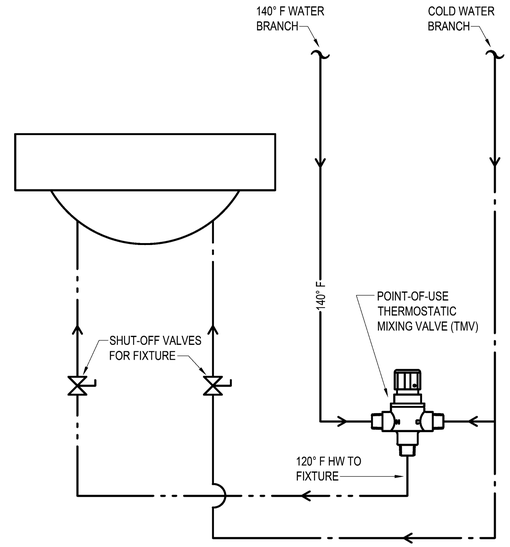
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NOTES:
1. ALL STEEL ANGLES, CHANNELS, HANGERS, ETC SHALL BE GALVANIZED UNLESS OTHERWISE NOTED.
2. USE GALVANIZED PAINT TO TOUCH UP ALL STEEL MEMBERS WHERE FACTORY GALVANIZED COATING HAS BEEN DAMAGED OR REMOVED. WELDED JOINTS SHALL ALSO BE TOUCHED UP WITH GALVANIZED PAINT.
3. SHEETMETAL DUCT HANGER ATTACHMENT SIMILAR.

2 HANGER ATTACHMENT DETAIL

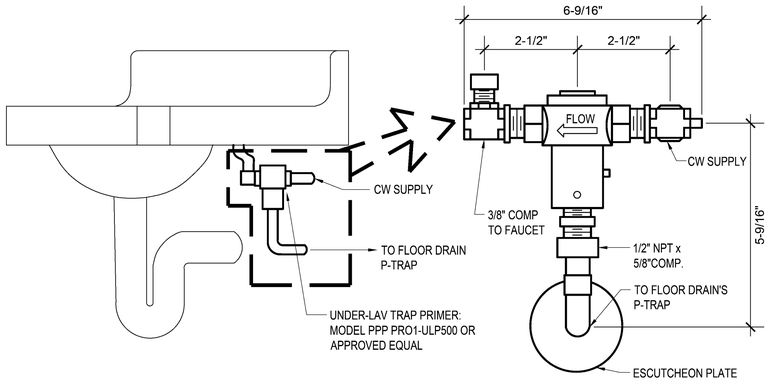
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NOTE:
SET OUTLET AT 120°F (TYP FOR ALL FIXTURES WITH HOT WATER)

3 POINT-OF-USE THERMOSTATIC MIXING VALVE DETAIL

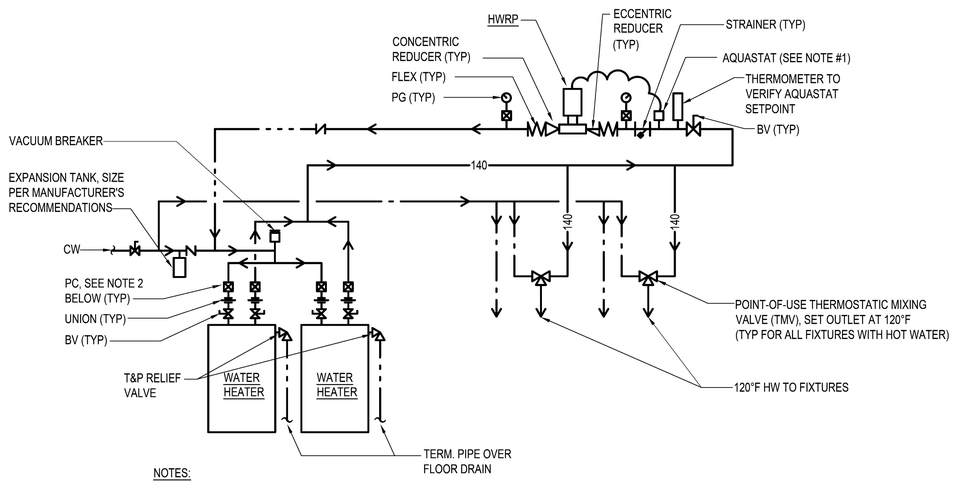
NOT TO SCALE



NOTE:
UNDER-LAV TRAP PRIMER VALVE ASSEMBLY SHALL BE CHROME PLATED AND INSTALLED PER MANUFACTURER'S RECOMMENDATION. THE VALVE ASSEMBLY SHALL BE INSTALLED A MINIMUM OF 12" ABOVE FINISHED FLOOR.

4 UNDER-LAV TRAP PRIMER VALVE ASSEMBLY DETAIL

NOT TO SCALE



NOTES:
1. AQUASTAT SHALL CONTROL HWCP AS FOLLOWS:
   A. ENERGIZE PUMP WHEN WATER TEMPERATURE IS 110°F.
   B. DE-ENERGIZE PUMP WHEN WATER TEMPERATURE IS 120°F OR HIGHER.
2. ADJUST PLUG COCKS ON WATER HEATERS TO ACHIEVE EQUAL FLOW FROM EACH WATER HEATER.

5 SCHEMATIC HOT WATER SYSTEM PIPING DIAGRAM

NOT TO SCALE

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TMK#: 4-6-014:113

FILENAME
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DETAILS

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PLUMBING FIXTURE LOCAL CONNECTION SCHEDULE

FIXTURE	SYMBOL	WASTE [1]	VENT [1]	COLD WATER	HOT WATER	MAXIMUM CONSUMPTION [2]	REMARKS
WATER CLOSET, LIGATURE RESISTANT, ACCESSIBLE	WC-1	4"	2"	1"	-	1.28	FLOOR MOUNTED, FLUSH VALVE, LIGATURE RESISTANT, REAR WASTE OUTLET, ACCESSIBLE [3]
WATER CLOSET, LIGATURE RESISTANT	WC-2	4"	2"	1"	-	1.28	FLOOR MOUNTED, FLUSH VALVE, LIGATURE RESISTANT, REAR WASTE OUTLET
WATER CLOSET, ACCESSIBLE	WC-3	4"	2"	1"	-	1.28	FLOOR MOUNTED, FLUSH VALVE, ACCESSIBLE [3]
WATER CLOSET	WC-4	4"	2"	1"	-	1.28	FLOOR MOUNTED, FLUSH VALVE
LAVATORY, LIGATURE RESISTANT, ACCESSIBLE	LAV-1	1-1/2"	1-1/2"	1/2"	1/2"	0.5	WALL HUNG, LIGATURE RESISTANT, ACCESSIBLE [3, 4]
LAVATORY, LIGATURE RESISTANT	LAV-2	1-1/2"	1-1/2"	1/2"	1/2"	0.5	WALL HUNG, LIGATURE RESISTANT
LAVATORY, ACCESSIBLE	LAV-3	1-1/2"	1-1/2"	1/2"	1/2"	0.5	WALL HUNG, WITH METERING FAUCET, ACCESSIBLE [3, 4]
LAVATORY	LAV-4	1-1/2"	1-1/2"	1/2"	1/2"	0.5	WALL HUNG, WITH METERING FAUCET
SHOWER, LIGATURE RESISTANT, ACCESSIBLE	SH-1	2"	1-1/2"	1/2"	1/2"	2.5	LIGATURE RESISTANT, ACCESSIBLE [3]
SHOWER, ACCESSIBLE	SH-2	2"	1-1/2"	1/2"	1/2"	2.5	ACCESSIBLE [3]
SINK	SK-1	2"	1-1/2"	1/2"	1/2"	2.2	UNDERMOUNT, STAINLESS STEEL, SINGLE COMPARTMENT
SINK, ACCESSIBLE	SK-2	2"	1-1/2"	1/2"	1/2"	2.2	UNDERMOUNT, STAINLESS STEEL, SINGLE COMPARTMENT, ACCESSIBLE [3, 4]
MOP SINK	MS	3"	2"	1/2"	-	-	FLOOR MOUNTED
BOTTLE FILLER	BF	2"	1-1/2"	1/2"	-	-	WALL RECESSED
CLOTHES WASHER	W	2"	1-1/2"	1/2"	1/2"	-	
HOSE BIBB	HB	-	-	3/4"	-	-	WITH VACUUM BREAKER
FLOOR DRAIN	FD-1	*	1-1/2"	-	-	-	LIGATURE RESISTANT * SIZE AS INDICATED ON PLAN
FLOOR DRAIN	FD-2	*	1-1/2"	-	-	-	* SIZE AS INDICATED ON PLAN
FUNNEL FLOOR DRAIN	FFD	*	1-1/2"	-	-	-	* SIZE AS INDICATED ON PLAN
AREA DRAIN	AD	4"	-	-	-	-	WITH ADA FLAT STRAINER

NOTES:
1. ALL UNDERGROUND SOIL, WASTE AND VENT PIPE SIZE SHALL BE 2" MINIMUM.
2. WATER CLOSET AND URINAL WATER CONSUMPTION IS IN GALLONS PER FLUSH, ALL OTHERS FIXTURES ARE IN GALLONS PER MINUTE FLOW RATE.
3. SEE ARCHITECTURAL DRAWING FOR REGULAR AND ACCESSIBLE FIXTURE HEIGHTS AND LOCATION.
4. ACCESSIBLE LAVATORIES AND SINKS EXPOSED WASTE AND WATER PIPING BELOW COUNTER AND ABOVE FINISHED FLOOR SHALL BE INSULATED.

WATER HEATER SCHEDULE

UNIT NO	MANUFACTURER AND MODEL	LOCATION	SERVICE	RECOVERY @ 70 °F RISE GPH	ELECT INPUT KW	VOLTS	ϕ	STORAGE CAPACITY GALLONS	OPR WT POUNDS	REMARKS
WH-1	AO SMITH DRE-80-12	HOT WATER HEATER ROOM	DOMESTIC HOT WATER	72	12.3	208	3	80	948	(3) 4.1 KW ELEMENTS. TANK SETPOINT @ 140°F. WH-2 SIMILAR

PUMP SCHEDULE

UNIT NO	MANUFACTURER AND MODEL	LOCATION	SERVICE	TYPE	GPM	TOTAL DYNAMIC HEAD (FT)	SUCT SIZE (INCHES)	DISCH SIZE (INCHES)	MIN EFF PERCENT	ELECTRICAL			OPR WT (LBS)	REMARKS
										WATTS	VOLTS	ϕ		
HWRP-1	GRUNDFOS UP 15-29 SF OR APPROVED EQUAL	HOT WATER HEATER ROOM	HOT WATER CIRCULATION	INLINE CENTRIFUGAL	5	5	1	1	9.6	87	115	1	10	BRONZE BODY, COMPOSITE IMPELLER, 225° F OPERATING TEMPERATURE, CONTROLLED BY AQUASTAT.

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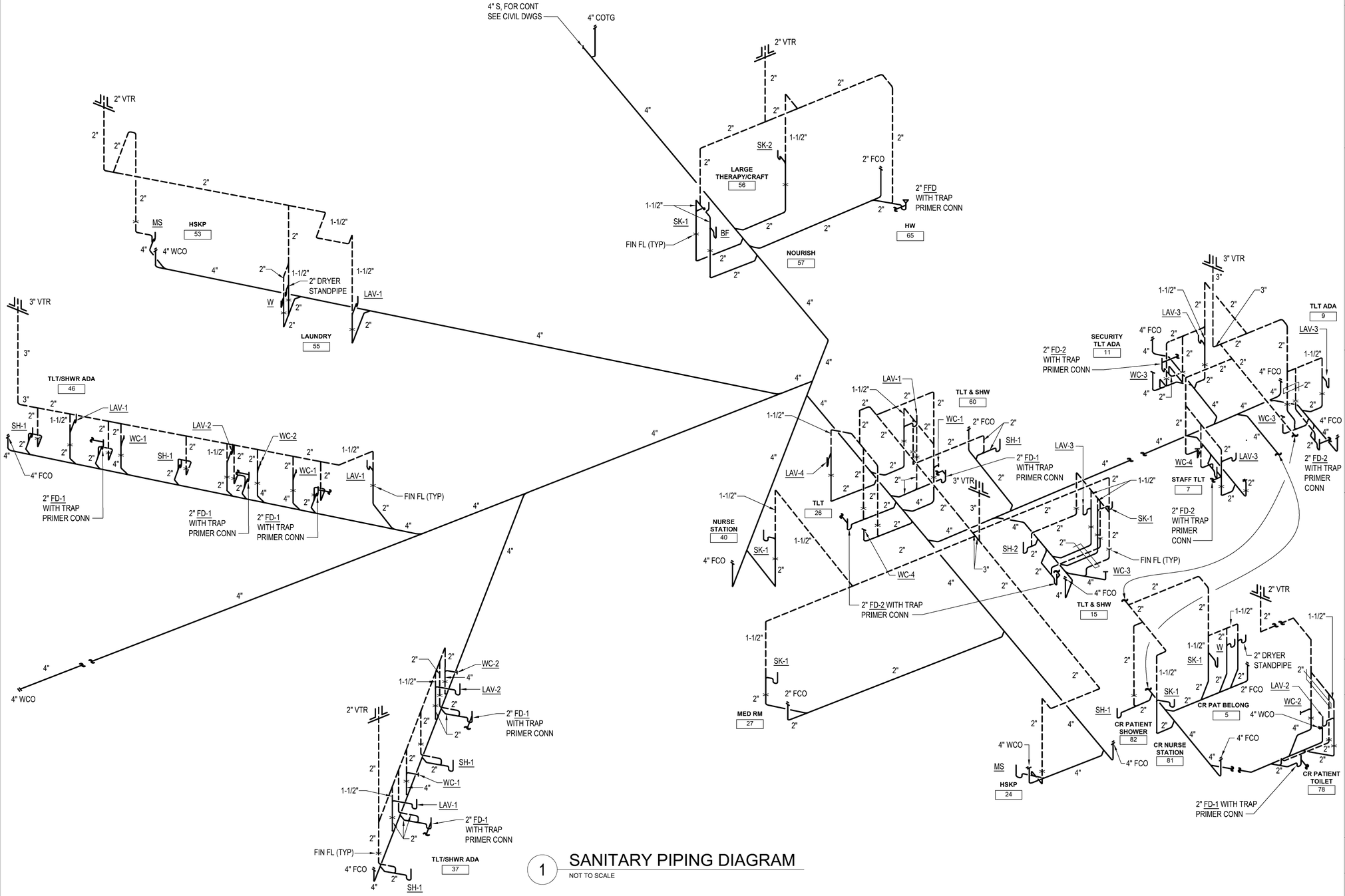
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SHEET NAME
PLUMBING EQUIPMENT SCHEDULES

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1 SANITARY PIPING DIAGRAM

NOT TO SCALE

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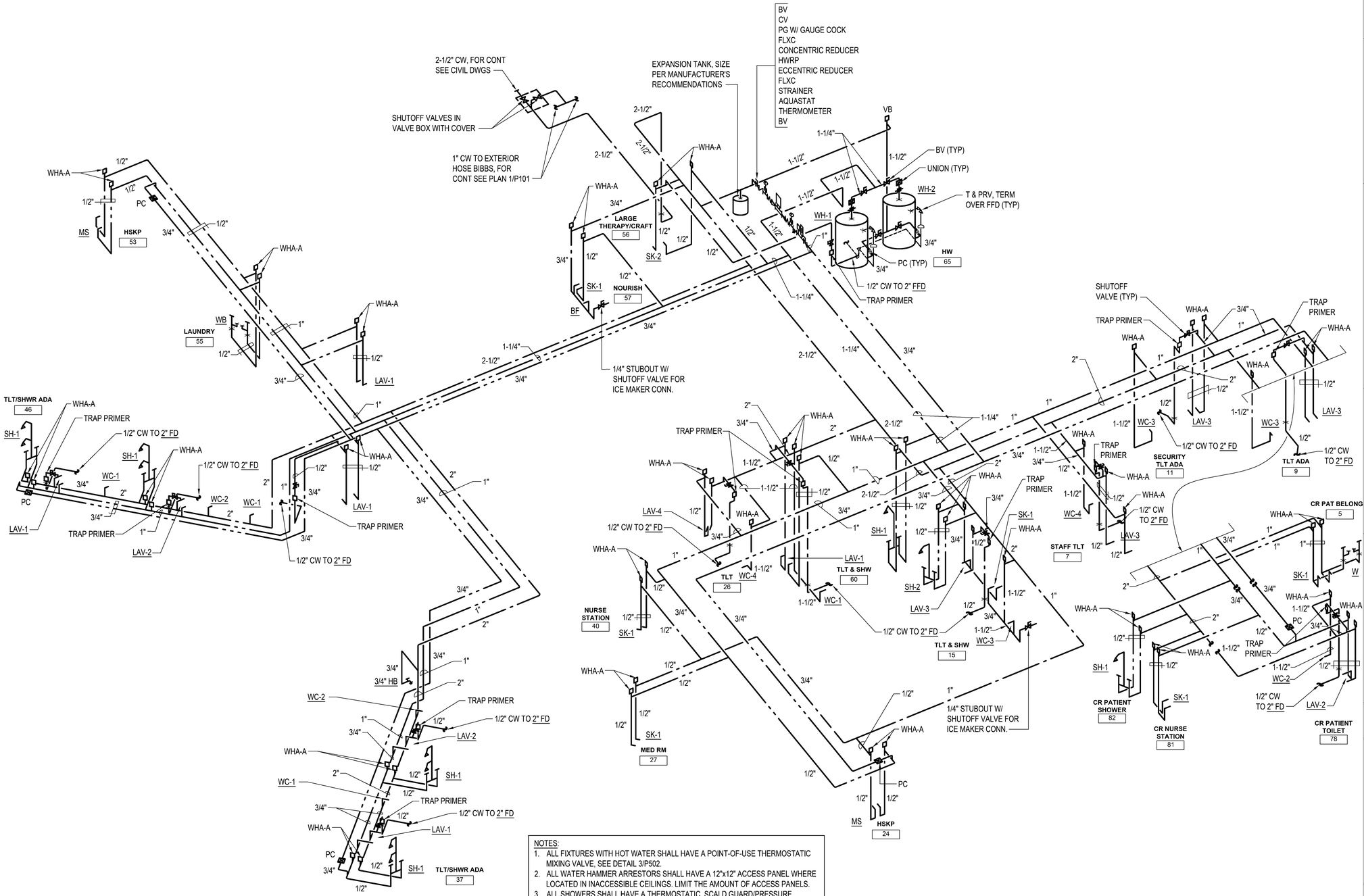
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SHEET NAME
SANITARY PIPING DIAGRAM

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NOTES:
1. ALL FIXTURES WITH HOT WATER SHALL HAVE A POINT-OF-USE THERMOSTATIC MIXING VALVE, SEE DETAIL 3/P502.
2. ALL WATER HAMMER ARRESTORS SHALL HAVE A 12"x12" ACCESS PANEL WHERE LOCATED IN INACCESSIBLE CEILINGS. LIMIT THE AMOUNT OF ACCESS PANELS.
3. ALL SHOWERS SHALL HAVE A THERMOSTATIC, SCALD GUARD/PRESSURE BALANCED MIXING VALVE.

1 WATER PIPING DIAGRAM
NOT TO SCALE

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SHEET NAME
WATER PIPING DIAGRAM

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GENERAL NOTES:

1. CONSTRUCTION DOCUMENTS CONSIST OF DESIGN DRAWINGS (DWG) AND WRITTEN SPECIFICATIONS (SPEC). WHEREVER DISCREPANCIES OR CONFLICTS ARE FOUND BETWEEN DWG AND SPEC, THE MORE STRINGENT REQUIREMENTS/CRITERIA SHALL GOVERN.

2. PRIOR TO ORDERING MATERIALS AND PROCURING EQUIPMENT, SUCCESSFUL BIDDER (CONTRACTOR) SHALL BE REQUIRED TO VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO EQUIPMENT, MATERIALS, SIZES, DIMENSIONS, INVERTS, AND VOLTAGES THAT AFFECT HIS WORK. SUBMIT A LETTER TO THE ENGINEER CONFIRMING THAT THIS WAS DONE. IF WRITTEN CONFIRMATION IS NOT RECEIVED BY THE ENGINEER, SHOP DRAWINGS AND OTHER SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. SHOW ALL DISCREPANCIES ON SHOP DRAWINGS AND NOTIFY THE ENGINEER IN WRITING OF SUCH DISCREPANCIES PRIOR TO PROCUREMENT.

3. ALL UTILITIES AND APPURTENANCES SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION, AND IF DAMAGED, SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

4. THE ENTIRE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE LATEST ADOPTED BUILDING, PLUMBING, ELECTRICAL CODES, AND STATE OF HAWAII AND THE COUNTY OF KAUAI REQUIREMENTS

5. THIS CONTRACT REQUIRES THE PLUMBING, FIRE PROTECTION, EMCS AND MECHANICAL SUBCONTRACTORS TO CAREFULLY COORDINATE THEIR WORK WITH EACH OTHER, THE GENERAL CONTRACTOR AND OTHER TRADES. PRIORITY SHALL BE GIVEN IN THE FOLLOWING ORDER:
   A. GRAVITY FLOW: SEWER, STORM DRAIN, DOWNSPOUT AND CONDENSATE DRAIN PIPING.
   B. EQUIPMENT AND DUCTWORK.
   C. FORCED AND PRESSURE PIPING SUCH AS WATER AND FIRE SPRINKLER PIPING

6. CONTRACTOR SHALL PROVIDE DIELECTRIC UNIONS AT CONNECTION POINTS FOR PIPING AND DUCTWORK OF DISSIMILAR METALS.

7. FOR ALL FLOOR, WALL PARTITION, CEILING AND ROOF PENETRATIONS, SEE SHEET M08 FOR DETAIL. VERIFY AND COORDINATE ALL WALL AND FLOOR PENETRATIONS FOR ANY CONFLICTS THAT AFFECT OTHER TRADES AND NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO STARTING WORK. ANY DAMAGES CAUSED DURING CONSTRUCTION SHALL BE REPAIRED/PATCHED/REPLACED BY THE CONTRACTOR TO MATCH EXISTING SURROUNDINGS/FINISHINGS AT NO ADDITIONAL COST TO THE OWNER.

8. ALL PENETRATIONS OF REQUIRED FIRE RATED WALLS, PARTITIONS AND FLOORS SHALL BE PROVIDED WITH FIRE STOPPING MATERIAL PER CURRENTLY ENFORCED IBC.

9. NO CUTTING OR DRILLING OF ANY STRUCTURAL MEMBERS WILL BE PERMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. REFER TO STRUCTURAL DRAWING DETAILS FOR ALL MECHANICAL EQUIPMENT AND PIPING ATTACHMENTS TO STRUCTURAL MEMBERS.

10. ALL FASTENERS, SUPPORTS, PIPE HANGERS, SPRING ISOLATORS, AND MISCELLANEOUS STEEL ITEMS INCLUDING BUT NOT LIMITED TO BOLTS, NUTS, SCREWS, RODS, PLATES, AND ANGLES, ETC. SHALL BE GALVANIZED UNLESS OTHERWISE NOTED OR SPECIFIED.

11. PAINT ALL EXPOSED PIPING TO MATCH SURROUNDING COLOR. PROVIDE ESCUTCHEONS WHERE ALL EXPOSED PIPING PENETRATES FINISHED WALLS AND CEILINGS.

12. PROVIDE SHOP DRAWINGS FOR THE LAYOUT OF EQUIPMENT AND PIPING, INCLUDING PIPING DIAGRAMS, SHOWING COORDINATION OF ALL WORK WITH OTHER TRADES.

13. SEISMICALLY BRACE ALL EQUIPMENT AND PIPING IN ACCORDANCE WITH THE CURRENT CITY AND COUNTY OF HONOLULU BUILDING CODE FOR SEISMIC ZONE 2A.

14. ALL EXISTING WALLS, CEILINGS, SOFFITS, FLOORS, ROOFS, ETC. THAT ARE DAMAGED, CUT, ETC. DUE TO REMOVAL OR INSTALLATION OF DUCTWORK, AIR OUTLETS/INLETS, AND PIPING SHALL BE REPAIRED/REPLACED/PAINTED TO MATCH ADJACENT SURROUNDINGS OR FINISHES. REFER TO ARCH DRAWINGS FOR CONCRETE INFILL DETAILS.

15. DEVICES THAT REQUIRE SERVICE CLEARANCE INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING: PACKAGED AIR CONDITIONING UNITS, TERMINAL UNITS, EXHAUST FANS, AIR VALVES, REHEAT COILS, VOLUME DAMPERS, FIRE DAMPERS, SMOKE DAMPERS, PRESSURE SENSORS, SMOKE DETECTORS, TRAP PRIMPERS, VALVES, ETC. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS TO CAREFULLY PLAN AND COORDINATE THE WORK OF ALL TRADES TO PROVIDE THE REQUIRED SERVICE CLEARANCES FOR THESE DEVICES. NOTIFY THE OWNER OF ANY INADEQUATE CLEARANCES OR CONDITIONS THAT WILL PREVENT THE PROPER INSTALLATION, MAINTENANCE, AND OPERATION OF THE EQUIPMENT. PROVIDE ACCESS PANELS TO CONCEALED SPACES (WHETHER SHOWN ON THE PLANS OR NOT) TO ALLOW ACCESS. PROVIDE FIRE RATED ACCESS PANELS AS REQUIRED. COORDINATE TYPE OF ACCESS PANEL WITH WALL OR CEILING CONTRACTOR. DO NOT BLOCK ACCESS BY INSTALLING EQUIPMENT, DUCTWORK, SPRINKLERS, PIPING, CABLE TRAYS, CONDUITS, ETC., DIRECTLY BELOW SUCH DEVICES OR DIRECTLY ABOVE ACCESS PANELS. INSTALLATION SHALL PROVIDE SERVICE CLEARANCE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (BUT NOT LESS THAN 24") IN FRONT OF SUCH DEVICES. ACCESS PANELS SHALL BE 30"x30" MINIMUM UNLESS OTHERWISE NOTED.

MECHANICAL NOTES:

1. DUCTWORK SHOWN INDICATES GENERAL LAYOUT REQUIREMENTS. SHOP DRAWINGS SHALL INDICATE ADDITIONAL DUCT OFFSETS, DROPS, RISES, ETC. REQUIRED TO FIT SPACE AVAILABLE. MECHANICAL CONTRACTOR SHALL COORDINATE WITH FIRE SPRINKLER CONTRACTOR AND ELECTRICAL CONTRACTOR TO ENSURE ADEQUATE SPACE IS AVAILABLE FOR SPRINKLER PIPES AND LIGHTS.

4. CONTRACTOR SHALL VERIFY THE EXACT QUANTITIES OF FAN COIL UNITS, AIR HANDLER UNITS, EXHAUST FANS, SUPPLY FANS, ROOF CAP, ETC. FROM THE PLANS. EQUIPMENT SCHEDULE ON SHEET M12 MAY NOT REFLECT THE EXACT QUANTITY OF EQUIPMENT.

6. ALL VAV SYSTEM SUPPLY AIR DUCTS SHALL BE MEDIUM PRESSURE CONSTRUCTION WITH MASTIC OR SEALS AT JOINTS. ALL OTHER AIR SYSTEMS SHALL BE LOW PRESSURE.

3. LARGE DUCTS (OVER 30" IN ONE DIMENSION) SHALL BE REINFORCED WITH GALVANIZED ANGLE IRONS ON ALL SIDES TO PREVENT LOW RUMBLE VIBRATION, PER SMACNA "DUCT CONSTRUCTION STANDARDS."

2. ALL DUCT DIMENSIONS ARE INSIDE DIMENSIONS: INCREASE DUCT DIMENSIONS TO COMPENSATE FOR DUCT LINER INSULATION THICKNESS.

10. ALL AIR CONDITIONING SUPPLY, RETURN AIR DUCTS AND OUTSIDE AIR DUCTS SHALL BE INSULATED WITH DUCT WRAP.
   A. THE FIRST 15 FEET OF SUPPLY AND RETURN AIR DUCTS FROM AIR HANDLING EQUIPMENT SHALL BE ADDITIONALLY LINED WITH DUCT LINER.
   B. DUCT WRAP CAN BE OMITTED FROM DUCTS THAT ARE LINED, EXCEPT INSIDE MACHINE ROOMS. DUCT WRAP SHALL OVERLAP DUCT LINER A MINIMUM OF 3".
   C. ACCESSORIES SUCH AS ATTENUATORS AND FIRE DAMPERS SHALL BE PROVIDED WITH 1-1/2" THICK RIGID FIBERGLASS EXTERNAL INSULATION.
   D. ALL EDGES OF DUCT AND PLENUM LINERS SHALL BE COATED AND PROVIDED WITH METAL NOSING AT ALL SUPPLY AND RETURN DUCT CONNECTIONS TO ALL AIR HANDLING EQUIPMENT.

4. FLEXIBLE CONNECTIONS SHALL BE PROVIDED BETWEEN DUCTWORK AND PACKAGED AIR CONDITIONING UNITS AND IN-LINE EXHAUST FANS.

5. TURNING VANES OR EXTRACTORS SHALL BE INSTALLED IN ALL CHANGES IN DIRECTION OF AIR FLOW, WHICHEVER IS APPLICABLE.

14. SPLITTER DAMPERS SHALL BE INSTALLED IN DUCT TEES WHERE BRANCH DUCTS DO NOT HAVE THE SAME AIR CAPACITIES. VOLUME DAMPERS SHALL BE PROVIDED TO BALANCE AIR, SEE PLANS FOR LOCATIONS.

12. ALL VAV BOXES SHALL BE PRESSURE INDEPENDENT OVER ENTIRE OPERATING RANGE. VAV BOXES SHALL BE EXTERNALLY POWERED AND CONTROLLED BY A SPACE THERMOSTAT OR RETURN AIR THERMOSTAT. LOCATE THERMOSTAT ON COLUMNS OR WALLS WHERE INDICATED ON PLANS. PROVIDE SPACE THERMOSTAT IN ROOMS CONTROLLING BOXES. ALL THERMOSTATS SHALL BE MOUNTED 3'-6" ABOVE THE FLOOR EXCEPT AS NOTED AND SHALL HAVE LOCKING COVERS. ALL LOCKS SHALL HAVE MASTER KEY.

16. FLEXIBLE DUCTS SHALL NOT BE USED UPSTREAM OF VAV BOXES.

17. ALL FLEXIBLE DUCTS SHALL BE WIRE REINFORCED WITH MINIMUM 1" THICK INSULATION AND MAXIMUM 5'-0" LENGTH WITH BELL MOUTH TAP.

6. FIRE DAMPERS SHALL BE INSULATED WHEN LOCATED IN INSULATED SUPPLY AND RETURN AIR DUCTS. INSULATION SHALL BE IN ACCORDANCE WITH SMACNA. FIRE DAMPERS SHALL NOT BE INSULATED WHEN INSTALLED IN NON-INSULATED DUCTWORK.

7. PROVIDE FIRE DAMPERS OR FIRE/SMOKE DAMPERS FOR ALL FLOOR PENETRATIONS OR PENETRATIONS THROUGH FIRE RATED WALLS PER IBC CHAPTER 7. FIRE DAMPERS SHALL BE 90% OUT OF AIR STREAM. PROVIDE DUCT ACCESS PANELS FOR FIRE DAMPERS AND FIRE/SMOKE DAMPERS WHERE REQUIRED.

8. ALL PENETRATIONS OF REQUIRED FIRE RATED WALLS, PARTITIONS AND FLOORS SHALL BE PROVIDED WITH FIRE STOPPING MATERIAL PER IBC.

9. CONTRACTOR SHALL OBTAIN EXTENDED MANUFACTURER'S WARRANTY FOR ALL MECHANICAL EQUIPMENT. INCLUDE WARRANTY INFORMATION IN PRODUCT DATA SUBMITTALS.

14. AIR CONDITIONING CONTRACTOR SHALL INSULATE ALL PIPING THAT COLLECTS CONDENSATE INCLUDING WASTE PIPE, ETC. FROM POINT OF CONNECTION TO TOP OF CONCRETE FLOOR SLAB ON GRADE.

15. WHEN VALVES ARE INSTALLED IN A HORIZONTAL POSITION, VALVE STEMS SHALL BE INSTALLED IN A UPRIGHT POSITION. IF THIS IS NOT POSSIBLE BECAUSE OF SPACE AND HEADROOM CONSTRAINTS, VALVE STEMS SHALL BE INSTALLED IN A INCLINED POSITION ABOVE THE HORIZONTAL CENTERLINE OF THE PIPE.

16. ALL CONTROL WIRING SHALL BE PLACED IN CONDUIT AND SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. NO EMT ALLOWED FOR CONDUIT EXPOSED TO WEATHER.

17. CEILING DIFFUSERS LABELED CD-1 ARE LOCATED IN AREAS WHERE LIGATURE RESISTANT TYPE FIXTURES ARE REQUIRED. CEILING DIFFUSERS LABELED CD-2 ARE LOCATED IN AREAS WHERE THERE IS NO LIGATURE RESISTANT REQUIREMENT. SIMILAR FOR SUPPLY REGISTER (SR), EXHAUST REGISTERS (ER), RETURN REGISTER (RR). SEE SPEC SECTION 15600 FOR ANTI-LIGATURE AIR DEVICES.

18. TRANSFER GRILLES BETWEEN SPACES SHALL HAVE ACOUSTICAL DUCT SILENCER INSTALLED. SEE SPEC SECTION 15811 FOR DUCT SILENCER SCHEDULE.

MECHANICAL NOTES (CONT):

19. PATIENT ROOMS (29, 32, 34, 36, 47, 48, 50, 52) AND SECLUSION ROOM (62) SHALL BE CONTROLLED BY A WALL MOUNT CONTROL TABLET IN THE NURSE STATION (40). CONTROL TABLET FUNCTION SHALL INCLUDE ON/OFF CONTROL, MONITOR ROOM TEMPERATURE, ADJUST ROOM TEMPERATURE SETPOINT. EACH ROOM SHALL HAVE INDIVIDUAL TEMPERATURE CONTROL.

20. OFFICE ROOMS (17, 18, 19, 20, 83, 84) SHALL BE CONTROLLED BY A WALL MOUNT THERMOSTAT LOCATED IN EACH RESPECTIVE ROOM. THERMOSTAT FUNCTION SHALL INCLUDE ON/OFF CONTROL, MONITOR ROOM TEMPERATURE, ADJUST ROOM TEMPERATURE SETPOINT. EACH ROOM SHALL HAVE INDIVIDUAL TEMPERATURE CONTROL.

MECHANICAL LEGEND

	A/C	AIR CONDITIONING
	PACU	PACKAGED AIR CONDITIONING UNIT
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AP	ACCESS PANEL
	BDD	BACKDRAFT DAMPER
	BOD	BOTTOM OF DUCT (ABOVE FINISHED FLOOR)
	CD-1	CEILING DIFFUSER, LIGATURE RESISTANT
	CD-2	CEILING DIFFUSER, COMMERCIAL
——— D ———	CDR	CONDENSATE DRAIN
	CONN	CONNECT OR CONNECTION
	CONT	CONTINUATION
—·—◯	CVD	CONCEALED VOLUME DAMPER
	DH	DEHUMIDIFIER
	DL	DOOR LOUVER
	DN	DOWN
	DOAS	DEDICATED OUTSIDE AIR SYSTEM
	EF	EXHAUST FAN
	ER-1	EXHAUST REGISTER, LIGATURE RESISTANT
	ER-2	EXHAUST REGISTER, COMMERCIAL
	EG	EXHAUST GRILLE
	EOR	ENGINEER OF RECORD
	EXH	EXHAUST
(E)	(E)	EXISTING
	FCU	FAN COIL UNIT
	FLXC	FLEXIBLE CONNECTOR
Ⓗ		HUMIDISTAT
—·—Ⓜ	MVD	MOTORIZED VOLUME DAMPER
Ⓢ		ON/OFF SWITCH (INSTALL AT 42" AFF)
	OA	OUTSIDE AIR
	OAI	OUTSIDE AIR INTAKE
	PACU	PACKAGED AIR CONDITIONING UNIT
	POC	POINT OF CONNECTION
	RA	RETURN AIR
	RG	RETURN GRILLE
	RR-1	RETURN REGISTER, LIGATURE RESISTANT
	RR-2	RETURN REGISTER, COMMERCIAL
	SA	SUPPLY AIR
	SR	SUPPLY REGISTER
	S/S	STAINLESS STEEL
Ⓣ		THERMOSTAT (INSTALL AT 42" AFF)
	TERM	TERMINATE
	TG	TRANSFER GRILLE
	TU	TERMINAL UNIT
	UC	UNDERCUT
—·—┘	VD	VOLUME DAMPER

MEH CORP
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PHONE: 521-8981 FACSIMILE: 536-5457

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KYLE T. Y. CHENG LICENSED PROFESSIONAL ENGINEER No. 13747-M HAWAII, U.S.A.

4/30/2026
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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_HVAC_CENTRAL.rvt

SHEET NAME

GENERAL NOTES, MECHANICAL NOTES, AND MECHANICAL LEGEND

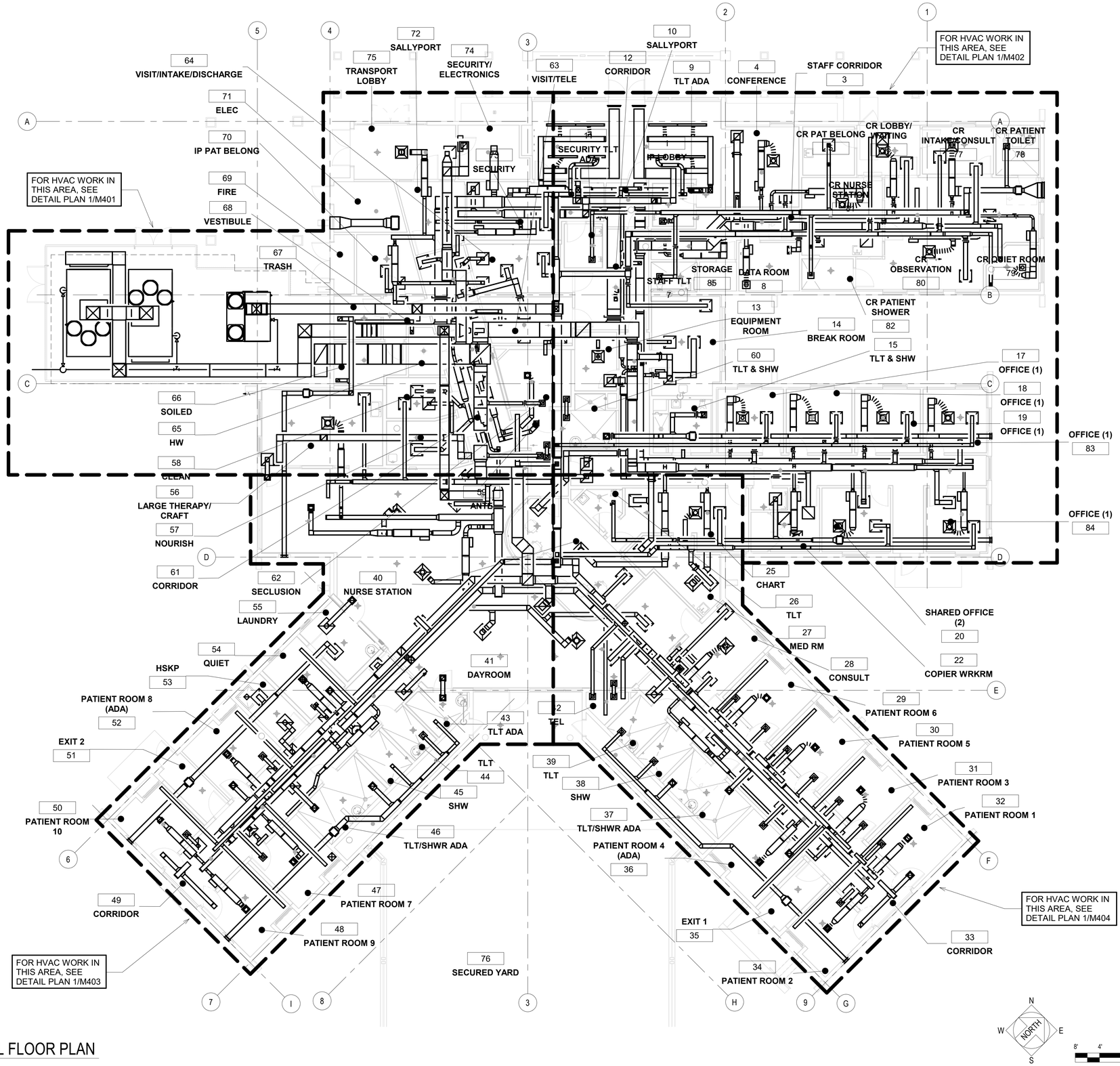
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DAT	KC

PROJECT NO.	SHEET NO.
221093-01	**M001**

SHEET ISSUE DATE
02/27/2026

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1 MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

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PHONE: 521-8981 FACSIMILE: 536-5457

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4/30/2026
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PROJECT TITLE

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TMK#: 4-6-014:113

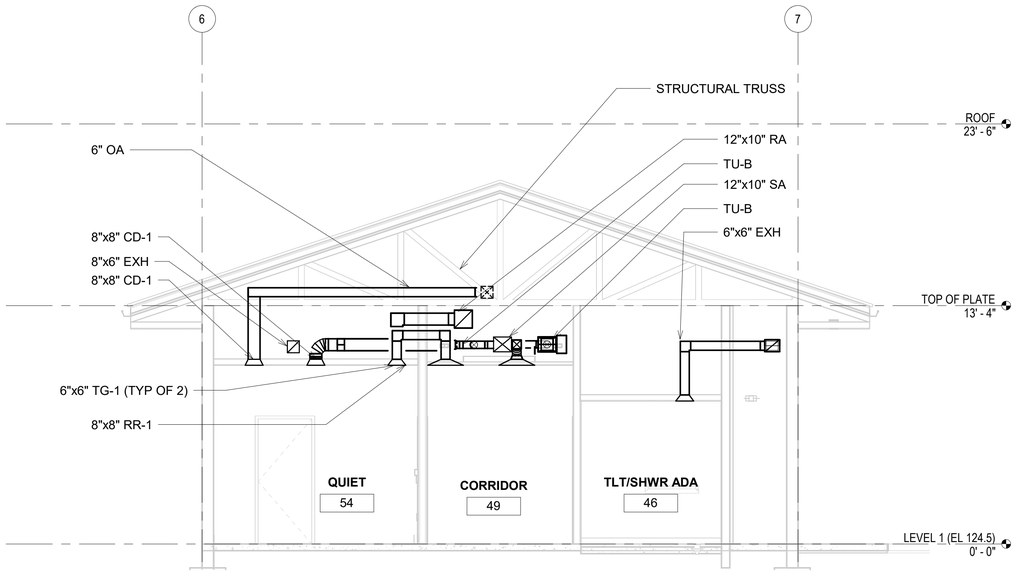
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SHEET NAME
MECHANICAL FLOOR PLAN

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

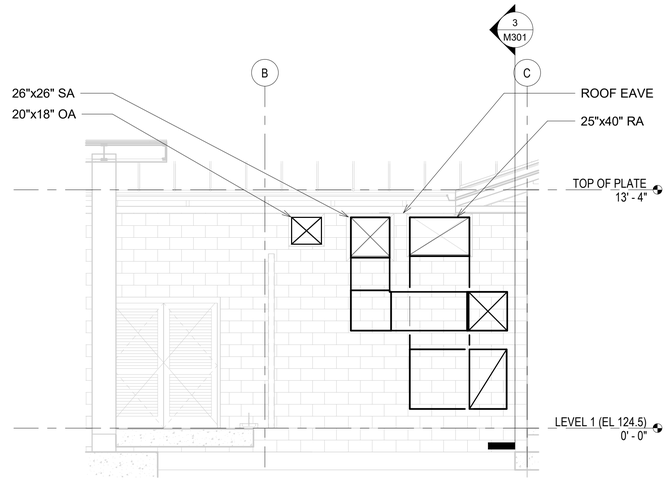
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PROJECT NO.	SHEET NO.
221093-01	**M101**
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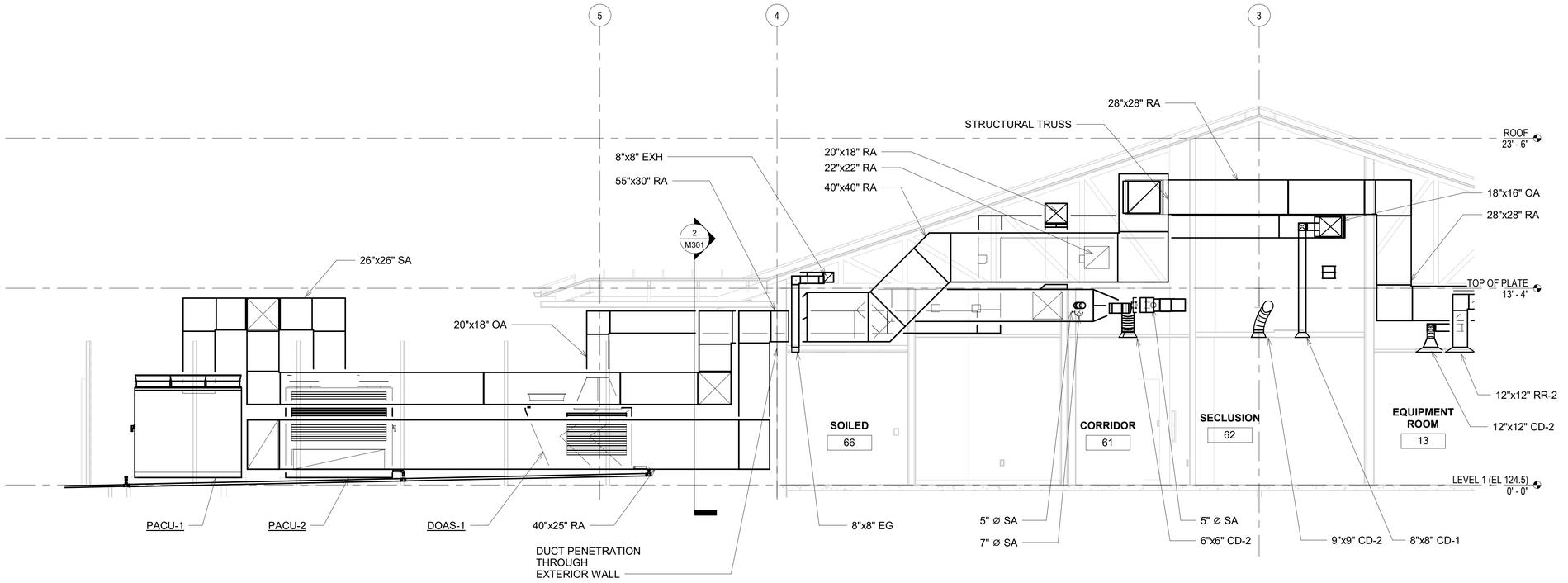
1 CORRIDOR AT GL-H SECTION

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



2 EXTERIOR WALL DUCT PENETRATION

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



3 MECHANICAL YARD & DUCTWORK ENTERING BUILDING SECTION

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

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TMK#: 4-6-014:113

FILENAME
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SHEET NAME
MECHANICAL SECTIONS

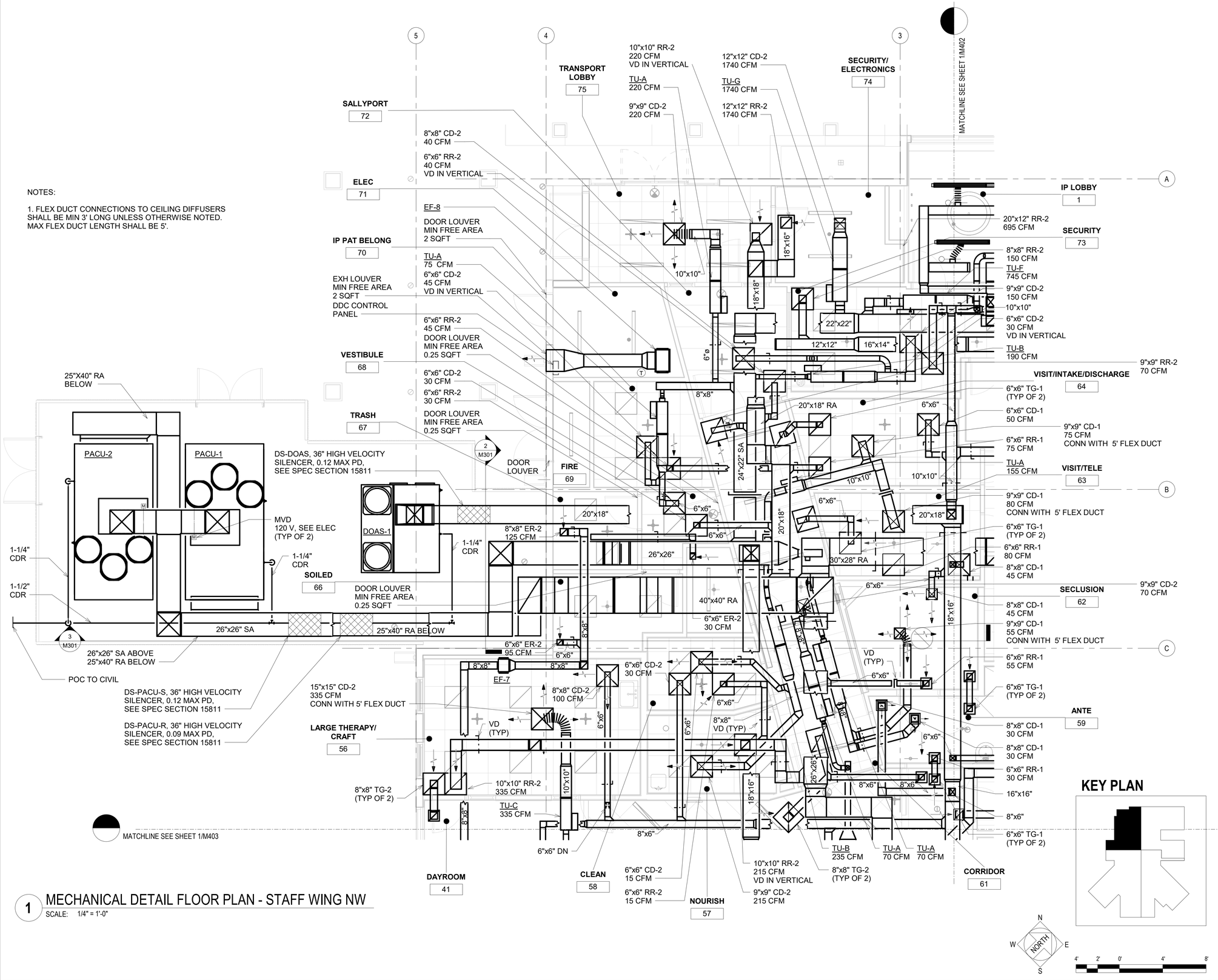
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DAT	KC
PROJECT NO.	SHEET NO.
221093-01	**M301**
SHEET ISSUE DATE	
02/27/2026	

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NOTES:

1. FLEX DUCT CONNECTIONS TO CEILING DIFFUSERS SHALL BE MIN 3' LONG UNLESS OTHERWISE NOTED. MAX FLEX DUCT LENGTH SHALL BE 5'.



KEY PLAN

1 MECHANICAL DETAIL FLOOR PLAN - STAFF WING NW

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

MEH CORP

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TMK#: 4-6-014:113

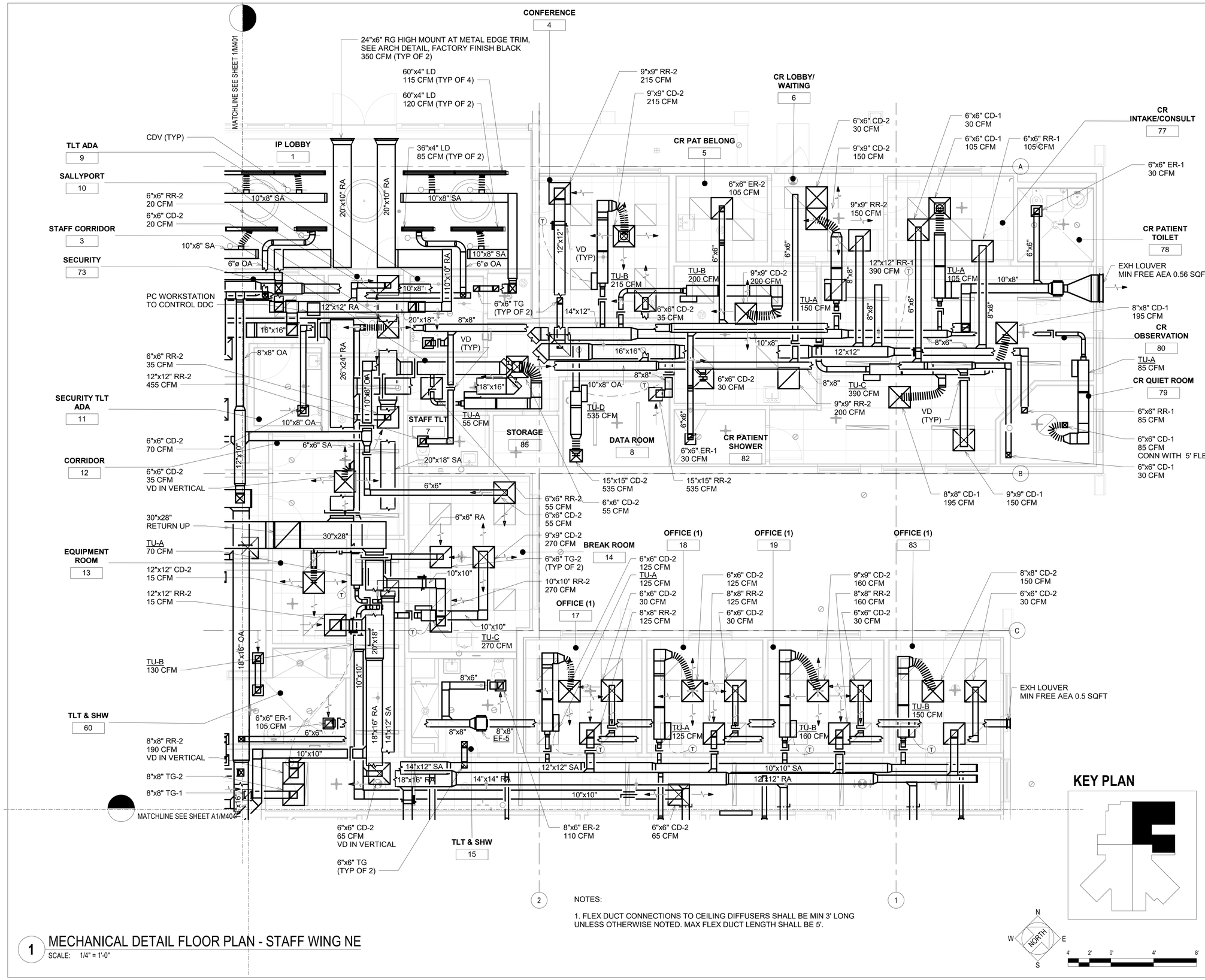
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SHEET NAME
MECHANICAL DETAIL FLOOR PLAN - STAFF WING NW

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

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PROJECT NO.	SHEET NO.
221093-01	M401
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NOTES:

1. FLEX DUCT CONNECTIONS TO CEILING DIFFUSERS SHALL BE MIN 3' LONG UNLESS OTHERWISE NOTED. MAX FLEX DUCT LENGTH SHALL BE 5'.

KEY PLAN

1 MECHANICAL DETAIL FLOOR PLAN - STAFF WING NE
SCALE: 1/4" = 1'-0"

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TMK#: 4-6-014:113

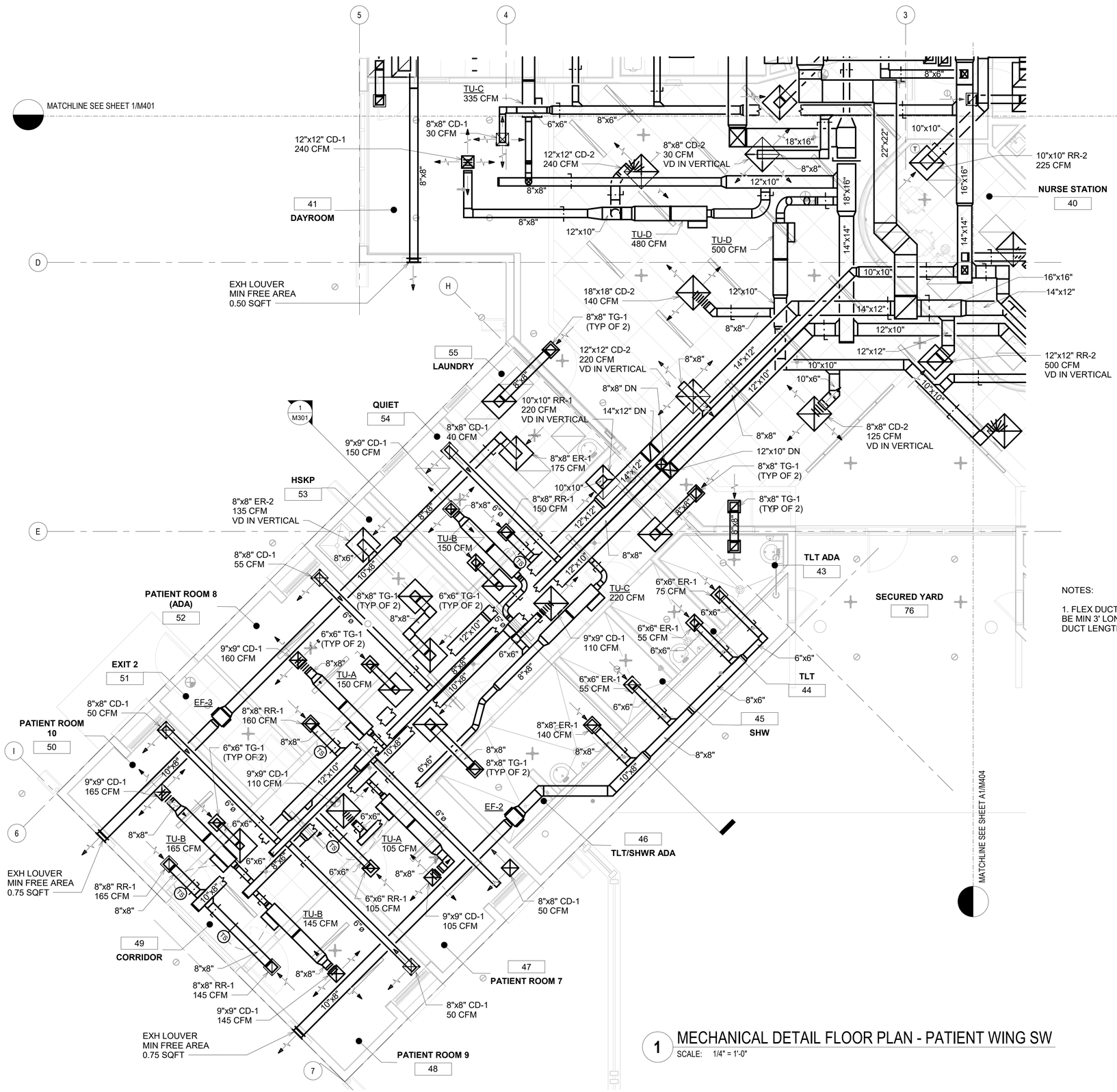
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SHEET NAME
MECHANICAL DETAIL FLOOR PLAN - STAFF WING NE

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

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221093-01	M402
SHEET ISSUE DATE	
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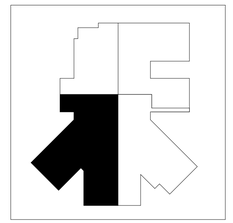


1 MECHANICAL DETAIL FLOOR PLAN - PATIENT WING SW
SCALE: 1/4" = 1'-0"

NOTES:

1. FLEX DUCT CONNECTIONS TO CEILING DIFFUSERS SHALL BE MIN 3' LONG UNLESS OTHERWISE NOTED. MAX FLEX DUCT LENGTH SHALL BE 5'.

KEY PLAN



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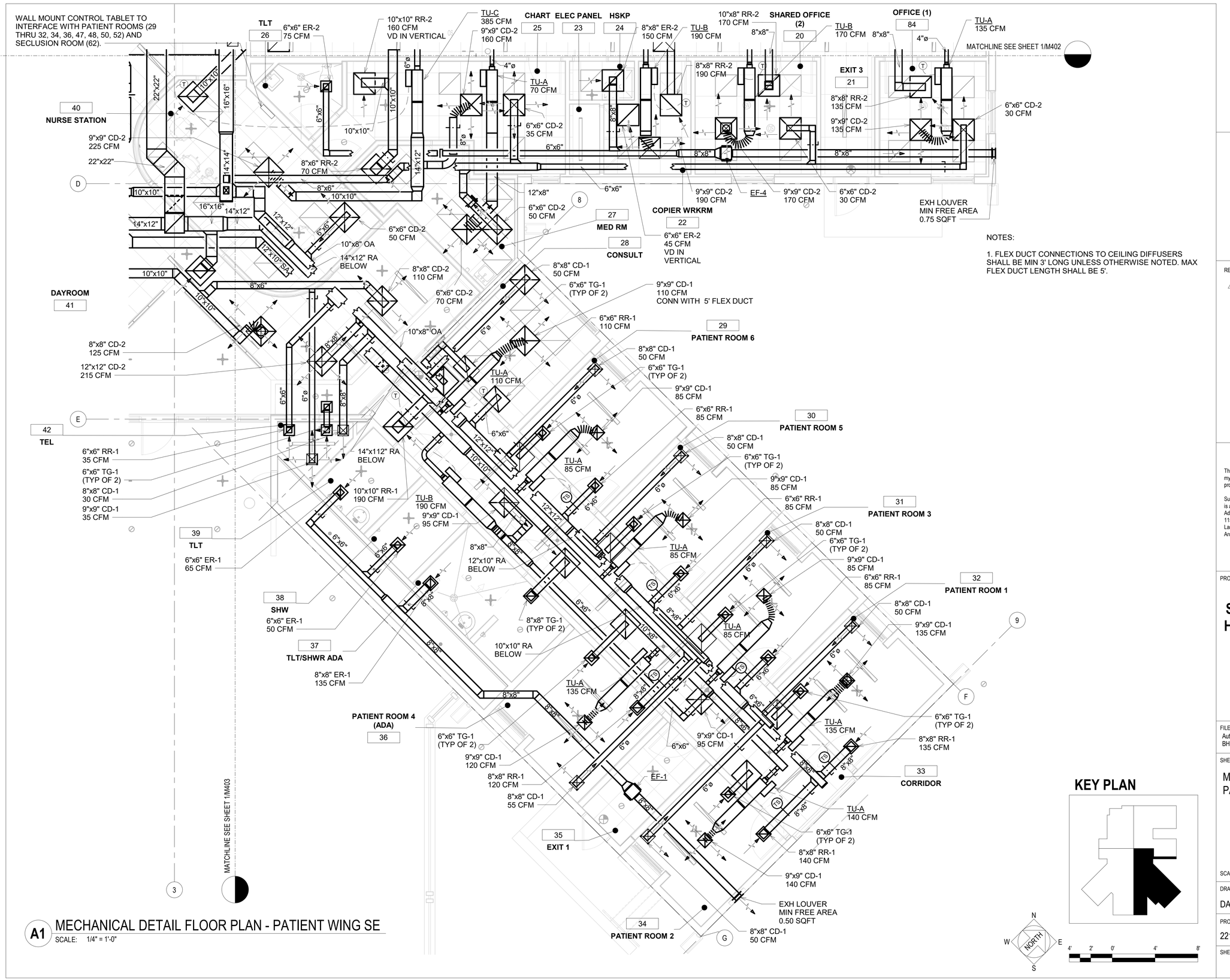
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SHEET NAME
MECHANICAL DETAIL FLOOR PLAN - PATIENT WING SW

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

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PROJECT NO.	SHEET NO.
221093-01	**M403**
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02/27/2026	

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NOTES:

1. FLEX DUCT CONNECTIONS TO CEILING DIFFUSERS SHALL BE MIN 3' LONG UNLESS OTHERWISE NOTED. MAX FLEX DUCT LENGTH SHALL BE 5'.

KEY PLAN

A1 MECHANICAL DETAIL FLOOR PLAN - PATIENT WING SE
SCALE: 1/4" = 1'-0"

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TMK#: 4-6-014:113

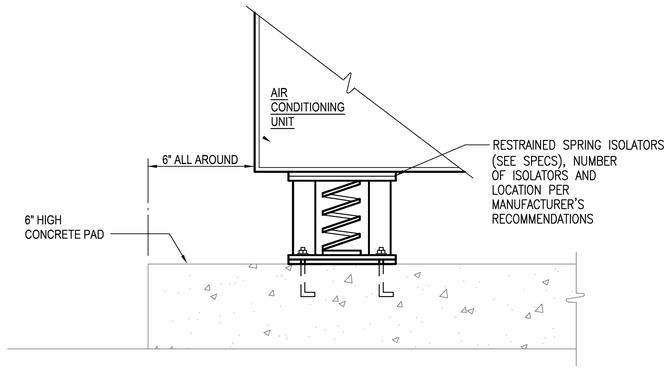
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SHEET NAME
MECHANICAL DETAIL FLOOR PLAN - PATIENT WING SE

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

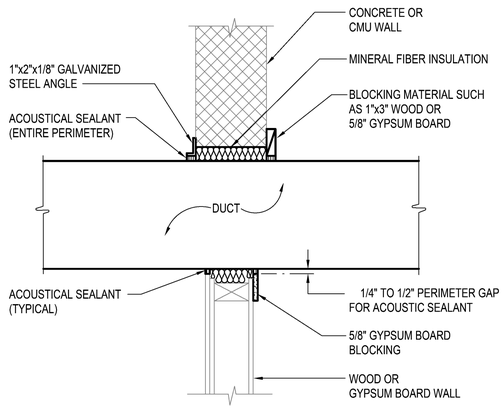
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PROJECT NO.	SHEET NO.
221093-01	M404
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02/27/2026	

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1 TYPICAL AIR CONDITIONING UNIT MOUNTING DETAIL

NOT TO SCALE

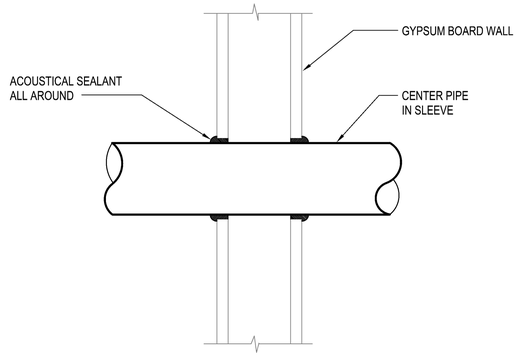


NOTE:

FIRE RATED SHALL BE PROVIDED WITH FIRE DAMPERS. WALL OPENING CLOSURE ANGLE SHALL BE IN ACCORDANCE WITH FIRE DAMPER UL LISTING.

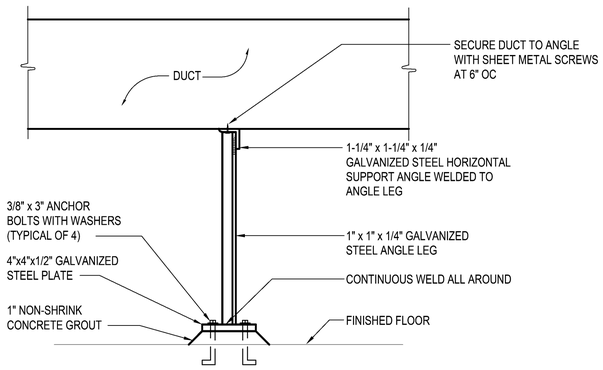
2 DUCT THRU WALL DETAIL

NOT TO SCALE



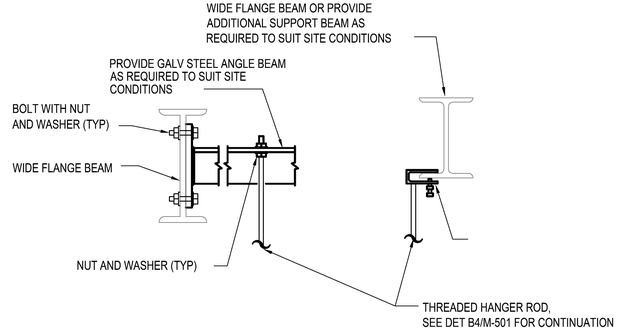
3 PIPE THRU DRYWALL DETAIL

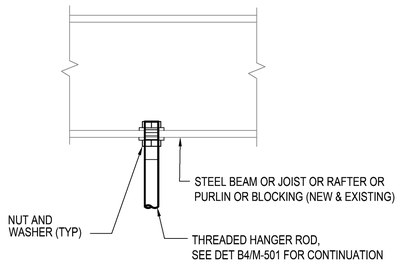
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4 DUCT SUPPORT DETAIL

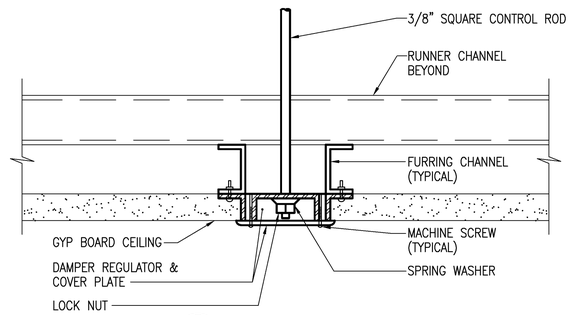
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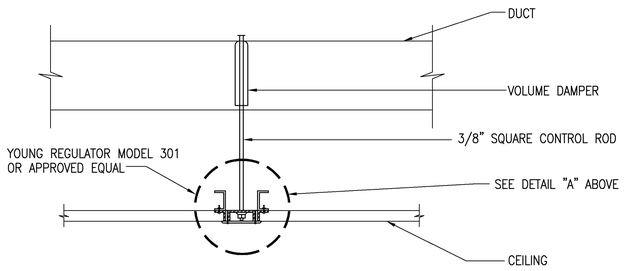
5 TYPICAL CONNECTION TO STEEL MEMBER DETAIL

NOT TO SCALE



A DETAIL

NOT TO SCALE



6 CONCEALED VOLUME DAMPER DETAIL

NOT TO SCALE

MEH CORP

MECHANICAL ENGINEERS OF HAWAII CORP.
50 S. BERETANIA STREET, SUITE C-208A
HONOLULU HAWAII 96813-2222
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HAWAII, U.S.A.

4/30/2026
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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

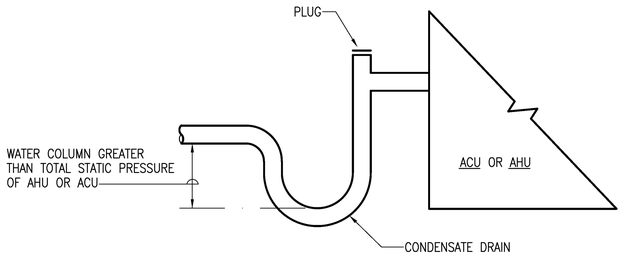
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SHEET NAME
MECHANICAL DETAILS

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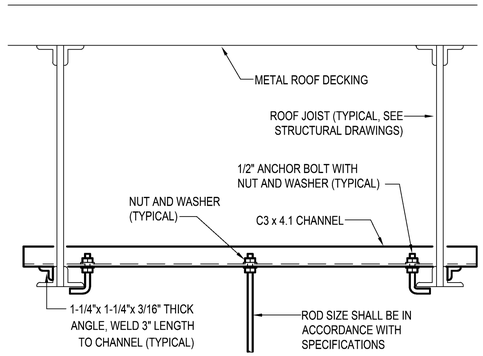
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221093-01	M501
SHEET ISSUE DATE	
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6 CONDESATE DRAIN CONNECTION DETAIL

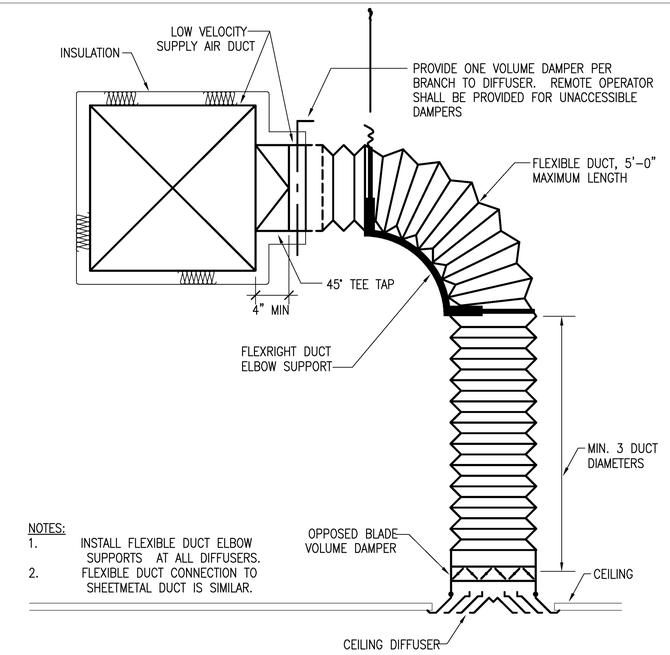
NOT TO SCALE



NOTES:
1. ALL STEEL ANGLES, CHANNELS, HANGERS, ETC SHALL BE GALVANIZED UNLESS OTHERWISE NOTED.
2. USE GALVANIZED PAINT TO TOUCH UP ALL STEEL MEMBERS WHERE FACTORY GALVANIZED COATING HAS BEEN DAMAGED OR REMOVED. WELDED JOINTS SHALL ALSO BE TOUCHED UP WITH GALVANIZED PAINT.
3. SHEETMETAL DUCT HANGER ATTACHMENT SIMILAR.

7 HANGER ATTACHMENT DETAIL

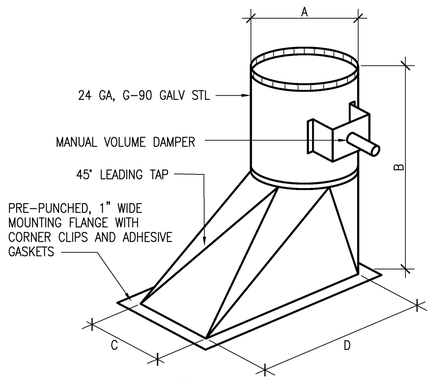
NOT TO SCALE



NOTES:
1. INSTALL FLEXIBLE DUCT ELBOW SUPPORTS AT ALL DIFFUSERS.
2. FLEXIBLE DUCT CONNECTION TO SHEETMETAL DUCT IS SIMILAR.

8 TYPICAL CEILING DIFFUSER DETAIL

NOT TO SCALE



NOTE:
BRANCH TAP FOR FLEXIBLE DUCTWORK MANUFACTURED BY FLEXMASTER USA, INC. MODEL STO (45° SIDE TAKE OFF) OR APPROVED EQUAL

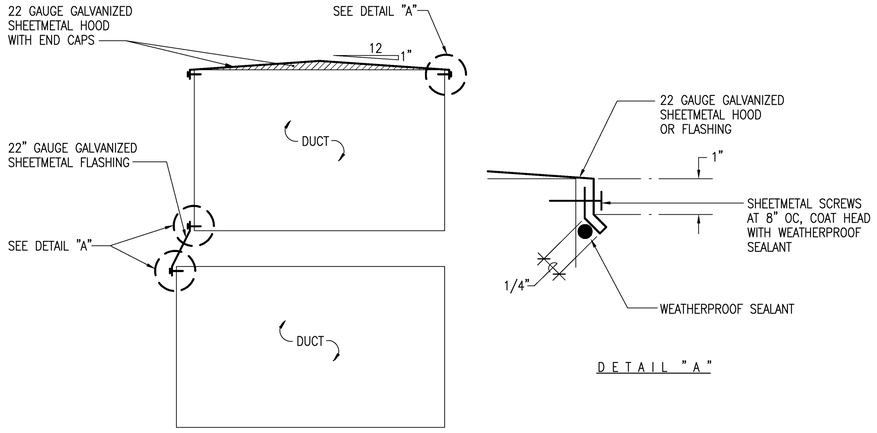
APPROXIMATE DIMENSIONS

NOMINAL SIZE	A	B	C x D	OAD
5	4-7/8	13	5 x 9	7 x 11
6	5-7/8	13	5 x 9	7 x 12
7	6-7/8	13	5 x 11	7 x 13
8	7-7/8	13	6 x 12	8 x 14
9	8-7/8	13	7 x 13	9 x 15
10	9-7/8	13	8 x 14	10 x 16
12	11-7/8	13	10 x 16	12 x 18
14	13-7/8	13	12 x 18	14 x 20
16	16-7/8	13	14 x 20	16 x 22
18	18-7/8	13	16 x 22	18 x 24
20	20-7/8	13	18 x 24	20 x 26

A = NOMINAL SIZE MINUS 1/8"

9 TYPICAL BRANCH TAP FOR DUCTWORK DETAIL

NOT TO SCALE



10 TYPICAL DUCT HOOD AND FLASHING DETAIL

NOT TO SCALE

MEH CORP
MECHANICAL ENGINEERS OF HAWAII CORP.
50 S. BERETANIA STREET, SUITE C-208A
HONOLULU HAWAII 96813-2222
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REVISIONS

#	Date	Description

CD/BID SET

02/27/26

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

KYLE T. Y. CHENG
LICENSED PROFESSIONAL ENGINEER
No. 13747-M
HAWAII, U.S.A.

4/30/2026
License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_HVAC_CENTRAL.rvt

SHEET NAME
MECHANICAL DETAILS

SCALE:

DRAWN BY	CHECKED BY
DAT	KC
PROJECT NO.	SHEET NO.
221093-01	**M502**
SHEET ISSUE DATE	
02/27/2026	

3/2/2026 5:02:00 PM

PACKAGED AIR CONDITIONING UNIT SCHEDULE (1 OF 2)

UNIT NO	MANUFACTURER AND MODEL	LOCATION	1% DRY BULB CONDITIONS					AMBIENT AIR TEMP °F	SUPPLY AIR CFM	OUTSIDE AIR CFM	REFR TYPE	REMARKS
			SENSIBLE COOL CAP BTU/HR	LATENT COOL CAP BTU/HR	TOTAL COOL CAP BTU/HR	ENT AIR TEMP °F DB	ENT AIR TEMP °F WB					
PACU-1	CAPTIVEAIRE CAS-HVAC4-24-25T OR APPROVED EQUAL	MECH YARD	228,300	22,600	250,900	75.8	61.4	95	9,955	0	R-454B	

NOTE:

WITH INVERTER SCROLL COMPRESSOR. VFD FACTORY MOUNTED AND WIRED. INCLUDE COMPRESSOR SOUND BLANKET, SA MVD AND RA MVD. PACU-2 SIMILAR. PACU-1 PRIMARY AND PACU-2 BACKUP, MUST ALTERNATE FUNCTION EVERY OTHER WEEK & BE USER ADJUSTABLE AS NEEDED.

BACKUP UNIT SHALL ENERGIZE ON DURING ANY FAILURE DETECTED OF PRIMARY UNIT TO MEET THE DESIGN INTENT.

PACKAGED AIR CONDITIONING UNIT SCHEDULE (2 OF 2)

UNIT NO	MANUFACTURER AND MODEL	EVAPORATOR FAN				CONDENSER FAN			COMPRESSOR						FILTER		CAPACITY REDUCTION PERCENT	HP	MIN. CIRCUIT AMPS	EER	ESP INCHES	OPR WT POUNDS	ISOLATOR		DISCHARGE/INLET SOUND LEVELS							REMARKS
		TSP	RPM	HP	FLA	NO	HP EACH	FLA EACH	NO	KW	RLA EACH	LRA EACH	VOLTS	ϕ	TYPE	AREA SQ FT							TYPE	DEFL	125	250	500	1000	2000	4000	8000	
PACU-1	CAPTIVEAIRE CAS-HVAC4-24-25T OR APPROVED EQUAL	-	-	-	-	-	-	-	-	-	-	-	460	3	MERV 14	-	30-100	20	80.2	-	2.3	4750	NEOPRENE	-	- / -	- / -	- / -	- / -	- / -	- / -	- / -	

DEDICATED OUTSIDE AIR PACKAGED UNIT SCHEDULE (1 OF 2)

UNIT NO	MANUFACTURER AND MODEL	LOCATION	COOLING COIL - 1% DRY BULB CONDITIONS					COOLING COIL - 1% DEWPOINT CONDITIONS					REHEAT COIL			AMBIENT AIR TEMP °F	OUTSIDE AIR CFM	REFR TYPE	REMARKS
			SENSIBLE COOL CAP BTU/HR	LATENT COOL CAP BTU/HR	TOTAL COOL CAP BTU/HR	ENT AIR TEMP °F DB	ENT AIR TEMP °F WB	SENSIBLE COOL CAP BTU/HR	LATENT COOL CAP BTU/HR	TOTAL COOL CAP BTU/HR	ENT AIR TEMP °F DB	ENT AIR TEMP °F WB	TOTAL BTU/HR	ENT AIR TEMP °F	LVG AIR TEMP °F				
DOAS-1	CAPTIVEAIRE CAS-HVAC3-15-15T-DOAS OR APPROVED EQUAL	MECH YARD	72,400	78,800	151,200	84.4	74.5	59,200	102,200	161,400	78.8	75.8	56,300	53.7	75	95	2195	R-454B	WITH INVERTER SCROLL COMPRESSOR.

DEDICATED OUTSIDE AIR PACKAGED UNIT SCHEDULE (2 OF 2)

UNIT NO	MANUFACTURER AND MODEL	EVAPORATOR FAN				CONDENSER FAN			COMPRESSOR						FILTER		CAPACITY REDUCTION PERCENT	HP	MIN. CIRCUIT AMPS	EER	ESP INCHES	OPR WT POUNDS	ISOLATOR		DISCHARGE/INLET SOUND LEVELS							REMARKS
		TSP	RPM	HP	FLA	NO	HP EACH	FLA EACH	NO	KW	RLA EACH	LRA EACH	VOLTS	ϕ	TYPE	AREA SQ FT							TYPE	DEFL	125	250	500	1000	2000	4000	8000	
DOAS-1	CAPTIVEAIRE CAS-HVAC3-15-15T-DOAS OR APPROVED EQUAL	-	-	-	-	-	-	-	-	-	-	-	460	3	MERV 14	-	30-100	2	27.1	-	0.85	2320	NEOPRENE	-	- / -	- / -	- / -	- / -	- / -	- / -	- / -	

FAN SCHEDULE

UNIT NO	MANUFACTURER AND MODEL	LOCATION	SERVICE	TYPE	CFM	EXT SP (IN W.C.)	TIP SPEED (FPM)	OUTLET VELOCITY (FPM)	DRIVE	FAN RPM	ELECTRICAL			SONES	OPR WT (LBS)	ISOLATOR		REMARKS
											WATTS	VOLTS	ϕ			TYPE	DEFL	
EF-1	GREENHECK MODEL CSP-A390-VG OR APPROVED EQUAL	35 EXIT 1	TOILET EXHAUST	INLINE	250	0.40	2252	232	DIRECT	1193	45	115	1	1.3	24	SPRING	1"	CONTROLLED BY TIMECLOCK
EF-2	GREENHECK MODEL CSP-A390-VG OR APPROVED EQUAL	46 TLT/SHWR ADA	TOILET EXHAUST	INLINE	320	0.40	2556	296	DIRECT	1317	72	115	1	1.3	24	SPRING	1"	CONTROLLED BY TIMECLOCK
EF-3	GREENHECK MODEL CSP-A390-VG OR APPROVED EQUAL	51 EXIT 2	GENERAL EXHAUST	INLINE	315	0.35	2556	292	DIRECT	1269	66	115	1	1.1	24	SPRING	1"	CONTROLLED BY TIMECLOCK
EF-4	GREENHECK MODEL CSP-A390-VG OR APPROVED EQUAL	21 EXIT 3	GENERAL EXHAUST	INLINE	270	0.40	2552	250	DIRECT	1227	52	115	1	1.3	24	SPRING	1"	CONTROLLED BY TIMECLOCK
EF-5	GREENHECK MODEL CSP-A390-VG OR APPROVED EQUAL	15 TLT & SHW	TOILET EXHAUST	INLINE	215	0.35	1988	199	DIRECT	1093	34	115	1	1.0	24	SPRING	1"	CONTROLLED BY TIMECLOCK
EF-6	GREENHECK MODEL CSP-A390-VG OR APPROVED EQUAL	9 TLT ADA	GENERAL EXHAUST	INLINE	355	0.40	2252	227	DIRECT	1185	44	115	1	1.3	24	SPRING	1"	CONTROLLED BY TIMECLOCK
EF-7	GREENHECK MODEL CSP-A390-VG OR APPROVED EQUAL	56 LARGE THERAPY/CRAFT	GENERAL EXHAUST	INLINE	250	0.35	2252	231	DIRECT	1143	42	115	1	1.1	24	SPRING	1"	CONTROLLED BY TIMECLOCK
EF-8	GREENHECK MODEL SP-A1050-VG OR APPROVED EQUAL	71 ELEC	GENERAL EXHAUST	CEILING	890	0.30	2356	856	DIRECT	1179	181	115	1	7.0	50	SPRING	1"	CONTROLLED BY ROOM THERMOSTAT, SETPOINT AT 95° F

TERMINAL UNIT SCHEDULE

TYPE	MANUFACTURER & SIZE	AHRI RATED CFM*	MAX. DISCHARGE/RADIATED SOUND POWER LEVEL BY OCTAVE BAND (RE: 10-12 WATT) TESTED AT 1.5" H2O INLET S.P. AT AHRI RATING CONDITIONS						MAX. WIDE OPEN S.P. (EXCLUSIVE OF DOWNSTREAM)	AIR INLET SIZE, INCHES	BOX DIMENSIONS L x W x H INCHES	REMARKS
			2	3	4	5	6	7				
TU-A	PRICE MODEL SDVQ SIZE 4 OR APPROVED EQUAL	150	59 / 57	47 / 47	32 / 39	22 / 32	20 / 28	24 / 26	0.10"	4"ϕ	77-3/16"x12"x8"	
TU-B	PRICE MODEL SDVQ SIZE 5 OR APPROVED EQUAL	250	68 / 63	52 / 47	34 / 39	32 / 33	29 / 28	25 / 30	0.10"	5"ϕ	77-3/16"x12"x8"	
TU-C	PRICE MODEL SDVQ SIZE 6 OR APPROVED EQUAL	400	68 / 62	53 / 52	39 / 44	25 / 36	23 / 32	25 / 26	0.10"	6"ϕ	75-3/16"x12"x8"	
TU-D	PRICE MODEL SDVQ SIZE 7 OR APPROVED EQUAL	550	68 / 59	55 / 53	40 / 44	30 / 37	29 / 34	30 / 27	0.10"	7"ϕ	75-3/16"x12"x10"	
TU-E	PRICE MODEL SDVQ SIZE 8 OR APPROVED EQUAL	700	70 / 63	56 / 52	41 / 46	38 / 40	38 / 35	37 / 30	0.10"	8"ϕ	75-3/16"x12"x10"	
TU-F	PRICE MODEL SDVQ SIZE 9 OR APPROVED EQUAL	900	72 / 62	57 / 53	43 / 46	33 / 41	38 / 38	40 / 35	0.10"	9"ϕ	75-3/16"x14"x12-1/2"	
TU-G	PRICE MODEL SDVQ SIZE 10 OR APPROVED EQUAL	1100	71 / 64	57 / 53	45 / 47	39 / 44	44 / 40	44 / 37	0.10"	10"ϕ	75-3/16"x14"x12-1/2"	
TU-H	PRICE MODEL SDVQ SIZE 12 OR APPROVED EQUAL	1600	71 / 66	58 / 54	49 / 51	44 / 49	48 / 43	49 / 37	0.10"	12"ϕ	75-3/16"x16"x15"	
TU-I	PRICE MODEL SDVQ SIZE 14 OR APPROVED EQUAL	2100	73 / 68	59 / 56	52 / 54	47 / 51	52 / 47	52 / 40	0.10"	14"ϕ	75-3/16"x20"x17-1/2"	
TU-J	PRICE MODEL SDVQ SIZE 16 OR APPROVED EQUAL	2800	75 / 70	60 / 61	52 / 57	50 / 54	54 / 51	52 / 44	0.10"	16"ϕ	75-3/16"x24"x18"	
TU-K	PRICE MODEL SDVQ SIZE 24x16 OR APPROVED EQUAL	5300	76 / 76	68 / 70	59 / 64	51 / 58	55 / 54	55 / 49	0.10"	24"x16"	75-3/16"x38"x18"	

* CFMS LISTED IN THIS SCHEDULE ARE AHRI RATED CERTIFICATION POINTS AND DO NOT REPRESENT DESIGN CFMS. DESIGN CFMS FOR EACH INDIVIDUAL TERMINAL UNIT ARE SHOWN ON THE FLOORPLANS.

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REVISIONS

#	Date	Description

CD/BID SET

02/27/26

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

KYLE T. Y. CHENG
LICENSED PROFESSIONAL ENGINEER
No. 13747-M
HAWAII, U.S.A.

4/30/2026
License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_HVAC_CENTRAL.rvt

SHEET NAME
MECHANICAL EQUIPMENT SCHEDULES

SCALE:

DRAWN BY	CHECKED BY
DAT	KC

PROJECT NO.	SHEET NO.
221093-01	**M601**

SHEET ISSUE DATE
02/27/2026

3/2/2026 5:02:11 PM

DDCS POINT SCHEDULE

| EQUIPMENT DESCRIPTION | LOCATION OR SERVICE | DRAWING REFERENCE | COMMANDS (1) START/STOP | (2) ALARM RESET | (3) CHILLER ENABLE/DISABLE | (4) | BINARY INPUTS (11) STATUS | (12) FIRE STAT | (13) DUCT SMOKE DETECTOR | (14) ALARM | (15) TEMPERATURE | (16) OCCUPANCY SENSOR | ANALOG INPUTS / OUTPUTS (21) INDIVIDUAL TIME SCHEDULE | (22) CWS TEMP RESET | (23) CHWS TEMP RESET | (24) CHWS TEMPERATURE | (25) CHWR TEMPERATURE | (26) | (27) FILTER DP | (28) CHWS PRESSURE | (29) CHWR PRESSURE | (30) CWS PRESSURE | (31) CWR PRESSURE | (32) AMPERES | (33) KILOWATTS & KWH DEMAND | (34) CHW FMS GPM | (35) CDW FMS GPM | (36) INLET PRESSURE | (37) OUTLET PRESSURE | (38) GPD DEMAND | (39) ROOM TEMPERATURE | (40) SA TEMPERATURE | (41) RA TEMPERATURE | (42) OA WB TEMPERATURE | (43) OA DB TEMPERATURE | (44) FMS (TURBINE) | (45) RELATIVE HUMIDITY % | (46) STATIC PRESSURE | (47) OA AIR FLOW STATION | (48) CHW VALVE INPUT | (49) EMERGENCY PUSH-BUTTON | (50) ULTRAVIOLET LIGHT | (51) REFRIGERANT LEAK SYSTEM | (52) DIFFERENTIAL PRESSURE SENSOR W/ GAUGE | (54) CHW PUMP | (55) | (56) | (57) | (58) RUN TIME TOTALIZER | (59) | (60) | (61) VARIABLE FREQUENCY DRIVE |
|---|---|---

GENERAL NOTES:

1. CONSTRUCTION DOCUMENTS CONSIST OF DESIGN DRAWINGS (DWG) AND WRITTEN SPECIFICATIONS (SPEC). WHEREVER DISCREPANCIES OR CONFLICTS ARE FOUND BETWEEN DWG AND SPEC, THE MORE STRINGENT REQUIREMENTS/CRITERIA SHALL GOVERN.
2. ALL WORK SHOWN ON THESE DRAWINGS ARE NEW UNLESS OTHERWISE NOTED.
3. PRIOR TO ORDERING MATERIALS AND PROCURING EQUIPMENT, SUCCESSFUL BIDDER (CONTRACTOR) SHALL BE REQUIRED TO VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO EQUIPMENT, MATERIALS, SIZES, DIMENSIONS, INVERTS, AND VOLTAGES THAT AFFECT HIS WORK. SUBMIT A LETTER TO THE ENGINEER CONFIRMING THAT THIS WAS DONE. IF WRITTEN CONFIRMATION IS NOT RECEIVED BY THE ENGINEER, SHOP DRAWINGS AND OTHER SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. SHOW ALL DISCREPANCIES ON SHOP DRAWINGS AND NOTIFY THE CONTRACTING OFFICER IN WRITING OF SUCH DISCREPANCIES PRIOR TO PROCUREMENT.
4. ALL UTILITIES AND APPURTENANCES SHALL BE PROTECTED AT ALL TIMES DURING CONSTRUCTION, AND IF DAMAGED, SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE.
5. THIS CONTRACT REQUIRES THE PLUMBING, FIRE PROTECTION, EMCS AND MECHANICAL SUBCONTRACTORS TO CAREFULLY COORDINATE THEIR WORK WITH EACH OTHER, THE GENERAL CONTRACTOR AND OTHER TRADES. PRIORITY SHALL BE GIVEN IN THE FOLLOWING ORDER:
   A. GRAVITY FLOW: SEWER, STORM DRAIN, DOWNSPOUT AND CONDENSATE DRAIN PIPING.
   B. EQUIPMENT AND DUCTWORK.
   C. FORCED AND PRESSURE PIPING SUCH AS WATER AND FIRE SPRINKLER PIPING.
6. ALL UNDERGROUND PRESSURE PIPING WITH MECHANICAL JOINTS SHALL HAVE CONCRETE REACTION BLOCKS AT ALL ELBOWS, TEES AND DEAD END PLUGS.
7. CONTRACTOR SHALL PROVIDE DIELECTRIC UNIONS AT CONNECTION POINTS FOR PIPING OF DISSIMILAR METALS.
8. FOR ALL FLOOR, WALL PARTITION, CEILING AND ROOF PENETRATIONS, SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
9. ALL PENETRATIONS OF REQUIRED FIRE RATED WALLS, PARTITIONS AND FLOORS SHALL BE PROVIDED WITH FIRE STOPPING MATERIAL PER IBC.
10. ALL PIPING IN EQUIPMENT ROOMS THAT ARE CONNECTED TO EQUIPMENT ON VIBRATION ISOLATOR SHALL BE SUPPORTED WITH SPRING HANGERS.
11. NO CUTTING OR DRILLING OF ANY STRUCTURAL MEMBERS WILL BE PERMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
12. ALL FASTENERS, SUPPORTS, PIPE HANGERS, SPRING ISOLATORS, AND MISCELLANEOUS STEEL ITEMS INCLUDING BUT NOT LIMITED TO BOLTS, NUTS, SCREWS, RODS, PLATES, AND ANGLES, ETC. SHALL BE GALVANIZED UNLESS OTHERWISE NOTED OR SPECIFIED.
13. PAINT ALL EXPOSED PIPING TO MATCH SURROUNDING COLOR. PROVIDE ESCUTCHEONS WHERE ALL EXPOSED PIPING PENETRATES FINISHED WALLS AND CEILINGS.
14. DEVICES THAT REQUIRE SERVICE CLEARANCE INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING: FIRE EXTINGUISHERS, FIRE DAMPERS, SMOKE DAMPERS, PRESSURE SENSORS, SMOKE DETECTORS, VALVES, ETC. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS TO CAREFULLY PLAN AND COORDINATE THE WORK OF ALL TRADES TO PROVIDE THE REQUIRED SERVICE CLEARANCES FOR THESE DEVICES. PROVIDE ACCESS PANELS TO CONCEALED SPACES (WHETHER SHOWN ON THE PLANS OR NOT) TO ALLOW ACCESS. PROVIDE FIRE RATED ACCESS PANELS AS REQUIRED. COORDINATE TYPE OF ACCESS PANEL WITH WALL OR CEILING CONTRACTOR. DO NOT BLOCK ACCESS BY INSTALLING EQUIPMENT, DUCTWORK, SPRINKLERS, PIPING, CABLE TRAYS, CONDUITS, ETC., DIRECTLY BELOW SUCH DEVICES OR DIRECTLY ABOVE ACCESS PANELS. INSTALLATION SHALL PROVIDE SERVICE CLEARANCE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (BUT NOT LESS THAN 24") IN FRONT OF SUCH DEVICES. ACCESS PANELS SHALL BE 30"x30" MINIMUM UNLESS OTHERWISE NOTED.

FIRE PROTECTION NOTES:

1. TWO (2) SETS OF COMPLETE WORKING PLANS AND HYDRAULIC CALCULATIONS STAMPED AND SIGNED BY A HAWAII LICENSED MECHANICAL ENGINEER SHALL BE SUBMITTED TO THE FIRE PROTECTION SPECIAL INSPECTOR (FPSI) FOR CODE COMPLIANCE REVIEW. ONE (1) SET WITH THE FPSI APPROVAL STAMP SHALL BE SUBMITTED TO THE DPP BUILDING DIVISION ALONG WITH THE FPSI FINAL REPORT/LETTER PRIOR TO CLOSING OF THE BUILDING PERMIT.
2. PROVIDE COMPLETE WET PIPE FIRE SPRINKLER PROTECTION FOR ENTIRE BUILDING PER NFPA 13 AND IBC, INCLUDING EXPOSED OR FINISHED CEILING SPACE, OCCUPIED OR UNOCCUPIED ROOM.
3. OCCUPANCY HAZARD CLASSIFICATION SHALL BE IN ACCORDANCE WITH NFPA 13.
4. SITE WATER DATA:

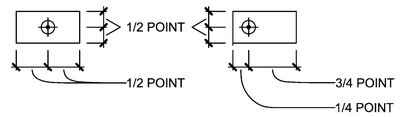
   STATIC PRESSURE = 75 PSI
   RESIDUAL PRESSURE = 50 PSI
   FLOW = 1378 GPM @ 20 PSI
5. SITE WATER PRESSURE IS MARGINAL. THE CONTRACTOR IS REQUIRED TO PROVIDE A LOOPED FIRE SPRINKLER PIPING SYSTEM ON ALL FLOORS WITH ADEQUATE PIPE SIZES TO ENSURE CODE REQUIRED MINIMUM PRESSURES AND FLOW PLUS 10% SAFETY FACTOR CAN BE ACHIEVED. PIPE SIZES INDICATED ON THE DRAWINGS ARE SUGGESTED MINIMUM SIZES ONLY.
6. FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR AND PLUMBING CONTRACTOR AND OFFSET PIPING TO FIT WORK FROM ALL DISCIPLINES IN SPACE AVAILABLE.
7. FIRE SPRINKLER HEADS AND PIPING INDICATED ON FLOOR PLANS ARE INTENDED TO SHOW GENERAL ROUTING OF PIPING AND TO PROVIDE CONTROL OF CEILING APPEARANCE. THEY SHOULD NOT BE INTERPRETED TO MEAN COMPLETE LAYOUT OF SPRINKLER SYSTEM. FIRE SPRINKLER HEAD LOCATIONS SHALL NOT BE ALTERED EXCEPT WITH THE APPROVAL OF THE ARCHITECT AND ENGINEER.
8. WHERE FIRE SPRINKLER HEADS ARE NOT SHOWN, THE CONTRACTOR SHALL DESIGN AND INSTALL A COMPLETE LAYOUT OF FIRE SPRINKLER HEADS TO PROVIDE AN EFFICIENT LAYOUT AND COVERAGE.
9. IF GLASS PARTITION IS USED IN LIEU OF ONE-HOUR RATED PARTITION, QUICK RESPONSE FIRE SPRINKLER HEADS AT 6 FEET ON CENTER ARE REQUIRED AT BOTH SIDES OF THE GLASS PARTITION TO MAINTAIN THE ONE-HOUR RATING. GLASS SHALL BE TEMPERED TYPE.
10. ALL FIRE SPRINKLER CONTROL VALVES AND WATER FLOW SWITCHES, SHALL BE ELECTRICALLY SUPERVISED IN ACCORDANCE WITH THE 2018 IBC.
11. FIRE SPRINKLER SYSTEM ALARMS SHALL BE SUPERVISED, CONFORMING TO 2018 IBC.
12. WHEN VALVES ARE INSTALLED IN A HORIZONTAL POSITION, VALVE STEM SHALL BE INSTALLED IN AN UPRIGHT POSITION. IF THIS IS NOT POSSIBLE BECAUSE OF SPACE AND HEADROOM CONSTRAINTS, VALVE STEM SHALL BE INSTALLED IN AN INCLINED POSITION ABOVE THE HORIZONTAL CENTERLINE OF THE PIPE.
13. BUTTERFLY VALVES MAY BE USED INSTEAD OF OUTSIDE SCREW AND YOKE GATE VALVES WHERE PERMITTED BY NFPA.
14. SOLENOID VALVES AND LOCAL ALARMS SHALL BE SUITABLE FOR 120 VOLTS, SINGLE PHASE.
15. EXPOSED PIPING SHALL PROVIDE MAXIMUM HEADROOM CLEARANCE. OFFSET SHALL BE PROVIDED TO ACHIEVE MAXIMUM HEADROOM CLEARANCE.
16. ALL HEAT AND SMOKE DETECTORS SHALL BE PROVIDED BY A SEPARATE FIRE ALARM SYSTEM CONTRACTOR, SEE ELECTRICAL SPECIFICATION SECTION.
17. PROVIDE SEISMIC PROTECTION FOR PIPING TO PREVENT DAMAGE FROM EARTHQUAKES PER BUILDING CODE.
18. BOTTOM OF FIRE EXTINGUISHER CABINETS SHALL BE INSTALLED AT 26.5" ABOVE THE FINISHED FLOOR; SEE PLANS FOR LOCATIONS.
29. PROVIDE SPARE SPRINKLER HEADS, PROPER STOPPERS, AND SPECIAL SPRINKLER WRENCH STORED IN A METAL CABINET IN THE MECHANICAL ROOM. THE SPRINKLER SHALL BE KEPT IN A CABINET LOCATED WHERE THE TEMPERATURE IN WHICH THEY ARE SUBJECTED WILL AT NO TIME EXCEED 100°F. THE STOCK OF SPARE SPRINKLERS SHALL INCLUDE ALL TYPES AND RATINGS INSTALLED AND SHALL BE AS FOLLOWS:
   A. FOR PROTECTED FACILITIES HAVING 1 TO 300 SPRINKLERS - NO FEWER THAN 6 SPRINKLERS.
   B. FOR PROTECTED FACILITIES HAVING UNDER 300 TO 1000 SPRINKLERS - NO FEWER THAN 12 SPRINKLERS.
   C. FOR PROTECTED FACILITIES HAVING 301 TO 1000 SPRINKLERS - NO FEWER THAN 24 SPRINKLERS.
   D. A SPECIAL SPRINKLER WRENCH SHALL BE PROVIDED AND KEPT IN THE CABINET TO BE USED IN THE REMOVAL AND INSTALLATION OF SPRINKLERS. ONE SPRINKLER WRENCH SHALL BE PROVIDED FOR EACH TYPE OF SPRINKLER INSTALLED.

FIRE PROTECTION LEGEND

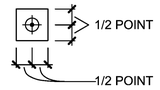
ACV	ALARM CHECK VALVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AG	ABOVEGROUND
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
BV	BUTTERFLY VALVE
	CONCEALED PENDENT FIRE SPRINKLER HEAD
CONN	CONNECT OR CONNECTION
CONT	CONTINUATION
CV	CHECK VALVE
DN	DOWN
	EXPOSED PENDENT FIRE SPRINKLER HEAD WITH WATER SHIELD
FRD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC-R	FIRE EXTINGUISHER CABINET - RECESSED
FEC-S	FIRE EXTINGUISHER CABINET - SURFACE MOUNT
FEC-SR	FIRE EXTINGUISHER CABINET - SEMI-RECESSED
FRD	FIRE DAMPER
F/SD	FIRE/SMOKE DAMPER
FL SW	FLOW SWITCH
FLXC	FLEXIBLE CONNECTOR
FSPK	FIRE SPRINKLER
GC	GENERAL CONTRACTOR
HVLS	HIGH VOLUME LOW SPEED FANS
OS&Y GV	OUTSIDE SCREW & YOKE GATE VALVE
OS & Y	OUTSIDE SCREW AND YOKE
PG	PRESSURE GAUGE
POC	POINT OF CONNECTION
PS	PRESSURE SENSOR/PRESSURE SWITCH
REL D	RELIEF DRAIN
STR	STRAINER
SV	SOLENOID VALVE
SW	SWITCH
TERM	TERMINATE
TS	TEMPERATURE SENSOR/TAMPER SWITCH
	UPRIGHT FIRE SPRINKLER HEAD
UG	UNDERGROUND

SPRINKLER HEAD PLACEMENT ON CEILING TILE

1. 2' x 4' CEILING TILE:



2. 2' x 2' CEILING TILE:



MEH CORP
MECHANICAL ENGINEERS OF HAWAII CORP.
50 S. BERETANIA STREET, SUITE C-208A
HONOLULU HAWAII 96813-2222
PHONE: 521-8981 FACSIMILE: 536-5457

REVISIONS

#	Date	Description

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KYLE T. Y. CHENG
LICENSED PROFESSIONAL ENGINEER
No. 13747-M
HAWAII, U.S.A.

4/30/2026
License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_PLUMBING AND FIRE_CENTRAL.rvt

SHEET NAME
GENERAL NOTES, FIRE PROTECTION NOTES, AND FIRE PROTECTION LEGEND

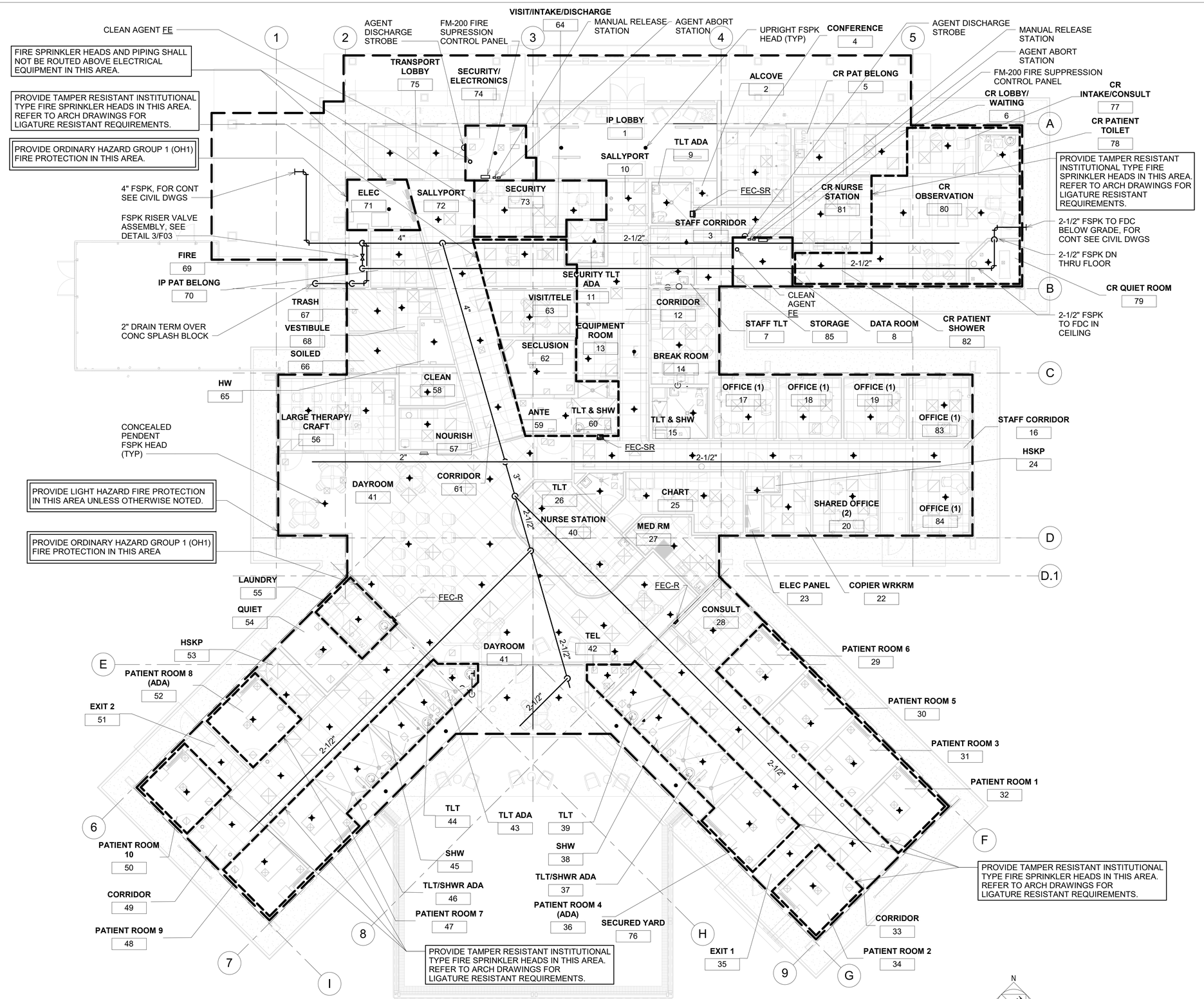
SCALE:

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KP	KC

PROJECT NO.	SHEET NO.
221093-01	F001

SHEET ISSUE DATE
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1 FIRE PROTECTION FLOOR PLAN
SCALE: 1/8" = 1'-0"

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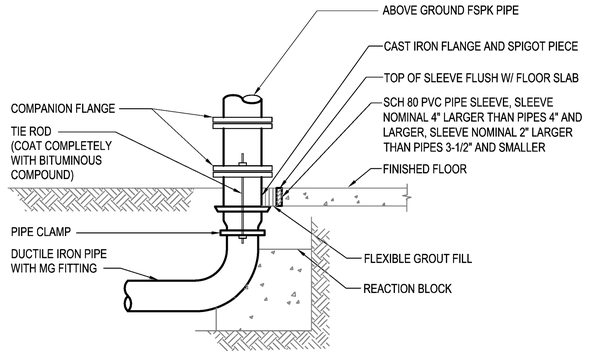
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_PLUMBING AND FIRE_CENTRAL.rvt

SHEET NAME
FIRE PROTECTION FLOOR PLAN

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

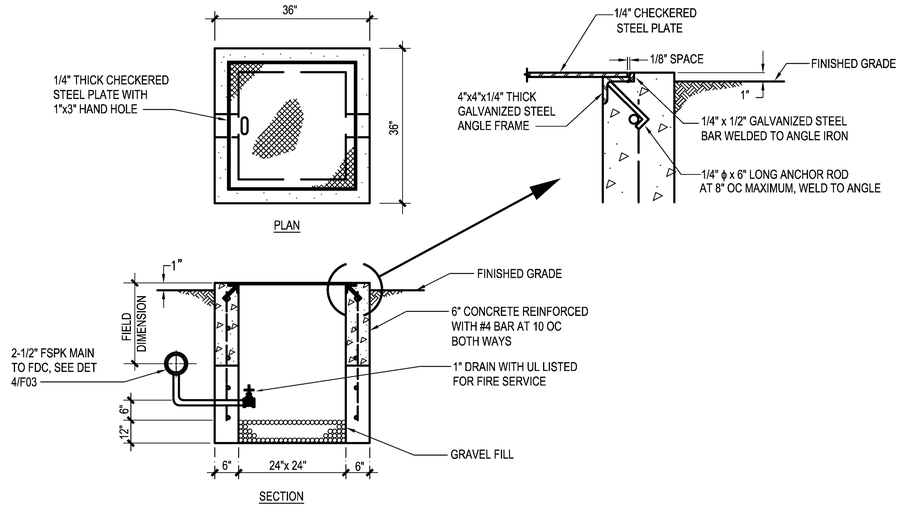
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221093-01	F101
SHEET ISSUE DATE	
02/27/2026	

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1 TYPICAL CONNECTION DETAIL FOR UNDERGROUND TO ABOVEGROUND PIPING

NOT TO SCALE

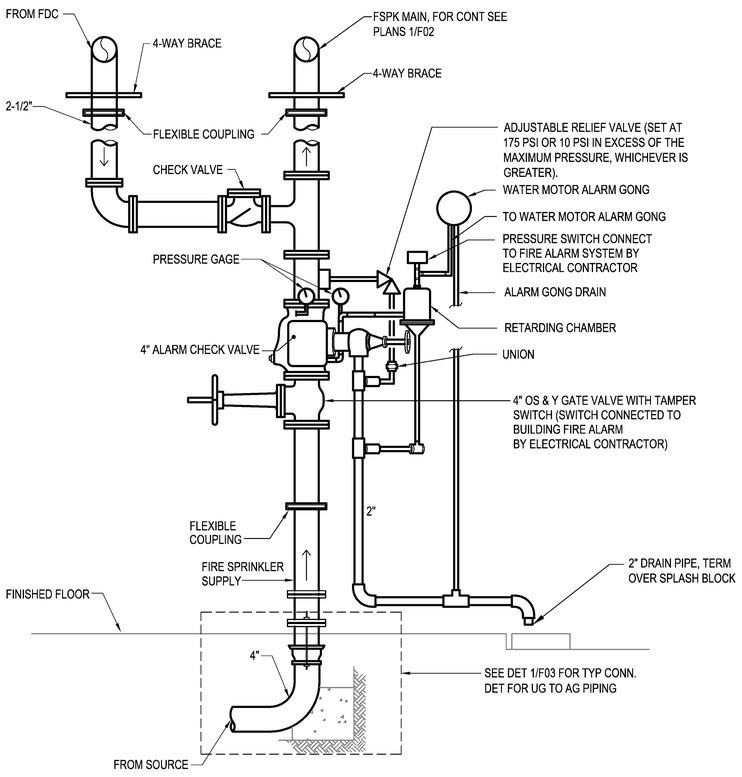


NOTE:

STEEL PLATE COVER AND FRAME SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

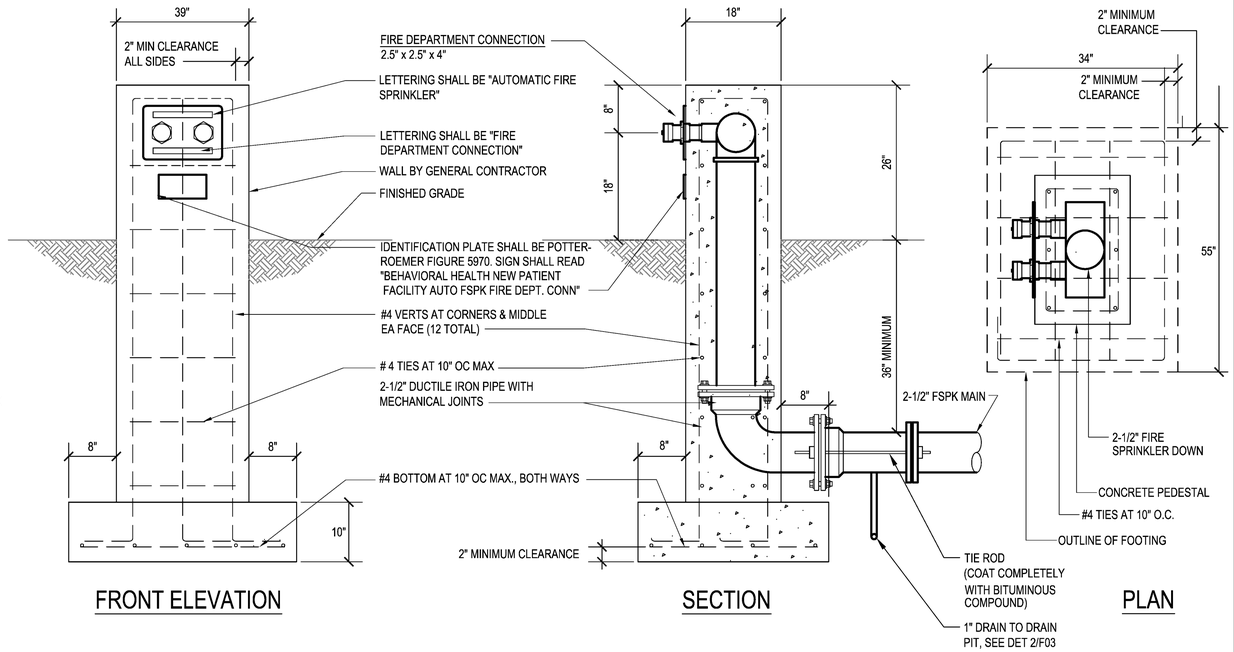
2 FIRE DEPT CONNECTION DRAIN PIT DETAIL

NOT TO SCALE



3 FIRE SPRINKLER ALARM CHECK VALVE ASSEMBLY DETAIL

NOT TO SCALE



4 FIRE DEPT CONNECTION DETAIL

NOT TO SCALE

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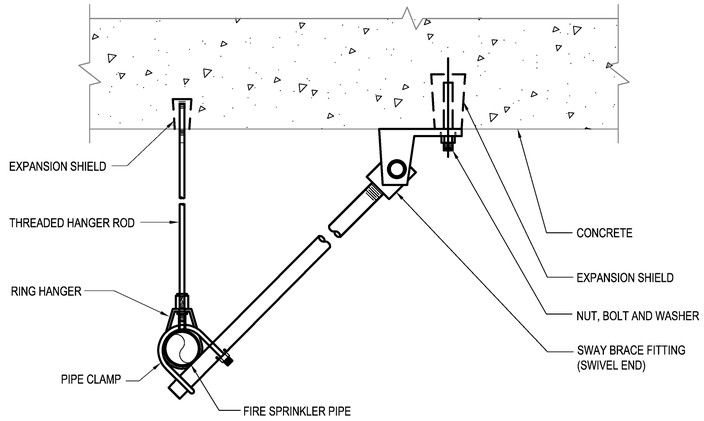
SHEET NAME

FIRE PROTECTION DETAILS

SCALE:

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PROJECT NO.	SHEET NO.
221093-01	F501
SHEET ISSUE DATE	
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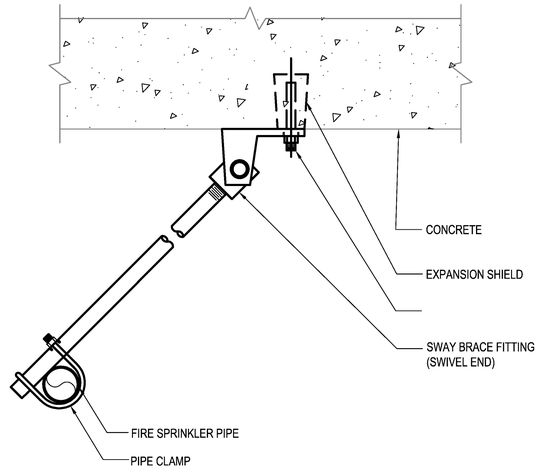


NOTE:

SWAY BRACING COMPONENTS, SIZING AND SPACING SHALL BE IN ACCORDANCE WITH NFPA 13.

1 TYPICAL LATERAL SWAY BRACE DETAIL

NOT TO SCALE

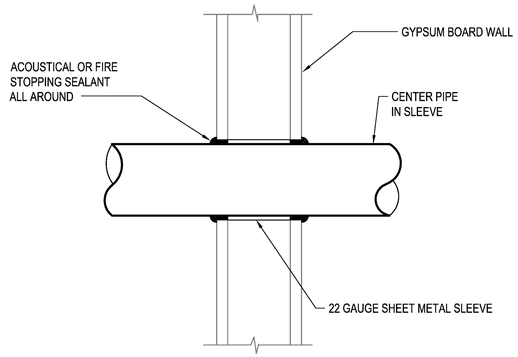


NOTE:

SWAY BRACING COMPONENTS, SIZING AND SPACING SHALL BE IN ACCORDANCE WITH NFPA 13.

2 TYPICAL LATERAL SWAY BRACE DETAIL

NOT TO SCALE

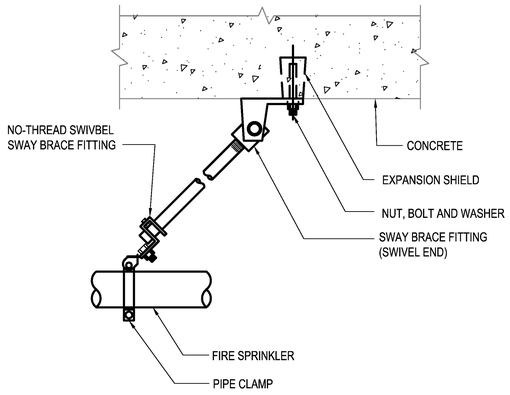


NOTES:

1. PIPE PENETRATION THRU FIRE RATED WALL SIMILAR.
2. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIRE RATED WALLS FOR FIRE STOPPING SEALANT.

3 TYPICAL PIPE THRU DRYWALL DETAIL

NOT TO SCALE

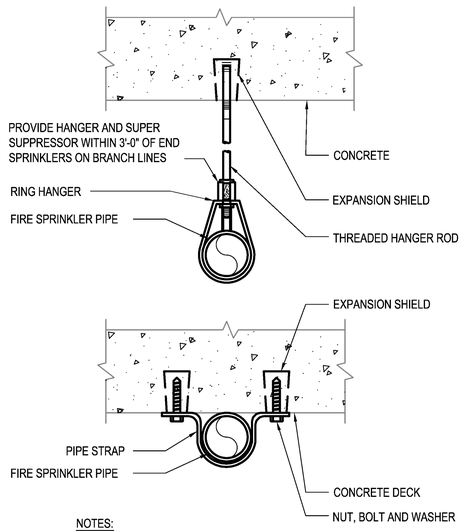


NOTE:

SWAY BRACING COMPONENTS, SIZING AND SPACING SHALL BE IN ACCORDANCE WITH NFPA 13.

4 TYPICAL LONGITUDINAL SWAY BRACE DETAIL

NOT TO SCALE

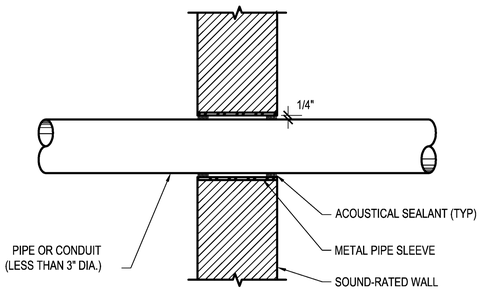


NOTES:

1. PIPE HANGER, PIPE STRAP SIZING, AND SPACING SHALL BE IN ACCORDANCE WITH NFPA 13.
2. THE END SPRINKLER ON THE BRANCH LINE SHALL BE RESTRAINED IN ACCORDANCE WITH NFPA 13.

5 TYPICAL HANGER DETAIL

NOT TO SCALE



6 TYPICAL PIPE OR CONDUIT PENETRATION THRU SOUND-RATED WALL DETAIL

NOT TO SCALE

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TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_PLUMBING AND FIRE_CENTRAL.rvt

SHEET NAME
FIRE PROTECTION DETAILS

SCALE:

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KP	KC
PROJECT NO.	SHEET NO.
221093-01	F502
SHEET ISSUE DATE	
02/27/2026	

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FM-200 NOTES:

1. FM-200 PROTECTION AREA (TELECOM AND GENERATOR ROOM): ALL WALLS SHALL BE AIRTIGHT AND EXTEND FROM FINSHED FLOOR TO THE UNDERSIDE OF CEILING.
2. TELECOM AND GENERATOR ROOM: ALL DOOR GAPS BETWEEN THE DOOR, JAMBS, HEADS SHALL BE SEALEAD WITH GASKET ALL AROUND.
3. THE FIRE SUPPRESSION CONTROL PANEL SHALL PROVIDE OUTPUTS FOR GENERAL ALARM AND GENERAL TROUBLE TO THE BUILDING FIRE ALARM SYSTEM (BY ELECTRICAL).
4. THE FIRE SUPPRESSION SYSTEMS SHALL BE DESIGNED AND INSTALLED PER 2008 NFPA 70 & 72 AND MANUFACTURER'S GUIDELINES.
5. THE FIRE SUPPRESSION SYSTEM CONTROL PANEL SHALL PROVIDE SUFFICIENT BATTERY BACKUP TO SUSTAIN 24 HOURS OF STANDBY AND 5 MINUTES OF ALARM OPERATION.
6. ALL DEVICES SHALL BE MOUNTED PER NFPA 72.
   a. THE LOCATION AND SPACING OF ALL SMOKE DETECTORS SHALL BE DETERMINED UPON THE EVALUATION OF THE HAZARD CONDITIONS.
   b. ALL SMOKE DETECTORS SHALL BE LOCATED NO CLOSER THAN THREE (3) FEET FROM ANY AIR REGISTER.
   c. MOUNT RELEASE STATION AND MANUAL ABORT STATIONS 48 INCHES TO THE TOP OF THE DEVICE ABOVE THE FINISHED FLOOR.
   d. MOUNT HORN/STROBE DEVICE MIN 80 INCHES TO THE BOTTOM OF THE DEVICE ABOVE THE FINISHED FLOOR.
   e. MOUNT DISCHARGE STROBE OUTSIDE THE PROTECTED AREA ABOVE THE DOORWAY THAT ENTERS THE PROTECTED AREA.
   f. MOUNT FIRST ALARM BELL DEVICE 80 INCHES TO THE BOTTOM OF THE DEVICE ABOVE THE FINISHED FLOOR.
7. THE DISCHARGE TIME OF THE FM-200 SYSTEM SHALL BE 10 SECONDS OR LESS. THE PROTECTED VOLUME SHALL BE TOTALLY FLOODED AT A MINIMUM 7% CONCENTRATION FACTOR. THE PROTECTED AREA SHALL MAINTAIN A MINIMUM 7% CONCENTRATION FOR A MINIMUM PERIOD OF 10 MINUTES.
8. ALL DOORS WITHIN THE PROTECTED AREA SHALL BE PROVIDED WITH DOOR CLOSURES, DOOR SEALS AND DOOR SWEEPS TO MAINTAIN A PROPER FM-200 CONCENTRATION LEVEL AND PREVENT LEAKAGE OF AGENT.
9. UPON THE COMPLETION OF THE SYSTEM INSTALLATION A COMPLETE FUNCTIONAL TEST OF EACH SYSTEM SHALL BE PERFORMED PRIOR TO THE FINAL INSPECTION BY THE AUTHORITY HAVING JURISDICTION, TO ENSURE PROPER OPERATION OF EACH SYSTEM.
10. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL TESTING WITH THE LOCAL A.H.J., STATE DESIGNATED REPRESENTATIVES AND ANY ASSOCIATED CONTRACTORS.
11. MOTORIZED VOLUME DAMPERS AT THE INTAKE AND DISCHARGE LOUVERS SHALL INTERFACE WITH THE FM-200 FIRE SUPPRESSION CONTROL PANEL. MOTORIZED DAMPERS SHALL CLOSE AND THE GENERATOR SHALL BE SHUT DOWN WHEN 2 SMOKE DETECTORS AND/OR MANUAL RELEASE STATION IN THE GENERATOR ROOM ARE IN ALARM.

FM-200 SEQUENCE OF OPERATIONS

OUTPUTS AND CONTROLS / INPUTS AND ACTIONS	SINGLE SMOKE DETECTOR IN ALARM	TWO SMOKE DETECTOR IN ALARM	EXPIRATION OF THE TIME DELAY	MANUAL RELEASE STATION	ABORT STATION	TROUBLE	BATTERY FAULT	OPEN CIRCUIT FAULT	LOSS OF PRIMARY POWER
SLOW PULSE HORN / STROBE IN THE PROTECTED SPACE	●								
FAST PULSE HORN / STROBE IN THE PROTECTED SPACE		●		●					
ACTIVE DISCHARGE STROBE OUTSIDE THE PROTECTED SPACE			●	●					
ILLUMINATE LED ON THE SMOKE DETECTOR	●	●							
ACTIVATE 10 SEC. TIME DELAY				●					
ACTIVATE 30 SEC. TIME DELAY		●							
HOLD THE AGENT RELEASE UNTIL THE ABORT IS RELEASED					●				
RELEASE THE AGENT INTO THE PROTECTED AREA			●						
SHUT DOWN HVAC SYSTEM AND TECHANICAL POWER IN THE AREA		●		●					
SEND ALARM SIGNAL TO MAIN BUILDING FIRE ALARM PANEL	●	●		●					
SEND TROUBLE SIGNAL TO MAIN BUILDING ALARM PANEL					●	●	●	●	●

NOTES:
1. ROOM LIGHT SHALL REMAIN ON.
2. INTERRUPTION OF TIME DELAY OCCURS ONLY FOR THE SMOKE DETECTOR ACTIVATION SEQUENCE.
3. INTERRUPTION OF TIME DELAY NOT PERMITTED FOR THE MANUAL RELEASE STATION ACTIVATION SEQUENCE.

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TMK#: 4-6-014:113

FILENAME
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SHEET NAME
FM-200 NOTES AND SEQUENCE OF OPERATIONS

SCALE:

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PROJECT NO.	SHEET NO.
221093-01	**F503**
SHEET ISSUE DATE	
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ABBREVIATIONS

AFF	DENOTES "ABOVE FINISH FLOOR"
BKBD	DENOTES "BACKBOARD"
CKT BKR	DENOTES "CIRCUIT BREAKER"
DISC SW	DENOTES "DISCONNECT SWITCH"
ELEC	DENOTES "ELECTRICAL"
FACP	DENOTES "FIRE ALARM CONTROL PANEL"
GND	DENOTES "GROUND"
HH	DENOTES "HANDHOLE"
JB	DENOTES "JUNCTION BOX"
MTD	DENOTES "MOUNTED"
NL	DENOTES "NIGHT LIGHT"
PA	DENOTES "PUBLIC ADDRESS SYSTEM"
TELECOM	DENOTES "TELECOMMUNICATIONS"
TP	DENOTES "TAMPERPROOF"
TYP	DENOTES "TYPICAL"
WP	DENOTES "WEATHERPROOF"
XFMR	DENOTES "TRANSFORMER"

PANEL LEGEND:

PANEL 4A1

- PANEL ID NUMBER
- PANEL LOCATION ON FLOOR
- SERVICE VOLTAGE

SERVICE VOLTAGE:

4 – 480Y/277V, 3ø, 4W
2 – 208Y/120V, 3ø, 4W

GENERAL NOTES

1. PLANS DO NOT INDICATE COMPLETE EXISTING ELECTRICAL CONDITIONS. VISIT JOBSITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXTENT OF WORK PRIOR TO THE START OF WORK. REPORT ANY DISCREPANCIES AND/OR DIFFERENCE IN DRAWINGS, IN RESPECT TO EXISTING CONDITION, TO THE ENGINEER.
2. ALL SCHEDULED ELECTRICAL OUTAGES SHALL BE APPROVED BY THE OWNER. THE CONTRACTOR SHALL SUBMIT REQUESTS TO THE OWNER A MINIMUM 15 DAYS PRIOR TO THE OUTAGE. ALL TELECOM AND FIRE ALARM SYSTEM OUTAGES SHALL BE COORDINATED AND APPROVED BY THE OWNER. OUTAGES SHALL BE SCHEDULED AND LIMITED PER THE OWNER'S REQUIREMENTS.
3. BEFORE ANY ELECTRICAL WIRING IS CUT, VERIFY USAGE OF WIRING TO ENSURE THAT REQUIRED SERVICES ARE NOT DISCONTINUED.
4. WHERE POSSIBLE CONCEAL ALL RACEWAYS IN WALLS, ABOVE CEILINGS, OR IN CABINETS. WHERE RACEWAYS ARE EXPOSED, PAINT RACEWAYS AND BOXES TO MATCH ADJACENT FINISH.
5. SUBCONTRACTORS SHALL COORDINATE AND COOPERATE WITH THE GENERAL CONTRACTOR TO VERIFY CLEAR MAINTENANCE ACCESS SPACE TO ALL EQUIPMENT INCLUDING AIR HANDLING UNITS, FAN COIL UNITS, EXHAUST FANS, SUPPLY FANS, VARIABLE AIR VOLUME BOXES, AIR VALVES, ETC. AND PROVIDE INFORMATION TO COMPILE A SINGLE SET OF DRAWINGS SHOWING THESE ACCESS REQUIREMENTS. THE COMPILED DRAWINGS SHALL BE COORDINATED AND INCORPORATED IN A 3D MODEL BY THE GENERAL CONTRACTOR AND INCLUDE ALL MECHANICAL EQUIPMENT, LIGHT FIXTURES, ELECTRICAL CONDUITS, FIRE ALARM CONDUITS, TELECOM CONDUITS, JUNCTION BOXES, PIPING, FIRE SPRINKLER HEADS, CABLE TRAYS, ETC. NO NEW WORK SHALL COMMENCE UNTIL APPROVAL OF THIS SHOP DRAWING IS PROVIDED.
6. ELECTRICAL RECEPTACLES AND TELECOMMUNICATIONS OUTLETS SHALL BE INSTALLLED VERTICALLY WITH THE EXCEPTION OF ABOVE COUNTER RECEPTACLES AND OUTLETS WHICH SHALL BE INSTALLED HORIZONTALLY.
7. ELECTRICAL RECEPTACLES SHALL BE COLOR CODED TO DESIGNATE RECEPTACLES CONNECTED TO NORMAL OR EMERGENCY POWER. THE COLOR CODE SHALL BE:

   NORMAL (EMERGENCY): WHITE BODY/STAINLESS STEEL FACEPLATE

   OCCUPANCY SENSOR CONTROLLED: GRAY BODY/STAINLESS STEEL FACEPLATE
8. ESTABLISH FINISH ELEVATIONS OF ALL EXTERIOR UTILITY STRUCTURES, FRAMES AND COVERS WITHIN ACCESSIBLE ROUTES SUCH THAT THEY WILL BE FLUSH WITH THE SURFACE OF THE ADJACENT ACCESSIBLE ROUTE WHEN WORK IS COMPLETED.
9. MODIFICATIONS TO ARCHITECTURAL ELEMENTS TO INSTALL ELECTRICAL ITEMS INCLUDING BUT NOT LIMITED TO WALL SURFACES, ACOUSTICAL CEILING TILES, SECURE CEILING SYSTEMS, AND FLOORING SYSTEMS SHALL BE BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE NECESSARY MODIFICATIONS WITH THE APPLICABLE TRADES TO COMPLETE THE NECESSARY MODIFICATIONS.

ELECTRICAL SYMBOLS

EXIST SYMBOL	NEW SYMBOL	DESCRIPTION
		ELECTRICAL PANELBOARD
		EQUIPMENT DISCONNECT SWITCH
		SINGLE RECEPTACLE, WALL MTD +18" OR AS NOTED
	TP	DUPLEX RECEPTACLE, WALL MTD +18" OR AS NOTED. "TP" DENOTES TAMPERPROOF DEVICE
		RANGE RECEPTACLE, NEMA 14-50R, WALL MTD +18" OR AS NOTED
		DUPLEX RECEPTACLE, OCCUPANCY SENSOR CONTROLLED, WALL MTD +18" OR AS NOTED
		QUAD RECEPTACLE, WALL MTD +18" OR AS NOTED.
		DUPLEX RECEPTACLE, GFI TYPE, WALL MTD +18" OR AS NOTED
		SPECIAL PURPOSE RECEPTACLE, RATING AS NOTED, WALL MTD +18" OR AS NOTED
		DUPLEX RECEPTACLE, CEILING MTD
		ELECTRICAL EQUIPMENT CONNECTION
	J	JUNCTION BOX, 4" SQ MIN., WALL/CEILING MTD RESPECTIVELY
		TELECOMMUNICATIONS OUTLET W/3 RJ-45 DATA JACKS, WALL MTD +18" OR AS NOTED
		COMBINATION DUPLEX RECEPTACLE/TELECOMMUNICATIONS OUTLET, FLOOR MTD
	V	VIDEO OUTLET, JACKS AS INDICATED, WALL MTD +18" OR AS NOTED
	W	TELECOMMUNICATIONS WIRELESS ACCESS POINT, MTD ABOVE CEILING
		FIRE ALARM CONTROL PANEL
	F	FIRE ALARM AUDIBLE/VISUAL SIGNALING DEVICE, WALL MTD +84" OR AS NOTED
	F	FIRE ALARM VISUAL SIGNALING DEVICE, WALL MTD +84" OR AS NOTED
	F	FIRE ALARM PULLSTATION, WALL MTD +46" OR AS NOTED
	F	FIRE ALARM AUDIBLE/VISUAL SIGNALING DEVICE, CEILING MTD
	F	FIRE ALARM VISUAL SIGNALING DEVICE, CEILING MTD
	S	FIRE ALARM SMOKE DETECTOR, CEILING MTD
	D	FIRE ALARM DUCT SMOKE DETECTOR, CEILING MTD
	H	FIRE ALARM HEAT DETECTOR, CEILING MTD
	FS	FIRE ALARM FLOW SWITCH CONNECTION
	FD	FIRE ALARM CONNECTION FOR FIRE SMOKE DAMPER
	TS	FIRE ALARM TAMPER SWITCH CONNECTION
	FV	FIRE ALARM FLOOR CONTROL VALVE CONNECTION
	AR	FIRE ALARM ADDRESSABLE RELAY
	M	FIRE ALARM CONNECTION TO MAGNETIC DOOR HOLD DEVICE
		LED AREA LIGHT POLE W/MOUNTING ARM. SEE SHEET E501 FOR DETAIL.
	P	PUBLIC ADDRESS SYSTEM SPEAKER, CEILING MTD
	P	PUBLIC ADDRESS SYSTEM SPEAKER, WALL MTD
	A Z1	LINEAR LED FIXTURE, CEILING RECESSED. "A" DENOTES FIXTURE TYPE "A" INDICATED.
		"Z1" DENOTES FIXTURE CONNECTED TO LIGHTING CONTROL ZONE "Z1".
		ROUND LED DOWNLIGHT FIXTURE, CEILING RECESSED
		ROUND LED FIXTURE, CEILING SURFACE
		ROUND LED DOWNLIGHT FIXTURE, CEILING PENDANT MTD
		LED ILLUMINATED MIRROR, WALL RECESSED MTD
		LED DIRECT/INDIRECT FIXTURE, CEILING RECESSED
	$	LOW VOLTAGE LIGHTING CONTROL STATION, WALL MTD +48 TO TOP OR AS NOTED
		CONTROL STATION "a" INDICATED. SEE SHEET E-XXX FOR CONTROL DEVICE SCHEDULE.
	2 OS	OCCUPANCY SENSOR, CEILING MTD. SENSOR TYPE "2" INDICATED
	OS 1	COMBINATION OCCUPANCY SENSOR/SWITCH, WALL MTD +48" TO TOP OR AS NOTED.
		SENSOR TYPE "1" INDICATED.
	CP 1	LIGHTING CONTROL SYSTEM CONTROL PAD, WALL MTD +48" TO TOP OR AS NOTED.
		CONTROL PAD TYPE "1" INDICATED.
	CI	LIGHTING CONTROL LOW VOLTAGE CONTACT CLOSURE INTERFACE. WALL MTD IN OUTLET BOX
		BEHIND CONTROL PAD OR IN SEPARATE BOX ABOVE SUSPENDED CEILING.
	TS	LIGHTING CONTROL TOUCHSCREEN CONTROLLER. WALL MTD +48" TO TOP OR AS NOTED.
	SM	LIGHTING CONTROL SENSOR MODULE. MOUNTED ABOVE SUSPENDED CEILING.
	GW	LIGHTING CONTROL GATEWAY MODULE. GATEWAY "A" INDICATED. MTD ABOVE CEILING.
	I/	EXIT SIGN LIGHT. WALL/CEILING MTD RESPECTIVELY. SHADING INDICATES FACE.
		ARROW INDICATES DIRECTION.

EXIST SYMBOL	NEW SYMBOL	DESCRIPTION
		2'X4' ELECTRICAL PULLBOX
		FIRE ALARM PULLBOX. SEE SHEET E502 FOR DETAIL.
		LIGHTING PULLBOX. SEE SHEET E502 FOR DETAIL.
		TELECOMMUNICATIONS PULLBOX. SEE SHEET E502 FOR DETAIL.
		3'X5' HAWAIIAN TELCOM PRECAST CONCRETE HANDHOLE PER HTCO STD DWG NO 34110A.
e	a	STUB, CAP, & MARK CONDUIT(S) WITH CONCRETE STUB OUT MARKER.
e		CONDUIT CONCEALED IN SLAB OR BELOW GRADE
		CONDUIT CONCEALED IN WALL OR ABOVE CEILING. 3 WIRES INDICATED. NO HASHMARKS DENOTES 2 WIRES.
		EXPOSED CONDUIT
		HOMERUN TO ELECTRICAL PANELBOARD OR AS INDICATED
e	E	ELECTRICAL CONDUIT
t	T	TELECOMMUNICATIONS CONDUIT, 1" MIN
	F	FIRE ALARM CONDUIT
e/oh	E/OH	OVERHEAD UTILITY LINE
	EA TA 2-4E 2-4T	ELECTRICAL DUCTLINE WITH DUCT SECTION DESIGNATORS; ITEMS IN CIRCLE INDICATES DUCT SECTION TYPE; DUCT DESIGNATORS IN ADJACENT CIRCLES INDICATES DUCTS INSTALLED IN COMMON TRENCH AND COMBINED CONCRETE ENCASEMENT WITH REQUIRED DUCT SEPARATIONS; DUCT DESIGNATION CUT LINE INDICATES VIEW OF DUCT SECTION; SHOWN WITH DUCT COMPLEMENTS TYPE "EA" DUCT SECTION WITH 2-4"E DUCTS AND TYPE "TA" DUCT SECTION WITH 2-4"T DUCTS IN COMMON TRENCH AND CONCRETE ENCASEMENT (E=ELECTRIC, T=TELECOMMUNICATIONS, L=LIGHTING, F=FIRE ALARM). SEE SHEET E504 FOR DUCT SECTION DETAILS
	1	NOTE SYMBOL, SEE PLAN FOR NOTES
		TELECOMMUNICATIONS/SECURITY SYSTEM GROUNDING BUS BAR, WALL MTD

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REVISIONS

CD / BID SET

02/27/2026

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME

SHEET NAME

ELECTRICAL SYMBOLS

SCALE: NONE

DRAWN BY	CHECKED BY
CAD	BO
PROJECT NO. 221093-01	SHEET NO. **E001**
SHEET ISSUE DATE 02/27/2026	

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FIRE ALARM NOTES

1. INTERIOR FIRE ALARM CONDUCTORS SHALL BE COPPER, #14 AWG OR #18 TSP WITH THHN/THWN FLAME RETARDANT INSULATION.

2. FIRE ALARM CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

CIRCUIT TYPE	COLOR
ALARM INITIATING	RED (POSITIVE), BLACK (NEGATIVE)
ALARM NOTIFICATION	BROWN (POSITIVE), YELLOW (NEGATIVE)
DETECTOR POWER SUPPLY	VIOLET (POSITIVE), BLACK (NEGATIVE)
FIRE ALARM COMM	BLACK PVC JACKET

3. ELECTRICAL CONTRACTOR SHALL VERIFY WIRE AND CABLE COUNT WITH FIRE ALARM EQUIPMENT SUPPLIER AND ADJUST WIRE COUNT AT NO ADDITIONAL COST TO THE STATE.

4. AFTER INSTALLATION AND TESTING OF THE FIRE ALARM SYSTEM, PROVIDE COPIES OF THE AS-BUILT SYSTEM DRAWINGS, POINT-TO-POINT WIRING DIAGRAMS, FIRE ALARM CONTROL PANEL MODULAR WIRING DIAGRAM, SYSTEM OPERATION AND MAINTENANCE MANUALS TO THE ENGINEER FOR DISTRIBUTION TO THE FIRE DEPARTMENT AT LEAST 30 CALENDAR DAYS PRIOR TO FINAL ACCEPTANCE TESTING. SEE SPECIFICATIONS FOR DETAILS.

5. DESIGN STANDARDS – FIRE ALARM SYSTEMS, AUTOMATIC FIRE DETECTORS, EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS AND NOTIFICATION DEVICES SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH NFPA 70, NFPA 72, NATIONAL FIRE ALARM CODE, AND 2021 NFPA 1 SECTION 13.7.

6. MANUAL AND AUTOMATIC INITIATION OF ANY DEVICE WITHIN THE BUILDING SHALL SOUND A GENERAL ALARM THROUGHOUT THE BUILDING.

7. PROVIDE RESISTANCE/IMPEDANCE (IN OHMS) AND RATING (IN WATTS) FOR EACH END-OF-LINE DEVICE ON THE SYSTEM AS-BUILT DRAWINGS.

8. DEVICES WITH PIGTAILS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM WIRING WITH TWIST-ON TYPE WIRE CONNECTORS.

9. PROVIDE 2'-0" OF SLACK FOR EACH SPARE CONDUCTOR IN THE FIRE ALARM CONTROL PANEL.

10. PROVIDE WIRE MARKINGS FOR ALL FIRE ALARM CIRCUIT CONDUCTORS AT FIRE ALARM CONTROL PANEL, INITIATION DEVICE TERMINALS, TERMINAL BLOCKS, JUNCTION BOXES AND NOTIFYING APPLIANCE TERMINALS. CABLE MARKING SHALL BE LAMINATED VINYL TYPE WITH ADHESIVE BACKING. LABEL SHALL BE APPLIED 2" FROM THE END OF THE CONDUCTOR. COMPLY WITH ALL REQUIREMENTS OF THE NEC.

11. ALL VISUAL SIGNALING DEVICES IN THE SAME ROOM OR WITHIN VIEW OF ANOTHER VISUAL SIGNALING DEVICE IN THE SAME BUILDING SHALL BE SYNCHRONIZED PER ADAAG REQUIREMENTS.

12. PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE FIRESTOPPED USING AN APPROVED UL SYSTEM TO MAINTAIN THE FIRE RESISTANCE RATING.

13. PROVIDE SPARE DEVICES PER THE FOLLOWING:

    VISUAL SIGNALING DEVICES: 10% OF THE TOTAL NUMBER OF VISUAL SIGNALING DEVICES, MINIMUM OF ONE (1) DEVICE.

    AUDIO SIGNALING DEVICES: 5% OF THE TOTAL NUMBER OF AUDIO SIGNALING DEVICES, MINIMUM OF ONE (1) DEVICE.

    MANUAL PULLSTATIONS: 5% OF THE TOTAL NUMBER OF MANUAL PULLSTATIONS, MINIMUM OF ONE (1) STATION.

    DETECTORS: TWO (2) DETECTORS OF EACH TYPE.

14. AUDIBILITY – THE ALARM SIGNAL SHALL BE A DISTINCTIVE SOUND, WHICH IS NOT USED FOR ANY OTHER PURPOSE OTHER THAN THE FIRE ALARM. ALARM-SIGNALING DEVICES SHALL PRODUCE A SOUND THAT EXCEEDS THE PREVAILING EQUIVALENT SOUND LEVEL IN A ROOM OR SPACE BY 15 DECIBELS MINIMUM, OR EXCEEDS ANY MAXIMUM SOUND LEVEL WITH A DURATION OF 60 SECONDS MINIMUM BY 5 DECIBELS MINIMUM, WHICHEVER IS LOUDER. SOUND LEVELS FOR ALARM SIGNALS SHALL BE 110 DECIBELS MAXIMUM. 2021 NFPA 1, AMENDED.

15. APPROVAL & ACCEPTANCE – BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION. IF REQUIRED BY THE AHJ, THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT STATING THAT THE SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH APPROVED PLANS AND TESTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND THE APPROPRIATE NFPA REQUIREMENTS. [72:4.5.1.2].

16. THE RECORD OF COMPLETION FORM, FIGURE 4.5.2.1 OF NFPA 72, SHALL BE PERMITTED TO BE A PART OF THE WRITTEN STATEMENT REQUIRED IN 13.7.3.2.1.2. WHEN MORE THAN ONE CONTRACTOR HAS BEEN RESPONSIBLE FOR THE INSTALLATION, EACH CONTRACTOR SHALL COMPLETE THE PORTIONS OF THE FORM FOR WHICH THAT CONTRACTOR HAD RESPONSIBILITY.

17. FIRE ALARM SYSTEM PRE-TEST – THE CONTRACTOR SHALL CONDUCT A PRE-TEST OF THE EXISTING FIRE ALARM SYSTEM. THE CONTRACTOR SHALL DOCUMENT ALL DEFICIENCIES, ANY NON-FUNCTIONAL DEVICES, TROUBLE AND SUPERVISORY NOTIFICATIONS. IT SHALL BE ASSUMED THAT THE STATE SHALL ADDRESS THESE DEFICIENCIES PRIOR TO THE INSTALLATION OF THE NEW FIRE ALARM EQUIPMENT AND THE CONTRACTOR SHALL NOT BE HELD RESPONSIBLE FOR ADDRESSING DEFICIENCIES IDENTIFIED DURING THE PRE-TEST.

18. PRE-FINAL ACCEPTANCE TEST – THE CONTRACTOR SHALL ADMINISTER A PRE-FINAL FIRE ALARM SYSTEM TEST AND INSPECTION. THE TEST AND INSPECTION SHALL BE ARRANGED WITH THE STATE AND DEMONSTRATE THAT ALL THE CONTRACTOR INSTALLED FIRE ALARM SYSTEM EQUIPMENT, DEVICES, CABLES, AND CONDUCTORS ARE OPERATING PROPERLY AND HAVE BEEN INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS. THE PRE-FINAL ACCEPTANCE TEST SHALL BE SCHEDULED ON A REGULAR WORKING DAY.

19. MAINTENANCE, INSPECTION, AND TESTING – ANY DEVICE, EQUIPMENT, SYSTEM, CONDITION, ARRANGEMENT, LEVEL OF PROTECTION, FIRE-RESISTIVE CONSTRUCTION, OR ANY OTHER FEATURE REQUIRING PERIODIC TESTING, INSPECTION, OR OPERATION TO ENSURE ITS MAINTENANCE SHALL BE TESTED, INSPECTED, OR OPERATED AS SPECIFIED ELSEWHERE IN THIS CODE OR AS DIRECTED BY THE AHJ. MAINTENANCE, INSPECTION, AND TESTING SHALL BE PERFORMED UNDER THE SUPERVISION OF A RESPONSIBLE PERSON WHO SHALL ENSURE THAT TESTING, INSPECTION, AND MAINTENANCE ARE MADE AT SPECIFIED INTERVALS IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS OR AS DIRECTED BY THE AHJ. 2021 NFPA 1 4.5.8.1.

20. PORTABLE FIRE EXTINGUISHERS – 13.6 SCOPE 13.6.1.1 THE SELECTION, INSTALLATION, INSPECTION, MAINTENANCE, RECHARGING, AND TESTING OF PORTABLE FIRE EXTINGUISHERS SHALL BE IN ACCORDANCE WITH NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS, AND SECTION 13.6. 2021 NFPA 1.

21. ALL FIRE ALARM SYSTEM WORK SHALL COMPLY WITH CHAPTER 13 OF THE NFPA 1 (2018), AS AMENDED; AND NFPA 72.

22. AHJ APPROVAL – 13.1.1 THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE THAT CONSTRUCTION DOCUMENTS FOR ALL FIRE PROTECTION SYSTEMS BE SUBMITTED FOR REVIEW AND APPROVAL AND A PERMIT BE ISSUED PRIOR TO THE INSTALLATION, REHABILITATION, OR MODIFICATION. FURTHER, THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE THAT FULL ACCEPTANCE TESTS OF THE SYSTEM BE PERFORMED IN THE AHJ'S PRESENCE PRIOR TO FINAL SYSTEM CERTIFICATION. FIRE ALARM SYSTEMS, FIRE HYDRANT SYSTEMS; FIRE-EXTINGUISHING SYSTEMS; STANDPIPES; AND OTHER FIRE-PROTECTION SYSTEMS AND APPURTENANCES REQUIRED BY THIS CODE SHALL BE APPROVED BY THE AHJ AS TO INSTALLATION AND LOCATION AND SHALL BE SUBJECT TO ACCEPTANCE TESTS REQUIRED BY THE APPROPRIATE COUNTY AGENCY. NFPA 1, CHAPTER 13 AS AMENDED.

23. DETECTION, ALARM, AND COMMUNICATION SYSTEMS – 13.7.1.1 WHERE BUILDING FIRE ALARM SYSTEMS OR AUTOMATIC FIRE DETECTORS ARE REQUIRED BY OTHER SECTIONS OF THIS CODE, THEY SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH NFPA 70, NFPA 72, NATIONAL FIRE ALARM CODE, AND SECTION 13.7. 2021 NFPA 1. FIRE ALARM SYSTEM INSTALLATION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH NFPA 72, NATIONAL FIRE ALARM CODE, AND 2021 NFPA 1. 2021 NFPA 1.

24. MANUAL FIRE ALARM BOXES – 13.7.1.7.3 A MANUAL FIRE ALARM BOX SHALL BE LOCATED WITHIN 60 INCHES OF EXIT DOORWAYS, UNLESS MODIFIED BY ANOTHER SECTION OF THIS CODE. 13.7.1.7.5 ADDITIONAL MANUAL FIRE ALARM BOXES SHALL BE LOCATED SO THAT, ON ANY GIVEN FLOOR IN ANY PART OF THE BUILDING, NO HORIZONTAL DISTANCE ON THAT FLOOR EXCEEDING 200 FT (60 M) SHALL NEED TO BE TRAVERSED TO REACH A MANUAL FIRE ALARM BOX. [9.6.2.4]. 13.7.3.3.8.4 MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5 FT (1.5M) OF THE EXIT DOORWAY OPENING AT EACH EXIT ON EACH FLOOR. THE LOCATION OF THE MANUAL FIRE ALARM BOXES MAY BE MODIFIED BY THE AHJ. 2021 NFPA 1, AMENDED.

25. ALTERATIONS TO THE FIRE ALARM SYSTEM SHALL CONFORM TO NFPA 72-A. AUDIBILITY OF THE FIRE ALARM SYSTEM SHALL CONFORM TO 2021 NFPA 1 13.7.1.4.9.8.

26. STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION OPERATIONS, INCLUDING THOSE IN UNDERGROUND LOCATIONS, SHALL COMPLY WITH NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATORS, AND THIS CHAPTER. 2021 NFPA 1.

27. ROH SEC. 18-5.2
    ONE SET OF APPROVED PLANS, SPECIFICATIONS AND COMPUTATIONS SHALL BE RETAINED BY THE BUILDING OFFICIAL FOR A PERIOD OF NOT LESS THAN 90 DAYS FROM DATE OF COMPLETION OF THE WORK COVERED THEREIN, AND ONE SET OF APPROVED PLANS SHALL BE RETURNED TO THE APPLICANT, AND SAID SET SHALL BE KEPT ON THE SITE OF THE BUILDING OR WORK AT ALL TIMES DURING WHICH THE WORK AUTHORIZED THEREBY IS IN PROGRESS. (SEC 18-5.2 R.O 1978 (1983 ED.); AM. ORD. 93-59)

28. 1.14 PLAN REVIEW
    1.14.4 REVIEW AND APPROVAL BY THE AHJ SHALL NOT RELIEVE THE APPLICANT OF THE RESPONSIBILITY OF COMPLIANCE WITH THIS CODE. 2021 NFPA 1.

29. 1.3.6.3 REPAIRS, RENOVATIONS, RECONSTRUCTION, CHANGE OF OCCUPANCY AND ADDITIONS TO BUILDINGS SHALL CONFORM TO THIS CODE, NFPA 101, AND THE BUILDING CODE. 2021 NFPA 1.

30. 1.9.4 LIABILITY
    THIS CODE SHALL NOT BE CONSTRUED TO RELIEVE FROM OR LESSEN THE RESPONSIBILITY OF ANY PERSON OWNING, OPERATING OR CONTROLLING ANY BUILDING OR STRUCTURE FOR ANY DAMAGES TO PERSONS OR PROPERTY CAUSED BY DEFECTS, NOR SHALL THE CODE ENFORCEMENT AGENCY OR ITS PARENT JURISDICTION BE HELD AS ASSUMING ANY SUCH LIABILITY BY REASON OF THE INSPECTIONS AUTHORIZED BY THIS CODE OR ANY PERMITS OR CERTIFICATES ISSUED UNDER THIS CODE. 2021 NFPA 1.

ACCESSIBILITY DESIGN NOTES

1. FIRE ALARM SYSTEM INSTALLATIONS SHALL COMPLY WITH REQUIREMENTS OF THE 2010 ADA STANDARDS, SECTION 702 FIRE ALARM SYSTEMS. REQUIREMENTS IN NFPA 72 2019 CONTAIN A LEVEL OF ACCESSIBILITY EQUAL OR GREATER THAN NFPA 2019.

2. FIRE ALARM SYSTEMS SHALL HAVE PERMANENTLY INSTALLED AUDIBLE AND VISIBLE ALARMS COMPLYING WITH NFPA 72 (2019 EDITION), PER 2010 ADA STANDARDS, SECTION 702.1.

3. MAXIMUM ALLOWABLE SOUND LEVEL OF AUDIBLE NOTIFICATION APPLIANCES COMPLYING WITH SECTION 18.4 OF NFPA 72 (2019 EDITION) SHALL HAVE A SOUND LEVEL NO MORE THAN 110 DB AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE, PER 2010 ADA STANDARDS, SECTION 702.1.

4. PROVIDE WIRING FOR FUTURE VISIBLE ALARM NOTIFICATION DEVICES TO ALL AUDIBLE DEVICES LOCATED IN EMPLOYEE WORK AREAS PER 2010 ADA STANDARDS, SECTION 215.3.

FIRE ALARM SPEAKER AND STROBE PRE-SETTINGS SCHEDULE

NO.	ROOM SIZE (IN SQUARE FEET)	
1	< 400 SF	1/4 WATT (79 dBA AT 10')
2	401 TO 784 SF	1/2 WATT (82 dBA AT 10')
3	785 TO 900 SF	1 WATT (84 dBA AT 10')
4	901 TO 1,600 SF	2 WATTS (88 dBA AT 10')
5	> 1,600 SF	2 WATTS (88 dBA AT 10')

* BASED ON NFPA 72, TABLE 18.5.4.3.1(a)

FIRE ALARM SPEAKER AND STROBE SETTING SCHEDULE NOTES:

1. PRESET THE SPEAKER VOLUME AND STROBE INTENSITY FOR EACH VISIBLE AND COMBINATION AUDIBLE/VISIBLE SIGNALING DEVICE PRIOR TO INSTALLATION PER "FIRE ALARM SPEAKER AND STROBE SETTING SCHEDULE", THIS SHEET.

2. ADJUST SPEAKER VOLUME AND STROBE INTENSITY SETTINGS AS REQUIRED TO MEET AUDIBILITY REQUIREMENTS OF THE FIRE DEPARTMENT, THE VISUAL REQUIREMENTS OF THE ADA, AND AS DIRECTED BY THE CONTRACTING OFFICER. THE AUDIBLE ALARMS SHALL PRODUCE SOUND LEVELS THAT EXCEED THE PREVAILING EQUIVALENT SOUND LEVEL BY A MINIMUM OF 15 DB OR SHALL EXCEED ANY MAXIMUM SOUND LEVEL WITH A DURATION OF 60 SECONDS BY 5 DB, WHICHEVER IS LOUDER. SOUND LEVELS SHALL NOT EXCEED 110 DB.

3. ALL VISUAL SIGNALING DEVICES IN THE SAME ROOM OR WITHIN VIEW OF ANOTHER VISUAL SIGNALING DEVICE IN THE SAME BUILDING SHALL BE SYNCHRONIZED PER ADA REQUIREMENTS.

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME

SHEET NAME

GENERAL NOTES, FIRE ALARM NOTES

SCALE: NONE

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PROJECT NO.	SHEET NO.
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NOTES FOR KAUA'I ISLAND UTILITY COOPERATIVE (KIUC) SYSTEM:

1. THESE NOTES ARE NOT INTENDED TO BE USED IN PLACE OF THE SERVICE INSTALLATION MANUAL, PLEASE REFER TO SERVICE INSTALLATION MANUAL FOR ALL SERVICE ISSUES.

2. CONTRACTOR SHALL CONTACT KAUA'I ISLAND UTILITY COOPERATIVE'S ("KIUC") CONSTRUCTION COORDINATOR/INSPECTOR PRIOR TO START OF WORK ON KIUC FACILITIES AND FOR SCHEDULING SITE INSPECTIONS. [WESTSIDE: 246-2323, EASTSIDE: 246-4343]

3. CONTRACTOR SHALL CONTACT KIUC'S DISTRIBUTION PLANNING COORDINATOR @ 246-2373 FOR DESIGN APPROVALS, STANDARD DETAIL DRAWINGS, AND ANY ITEMS NOT ADDRESSED IN THESE NOTES OR DRAWINGS.

4. ALL CONTRACTORS ENTERING KIUC FACILITIES MUST BE APPROVED BY KIUC AND MUST HAVE PROPER LICENSING AND INSURANCE COVERAGE. CONTACT KIUC LEGAL COORDINATOR (TEL: 246-4369) FOR DETAILS.

5. ALL TRENCHES AND PULLBOXES MUST BE INSPECTED BY KIUC PRIOR TO BACKFILLING AND CONCRETE-ENCASING OPERATIONS. FOR DETAILED TRENCHING AND BACKFILLING REQUIREMENTS REFER TO KIUC'S SERVICE INSTALLATION MANUAL.

6. THE CONTRACTOR SHALL PROVIDE A POLY-LINE 200 LB. TEST LINE OR EQUIVALENT AS A PULLING WIRE IN ALL 1", 2", 3" AND 4" KIUC CONDUITS. IN ALL 5" AND 6" CONDUITS, THE CONTRACTOR SHALL INSTALL NEPTCO WP1800 MULETAPE AS A PULLING LINE.

7. ALL CONDUITS, PULLBOXES, HANDHOLES, AND MANHOLES SHALL BE CLEANED AND FREE FROM OBJECTIONABLE MATERIALS. CONDUIT ENDS SHALL BE ADEQUATELY COVERED UNTIL THE CONDUCTOR IS INSTALLED BY THE ELECTRIC COMPANY. (COVERS SHALL BE CARLON PLUG WITH PULL TAB SERIES P258 EQUIVALENT OR BETTER.)

8. FOR ALL CONDUITS OTHER THAN FOR SERVICES, REFER TO CONDUIT SCHEDULE ON DRAWINGS.

9. FOR ALL ELECTRIC SERVICES WHERE THE CONDUCTOR IS 1/0 OR LESS, THE DISTANCE FROM KIUC HANDHOLE AND CUSTOMER'S METER IS LESS THAN 125 FEET, AND NOT CROSSING ANY DRIVEWAYS OR ROADS, THE CONDUIT SHALL BE 2-INCH SCHEDULE 40 PVC. FOR SERVICES GREATER THAN 125 FEET, CONTACT KIUC PLANNER FOR FIELD VERIFICATION AND UNDERGROUND SERVICE REQUIREMENTS. ANY DEVIATIONS WILL REQUIRED KIUC WRITTEN APPROVAL.

10. PRIMARY, SECONDARY AND SERVICE CONDUITS FOR NEW LINE EXTENSIONS SHALL BE SCHEDULE 40 PVC. (CARLON P&C DUCT TYPE DB EQUIVALENT OR BETTER). UNDER DRIVEWAYS AND ROADWAYS, THE CONDUITS SHALL BE ENCASED IN A MINIMUM 3-INCH CONCRETE JACKET EXTENDED 12" OUTSIDE THE EDGE OF PAVEMENT.

11. SCHEDULE 80 PVC CONDUIT MAY BE SUBSTITUTED FOR THE CONCRETE ENCASED SCHEDULE 40 PVC FOR SERVICE CONDUIT ONLY CROSSING UNDER UNPAVED PRIVATE DRIVEWAYS & ROADWAYS FROM KIUC POLE/ HANDHOLE TO CUSTOMER'S METER. IF CONCRETE DRIVEWAY WILL BE BUILT OVER SERVICE CONDUIT IMMEDIATELY AFTER CONDUIT IS INSTALLED, THAN SCHEDULE 40 PVC MAY BE USED PROVIDED THAT IT MEETS WITH RULE NO. 21.

12. ALL PRIMARY AND SECONDARY CONDUITS WHICH ARE CROSSING STATE OR COUNTY ROADWAYS SHALL BE SCHEDULE 40 PVC ENCASED IN A MINIMUM 3-INCH CONCRETE JACKET, WHICH SHALL EXTEND A MINIMUM OF 12-INCHES OUTSIDE THE EDGE OF PAVEMENT.

13. ELECTRIC SUPPLY DUCTS, WHEN INSTALLED NEAR COMMUNICATIONS CABLES, SHALL BE SEPARATED FROM COMMUNICATION DUCT SYSTEMS AND BURIED COMMUNICATION CABLES OR CONDUCTORS BY NOT LESS THAN 3- INCHES OF CONCRETE OR 12-INCHES OF EARTH WHEN PARALLELING OR CROSSING.

14. CHAIRS SHALL BE INSTALLED AND SPACED AT A MAXIMUM OF 5 FEET SEPARATION WHEN CONCRETE ENCASING CONDUITS.

15. ALL CONDUITS SHALL ENTER BOXES AT A 90 DEGREE ANGLE, PERPENDICULAR AND FLUSH TO THE WALL WITH BELL ENDS TO PREVENT CABLE DAMAGE.

16. 90-DEGREE CONDUIT BENDS SHALL BE FACTORY MADE WITH A MINIMUM RADIUS OF THREE FEET IN TRENCH RUNS.

17. CONDUIT BENDS EXCEEDING 90-DEGREES WILL NOT BE ACCEPTED.

18. A 36 INCH MINIMUM HORIZONTAL CLEARANCE SHALL BE MAINTAINED WHEN RUNNING KIUC CONDUITS PARALLEL TO DRAINAGE, GAS AND SEWER LINES. A MINIMUM 8 FOOT HORIZONTAL CLEARANCE SHALL BE MAINTAINED TO WATER LINES. THE CONTRACTOR SHALL MAINTAIN AN 18" MINIMUM VERTICAL SEPARATION BETWEEN THE TOP OF DIRECT BURIED KIUC CONDUITS, AND WATER LINES. WHEN KIUC CONDUITS ARE CONCRETE ENCASED AT INTERSECTION OF WATER LINES AND UTILITY CONDUITS, AN 18" MINIMUM SEPARATION BETWEEN WATER LINES AND OUTER EDGE OF CONCRETE ENCASING THE UTILITY CONDUITS SHALL BE MAINTAINED. CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF WATER 24 HOURS PRIOR TO SCHEDULED ELECTRICAL/WATER TRENCH BACKFILLING OPERATIONS.

19. NO FOREIGN PULLBOXES, HANDHOLES, MANHOLES, CONCRETE SLAB/BOXES, STRUCTURES, ETC. ARE TO BE INSTALLED OVER KIUC FACILITIES WITH THE EXCEPTION OF HTCO, CATV OR WATERLINE CONDUIT CROSSINGS. SUCH CROSSINGS MUST BE APPROVED BY KIUC SERVICE ASSURANCE DEPARTMENT AND THE KIUC CONDUIT SHALL BE CONCRETE ENCASED. CONCRETE ENCASEMENT MUST BE MINIMUM OF 3-INCH ENCASEMENT AND EXTEND A MINIMUM OF 1 FOOT BEYOND CROSSING CONDUIT OR PIPE.

20. YELLOW MARKER TAPE TO BE PLACED 1 FOOT ABOVE ELECTRICAL CONDUITS IN THE TRENCH DURING BACKFILLING. (E-Z CODE WBT 6 INCH WIDE, 4 MIL POLYETHYLENE PROTECT-A-LINE WARNING TAPE NA-0708 "ELECTRIC LINE" IN YELLOW, EQUIVALENT OR BETTER.)

21. UNLESS OTHERWISE NOTED, THE TOP OF ALL CONDUITS SHALL BE AT A DEPTH OF 24-INCHES.

22. ALL HANDHOLES, PULLBOXES, AND MANHOLES SHALL BE WALKER INDUSTRIES TYPE OR APPROVED EQUAL. CONTACT KIUC PRIOR TO ORDERING UNDERGROUND BOXES FOR VENDOR APPROVAL. CUSTOMER TO SUBMIT MANUFACTURER'S SHOP DRAWINGS IF SUBSTITUTING FROM WALKER INDUSTRIES TYPE.

23. TYPICALLY, THE TOP OF ALL ELECTRICAL UTILITY BOXES SHALL BE 1-INCH ABOVE FINISH GRADE, SINGLE-PHASE TRANSFORMER PADS SHALL BE 2-INCHES ABOVE FINISH GRADE, AND THREE-PHASE TRANSFORMER PADS SHALL BE 4-INCHES ABOVE FINISH GRADE, UNLESS OTHERWISE NOTED. (SPECIAL CONDITIONS MAY APPLY TO SIDEWALKS, ROADWAYS, ETC., SEE SPECIFIC LOCATION NOTATION)

24. AT NO TIME SHALL CEMENT MORTAR, WOOD OR ANY OTHER MATERIAL BE USED BETWEEN PRE-CAST SECTIONS OF KIUC PULLBOXES, HANDHOLES, OR MANHOLES. THE PERMANENT INSTALLATION OF WOODEN WEDGES TO LEVEL OR RAISE THE PRE-CAST SECTIONS SHALL NOT BE PERMITTED.

25. A MINIMUM OF 6-INCHES OF #3 CRUSHED ROCK BACKFILL SHALL BE PLACED LOOSELY BENEATH THE BOTTOM SECTION OF HANDHOLES AND PULLBOXES. CRUSHED ROCK OR OTHER FOREIGN MATERIAL SHALL NOT BE PLACED INSIDE HANDHOLES AND PULLBOXES.

HAWAIIAN TELCOM (HTCO) NOTES:

1. UNLESS OTHERWISE INDICATED, ALL CONDUITS, SWEEPS, COUPLINGS, ADAPTERS, AND BELL ENDS FOR VERIZON HAWAII SHALL BE SCHEDULE 40 PVC IF DIRECT BURIED. IF CONCRETE ENCASED, CONDUITS MAY BE GT-42 2" OR 4" PVC CONDUIT, MEETING GTE SPECIFICATION GTS-8342. TWO-INCH SCHEDULE 40 BENDS ARE AVAILABLE WITH A 24" OR 36" RADIUS. FOUR-INCH SCHEDULE 40 BENDS ARE AVAILABLE WITH A 36" OR 48" RADIUS. REFER TO HTCO STANDARD DRAWING NO. 34028 FOR INSTALLATION.

2. A 4" WIDE WARNING TAPE, ORANGE IN COLOR WITH A BLACK IMPRINTED MESSAGE "WARNING -- STOP DIGGING -- CALL HAWAIIAN TELCOM, COMMUNICATIONS CABLE BURIED BELOW, FAILURE TO COMPLY COULD RESULT IN LEGAL ACTION", SHALL BE PLACED 12" BELOW THE SURFACE OVER THE DUCT OR CONCRETE JACKET FOR THE ENTIRE LENGTH OF DUCT INSTALLATIONS. SEE HTCO STANDARD DRAWING NO. 34028. RECOMMENDED TAPE IS MANUFACTURED BY THOR ENTERPRISES, INC., SUN PRAIRIE, WE 53590, PART NUMBERS DTOGTE-41 (1,000 FEET), AND DTOGTE-46 (6,000 FEET). EQUIVALENT TAPES ARE ACCEPTABLE.

3. AFTER THE DUCTS ARE INSTALLED, A ROUND SOLID MANDREL NOT LESS THAN 12" LONG AND HAVING A DIAMETER OF 1/4" LESS THAN THE DIAMETER OF THE DUCT SHALL BE PULLED THROUGH EACH DUCT AFTER WHICH A BRUSH WITH STIFF BRISTLES SHALL BE PULLED THROUGH TO MAKE CERTAIN THAT NO PARTICLES OF EARTH, SAND, OR GRAVEL HAVE BEEN LEFT IN THE LINE.

   RECOMMENDED MANDRELS AND BRUSHES FOR 3" AND 4" CONDUITS ARE MADE BY GENERAL MACHINE PRODUCTS CO. (GMP), TREVOSE, PA; RECOMMENDED GMP PART NUMBER 81823R (TEST MANDREL FOR 3" CONDUIT), PART NUMBER 81824R (TEST MANDREL FOR 4" CONDUIT), AND PART NUMBER 17094 (BRUSH FOR 4" CONDUIT). RECOMMENDED MANDRELS AND BRUSHES FOR 2" CONDUITS ARE MADE BY CONDUX INTERNATIONAL, INC., 145 KINGWOOD ROAD, MANKATO, MN 56001; RECOMMENDED CONDUX PART NUMBER 08013020 (TEST MANDREL FOR 2" CONDUIT) AND PART NUMBER 08028900 (BRUSH FOR 2" CONDUIT).

   BENDS IN MAIN DUCT RUNS, EXCEPT RISER DUCTS AND CROSS-CONNECT PEDESTAL DUCTS, SHALL BE CONSTRUCTED WITH 20-FOOT MINIMUM RADIUS CURVES UNLESS INDICATED OTHERWISE OR APPROVED BY THE HTCO INSPECTOR. IF BENDS IN DUCT RUNS MUST BE LESS THAN 20-FOOT RADIUS CURVES, USE A FLEXIBLE MANDREL FOLLOWED BY A STIFF BRISTLE BRUSH. RECOMMENDED CONDUX PART NUMBER 08021700 FOR 2" CONDUIT, GMP PART NUMBER 10103 FOR 3" CONDUIT, AND GMP PART NUMBER 10104 FOR 4" CONDUIT.

4. PROVIDE NEPTCO WP1800P MULETAPE IN ALL NEW DUCTS AND CAP ALL DUCTS AFTER TESTING. THE NEPTCO MULETAPE IS AVAILABLE IN 3,000 FEET, 6,500 FEET, AND 10,000 FEET REELS FROM WESTINGHOUSE ELECTRIC SUPPLY COMPANY (WESCO) ON MAPUNAPUNA STREET ON OAHU. THE NEPTCO MULETAPE IS PRELUBRICATED AND PRINTED WITH SEQUENTIAL FOOTAGE MARKINGS.

   USING THE NEPTCO MULETAPE, THE CONTRACTOR SHALL MEASURE AT LEAST ONE DUCT OF A COMMON DUCT RUN. THE DISTANCE SHALL BE MARKED ON THE RECORD PRINTS AND SUBMITTED TO THE HTCO INSPECTOR FOR RECORD KEEPING.

5. ALL DUCTS ASSOCIATED WITH MANHOLES OR HANDHOLES SHALL BE INSTALLED WITH ADEQUATE DRAINAGE TOWARD THE MANHOLES OR HANDHOLES (MINIMUM 0.25% UNLESS OTHERWISE NOTED). THE "THRU" DUCTS ENTERING MANHOLES AND HANDHOLES SHALL BE SPLAYED WITH A RECOMMENDED 50-FOOT MINIMUM TRANSITION AND ENTER THE MANHOLE 10" FROM THE INSIDE EDGE OF THE WALL.

6. HTCO 5X10.5X6.5 AND GTE 6X12X7 ARE HAWAIIAN TELCOM STANDARD PRECAST MANHOLES. AFTER INSTALLATION OF PRECAST MANHOLES, CHIPS OR VOIDS 1/2-INCH OR GREATER SHALL BE PATCHED. WHEN INSTALLING PRECAST MANHOLES AND HANDHOLES, THE CONSTRUCTION JOINT BETWEEN THE SECTIONS SHALL BE THOROUGHLY CLEANED OF ALL DIRT OR OTHER DEBRIS, AND SHALL BE BONDED WITH A MASTIC OR SEALING COMPOUND, TO PREVENT WATER ENTRY. THE MASTIC TAPE OR SEALING COMPOUND SHALL BE APPLIED TO COMPLETELY FILL THE CONSTRUCTION JOINT, AND SHALL COVER THE ENTIRE JOINT AREA. THE PRECAST SECTIONS SHALL BE PLACED AS SOON AS THE SEALANT INSTALLATION IS COMPLETED. RECOMMENDED SEALANT IS RAM-NEK MANUFACTURED BY K.T. SNYDER COMPANY, HOUSTON, TEXAS.

7. BEFORE PLACING PRECAST SECTIONS, THE CONTRACTOR SHALL PROVIDE AT LEAST THREE TO SIX INCHES OF SAND OR BASE MATERIAL ON THE BOTTOM OF THE EXCAVATION. IN FLUID SOILS, OR SOILS VULNERABLE TO BECOMING FLUID, #9 OR 10 STONE (1/2" TO 3/4") MAY BE USED FOR STABILITY. THE BASE MATERIAL SHALL BE COMPACTED AND GRADED TO LEVEL.

8. THE MANHOLE COVER AND FRAME HAS A CLEAR OPENING OF 30" AND IS AVAILABLE AS A 5-5/8" HIGH FRAME (PART NUMBER R-1750-C1) OR AS A 10" HIGH FRAME (PART NUMBER R-1750-C) FROM NEENAH FOUNDRY COMPANY, NEENAH, WI. THE 10" HIGH FRAME SHALL BE PROVIDED FOR NORMAL APPLICATIONS. THE 5-5/8" HIGH FRAME MAY BE USED FOR APPLICATIONS WHERE THE DEPTH OF PAVEMENT DOWN TO THE CONCRETE MANHOLE SLAB IS SHALLOW AND LIMITED. THE MANHOLE ROOF SLAB OPENING IS 36" IN DIAMETER, AND THE COVER SHALL HAVE THE HAWAIIAN TELCOM LOGO AND BE EQUIPPED WITH TWO 1" DIAMETER LIFT HOLES 180 DEGREES TO LOCK DOWN THE COVER ARE TO BE TURNED OVER TO THE HTCO INSPECTOR. DO NOT LOCK THE COVERS DOWN WITH THESE BOLTS. APART. THE BOLTS THAT COME WITH THE COVER REFER TO HTCO STANDARD DRAWING NO. 34086.

9. PRECAST MANHOLES ARE AVAILABLE FROM ONE OF THE FOLLOWING HAWAIIAN TELCOM APPROVED VENDORS: UTILITY VAULT COMPANY, P.O. BOX 588, AUBURN, WA 98002; BROOKS PRODUCTS, INC., P.O. BOX 4488, 10141 ONLY STREET, ELMONTE, CA 91734; ASSOCIATED CONCRETE PRODUCTS, INC., 4301 W. MACARTHUR BLVD., SANTA ANA, CA 92705. 10.

10. PROVIDE NO. 4 BARE COPPER GROUND WIRE (DIRECT BURIED) FROM ALL TRANSFORMER PAD GROUND RODS TO THE NEAREST HTCO PULLBOX, AS SPECIFIED IN HTCO DETAIL 34045-D. PROVIDE ONE 5/8" X 8'-0" GROUND ROD IN ALL OTHER HTCO PULLBOXES, EXCEPT IN THE TYPE 436T METER BOXES (12" X 20"). 11. THE CONTRACTOR SHALL CONTACT HAWAIIAN TELCOM INSPECTOR RICK RAMONES AT 651-2260 PRIOR TO PERFORMING ANY TELEPHONE DUCTLINE WORK

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME

SHEET NAME

KIUC CONSTRUCTION NOTES,
HAWAIIAN TELCOM CONSTRUCTION NOTES

SCALE: NONE

DRAWN BY	CHECKED BY
CAD	BO
PROJECT NO.	SHEET NO.
221093-01	**E003**
SHEET ISSUE DATE	
02/27/2026	

LAST SAVE: 07/13/25 @ 22:51:54 BY: BO PLOT SC: 1"=1"

CHARTER COMMUNICATIONS NOTES:

1. THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL LICENSES AND PERMITS AND SHALL GIVE ALL NOTICES NECESSARY AND INCIDENT TO THE DUE AND LAWFUL PROSECUTION OF THE WORK.

2. THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THEIR LOCATIONS AND SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THESE UTILITIES AS A RESULT OF HIS OPERATIONS. ADJUSTMENTS TO THE NEW DUCTLINE ALIGNMENT, IF REQUIRED, SHALL BE MADE TO PROVIDE THE REQUIRED CLEARANCES.

3. THE CONTRACTOR SHALL BRACE ALL POLES OR LIGHT STANDARDS NEAR THE NEW DUCTLINE, MANHOLE OR HANDHOLE DURING ITS OPERATIONS.

4. THE CONTRACTOR SHALL SAW-CUT A.C. PAVEMENT, CONCRETE GUTTER, AND CONCRETE SIDEWALK WHEREVER NEW MANHOLES, HANDHOLES, PULLBOXES OR DUCTLINES ARE TO BE PLACED AND SHALL RESTORE TO EXISTING CONDITION OR BETTER.

5. THE UNDERGROUND PIPES, CABLES, OR DUCTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREAS. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.

6. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE COST FOR SUPPLEMENTARY MEASURES, WHICH WILL BE REQUIRED BY THE COUNTY, SHALL BE BORNE BY THE CONTRACTOR.

7. PRIOR TO THE EXCAVATION OF THE DUCTLINE, THE CONTRACTOR SHALL REQUEST CHARTER COMMUNICATIONS LOCATE EXISTING DUCTLINE WHEREVER REQUIRED.

8. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTION NOT TO DAMAGE EXISTING CABLES OR DUCTS. ANY WORK INVOLVING EXISTING CABLES OR DUCTS SHALL BE DONE IN THE PRESENCE OF THE CHARTER COMMUNICATIONS' NSPECTOR OR HIS REPRESENTATIVE. TEMPORARY CABLE AND DUCT SUPPORT SHALL BE PROVIDED WHEREVER NECESSARY.

9. THE CONTRACTOR SHALL NOTIFY THE CHARTER COMMUNICATIONS' INSPECTOR 72 HOURS PRIOR TO THE START OF WORK ON CATV INFRASTRUCTURE, POURING CONCRETE, OR BACKFILLING.

10. WHEREVER CONNECTIONS TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES PRIOR TO EXCAVATION OF THE MAIN TRENCHES TO VERIFY THEIR LOCATIONS AND DEPTHS.

11. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND FURNISH ALL LABOR AND EQUIPMENT NECESSARY TO INSTALL THE DUCTLINE IN PLACE COMPLETE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT ALL REQUIRED LINES AND GRADES AND SHALL PRESERVE ALL BENCH MARKS AND WORKING POINTS NECESSARY TO LAY OUT THE WORK CORRECTLY. THE NEW DUCTLINE SHALL BE ADJUSTED BY THE CONTRACTOR TO SUIT THE EXISTING CONDITIONS AND THE DETAILS AS DESCRIBED IN THE PLANS.

13. THE CONTRACTOR, AT HIS OWN EXPENSES, SHALL KEEP THE PROJECT AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS AND REGULATIONS OF THE STATE OF HAWAII, DEPARTMENT OF HEALTH.

14. THE LOCATION OF CATV FACILITIES SHOWN ON PLANS ARE FROM EXISTING RECORDS WITH VARYING DEGREES OF ACCURACY AS TO ITS ACTUAL FIXED LOCATION. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN CLOSE PROXIMITY OF CATV FACILITIES.

15. THE CONTRACTOR SHALL OBTAIN EXCAVATION PERMIT CLEARANCE FROM CHARTER COMMUNICATIONS' ENGINEERING SECTION.

16. FOR ANY FIELD ASSISTANCE OR VERIFICATION OF CATV FACILITIES, THE CONTRACTOR SHALL CALL CHARTER COMMUNICATIONS AT 625-2100 AND ASK FOR THE OSP ENGINEERING DEPARTMENT.

17. ANY WORK REQUIRED TO RELOCATE CATV FACILITIES SHALL BE DONE BY CHARTER COMMUNICATIONS AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION REQUIREMENTS AND ASSOCIATED COSTS.

18. ANY DAMAGE TO CHARTER COMMUNICATIONS' FACILITIES SHALL BE REPORTED TO CHARTER COMMUNICATIONS' TOC DEPARTMENT AT 625-8169.

19. THE CONTRACTOR SHALL TUNNEL UNDER EXISTING CONCRETE CURB AND GUTTER AS NECESSARY TO EXTEND CONDUIT INTO EXISTING CATV PULLBOX AND INTO THE PROPOSED POWER SUPPLY PULLBOX.

20. ALL EXISTING IMPROVEMENTS THAT ARE DISTURBED DURING THE CONSTRUCTION PHASE SHALL BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION AT NO COST TO THE COUNTY IN ACCORDANCE WITH COUNTY'S STANDARDS.

21. AT LOCATIONS WHERE EXISTING CATV PULLBOX REPLACEMENT IS PROPOSED, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTION NOT TO DAMAGE THE EXISTING CABLES IN THE PULLBOX. ALL DAMAGES TO EXISTING CABLES SHALL BE REPAIRED BY CHARTER COMMUNICATIONS AND PAID FOR BY THE CONTRACTOR.

22. COORDINATE ALL PENETRATION OF TELEPHONE PULLBOXES WITH HAWAIIAN TELCOM INSPECTOR.

23. SMOOTH FINISH INSIDE WALL OF EXISTING PULLBOXES AND HANDHOLES TO ITS ORIGINAL CONDITION OR BETTER.

24. ALL NEW CONCRETE ENCASED CONDUIT SHALL BE PVC PIPE-SCHEDULE 40. ALL NEW DIRECT-BURIED CONDUIT SHALL BE PVC PIPE-SCHEDULE 80. USE OF ANY OTHER MATERIAL TYPE (GTS, ETC) SHALL BE LIMITED TO MATCHING EXISTING FACILITIES. CONNECTION OF DISSIMILAR MATERIALS TO REQUIRE APPROVAL FROM CHARTER COMMUNICATIONS' INSPECTOR AND ENGINEERING DEPT.

25. THE CONTRACTOR SHALL PLACE POLY CORD THROUGHOUT PROJECT, AND SECURE IN MANHOLES, HANDHOLES AND PULLBOXES.

26. FOR 3" CONDUITS OR LARGER, THE CONTRACTOR SHALL INSTALL NEPTCO WP1800 MULETAPE OR APPROVED EQUAL IN ALL DUCTLINES, LEAVE MULETAPE IN PLACE FOR FUTURE USE AS A PULL OR FISH LINE, UNLESS OTHERWISE NOTED. REFERENCE GTE MATERIAL CODE NO. 571154. ALL DUCTS SHALL BE CAPPED TO PREVENT ENTRY OF FOREIGN MATERIAL DURING CONSTRUCTION AND AT COMPLETION OF INSTALLATION. ENDBELLS ARE REQUIRED FOR CONDUITS 2" AND LARGER.

27. PENETRATION INTO PULLBOXES IF NECESSARY TO BE FROM FACTORY INSTALLED OPENING OR FROM BRICKS POSITION. PENETRATION FROM PULLBOX WALLS IS NOT ACCEPTABLE.

28. BENDS IN THE DUCT ALIGNMENT, DUE TO CHANGES IN GRADE SHALL HAVE A MINIMUM RADIUS OF 20-FEET. ALL 90-DEGREE C-BENDS AT A POLE OR AT THE BUILDING FLOOR SLAB PENETRATION, SHALL HAVE A BEND RADIUS OF 10 TIMES THE DIAMETER OF THE DUCT OR GREATER.

29. MINIMUM LENGTH OF CONDUIT USED SHALL NOT BE LESS THAN 5-FEET IN LENGTH. USE OF PARTIAL CONDUIT SECTIONS ALLOWABLE IS AT CHARTER COMMUNICATIONS' INSPECTOR(S) DISCRETION.

30. ALL CONDUITS SHALL ENTER THROUGH THE END "SHORT WALL" OF THE PULL-BOX. ENTRY SHALL BE AT 90 DEGREES (PERPENDICULAR) TO WALL FACE WITH BENDS NO LESS THAN 12" FROM EXTERIOR WALL.

31. A MINIMUM OF (2) PRECAST RISER SECTIONS MUST BE USED ON ALL 2X4 OR 2X6 PULLBOXES.

32. ALL NEW CONSTRUCTION SHALL UTILIZE CONCRETE PRECAST BASE UNLESS OTHERWISE APPROVED OR SPECIFIED BY CHARTER COMMUNICATIONS' INSPECTOR(S).

33. WHEN THREE (3) OR MORE 4" CONDUITS ENTER ONE END WALL OF ANY PULLBOX, ONLY BRICK BASES WILL BE ALLOWED UNLESS OTHERWISE INSTRUCTED/APPROVED BY CHARTER COMMUNICATIONS' INSPECTOR(S).

34. TWO MINIMUM LAYERS OF BRICKS TO BE USED LOWER THAN THE LOWEST DUCT ENTERING THE PULLBOX. TOP LAYER OF BRICK TO BE FLUSH WITH TOP OF CONDUIT OR HIGHER.

35. FOR UPGRADE/REPAIRS TO EXISTING PULLBOXES, BRICKS MAY BE USED AND SHALL ALWAYS BE AT LEAST TWO LAYERS LOWER THAN THE LOWEST DUCT ENTERING THE PULLBOX.

36. AT NO TIME SHALL CEMENT MORTAR, WOOD OR ANY OTHER MATERIAL BE USED BETWEEN PRECAST SECTIONS.

37. LEVELING OR RAISING OF BOXES TO GRADE MUST BE DONE:
    A. PRE-CAST BASE(S) – USING GRAVEL LAYER UNDER BASE (TYPE 3B OR EQUIVALENT APPROVED BY CHARTER COMMUNICATIONS' INSPECTOR
    B. BRICK BASE(S) – ADJUSTMENTS TO BRICKWORK SECTION. THE PERMANENT INSTALLATION OF WOODEN WEDGES TO ACCOMPLISH THIS PURPOSE WILL NOT BE ACCEPTED.

38. 5/8" COPPER GROUND RODS SHALL BE PLACED IN ALL PULLBOXES UNLESS OTHERWISE DIRECTED BY CHARTER COMMUNICATIONS. GROUND RODS WILL BE PLACED IN THE CORNER 3" TO 4" FROM THE WALL AND AWAY FROM ANY CONDUIT WITH NO MORE THAN 8" STICKING UP ABOVE GROUND.

39. TRENCHING TO BE BY HAND DIGGING NEAR AND ACROSS EXISTING UTILITY LINES.

40. MINIMUM CLEARANCE BETWEEN STREET LIGHT STAND AND FIRE HYDRANTS SHALL BE THREE FEET.

41. UNDERGROUND UTILITIES SHOWN HEREON IS FOR INFORMATION ONLY. NO GUARANTEE IS MADE ON THE ACCURACY OR COMPLETENESS OF SAID INSTALLATION.

42. FOR UNDERGROUND CABLE LOCATING AND MARKING, FIVE WORKING DAYS ADVANCE NOTICE IS REQUIRED. THREE WORKING DAYS ADVANCE NOTICE IS REQUIRED FOR ANY INSPECTION BY A DESIGNATED REPRESENTATIVE. CONTRACTOR SHALL TAKE NECESSARY PRECAUTION NOT TO DAMAGE ANY EXISTING CABLES OR DUCTS. CHARTER COMMUNICATIONS' INSPECTOR OR DESIGNATED REPRESENTATIVE IS REQUIRED TO BE AT ANY JOB SITE WHEREVER THERE WILL BE A BREAKAGE INTO OR ENTRY INTO ANY STRUCTURE THAT CONTAIN CHARTER COMMUNICATIONS' FACILITIES.

43. CONCRETE STRENGTH SHALL BE 3000 PSI IN 28 DAYS.

44. CURING AND BACKFILLING. MAINTAIN CONCRETE IN A MOIST CONDITION FOR 24 HOURS MINIMUM FOR 3,000 PSI AND 48 HOURS MINIMUM FOR 2,500 PSI BEFORE COMPACTED BACKFILLING; 72 HOURS MINIMUM BEFORE PERMITTING MOTOR TRAFFIC LOAD ON DUCTLINE CURING METHOD SHALL MEET CHARTER COMMUNICATIONS' INSPECTOR'S APPROVAL.

45. INSTALL 4-MIL. THICK ORANGE COLOR WARNING TAPE 3-INCH WIDE, ENTIRE LENGTH OF TRENCH WHEN PLACING CATV CONDUITS. TAPE SHOULD READ "CAUTION BURIED CABLE LINE BELOW". MANUFACTURED BY HARRIS INDUSTRIES, INC., CATALOG NUMBER UT-43 OR EQUIVALENT TAPE. TAPE TO BE INSTALLED 12-INCHES BELOW GRADE.

46. AFTER DUCTLINE HAS BEEN COMPLETED, A MANDREL WITH A SQUARE FRONT NOT LESS THAN 12-INCH LONG AND HAVING A DIAMETER OR 1/4-INCH LESS THAN THE INSIDE DIAMETER OF DUCT, SHALL BE PULLED THROUGH EACH DUCT AFTER WHICH A BRUSH WITH STIFF BRISTLES SHALL BE PULLED THROUGH TO MAKE CERTAIN THAT NO PARTICLES OF EARTH, SAND, OR GRAVEL HAVE BEEN LEFT INSIDE. DUCTS SHALL BE COMPLETELY DRY AND CLEAN.

47. METALLIC ENTRANCE CONDUITS SHALL BE GROUNDED.

48. ALL CONDUITS WITHIN A BUILDING SHALL:
    A. BE INSTALLED IN THE SHORTEST AND STRAIGHTEST POSSIBLE RUN.
    B. HAVE NO SECTION LONGER THAN 100-FEET NOR CONTAIN MORE THAN TWO 90-DEGREE BENDS. AN APPROVED SIZED JUNCTION BOX OR GUTTER BOX SHALL BE PLACED IF THIS IS EXCEEDED.
    C. ALL BENDS SHALL BE LONG SWEEP-RADIUS BENDS BUT THE INSIDE RADIUS OF THE BEND MUST NEVER BE LESS THAN TEN TIMES THE DIAMETER OF THE CONDUIT.

49. ALL CONSTRUCTION MUST BE INSPECTED AND APPROVED BY CHARTER COMMUNICATIONS PRIOR TO THE INSTALLATION OF ANY OF ITS FACILITIES AND THE ENERGIZING OF ITS SYSTEM.

50. CONTRACTOR AND/OR CUSTOMER SHALL PROVIDE CHARTER COMMUNICATIONS WITH SUFFICIENT INSTALLATION TIME IN THEIR OCCUPANCY TIME TABLE.

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REVISIONS

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME

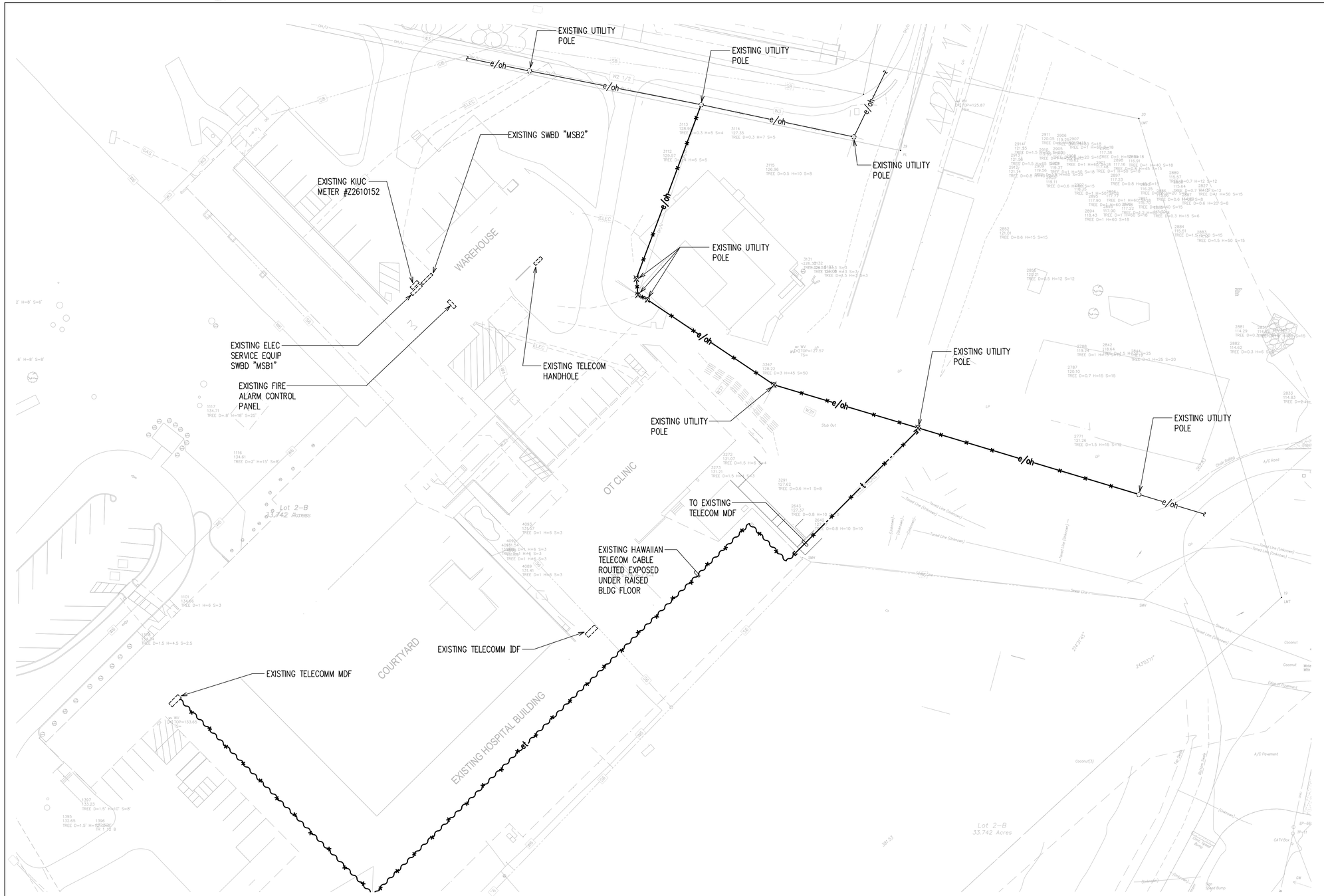
SHEET NAME

CHARTER COMMUNICATIONS CONSTRUCTION NOTES

SCALE: NONE

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CAD	BO
PROJECT NO.	SHEET NO.
221093-01	**E004**
SHEET ISSUE DATE	
02/27/2026	

LAST SAVE: 07/13/25 @ 22:51:54 BY: BO PLOT SC 1"=1'



NORTH

1 / E101 ELECTRICAL DEMOLITION SITE PLAN
SCALE: 1"=30'

30' 15' 0 30' 60' 90'
SCALE: 1"=30'
GRAPHIC SCALE

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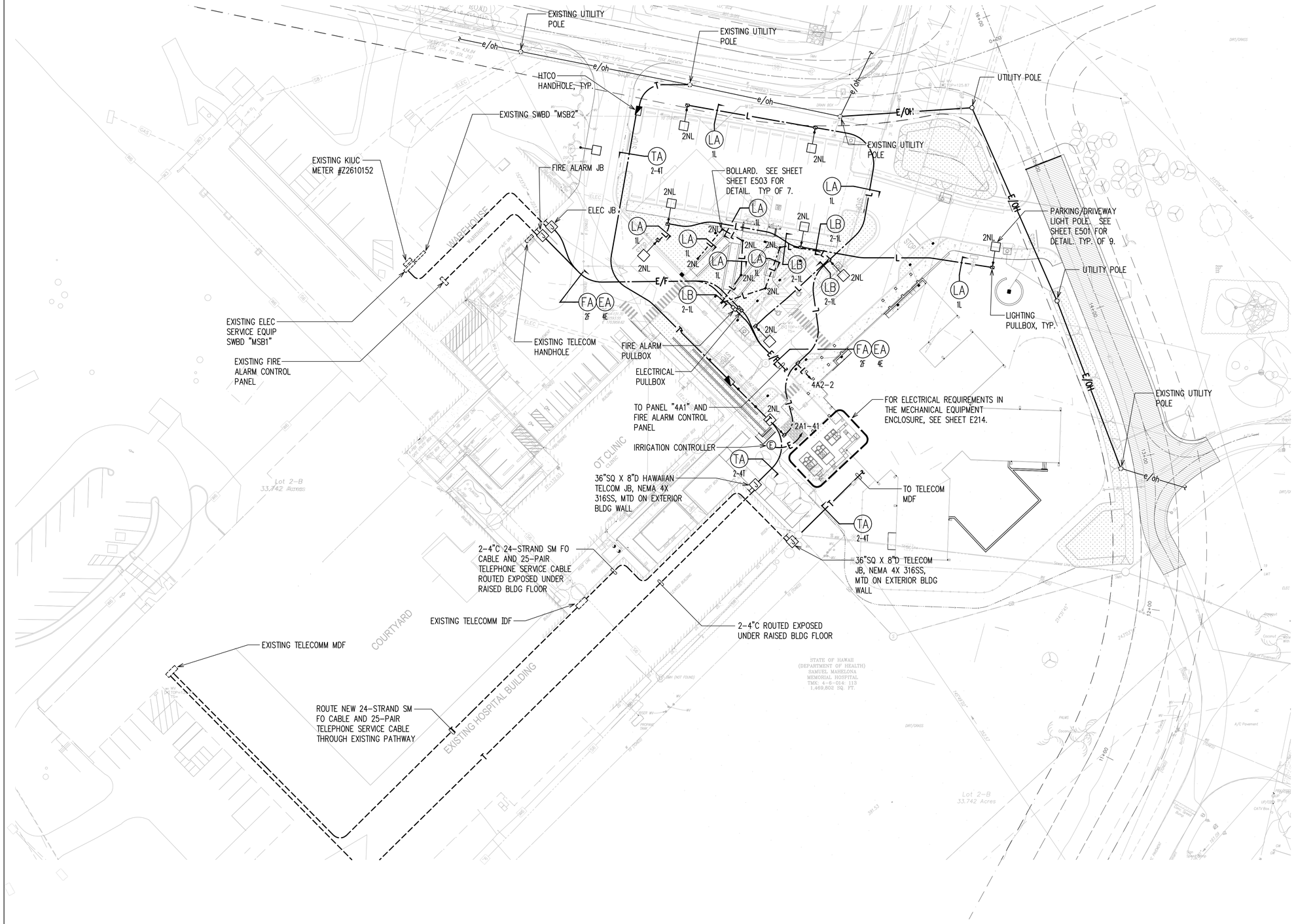
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ELECTRICAL DEMOLITION SITE PLAN

SCALE: AS NOTED

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CAD	BO
PROJECT NO.	SHEET NO.
221093-01	**E101**
SHEET ISSUE DATE	
02/27/2026	

LAST SAVE: 08/14/25 @ 14:19:58 BY: BO PLOT SC: 1=30.000000



NORTH

1 / E102 ELECTRICAL SITE PLAN
SCALE: 1"=30'

30' 15' 0 30' 60' 90'
SCALE: 1"=30'
GRAPHIC SCALE

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FILENAME

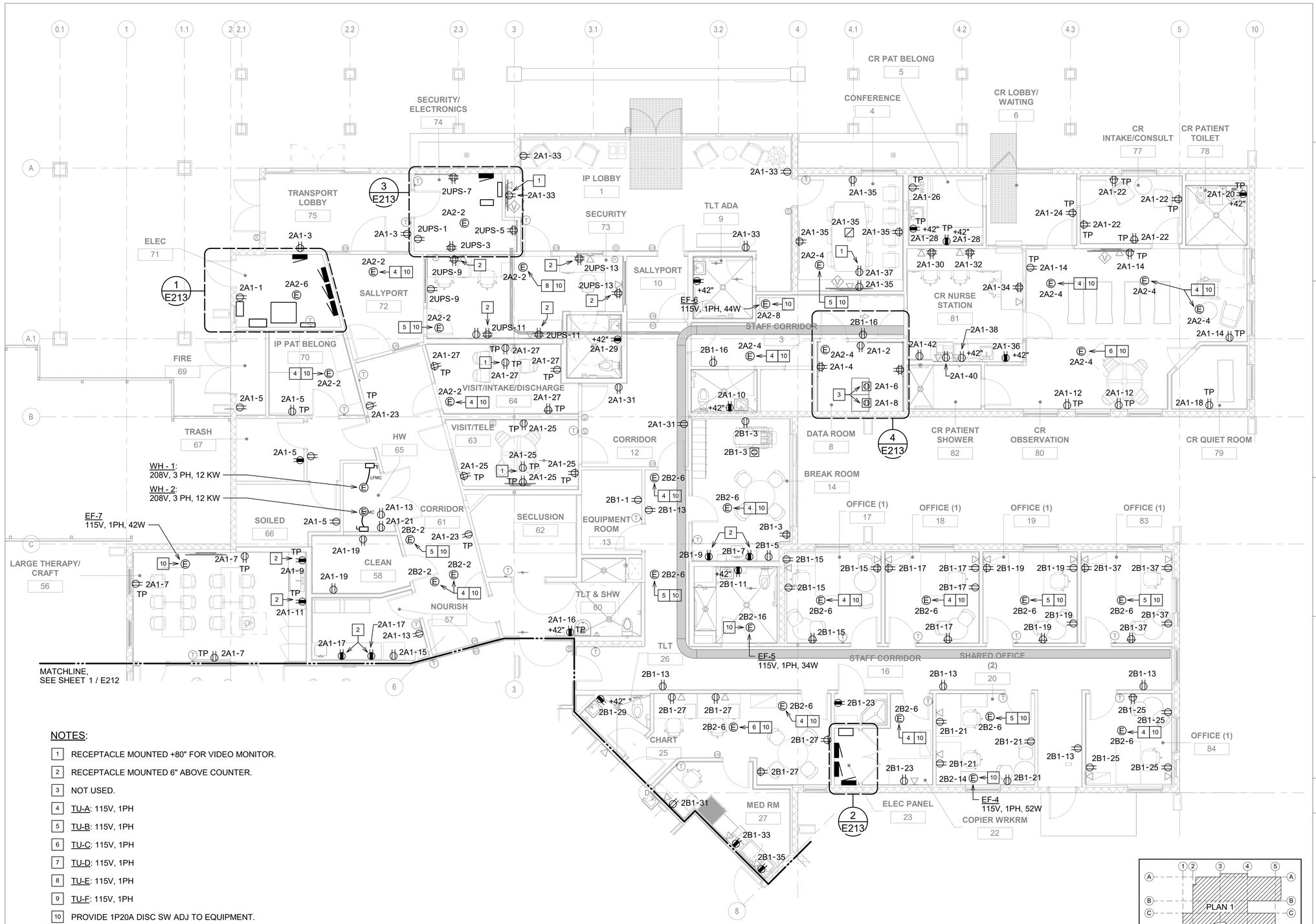
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ELECTRICAL SITE PLAN

SCALE: AS NOTED

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PROJECT NO.	SHEET NO.
221093-01	E102
SHEET ISSUE DATE	
02/27/2026	

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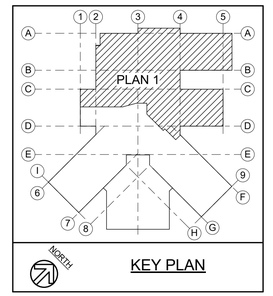
NOTES:

1. RECEPTACLE MOUNTED +80" FOR VIDEO MONITOR.
2. RECEPTACLE MOUNTED 6" ABOVE COUNTER.
3. NOT USED.
4. TU-A: 115V, 1PH
5. TU-B: 115V, 1PH
6. TU-C: 115V, 1PH
7. TU-D: 115V, 1PH
8. TU-E: 115V, 1PH
9. TU-F: 115V, 1PH
10. PROVIDE 1P20A DISC SW ADJ TO EQUIPMENT.

NORTH

1 E211 PARTIAL POWER PLAN 1
3/16" = 1'-0"

4' 2' 0 4' 8' 12'
SCALE: 3/16"=1'-0"
GRAPHIC SCALE



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REVISIONS

Date	Description

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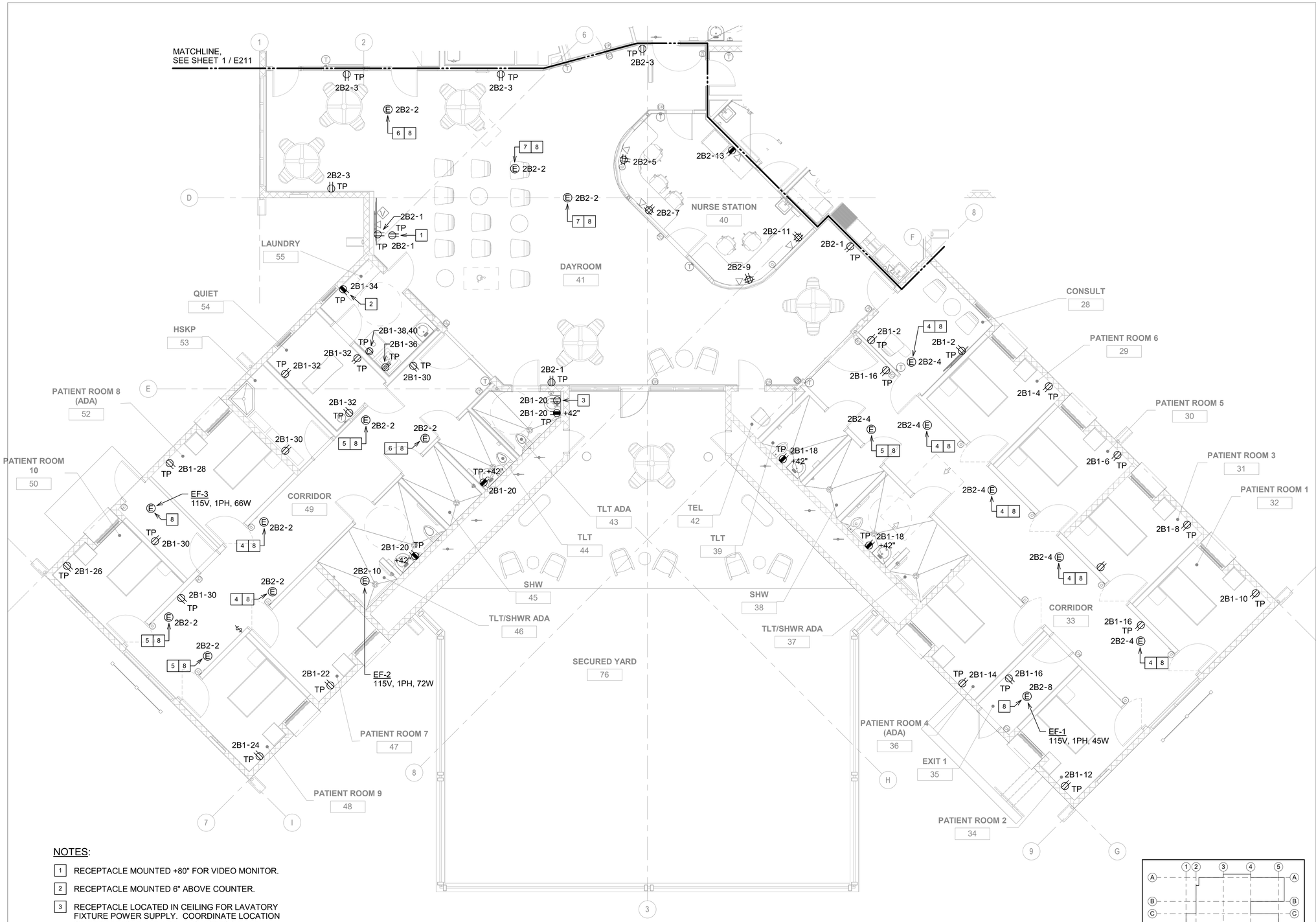
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SHEET NAME
PARTIAL POWER PLAN 1

SCALE: AS NOTED

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RVT	BO
PROJECT NO.	SHEET NO.
221093-01	E211
SHEET ISSUE DATE	
02/27/2026	

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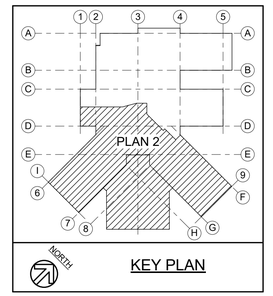
NOTES:

1. RECEPTACLE MOUNTED +80" FOR VIDEO MONITOR.
2. RECEPTACLE MOUNTED 6" ABOVE COUNTER.
3. RECEPTACLE LOCATED IN CEILING FOR LAVATORY FIXTURE POWER SUPPLY. COORDINATE LOCATION OF RECEPTACLE WITH CEILING ACCESS PANEL.
4. TU-A: 115V, 1PH
5. TU-B: 115V, 1PH
6. TU-C: 115V, 1PH
7. TU-D: 115V, 1PH
8. PROVIDE 1P20A DISC SW ADJ TO EQUIPMENT.

NORTH

1 / E212 PARTIAL POWER PLAN 2
3/16" = 1'-0"

4' 2' 0 4' 8' 12'
SCALE: 3/16"=1'-0"
GRAPHIC SCALE



2153 NORTH KING STREET, SUITE 201
HONOLULU, HAWAII 96819
808.941.0577
--

REVISIONS

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License Expiration Date

PROJECT TITLE
SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

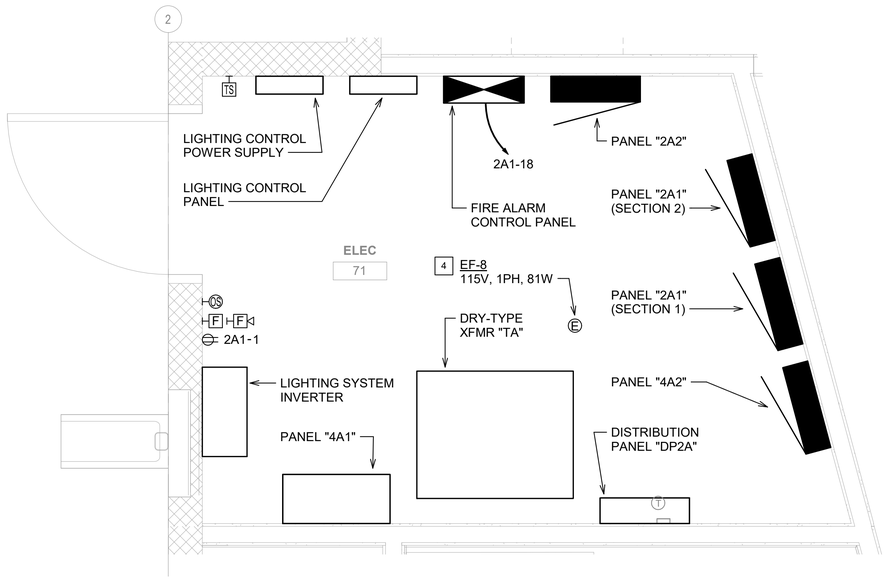
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_Elec_Central2024.rvt

SHEET NAME
PARTIAL POWER PLAN 2

SCALE: AS NOTED

DRAWN BY	CHECKED BY
RVT	BO
PROJECT NO.	SHEET NO.
221093-01	E212
SHEET ISSUE DATE	
02/27/2026	

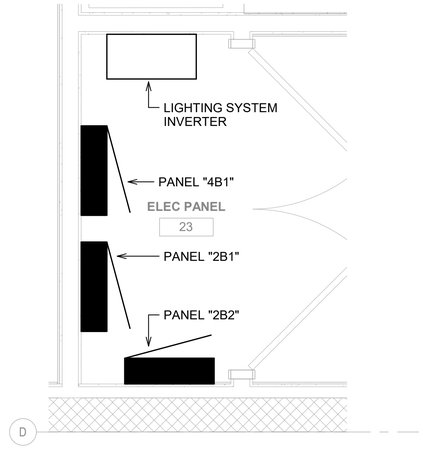
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NORTH

1 E213 ENLARGED ELECTRICAL ROOM 71

3/4" = 1'-0"



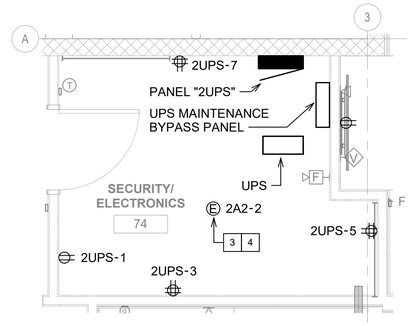
NOTES:

1. TU-A: 115V, 1PH
2. TU-D: 115V, 1PH
3. TU-G: 115V, 1PH
4. PROVIDE 1P20A DISC SW ADJ TO EQUIPMENT.
5. RECEPTACLE MOUNTED ON CEILING ABOVE TELECOM EQUIPMENT RACK.

NORTH

2 E213 ENLARGED ELECTRICAL ROOM 24

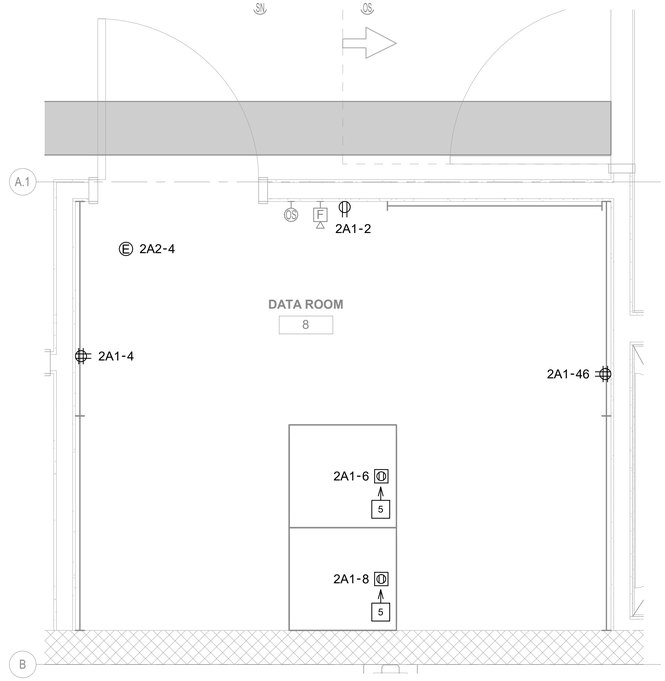
3/4" = 1'-0"



NORTH

3 E213 ENLARGED SECURITY / ELECTRONECS

3/8" = 1'-0"



NORTH

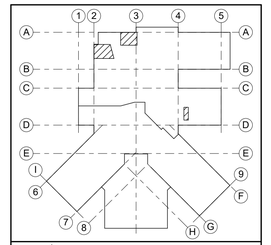
4 E213 ENLARGED DATA ROOM

3/4" = 1'-0"

1' 6" 0 1' 2' 3'

SCALE: 3/4"=1'-0"

GRAPHIC SCALE



NORTH KEY PLAN

2153 NORTH KING STREET, SUITE 201
HONOLULU, HAWAII 96819
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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_Elec_Central2024.rvt

SHEET NAME
ENLARGED ELECTRICAL ROOM PLANS

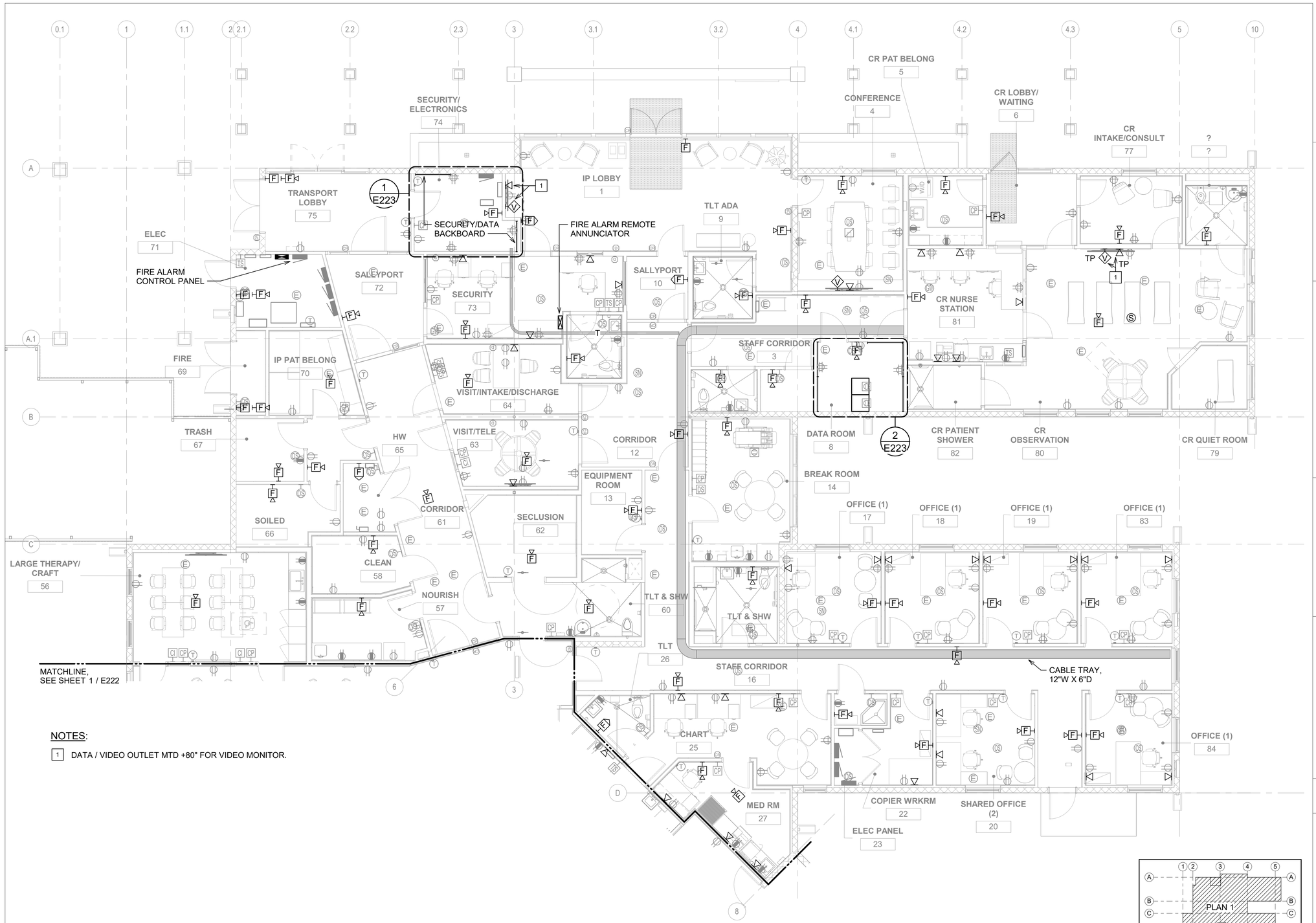
SCALE: AS NOTED

DRAWN BY	CHECKED BY
RVT	BO

PROJECT NO.	SHEET NO.
221093-01	E213

SHEET ISSUE DATE
02/27/2026

3/2/2026 1:11:47 AM



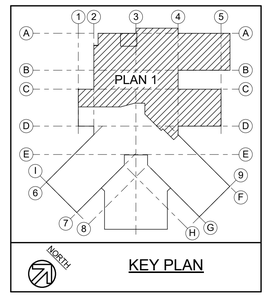
NOTES:

1. DATA / VIDEO OUTLET MTD +80" FOR VIDEO MONITOR.

NORTH

1 E221 PARTIAL SIGNAL PLAN 1
3/16" = 1'-0"

4' 2' 0 4' 8' 12'
SCALE: 3/16"=1'-0"
GRAPHIC SCALE



2153 NORTH KING STREET, SUITE 201
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TMK#: 4-6-014:113

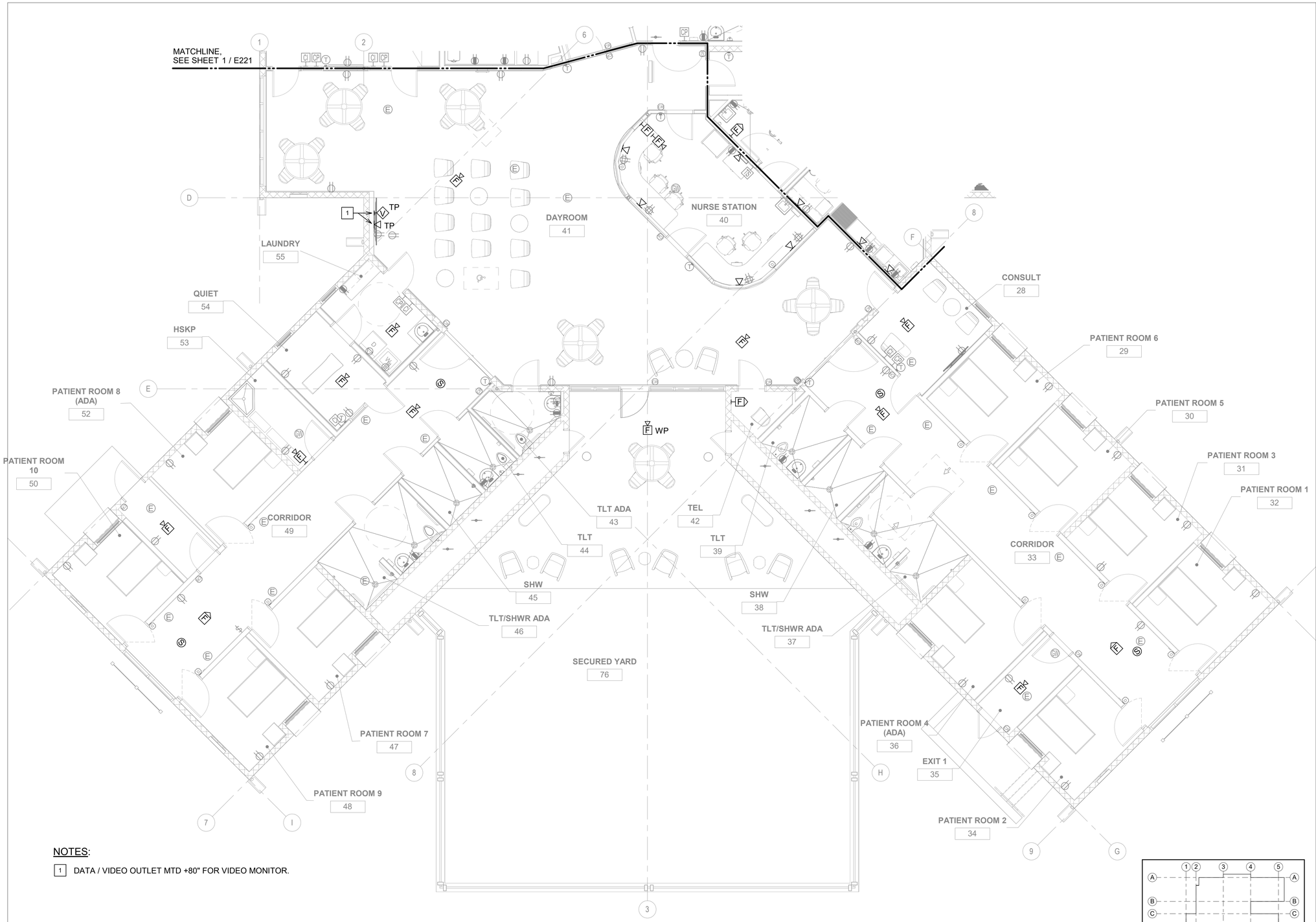
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_Elec_Central2024.rvt

SHEET NAME
PARTIAL SIGNAL PLAN 1

SCALE: AS NOTED

DRAWN BY	CHECKED BY
RVT	BO
PROJECT NO.	SHEET NO.
221093-01	E221
SHEET ISSUE DATE	
02/27/2026	

3/2/2026 1:11:57 AM



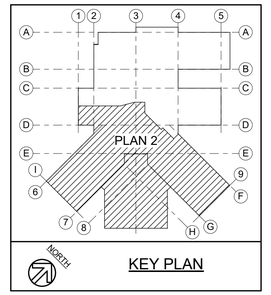
NOTES:

1 DATA / VIDEO OUTLET MTD +80" FOR VIDEO MONITOR.

NORTH

1 E222 PARTIAL SIGNAL PLAN 2
3/16" = 1'-0"

4' 2' 0 4' 8' 12'
SCALE: 3/16"=1'-0"
GRAPHIC SCALE



2153 NORTH KING STREET, SUITE 201
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REVISIONS

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

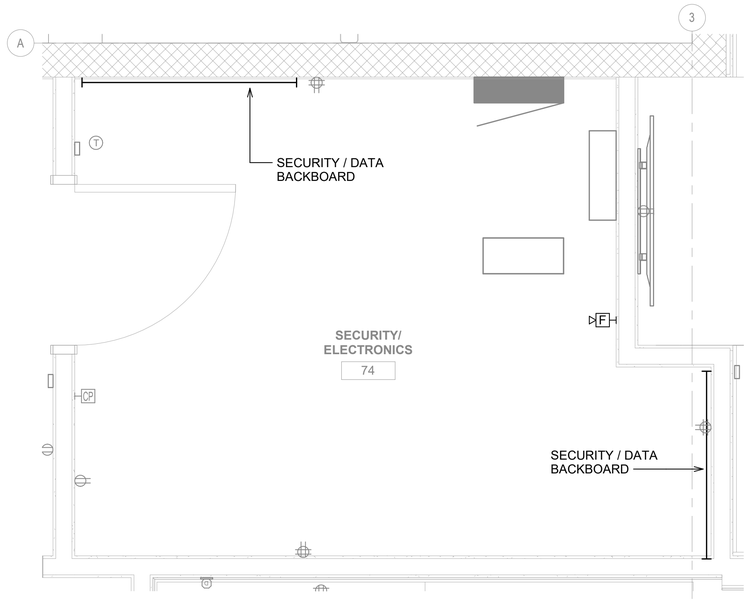
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_Elec_Central2024.rvt

SHEET NAME
PARTIAL SIGNAL PLAN 2

SCALE: AS NOTED

DRAWN BY	CHECKED BY
RVT	BO
PROJECT NO.	SHEET NO.
221093-01	E222
SHEET ISSUE DATE	
02/27/2026	

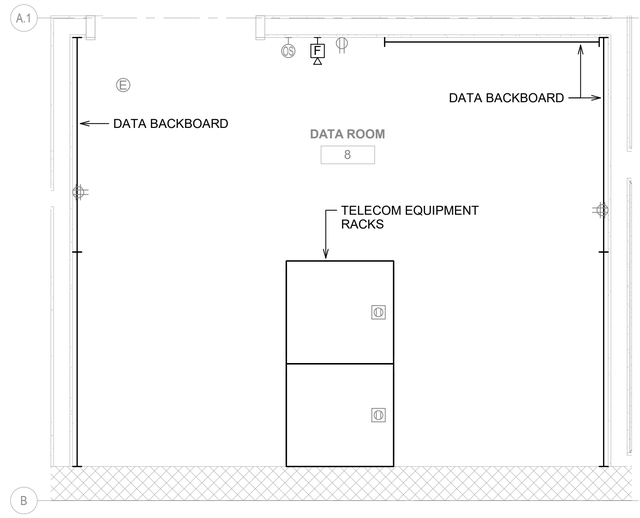
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NORTH

1 E223 ENLARGED SECURITY/SECURITY DATA SIGNAL ROOMS

3/4" = 1'-0"



NORTH

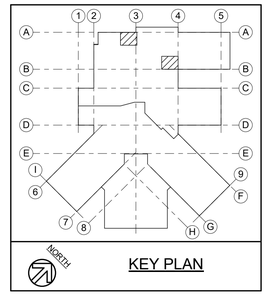
2 E223 ENLARGED DATA ROOM 8

3/4" = 1'-0"

1' 6" 0 1' 2' 3'

SCALE: 3/4"=1'-0"

GRAPHIC SCALE



KEY PLAN

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TMK#: 4-6-014:113

FILENAME

Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_Elec_Central2024.rvt

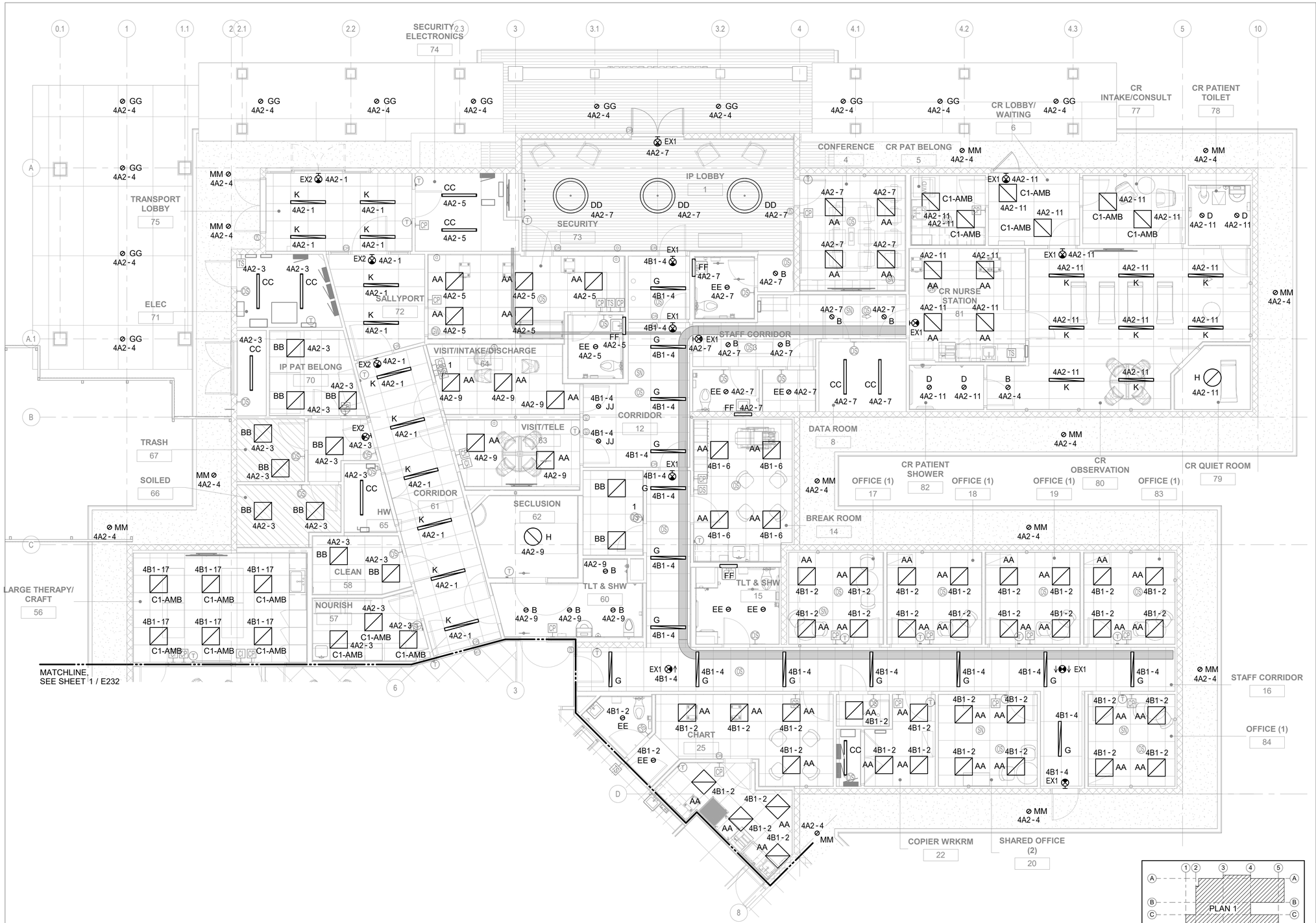
SHEET NAME

ENLARGED SECURITY/SECURITY DATA SIGNAL ROOMS

SCALE: AS NOTED

DRAWN BY	CHECKED BY
RVT	BO
PROJECT NO.	SHEET NO.
221093-01	E223
SHEET ISSUE DATE	
02/27/2026	

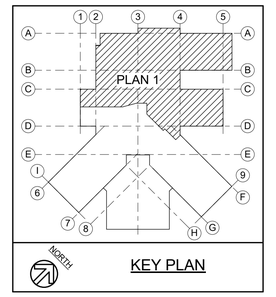
3/2/2026 1:13:43 AM



NORTH

1 E231 PARTIAL LIGHTING PLAN 1
3/16" = 1'-0"

4' 2' 0 4' 8' 12'
SCALE: 3/16"=1'-0"
GRAPHIC SCALE



2153 NORTH KING STREET, SUITE 201
HONOLULU, HAWAII 96819
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TMK#: 4-6-014:113

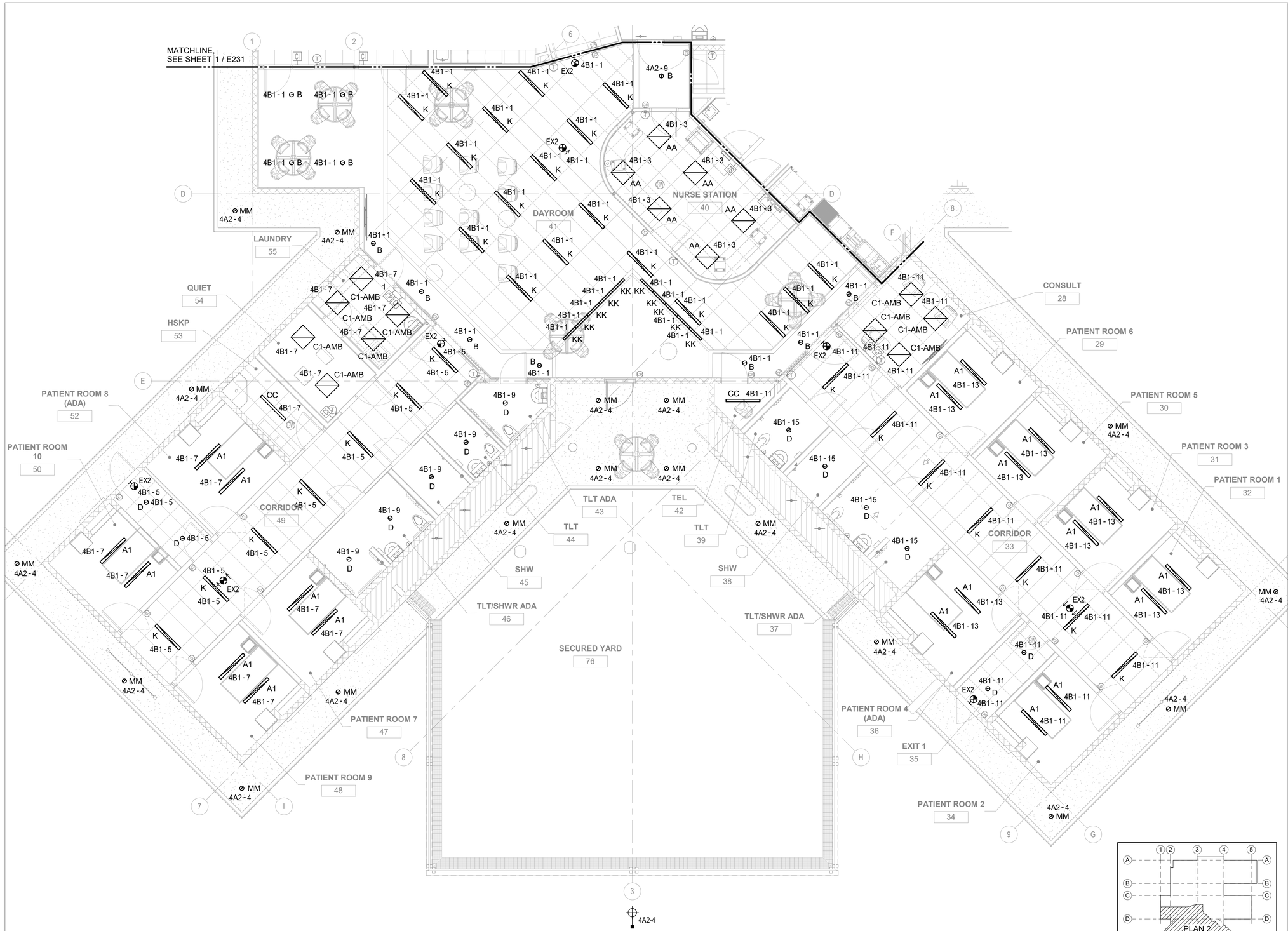
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_Elec_Central2024.rvt

SHEET NAME
PARTIAL LIGHTING PLAN 1

SCALE: AS NOTED

DRAWN BY	CHECKED BY
RVT	BO
PROJECT NO.	SHEET NO.
221093-01	E231
SHEET ISSUE DATE	
02/27/2026	

3/2/2026 1:13:55 AM



NORTH

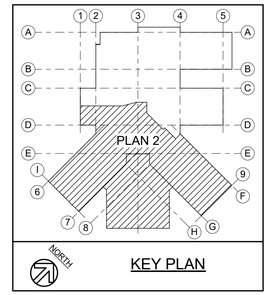
1 E232 PARTIAL LIGHTING PLAN 2

3/16" = 1'-0"

4' 2' 0 4' 8' 12'

SCALE: 3/16"=1'-0"

GRAPHIC SCALE



KEY PLAN

2153 NORTH KING STREET, SUITE 201
HONOLULU, HAWAII 96819
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TMK#: 4-6-014:113

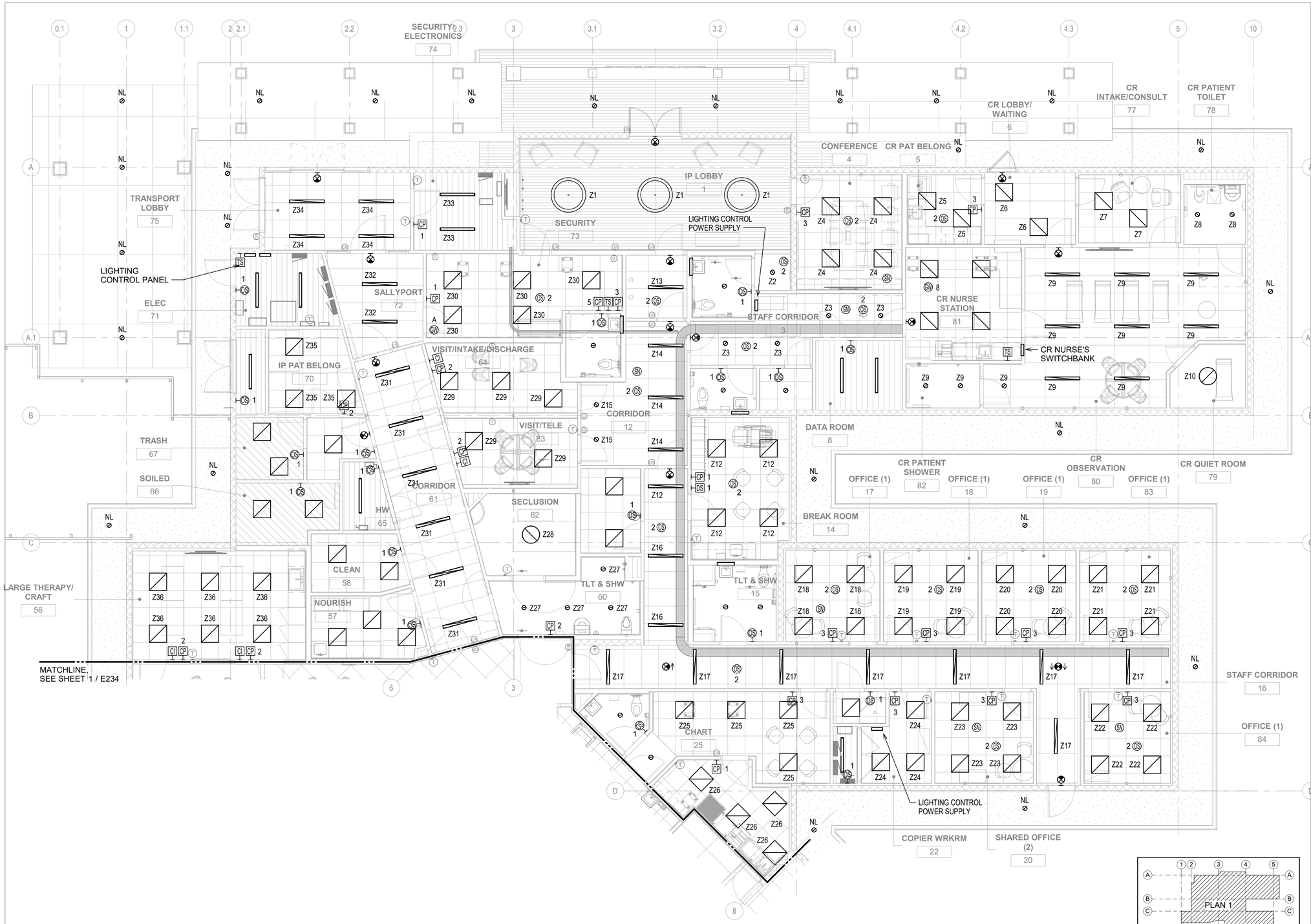
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_Elec_Central2024.rvt

SHEET NAME
PARTIAL LIGHTING PLAN 2

SCALE: AS NOTED

DRAWN BY	CHECKED BY
RVT	BO
PROJECT NO.	SHEET NO.
221093-01	E232
SHEET ISSUE DATE	
02/27/2026	

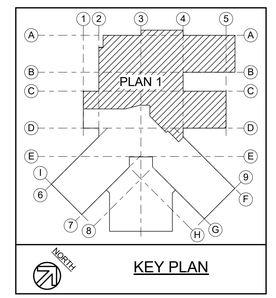
3/2/2026 3:50:17 PM



NORTH

1 E233 PARTIAL LIGHTING CONTROL PLAN 1
3/16" = 1'-0"

4' 2' 0 4' 8' 12'
SCALE: 3/16"=1'-0"
GRAPHIC SCALE



2153 NORTH KING STREET, SUITE 201
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808.941.0577
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PROJECT TITLE
SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

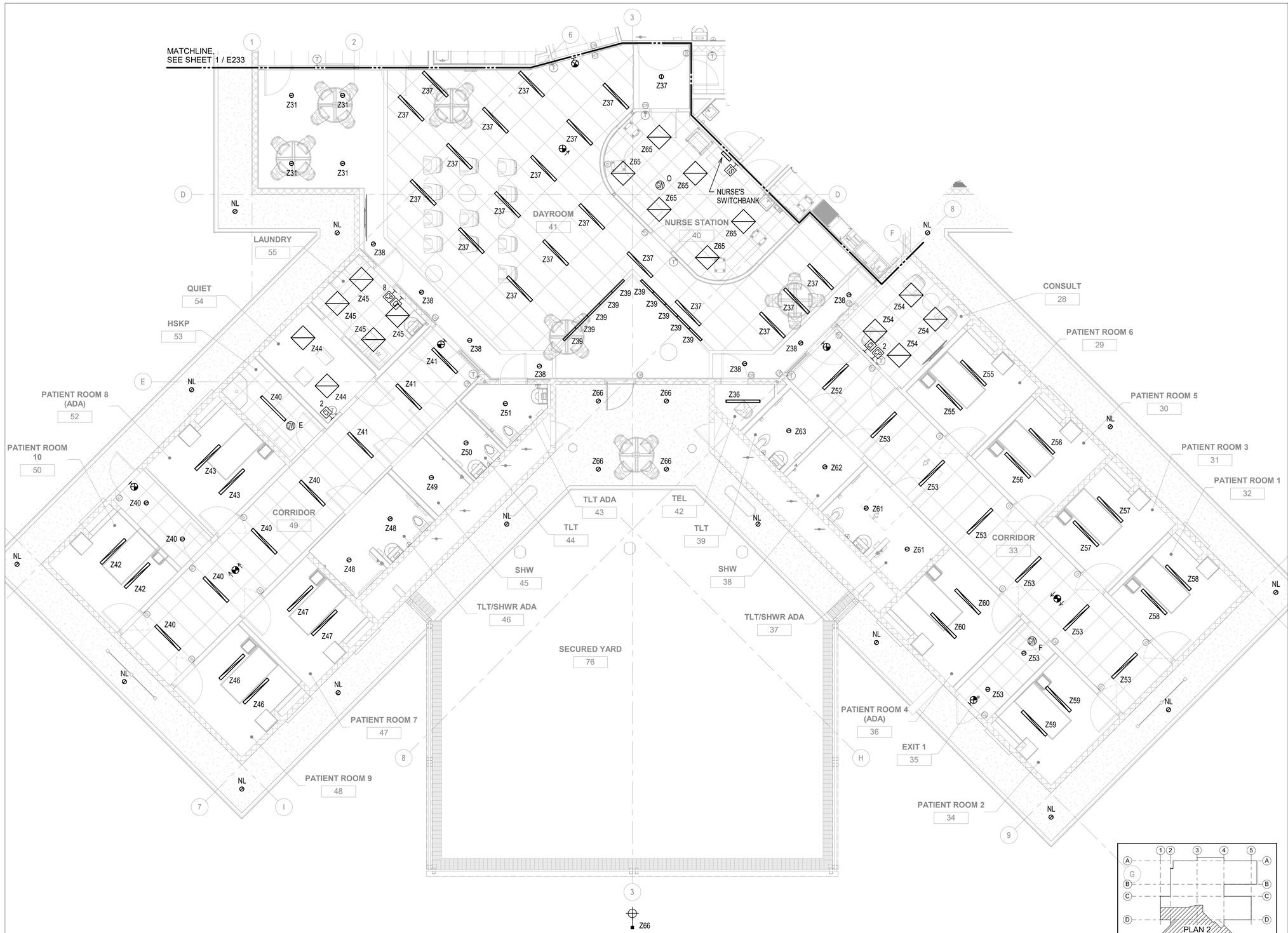
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_Elec_Central2024.rvt

SHEET NAME
PARTIAL LIGHTING CONTROL PLAN 1

SCALE: AS NOTED

DRAWN BY	CHECKED BY
RVT	BO
PROJECT NO. 221093-01	SHEET NO. E233
SHEET ISSUE DATE 02/27/2026	

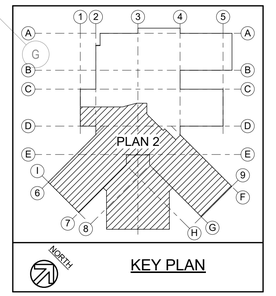
3/2/2026 3:50:30 PM



NORTH

1 E234 PARTIAL LIGHTING CONTROL PLAN 2
3/16" = 1'-0"

4' 2' 0 4' 8' 12'
SCALE: 3/16"=1'-0"
GRAPHIC SCALE



2153 NORTH KING STREET, SUITE 201
HONOLULU, HAWAII 96819
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#	Date	Description

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License Expiration Date

PROJECT TITLE
SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

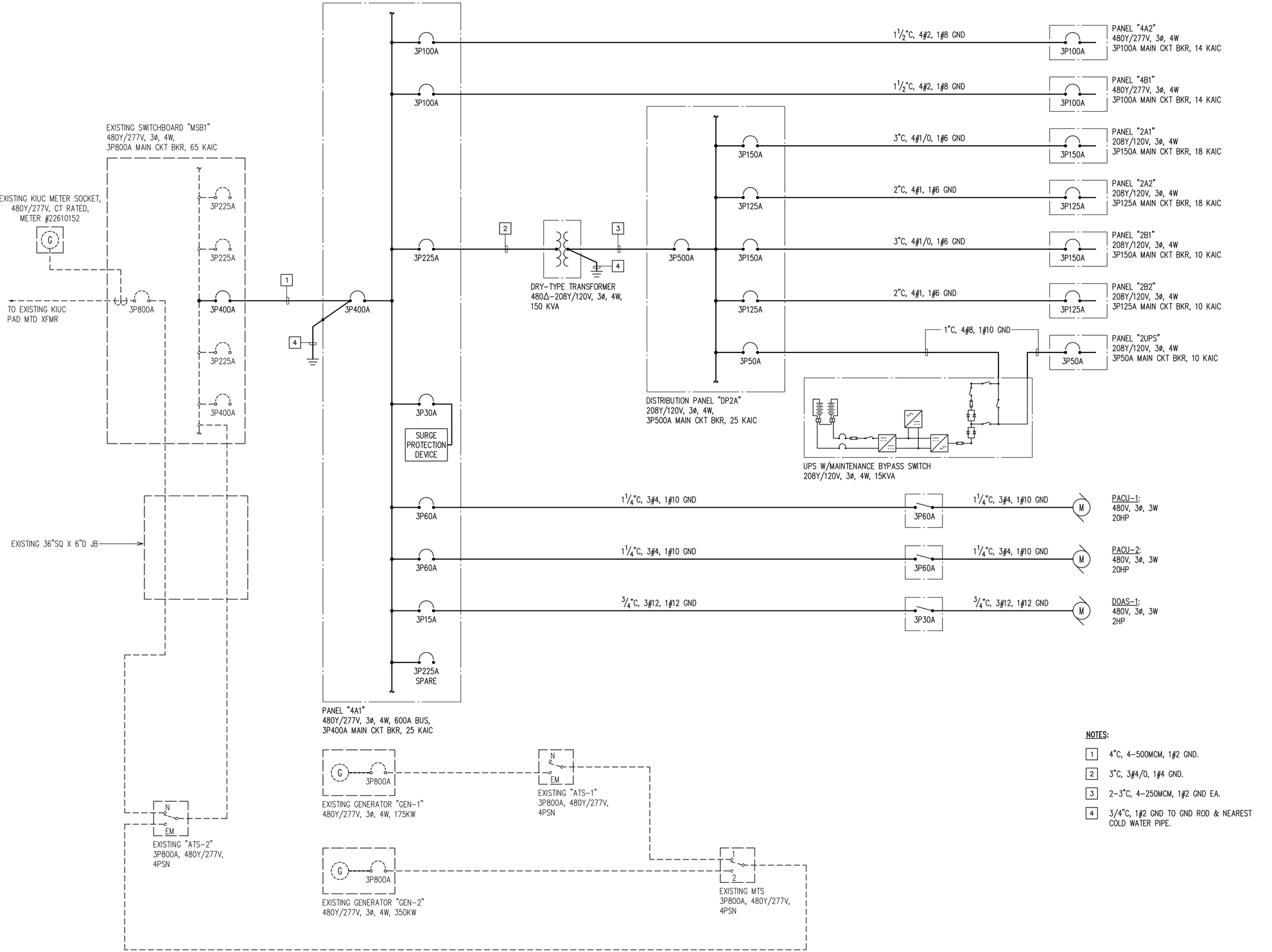
FILENAME
Autodesk Docs://221093-01 SMMH BHNPF/SMMH BHNPF_Elec_Central2024.rvt

SHEET NAME
PARTIAL LIGHTING CONTROL PLAN 2

SCALE: AS NOTED

DRAWN BY	CHECKED BY
RVT	BO
PROJECT NO.	SHEET NO.
221093-01	E234
SHEET ISSUE DATE	
02/27/2026	

3/2/2026 1:14:51 AM



NOTES:

1. 4"C, 4-500MCM, 1#2 GND.
2. 3"C, 3#4/0, 1#4 GND.
3. 2-3"C, 4-250MCM, 1#2 GND EA.
4. 3/4"C, 1#2 GND TO GND ROD & NEAREST COLD WATER PIPE.

ONE-LINE DIAGRAM

2153 NORTH KING STREET, SUITE 201
HONOLULU, HAWAII 96819
808.941.0577
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REVISIONS

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02/27/2026

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME

SHEET NAME

ONE-LINE DIAGRAM

SCALE: NONE

DRAWN BY	CHECKED BY
CAD	BO
PROJECT NO.	SHEET NO.
221093-01	**E301**
SHEET ISSUE DATE	
02/27/2026	

LAST SAVE: 03/01/26 @ 22:40:00 BY: BO PLOT SC: 1"=1'

LIGHT FIXTURE SCHEDULE - PATIENT AREAS

TYPE	MOUNTING	DESCRIPTION	LIGHT ENGINE/DRIVER	LED DRIVER	VOLTAGE	POWER (W)	MANUFACTURER OR APPROVED SUBSTITUTE	REMARKS	LOCATION
A	CEILING RECESSED	2'W X 2'L X 2-7/8"D, BEHAVIORAL HEALTH, OVERBED USE LUMINAIRE, 14-GA ALUMINUM HOUSING AND BEZEL, 3/16" THICK HIGH IMPACT CLEAR POLYCARBOATE LENS WITH ANTI-SCRATCH COATING AND TAMPER-RESISTANT FASTENERS, WHITE ANTIMICROBIAL POWDERCOAT PAINT FINISH, HI/LOW OPERATION, L85 RATED FOR 60,000 HOURS. LUTRON ATHENA SENSOR.	INTEGRATED LED, 3500K, 3600 LUMENS, 80 CRI	REMOTE, 2-CIRCUIT (AMBIENT/ READING)	120-277V	52W	VISA LIGHTING CM1884-W-L35K(H)-MVOLT-BHGRID-AWN		NURSES STATION, CHART OFFICE
A1	CEILING RECESSED	4-5/8"W X 48-1/8"L X 4-1/8"D BEHAVIORAL HEALTH OVERBED FIXTURE, HIGH-ABUSE LENS AND FRAM WITH HIGH-IMPACT CLEAR POLYCARBONATE SEUCRED WITH TAMPER RESISTANT FASTENERS, SEALED/GASKETED LENS, LEFT AND RIGHT MODELS WIRED INDEPENDENTLY, LIGATURE RESISTANT INSTALLATION IN GYPBOARD CEILINGS, IP65. COORDINATE FRAME COLOR WITH ARCHITECT.	INTEGRATED LED, 3500K, 9100 LUMENS (COMBINED AMBIENT/EXAM), 80 CRI	0-10 VOLT	277V	118W	VISA LIGHTING CM2062-T-TUN2-277-AWN-AWN		PATIENT ROOMS
B	CEILING RECESSED	4" DIAMETER ROUND RECESSED DOWNLIGHT, ACRYLIC ENAMELED ALUMINUM HOUSING, LIGATURE-RESISTANT SMOOTH TAPERED SELF-FLANGED CAST ALUMINUM TRIM, DIFFUSE ACRYLIC LENS ABOVE .220" CLEAR POLYCARBONATE, TAMPERPROOF HARDWARE, L70 RATED FOR 60,000 HOURS. FIXTURE TO BE PROVIDED WITH LUTRON AWN CONTROL NODE.	INTEGRATED LED, 3500K, 2500 LUMENS, 80 CRI	0-10 VOLT	120-277V	27W	KIRLIN LRC-04VND-2500L-RWF-MFL-35K-D2-I66-AWN		DAYROOM
C-AMB	CEILING RECESSED	25-1/8""W X 25-1/8""H X 3-1/2"D BEHAVIORAL HEALTH, 1/8" THICK HIGH-IMPACT CLEAR POLYCARBONATE LENS, HIGH TRANSMITTANCE MATTE WHITE ACRYLIC EDGE DIFFUSER, DECORATIVE CENTER PANEL, LIGATURE RESISTANT INSTALLATION IN GYPBOARD, CEILINGS, DAMP LOCAATION LISTED, WHITE POWDER COAT PAINT FINISH. LUTRON	INTEGRATED LED, 3500K, 2200 LUMENS, 80 CRI	0-10 VOLT	120-277V	29W	VISA LIGHTING CM1922-L35K(L)-MVOLT-90CRI-VEN-AWN		CONSULT/LARGE THERAPY/NOURISH
C-EXAM	CEILING RECESSED	25-1/8""W X 25-1/8""H X 3-1/2"D BEHAVIORAL HEALTH, 1/8" THICK HIGH-IMPACT CLEAR POLYCARBONATE LENS, HIGH TRANSMITTANCE MATTE WHITE ACRYLIC EDGE DIFFUSER, DECORATIVE CENTER PANEL, LIGATURE RESISTANT INSTALLATION IN GYPBOARD, CEILINGS, DAMP LOCAATION LISTED, WHITE POWDER COAT PAINT FINISH. LUTRON	INTEGRATED LED, 3500K, 5500 LUMENS , 80 CRI	0-10 VOLT	120-277V	97W	VISA LIGHTING CM1922-L35K(H)-MVOLT-90CRI-VEN-AWN		MED ROOM
D	CEILING RECESSED	6" DIAMETER VANDAL RESISTANT ANTI-LIGATURE RECESSED DOWNLIGHT, ACRYLIC ENAMELED ALUMINUM HOUSING, ALUMINUM HEATSINK, LIGATURE RESISTANT WHITE SELF-FLANGED ALUMINUM TRIM W/ANTI-MICROBIAL WHITE FINISH, WET LOCATION LISTED, L70 RATED FOR 90,000 HOURS. LUTRON ATHENA SENSOR.	INTEGRATED LED, 3500K, 1500 LUMENS, 80 CRI	0-10 VOLT	277V	18W	KIRLIN MRV-0658-1500L-277-35K-WFL-D1-AWN-I66		PATIENT TOILET/SHOWER, EXTERIOR
E	WALL RECESSED	3.51"W X 6.68"H X 0.77"D, STEPLIGHT/NIGHTLIGHT, 16GA GALVANIZED HOUSING, IMPACT AND VANDAL RESISTANT, CAST ALUMINUM FACEPLATE, 1/8" CLEAR POLYCARBONATE LENS W/ANTI-PIXELATION FILM, TAMPER-RESISTANT SCREWS, IP66 RATED, WHITE FINISH. LUTRON ATHENA SENSOR.	INTEGRATED LED, 590nm LED,	FIXED	120-277V	11W	KIRLIN MTT-03NLT-HORCT-590 AMBER-D1-99 AWN		PATIENT ROOMS
F	CEILING RECESSED	4-5/8"W X 48-1/8"L X 4-1/8"D BEHAVIORAL HEALTH RECESSED SLOT FIXTURE, EXRTUDED ALUMINUM FRAME, HIGH-ABUSE LENS AND FRAM WITH HIGH-IMPACT CLEAR POLYCARBONATE SEUCRED WITH TAMPER RESISTANT FASTENERS, SEALED/GASKETED LENS, IP65, WET LOCATION LISTED. COORDINATE FRAME COLOR WITH ARCHITECT	INTEGRATED LED, 3500K, 3000 LUMENS, 80 CRI	0-10 VOLT	120-277V	36w	VISA LIGHTING CV1680-L35K(H)-MVOLT		DAYROOM
G	CEILING RECESSED	2-7/8"W X 4"D X 48"L RECESSED LINEAR FIXTURE, 6063-T6 ALUMINUM BODY, DIE-FORMED 20-GAUGE COLD-ROLLED STEEL REFLECTOR WITH HIGH REFLECTANCE POWER CAOT PAINT, FLUSH FROST WHITE SNAP-IN DFFUSER, RECESSED T-BAR MOUNT, DAMP LOCATION LISTED. COORDINATE FINISH COLOR WITH ARCHITECT. LUTRON ATHENA	INTEGRATED LED, 3500K, 3200 LUMENS, 80 CRI	0-10 VOLT	277V	37W	FINELITE HP2-R-D-4FT-V-835-F-277-SC-FC-10%-FE-SW-ARF-W		PUBLIC CORRIDORS
H	CEILING RECESSED	23" DIAMETER X 6-5/8"D RECESSED BEHAVIORAL DOWNLIGHT, RECYLABLE ALUMINUM OUSING, HIGH-ABUSE 3/16" THICK CLEAR POLYCARBONATE LENS, LIGATURE RESISTANT INSTALLATION IN GYPBOARD CEILINGS, TWO-CHANNEL TUNEABLE CONTROL FOR CCT AND DIMMING. LUTRON ATHENA SENSOR.	INTEGRATED LED, TUNEABLE CCT, 4500 LUMENS, 90 CRI	0-10 VOLT	120-277V	63W	VISA LIGHTING CM1988-T-TUN2(H)-MVOLT		SECLUSION
J		NOT USED							
K	CEILING RECESSED	3-1/2"W X 47-7/8"L X 3-3/4"D LINEAR SLOT FIXTURE, EXTGRUDED ALUMINUM HOUSING, IMPACT-RESISTANT EXTRUDED LENS WITH INTEGRAL SNAP AND DIFFUSION MOUNTING , 1/2" FLANGED TRIM. CORRDINATE FINISH COLOR WITH ARCHITECT. LUTRON ATHENA	INTEGRATED LED, 3500K, 750 LUMENS, 90 CRI	0-10 VOLT	120-277V	32W	KIRLIN PRL-02SWM-4FT-1200L-DD-6527-TW8-TG-I66-AWN-99 (CEILING)		CR OBSERVATION
EX2	WALL OR CEILING MOUNT	EXIT SIGN LIGHT FIXTURE, ANTI-LIGATURE, DIE-CAST ALUMINUM HOUSING, REMVABLE FACE WITH FIELD SELECTABLE CHEVRON DIRECTIONAL ARROWS, INJECTION MOLEDED REFRACTIVE LIGHT GUIDE. VERIFY BODY COLOR WITH ARCHITECT.	INTEGRATED GREEN LED		120-277V	2W	EVENLITE RBH-AC-G		PATIENT AREA EXITS

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REVISIONS

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02/27/2026

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME

SHEET NAME

LIGHT FIXTURE SCHEDULE

SCALE: NONE

DRAWN BY	CHECKED BY
CAD	BO
PROJECT NO.	SHEET NO.
221093-01	**E401**
SHEET ISSUE DATE	
02/27/2026	

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LIGHT FIXTURE SCHEDULE - STAFF AND PUBLIC AREAS

TYPE	MOUNTING	DESCRIPTION	LIGHT ENGINE/DRIVER	LED DRIVER	VOLTAGE	POWER (W)	MANUFACTURER OR APPROVED SUBSTITUTE	REMARKS	LOCATION
AA	CEILING RECESSED	2' X 2' RECESSED ARCHITECTURAL TROFFER, DIE-FORMED 22-GAUGE COLD-ROLLED STEEL HOUSING, EXTRUDED ALUMINUM HINGED DOOR FRAME, BACKLIT CURVED DIFFUSE MOLDED ACRYLIC LENS, POLYESTER POWDER COAT PAINT FINISH, L7 RATED FOR 60,000 HOURS. LUTRON ATHENA SENSOR.	INTEGRATED LED, 3500K, 3100 LUMENS, 80 CRI	0-10 VOLT	120-277V	30W	WILLIAMS AT2- 22-L30-835-D-DIM-UNV-AWN		OFFICES, PUBLIC CORRIDORS
BB	CEILING RECESSED	2' X 2' RECESSED FLAT PANEL, DIE-FORMED STEEL HOUSING W/ALUMINUM FRAME, BACKLIT PMMA LENS, MATTE WHITE POLYESTER POWDER COAT PAINT FINISH, L90 RATED FOR 54,000 HOURS.	INTEGRATED LED, 3500K, 3350 LUMENS, 80 CRI	0-10 VOLT	120-277V	30W	WILLIAMS BP-22-LS-8CS-DIM-UNV-30W-3500K		UTILTIY ROOMS
CC	CELING PENDANT	10-3/16"W X 48"L X 4"H LINEAR LED WRAPAROUND FIXTURE, 22-GAUGE DIE-FORMED STEEL HOUSING, FROSTED RIBBED ACRYLIC LENS, WHITE POLYESTER POWDER COAT PAINT FINISH, L70 RATE FOR 72,000 HOURS, UL LISTED FOR DAMP LOCATIONS	INTEGRATED LED, 3500K, 5200 LUMENS, 80 CRI	0-10 VOLT	120-277V	37W	WILLIAMS 39-4-L52-835-A-DIM-UNV		UTILTIY ROOMS
DD	CEILING PENDANT	48 DIA X 11.5 ARCHITECTURAL PENDANT FIXTURE, ALUMINUM AND STEEL CONSTRUCTION WITH A MOLDED SINGLE PIECE, TAPERED DRUM DIFFUSER WITH OPEN CENTER, FIELD REPLACEABLE LED ARRAYS AND INTEGRAL DRIVERS, 3 ANGLED AIRCRAFT CABLE SUPPORTS W/WHITE POWER CORD TO CANOPY, STAINLESS STEEL HARDWARE. LUTRON ATHENA SENSOR.	INTEGRATED LED, 3500K, 10830 LUMENS, 80 CRI	0-10 VOLT	120-277V	95W	OCL L01-P1EC-48-MW-LED1-35K-UNV-48-DM1-AWN		LOBBY
EE	CEILING RECESSED	4" DIAMETER ROUND ARCHITECTURAL DOWNLIGHT, PAINTED BLACK STEEL PLATFORM WITH PRE-INSTALLED HANGERS, PRE-WIRED JUNCTION BOX WITH SNAP ON COVERS, 50 DEGREE CUTOFF OPTICS, OPTICAL GRADE SILICONE LENS, 4-PANEL ALUMINUM REFLECTOR, L90 RATED FOR 55,000 HOURS	INTEGRATED LED, 3500K, 2000 LUMENS, 80 CRI	0-10 VOLT	120-277V	22W	PRESCOLITE LTR-4RD-H-ML20L-DM1 / LTR-4RD-T-ML35K8WD-WC-WT-B24		PUBLIC/STAFF RESTROOMS, PUBLIC CORRIDORS
FF	WALL RECESSED	36"H X 24"W X 2-1/8"D RADIUS CORNER ILLUMINATED MIRROR, 480-HOUR CASS-TESTED MIRROR GLASS, LEAD-FREE, COPPER-FREE MIRROR GLASS COMPOSITION, REPLACEABLE LED, L70 RATED FOR 52,000 HOURS	INTEGRATED LED, 3500K, 140 LUMENS/WATT, 90 CRI	FIXED	277V	74W	ELECTRICAL MIRROR EYL4-RC2.0-24.00X36.00-LHERD-35K		PUBLIC RESTROOMS
GG	CEILING SURFACE	SURFACE DOWNLIGHT, CORROSION-RESISTANT CAST ALUMINUM HOUSING, OPTICAL POLYMER LENS, BLACK ANTI-DAZZLE CONE. VERIFY FINISH COLOR WITH ARCHITECT.	INTEGRATED LED, 3500K, 1272 LIMENS, 82 CRI	0-10 VOLT	120-277V	12W	ERCO-39958.023		EXTERIOR
HH	CEILING RECESSED	3" DIAMETER ROUND ARCHITECTURAL DOWNLIGHT, PAINTED BLACK STEEL PLATFORM WITH PRE-INSTALLED HANGERS, PRE-WIRED JUNCTION BOX WITH SNAP ON COVERS, 50 DEGREE CUTOFF OPTICS, OPTICAL GRADE SILICONE LENS, 59 DEGREE WIDE DISTRIBUTION, 4-PANEL ALUMINUM REFLECTOR, L90 RATED FOR 55,000 HOURS	INTEGRATED LED, 3500K, 1500 LUMENS, 80 CRI	0-10 VOLT	120-277V	18W	PRESCOLITE LTR-3RD-H-SL15L-DM1 / LTR-3RD-T-SL35K8WDS		STAFF CORRIDOR
JJ	CEILING RECESSED	2" DIAMETER ROUND ADJUSTABLE ARCHITECTURAL DOWNLIGHT, DIE-CAST ALUMINUM SOUN AND STAMPED ARTICULATING MECHANISM WITH FORGED ALUMINUM HEAT SINK, GALVANIZED SPLICE COMPARTMENT, LOW-IRIDESCENT ANODIZED ALUMINUM REFLECTOR DIE-CAST ALUMINUM FRAME AND MICRO-PRISMATIC ACRYLIC LENS, ADJSTABLE AIM WITH 360 DEGREE ROTATION AND 0-45 DEGREE TILT, L70 RATED FOR 44,000 HOURS. LUTRON ATHENA SENSOR.	INTEGRATED LED, 3500K, 1500 LUMENS, 80 CRI	0-10 VOLT	120-277V	28W	WILLIAMS 2AR-L15-935-DIM-UNV-LW-OF-WH-AWN		CORRIDOR
KK	WALL RECESSED	9-7/8"H X 24-5/16"L X 3-1/2"D RECESSED WALL WASH FIXTURE, HIGH-PURITY ALUMINUM REFLECTOR WITH HIGH REFLECTANCE, 22-GAUGE COL ROLLED STEEL TGIC POLYESTER POWEDER COATED HOUSING. VERIFY FINISH COLOR WITH ARCHITECT. LUTRON ATHENA SENSOR.	INTEGRATED LED, 3500K, 2500 LUMENS, 80 CRI	1% DIMMING	120-277V	22W	ELP 222W1WW-AK-35K-AWN		DAYROOM
LL	CEILING SURFACE	48"L X 2-1/2"W X 2-1/4"D LINEAR WALL WASH LUMINAIRE, ANODIZED ALUMINUM HOUSING WITH DIE-CAST END CAPS, POLYCARBONATE LENS, IP67, L90 RATED FIR 50,000 HOURS.	INTERGRATED LED, 3000K, 2250 LUMENS, 90 CRI	0-10 VOLT	120-277V	26W	ORGATECH 1300X-4-LEH-30-U-D1-30-LB		EXTERIOR SIGN
MM	CEILING SURFACE	12" SHALLOW CYLINDER SURFACE DOWNLIGHT, SEAMLESS WHITE ACRYLIC ALUMINUM HOUSING WITH ENAMELED FINISH, WEATHERPROOF CLOSED-CELL TOP GASKET, ALUMINUM HEAT SINK, L70 RATED FOR 60,000 HOURS	INTEGRATED LED, 3000K, 1500 LUMENS, 80 CRI	0-10 VOLT	120-277V	27W	KIRLIN LSC-12RSD-1500L-WFL-30K-UNV-13		EXTEIOR PERIMETER
EX1	WALL OR CEILING MOUNT	EXIT SIGN LIGHT FIXTURE, CLEAR LASER FORMED EDGELIT LENS, SELF-ADHESIVE CHEVRON ARROWS, HINGED RETAINING SPRINGS, GREEN LED. VERIFY HOUSING FINISH COLOR WITH ARCHITECT.	INTEGRATED GREEN LED		120-277V	2W	EVENLITE SOVII-AC-G		PUBLIC EXITS

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REVISIONS

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02/27/2026

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME

SHEET NAME

LIGHT FIXTURE SCHEDULE

SCALE: NONE

DRAWN BY	CHECKED BY
CAD	BO
PROJECT NO. 221093-01	SHEET NO. **E402**
SHEET ISSUE DATE 02/27/2026	

LAST SAVE: 11/15/21 @ 08:41:50 BY: BO PLOT SC: 1=1'

PANEL4A1 — 3P400A MAIN CIRCUIT BREAKER, 480Y/277V, 3 PHASE, 4 WIRE, 25,000 A.I.C. MINIMUM INDUSTRIAL-BOLTED TYPE, SURFACE MOUNTED

CKT. NO.	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	BREAKER POLE	BREAKER AMPS	WIRE SIZE	KVA ON BUSSES PHASE A	PHASE B	PHASE C	WIRE SIZE	BREAKER POLE	BREAKER AMPS	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	CKT. NO.
1	PACU-1	3	60	8	7.2	50.0		4/0	3	225	PANEL DP2A XFMR	2
3	-	-	-	8		7.2	50.0	4/0	-	-	-	4
5	-	-	-	8			7.2 50.0	4/0	-	-	-	6
7	PACU-2	3	60	8	7.2	4.3		2	3	100	PANEL 4A2	8
9	-	-	-	8		7.2	4.4	2	-	-	-	10
11	-	-	-	8			7.2 3.0	2	-	-	-	12
13	DOAS-1	3	15	12	0.9	6.0		2	3	100	PANEL 4B1	14
15	-	-	-	12		0.9	4.1	2	-	-	-	16
17	-	-	-	12			0.9 3.5	2	-	-	-	18
19		1	20	12				12	1	20		20
21		1	20	12				12	1	20		22
23		1	20	12				12	1	20		24
25		1	20	12				12	1	20		26
27		1	20	12				12	1	20		28
29		1	20	12				12	1	20		30
31		1	20	12				12	1	20		32
33		1	20	12				12	1	20		34
35		1	20	12				12	1	20		36
37		1	20	12					1	20		38
39		1	20	12				12	1	20		40
41		1	20	12				12	1	20		42
	CONNECTED LOAD PER PHASE				75.6	73.8	71.8					

TOTAL CONNECTED LOAD (KVA) 221.2

(*) DENOTES CIRCUIT BREAKER TO REMAIN IN THE "OFF" POSITION.

PANEL 4B1 — 3P100A MAIN CIRCUIT BREAKER, 480Y/277V, 3 PHASE, 4 WIRE, 14,000 A.I.C. MINIMUM INDUSTRIAL-BOLTED TYPE, SURFACE MOUNTED

CKT. NO.	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	BREAKER POLE	BREAKER AMPS	WIRE SIZE	KVA ON BUSSES PHASE A	PHASE B	PHASE C	WIRE SIZE	BREAKER POLE	BREAKER AMPS	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	CKT. NO.
1	L-DAYROOM	1	20	12	1.0	1.2			1	20	L-OFFICES	2
3	L-NURSES STATION	1	20	12		0.5	0.6		1	20	L-OFFICE CORRIDOR	4
5	L-PATIENT CORRIDOR (WEST)	1	20	12			0.5 0.2		1	20	L-BREAK/EQUIP ROOMS	6
7	L-PATIENT ROOMS (WEST)	1	20	12	1.0				1		PFB	8
9	L-PATIENT TOILETS (WEST)	1	20	12		0.5			1		PFB	10
11	L-PATIENT CORRIDOR (EAST)	1	20	12			0.5		1		PFB	12
13	L-PATIENT ROOMS (EAST)	1	20	12	1.0				1		PFB	14
15	L-PATIENT TOILETS (EAST)	1	20	12		0.5			1		PFB	16
17	L-LARGE THERAPY/CRAFT	1	20	12			0.2		1		PFB	18
19	S (*)	1	20		1.0				1		PFB	20
21	S (*)	1	20			1.0			1		PFB	22
23	S (*)	1	20				1.0		1		PFB	24
25	S (*)	1	20		1.0				1		PFB	26
27	S (*)	1	20			1.0			1		PFB	28
29	S (*)	1	20				1.0		1		PFB	30
	CONNECTED LOAD PER PHASE				6.2	4.1	3.4					

TOTAL CONNECTED LOAD (KVA) 13.7

(*) DENOTES CIRCUIT BREAKER TO REMAIN IN THE "OFF" POSITION.

PANEL 4A2 — 3P100A MAIN CIRCUIT BREAKER, 480Y/277V, 3 PHASE, 4 WIRE, 14,000 A.I.C. MINIMUM INDUSTRIAL-BOLTED TYPE, SURFACE MOUNTED

CKT. NO.	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	BREAKER POLE	BREAKER AMPS	WIRE SIZE	KVA ON BUSSES PHASE A	PHASE B	PHASE C	WIRE SIZE	BREAKER POLE	BREAKER AMPS	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	CKT. NO.
1	L-SALLYPORT/CORRIDOR	1	20	12	0.4	0.9		10	1	20	L-PARKING	2
3	L-PAT BELNG/TRASH/CLEAN/ELEC	1	20	12		0.4	1.0	10	1	20	L-EXTERIOR PERIMETER	4
5	L-SECURITY/DATA	1	20	12			0.3		1		PFB	6
7	L-LOBBY/CORRIDOR/CONF	1	20	12	0.5				1		PFB	8
9	L-VISITOR INTAKE/SECLUSION	1	20	12		0.2			1		PFB	10
11	L-CR WING	1	20	12			0.4		1		PFB	12
13	S (*)	1	20		1.0				1		PFB	14
15	S (*)	1	20			1.0			1		PFB	16
17	S (*)	1	20				1.0		1		PFB	18
19	S (*)	1	20		1.0				1		PFB	20
21	S (*)	1	20			1.0			1		PFB	22
23	S (*)	1	20				1.0		1		PFB	24
25	PFB	1							1		PFB	26
27	PFB	1							1		PFB	28
29	PFB	1							1		PFB	30
	CONNECTED LOAD PER PHASE				3.8	3.6	2.7					

TOTAL CONNECTED LOAD (KVA) 10.1

(*) DENOTES CIRCUIT BREAKER TO REMAIN IN THE "OFF" POSITION.

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REVISIONS

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME

SHEET NAME

PANEL SCHEDULES

SCALE: NONE

DRAWN BY	CHECKED BY
CAD	BO
PROJECT NO. 221093-01	SHEET NO. **E404**
SHEET ISSUE DATE 02/27/2026	

LAST SAVE: 11/15/21 @ 08:41:50 BY: BO PLOT SC: 1"=1"

DISTRIBUTION PANEL DP2A

3P500A MAIN CIRCUIT BREAKER, 208Y/120V, 3 PHASE, 4 WIRE,
25,000 A.I.C. MINIMUM INDUSTRIAL-BOLTED TYPE,
SURFACE MOUNTED

CKT. NO.	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	BREAKER POLE	BREAKER AMPS	WIRE SIZE	KVA ON BUSSES PHASE A		PHASE B		PHASE C		WIRE SIZE	BREAKER POLE	BREAKER AMPS	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	CKT. NO.
1	PANEL 2A1	3	125	1	13.6	11.5					1/0	3	150	PANEL 2B1	2
3	-	-	-	1			14.1	13.3			1/0	-	-	-	4
5	-	-	-	1					15.4	9.4	1/0	-	-	-	6
7	PANEL 2A2	3	125	1	9.0	6.9					1	3	125	PANEL 2B2	8
9	-	-	-	1			8.5	5.7			1	-	-	-	10
11	-	-	-	1					8.1	5.9	1	-	-	-	12
13	PANEL 2UPS	3	50	8	4.2							3		PFB	14
15	-	-	-	8			5.0					-	-	-	16
17	-	-	-	8					5.0			-	-	-	18
19	PFB	3										3		PFB	20
21	-	-	-									-	-	-	22
23	-	-	-									-	-	-	24
25	PFB	3										3		PFB	26
27	-	-	-									-	-	-	28
29	-	-	-									-	-	-	30
31	PFB	3										3		PFB	32
33	-	-	-									-	-	-	34
35	-	-	-									-	-	-	36
37	PFB	3										3		PFB	38
39	-	-	-									-	-	-	40
41	-	-	-									-	-	-	42
	CONNECTED LOAD PER PHASE				45.2		46.6		43.8						

TOTAL CONNECTED LOAD (KVA) 135.6
DEMAND FACTOR 80%
DEMAND LOAD (KVA) 108.5
DEMAND LOAD (A) 301.1

(*) DENOTES CIRCUIT BREAKER TO REMAIN IN THE "OFF" POSITION.

PANEL 2A2

3P125A MAIN CIRCUIT BREAKER, 208Y/120V, 3 PHASE, 4 WIRE,
18,000 A.I.C. MINIMUM INDUSTRIAL-BOLTED TYPE,
SURFACE MOUNTED

CKT. NO.	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	BREAKER POLE	BREAKER AMPS	WIRE SIZE	KVA ON BUSSES PHASE A		PHASE B		PHASE C		WIRE SIZE	BREAKER POLE	BREAKER AMPS	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	CKT. NO.
1	WH-1	3	45	8	4.0	0.5					12	1	20	TU-INTAKE QUAD	2
3	-	-	-	8			4.0	0.5			12	1	20	TU-OUTPATIENT QUAD	4
5	-	-	-	8					4.0	0.2	12	1	20	EF-8	6
7	WH-2	3	45	8	4.0	0.1					12	1	20	EF-6	8
9	-	-	-	8			4.0	0.1			12	1	20	EF-7	10
11	-	-	-	8					4.0			1		PFB	12
13	HWCP-1	1	15	12	0.1							1		PFB	14
15	S (*)	1	20				1.0					1		PFB	16
17	S (*)	1	20						1.0			1		PFB	18
19	S (*)	1	20		1.0							1		PFB	20
21	S (*)	1	20				1.0					1		PFB	22
23	S (*)	1	20						1.0			1		PFB	24
25	S (*)	1	20		1.0							1		PFB	26
27	PFB	1										1		PFB	28
29	PFB	1										1		PFB	30
31	PFB	1										1		PFB	32
33	PFB	1										1		PFB	34
35	PFB	1										1		PFB	36
37	PFB	1										1		PFB	38
39	PFB	1										1		PFB	40
41	PFB	1										1		PFB	42
	CONNECTED LOAD PER PHASE				10.7		10.6		10.2						

TOTAL CONNECTED LOAD (KVA) 31.5

(*) DENOTES CIRCUIT BREAKER TO REMAIN IN THE "OFF" POSITION.

PANEL 2A1

3P150A MAIN CIRCUIT BREAKER, 208Y/120V, 3 PHASE, 4 WIRE,
18,000 A.I.C. MINIMUM INDUSTRIAL-BOLTED TYPE,
SURFACE MOUNTED

CKT. NO.	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	BREAKER POLE	BREAKER AMPS	WIRE SIZE	KVA ON BUSSES PHASE A		PHASE B		PHASE C		WIRE SIZE	BREAKER POLE	BREAKER AMPS	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	CKT. NO.
1	R-ELEC ROOM 71	1	20	12	0.2	0.2					12	1	20	R-DATA RROM	2
3	R-TRANSPORT LOBBY	1	20	12			0.2	1.0			12	1	20	R-DATA ROOM	4
5	R-PATIENT BELONG/TRASH	1	20	12					0.8	1.5	12	1	20	R-DATA EQUIP RACK	6
7	R-LARGE THERAPY/CRAFT	1	20	12	0.6	1.5					12	1	20	R-DATA EQUIP RACK	8
9	R-LARGE THERAPY/CRAFT CNTR	1	20	12			1.5	0.4			12	1	20	R-STAFF TOILET	10
11	R-LARGE THERAPY/CRAFT CNTR	1	20	12					1.5	1.0	12	1	20	R-CR OBSERVATION	12
13	R-NOURISH	1	20	12	0.2	0.6					12	1	20	R-CR OBSERVATION	14
15	R-NOURISH REFRIG	1	20	12			1.2	0.2			12	1	20	R-TLT & SHOWER	16
17	R-NOURISH COUNTER	1	20	12					1.5	0.2	12	1	20	R-CR QUIET ROOM	18
19	R-NOURISH COUNTER	1	20	12	1.5	0.2					12	1	20	R-CR PATIENT TOILET	20
21	R-HW	1	20	12			0.2	0.8			12	1	20	R-CR INTAKE/CONSULT	22
23	R-CORRIDOR 61	1	20	12					0.4	0.2	12	1	20	R-CR LOBBY/WAITING	24
25	R-VISIT/TELE	1	20	12	0.8	1.5					12	1	20	R-PATIENT BELONG W/D	26
27	R-VISIT/INTAKE/DISCHARGE	1	20	12			0.8	1.0			12	1	20	R-PATIENT BELONG	28
29	R-SECURITY TOILET	1	20	12					0.5	1.0	12	1	20	R-CR NURSE STATION	30
31	R-CORRIDOR 13	1	20	12	0.4	1.0					12	1	20	R-CR NURSE STATION	32
33	R-LOBBY	1	20	12			1.0	1.0			12	1	20	R-CR NURSE STATION	34
35	R-CONFERENCE	1	20	12					0.8	1.0	12	1	20	R-CR NURSE STA COUNTER	36
37	R-CONFERENCE VIDEO	1	20	12	0.5	1.0					12	1	20	R-CR NURSE STA EQUIP	38
39	R-GROUP THERAPY	1	20	12			0.8	1.0			12	1	20	R-CR NURSE STA EQUIP	40
41	IRRIGATION CONTROLLER	1	20	12					0.2	1.0	12	1	20	R-CR NURSE STA EQUIP	42
43	FIRE ALARM CONTROL PANEL (**)	1	20	12	1.0	0.4					12	1	20	R-STAFF CORRIROR	44
45	DDC PANEL	1	20	12			1.0	1.0			12	1	20	R-DATA ROOM	46
47	S (*)	1	20						1.0			1		PFB	48
49	S (*)	1	20		1.0							1		PFB	50
52	S (*)	1	20				1.0					1		PFB	52
53	S (*)	1	20						1.0			1		PFB	54
55	S (*)	1	20		1.0							1		PFB	56
57	S (*)	1	20				1.0					1		PFB	58
59	S (*)	1	20						1.0			1		PFB	60
	CONNECTED LOAD PER PHASE				13.6		15.1		14.6						

TOTAL CONNECTED LOAD (KVA) 43.3

(*) DENOTES CIRCUIT BREAKER TO REMAIN IN THE "OFF" POSITION.
(**) DENOTES PROVIDE RED CIRCUIT BREAKER LABEL PER NEC 760.1

PANEL 2UPS

3P50A MAIN CIRCUIT BREAKER, 208Y/120V, 3 PHASE, 4 WIRE,
10,000 A.I.C. MINIMUM INDUSTRIAL-BOLTED TYPE,
SURFACE MOUNTED

CKT. NO.	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	BREAKER POLE	BREAKER AMPS	WIRE SIZE	KVA ON BUSSES PHASE A		PHASE B		PHASE C		WIRE SIZE	BREAKER POLE	BREAKER AMPS	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	CKT. NO.
1	R-SECURITY/ELECTRONICS	1	20	12	0.2							1		PFB	2
3	R-SECURITY EQUIP RACK	1	20	12			1.5					1		PFB	4
5	R-SECURITY BACKBOARD	1	20	12					1.0			1		PFB	6
7	R-SECURITY BACKBOARD	1	20	12	1.0							1		PFB	8
9	R-SECURITY OFFICE	1	20	12			0.5					1		PFB	10
11	R-SECURITY OFFICE	1	20	12					1.0			1		PFB	12
13	R-SECURITY OFFICE	1	20	12	1.0							1		PFB	14
15	ACCESS CONTROL SYSTEM PANELS	1	20	12			1.5					1		PFB	16
17	S (*)	1	20						1.0			1		PFB	18
19	S (*)	1	20		1.0							1		PFB	20
21	S (*)	1	20				1.0					1		PFB	22
23	S (*)	1	20						1.0			1		PFB	24
25	S (*)	1	20		1.0							1		PFB	26
27	S (*)	1	20				1.0					1		PFB	28
29	S (*)	1	20						1.0			1		PFB	30
	CONNECTED LOAD PER PHASE				4.2		5.5		5.0						

TOTAL CONNECTED LOAD (KVA) 14.7

(*) DENOTES CIRCUIT BREAKER TO REMAIN IN THE "OFF" POSITION.

2153 NORTH KING STREET, SUITE 201
HONOLULU, HAWAII 96819
808.941.0577
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REVISIONS

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Supervision and Observation of this project is as defined in Section 1,2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME

SHEET NAME

PANEL SCHEDULES

SCALE: NONE

DRAWN BY	CHECKED BY
CAD	BO
PROJECT NO. 221093-01	SHEET NO. **E405**
SHEET ISSUE DATE 02/27/2026	

LAST SAVE: 11/15/21 @ 08:41:50 BY: BO PLOT SC: 1"=1"

PANEL 2B1 — 3P150A MAIN CIRCUIT BREAKER, 208Y/120V, 3 PHASE, 4 WIRE, 10,000 A.I.C. MINIMUM INDUSTRIAL-BOLTED TYPE, SURFACE MOUNTED

CKT. NO.	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	BREAKER POLE	BREAKER AMPS	WIRE SIZE	KVA ON BUSSES PHASE A		PHASE B		PHASE C		WIRE SIZE	BREAKER POLE	BREAKER AMPS	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	CKT. NO.
1	R-EQUIPMENT ROOM	1	20	12	0.2	0.4					12	1	20	R-CONSULT	2
3	R-BREAK ROOM	1	20	12			1.0	0.4			12	1	20	R-PATIENT ROOM 6	4
5	R-BREAK ROOM REFRIGERATOR	1	20	12					1.2	0.4	12	1	20	R-PATIENT ROOM 5	6
7	R-BREAK ROOM COUNTER	1	20	12	1.5	0.4					12	1	20	R-PATIENT ROOM 3	8
9	R-BREAK ROOM COUNTER	1	20	12			1.5	0.4			12	1	20	R-PATIENT ROOM 1	10
11	R-TOILET & SHOWER	1	20	12					0.2	0.4	12	1	20	R-PATIENT ROOM 2	12
13	R-CORRIDOR	1	20	12	0.6	0.4					12	1	20	R-PATIENT ROOM 4	14
15	R-OFFICE	1	20	12			0.8	1.0				1	20	S (*)	16
17	R-OFFICE	1	20	12					0.8	0.4	12	1	20	R-TOILET/SHOWER EAST	18
19	R-OFFICE	1	20	12	0.8	0.6					12	1	20	R-TOILET/SHOWER WEST	20
21	R-SHARED OFFICE	1	20	12			1.2	0.4			12	1	20	R-PATIENT ROOM 7	22
23	R-HOUSEKEEPING	1	20	12					0.2	0.4	12	1	20	R-PATIENTROOM 9	24
25	R-PRINTER/COPIER	1	20	12	1.5	0.4					12	1	20	R-PATIENT ROOM 10	26
27	R-CHART	1	20	12			1.2	0.4			12	1	20	R-PATIENT ROOM 8	28
29	R-TOILET	1	20	12					0.5	0.4	12	1	20	R-CORRIDOR WEST	30
31	R-MED ROOM	1	20	12	0.5	0.6					12	1	20	R-QUIET	32
33	R-MED ROOM COUNTER	1	20	12			1.0	0.2			12	1	20	R-LAUNDRY	34
35	R-MED ROOM DISPENSER	1	20	12					1.5	1.0	12	1	20	R-LAUNDRY WASHER	36
37	R-OFFICE	1	20	12	0.8	2.8					10	2	30	R-LAUNDRY DRYER	38
39	S (*)	1	20				1.0	2.8			10	-	-	-	40
41	S (*)	1	20						1.0	1.0		1	20	S (*)	42
	CONNECTED LOAD PER PHASE				11.5		13.3		9.4						
														TOTAL CONNECTED LOAD (KVA)	34.2

(*) DENOTES CIRCUIT BREAKER TO REMAIN IN THE "OFF" POSITION.

PANEL 2B2 — 3P125A MAIN CIRCUIT BREAKER, 208Y/120V, 3 PHASE, 4 WIRE, 10,000 A.I.C. MINIMUM INDUSTRIAL-BOLTED TYPE, SURFACE MOUNTED

CKT. NO.	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	BREAKER POLE	BREAKER AMPS	WIRE SIZE	KVA ON BUSSES PHASE A		PHASE B		PHASE C		WIRE SIZE	BREAKER POLE	BREAKER AMPS	USE: L-LTS, R-RECEP, PFB-PROVISION FUTURE BKR., S-SPARE, F-FAN, W-WARMER	CKT. NO.
1	R-DAYROOM	1	20	12	1.0	0.5					12	1	20	TU-PATIENT WING WEST	2
3	R-DAYROOM	1	20	12			0.8	0.5			12	1	20	TU-PATIENT WING EAST	4
5	R-NURSE STATION	1	20	12					1.0	0.5	12	1	20	TU-NURSE STATION/OFFICES	6
7	R-NURSE STATION	1	20	12	1.0	0.1					12	1	20	EF-1	8
9	R-NURSE STATION	1	20	12			1.0	0.1			12	1	20	EF-2	10
11	R-NURSE STATION	1	20	12					1.0	0.1	12	1	20	EF-3	12
13	R-NURSE STATION COUNTER	1	20	12	1.0	0.1					12	1	20	EF-4	14
15	S (*)	1	20				1.0	0.1			12	1	20	EF-5	16
17	S (*)	1	20						1.0			1		PFB	18
19	S (*)	1	20		1.0							1		PFB	20
21	S (*)	1	20				1.0					1		PFB	22
23	S (*)	1	20						1.0			1		PFB	24
25	S (*)	1	20		1.0							1		PFB	26
27	S (*)	1	20				1.0					1		PFB	28
29	S (*)	1	20						1.0			1		PFB	30
31	S (*)	1	20		1.0							1		PFB	32
33	PFB	1										1		PFB	34
35	PFB	1										1		PFB	36
37	PFB	1										1		PFB	38
39	PFB	1										1		PFB	40
41	PFB	1										1		PFB	42
	CONNECTED LOAD PER PHASE				6.7		5.5		5.6						
														TOTAL CONNECTED LOAD (KVA)	17.8

(*) DENOTES CIRCUIT BREAKER TO REMAIN IN THE "OFF" POSITION.

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REVISIONS

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME

SHEET NAME

PANEL SCHEDULES

SCALE: NONE

DRAWN BY	CHECKED BY
CAD	BO
PROJECT NO. 221093-01	SHEET NO. **E406**
SHEET ISSUE DATE 02/27/2026	

LAST SAVE: 11/15/21 @ 08:41:50 BY: BO PLOT SC: 1"=1"

SAM MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY					
ELECTRICAL LOAD CALCULATIONS					
PANEL 4A1					
LOAD DESCRIPTION	Motor FLC (A)	Motor Load (kW)	Fixed Equipment Load (kW)	General Receptacle Load (kW)	Lighting Load (kW)
PANEL DP2A		0.5	24.6	48.2	**0.0**
PANEL 4A2		0.0	0.0	0.0	10.1
PANEL 4B1		0.0	0.00	0.0	13.7
PACU-1	27.0	22.4			
PACU-2 (*)	27.0	22.4			
DOAS-1	3.4	2.8			
		48.3	24.55	48.2	23.8
				Subtotal (kW)	144.8
				25% Largest Motor Load (kW)	5.6
				Total (kW)	150.4
				Total (A)	180.9

(*) DENOTES REDUNDANT LOAD

SAM MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY					
ELECTRICAL LOAD CALCULATIONS					
DISTRIBUTION PANEL DP2A					
LOAD DESCRIPTION	Motor FLC (A)	Motor Load (kW)	Fixed Equipment Load (kW)	General Receptacle Load (kW)	Lighting Load (kW)
PANEL 2A1		0.0	10.9	25.4	**0.0**
PANEL 2A2		0.3			
PANEL 2UPS		0.0	5.0	2.7	0.0
PANEL 2B1		0.0	7.2	13.1	0.0
PANEL 2B2		0.3	1.5	7.0	0.0
		0.5	24.6	48.2	0.0
				Subtotal (kW)	73.3
				25% Largest Motor Load (kW)	0.1
				Total (kW)	73.4
				Total (A)	88.2

FAULT CURRENT CALCULATIONS SAM MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY									
LOAD	FAULT CURRENT AT SOURCE (A)	SYSTEM VOLTAGE (V)	FEEDER LENGTH (FT)	CONDUCTOR IMPEDENCE CONSTANT (C)	CONDUCTORS PER PHASE	F	MULTIPLIER (M)	FAULT CURRENT AT LOAD (A)	DEVICE RATING (AIC)
EXISTING METERING DISTRIBUTION SWBD	26,800	480	100	26,706	2	0.181	0.847	22,692	65,000
PANEL 4A1	22,692	480	320	26,706	1	0.981	0.505	11,454	25,000
PANEL 4A2	11,454	480	20	5,907	1	0.140	0.877	10,048	14,000
PANEL 4B1	11,454	480	100	5,907	1	0.700	0.588	6,739	14,000
DRY-TYPE TRANSFORMER CIRCUIT BREAKER	11,454	480	10	15,082	1	0.027	0.973	11,149	N/A
DISTRIBUTION PANEL DP2A	13,352	208	10	16,483	2	0.034	0.967	12,916	25,000
PANEL 2A1	12,916	208	10	9,317	1	0.115	0.897	11,580	18,000
PANEL 2A2	12,916	208	15	7,493	1	0.215	0.823	10,628	18,000
PANEL 2UPS	12,916	208	40	1,559	1	2.760	0.266	3,436	10,000
PANEL 2B1	12,916	208	100	9,317	1	1.154	0.464	5,995	10,000
PANEL 2B2	12,916	208	100	7,493	1	1.435	0.411	5,304	10,000

Transformer	Short-Circuit Current at Primary (A)	Primary Voltage (V)	Secondary Voltage (V)	Transformer Impedence (%Z)	Transformer Capacity (KVA)	f	Multiplier (M)	Short Circuit Current at Secondary (A)
KIUC 500kVA TRANSFORMER (*)								26,800 (*)
DRY-TYPE TRANSFORMER	11,149	480	208	1.5	150.0	0.927	0.519	13,352
(*) BASED ON ESTIMATED VALUES								

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TMK#: 4-6-014:113

FILENAME

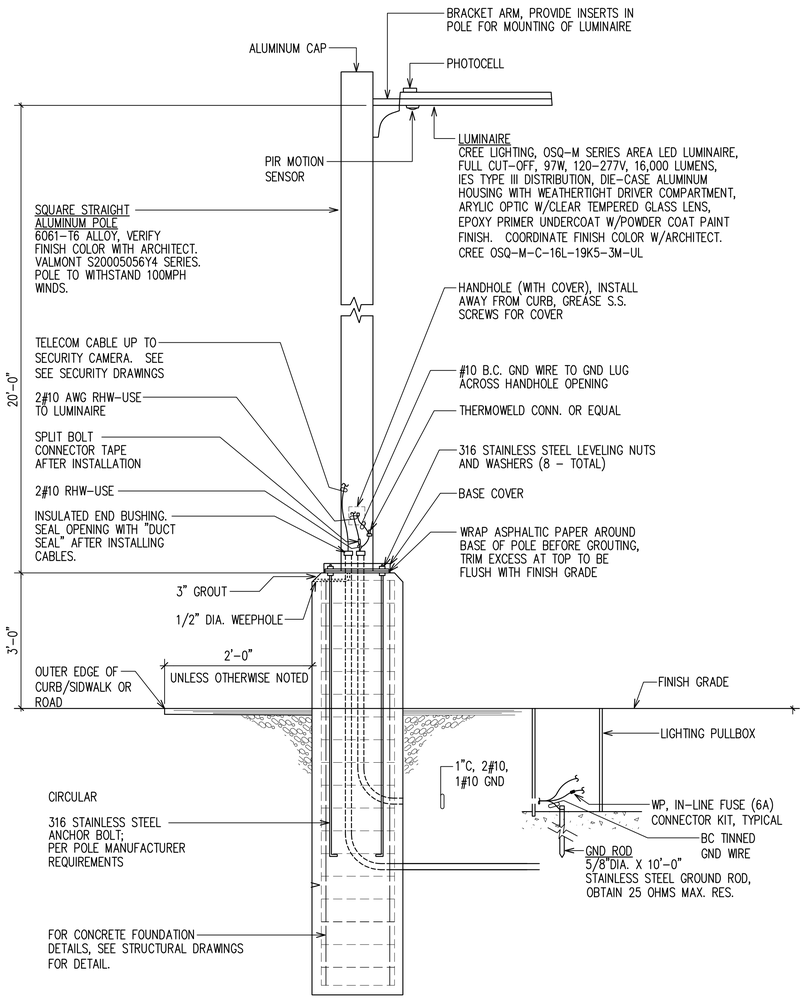
SHEET NAME

ELECTRICAL LOAD CALCULATIONS

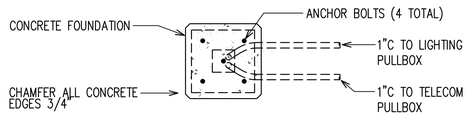
SCALE: NONE

DRAWN BY	CHECKED BY
CAD	BO
PROJECT NO.	SHEET NO.
221093-01	**E407**
SHEET ISSUE DATE	
02/27/2026	

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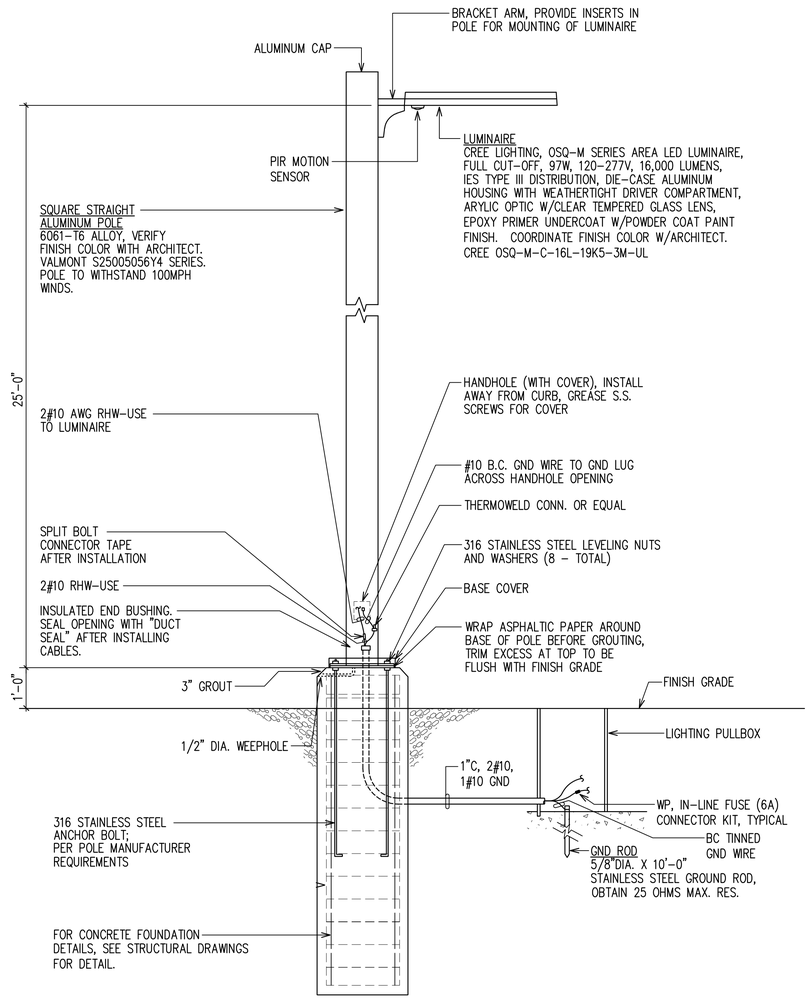


ELEVATION

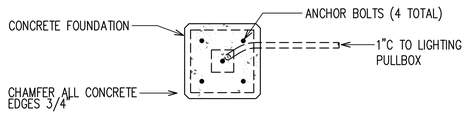


PLAN

PARKING LOT/DRIVEWAY



ELEVATION



PLAN

SECURED YARD

NOTES:

1. ALL NEUTRAL CONDUCTORS MUST HAVE SOLID WHITE INSULATION. ALL OTHER FORMS OF IDENTIFICATION UNACCEPTABLE.
2. PROVIDE TEMPORARY CASTING AS REQUIRED FOR FOOTING CONSTRUCTION.
3. CONCRETE PLACED BELOW WATER SHALL BE TREMIED FROM THE BOTTOM UP.
4. POLE SHALL BE DESIGNATED TO WITHSTAND 100 MPH WINDS (130 MPH GUSTS) WITHOUT PERMANENT DEFORMATION.
5. TORQUE THE ANCHOR BOLT NUTS TO POLE MANUFACTURERS RECOMMENDATIONS.
6. SLOPE FOOTING WEEPHOLE AWAY FROM LIGHT POLE.
7. SEE LIGHTING AND SITE SHEETS FOR LIGHT POLE VOLTAGES.
8. CONTRACTOR SHALL COORDINATE GROUTING OF THE POLE BASE WITH THE INSTALLATION OF THE BASE COVERS.

HANDHOLE COVER NOTES:

INSCRIBE THE FOLLOWING INFORMATION ON THE HANDHOLE COVER:

1. LIGHT NO. - I.E. "17"
2. VOLTAGE - I.E. "277V"
3. SOURCE - I.E. "PNL 4A2"
4. SOURCE LOCATION - I.E. "BHNPF MAIN ELEC RM"
5. POLE HEIGHT AND CATALOG NO.
6. DATE FABRICATED

1 E501 AREA LIGHT POLE DETAILS
NOT TO SCALE

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME

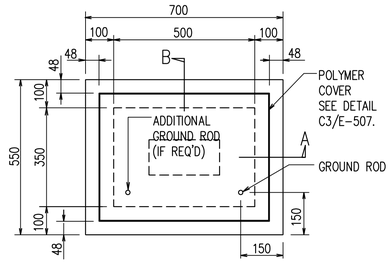
SHEET NAME

AREA LIGHT POLE DETAILS

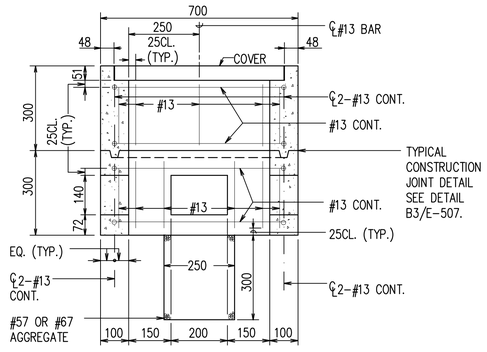
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CAD	BO
PROJECT NO.	SHEET NO.
221093-01	E501
SHEET ISSUE DATE	
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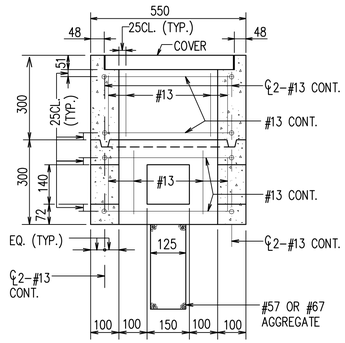
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PLAN



SECTION A-A



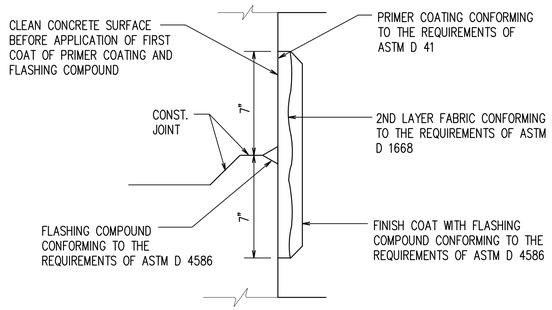
SECTION B-B

NOTE:

SEE GENERAL NOTES ON THIS DRAWING

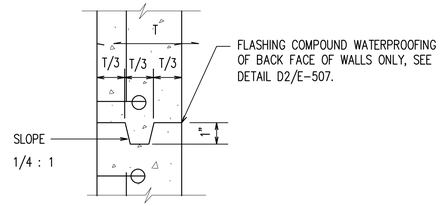
1 E502 TYPE A PULLBOX DETAIL

NOT TO SCALE



2 E502 TYPICAL FLASHING COMPOUND WATERPROOFING DETAILS

NOT TO SCALE

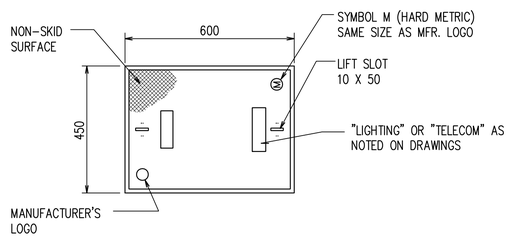


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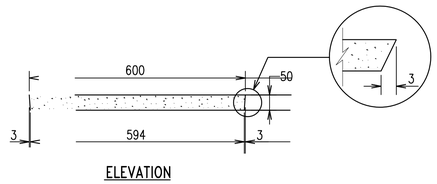
SEE PULLBOX DETAILS ON THIS SHEET.

3 E502 TYPICAL CONSTRUCTION JOINT DETAIL

NOT TO SCALE



PLAN VIEW



ELEVATION

NOTE:

SEE PULLBOX DETAILS ON THIS SHEET.

4 E502 POLYMER CONCRETE COVER DETAIL

NOT TO SCALE

NOTE(S):

1. PROVIDE A MINIMUM OF ONE 16MM X 2.5M COPPERWELD GROUND ROD IN EACH PULLBOX. WHEN DIRECTED BY THE INSPECTOR/ENGINEER, INSTALL ADDITIONAL GROUND RODS. COST OF GROUND RODS SHALL BE INCIDENTAL TO THE PULLBOXES.
2. ALL PRE-CAST CONCRETE PULLBOXES SHALL BE MANUFACTURED IN TWO PIECES.
3. THE PULLBOX WITH COVER SHALL BE CAPABLE OF SUPPORTING AN MS 18 LOADING.
4. THE MAXIMUM WEIGHT OF THE PULLBOX COVER SHALL NOT EXCEED 27 KILOGRAMS.
5. THE OPENINGS FOR THE CONDUITS ON ALL PULLBOXES SHALL BE PRE-CAST CONCRETE KNOCKOUTS.
6. AFTER INSTALLING THE CONDUITS IN THE OPENINGS OF THE PULLBOXES, THE CONTRACTOR SHALL FILL THE EXCESS OPENING IN THE PRE-CAST KNOCKOUTS WITH CONCRETE MORTAR.
7. PRIOR TO INSTALLING THE PULLBOXES, THE CONTRACTOR SHALL LEVEL THE BOTTOM OF THE TRENCH AND ACHIEVE A MINIMUM OF 95% RELATIVE COMPACTION OF THE BOTTOM OF THE TRENCH.
8. ALL CONCRETE SHALL BE CLASS A (25MPA, MIN.)
9. REBARS SHALL BE GRADE 300 AND ALL LAPPED SPLICES SHALL BE 360MM MINIMUM.
10. THE #57 OR #67 SIZE AGGREGATE SHALL CONFORM TO LATEST VERSION OF AASHTO M43 (ASTM D 448).
11. TYPE "A" PULLBOX SHALL BE INSTALLED IN A LOCATION PROTECTED FROM VEHICULAR TRAFFIC (I.E. RAISED SIDEWALK, BEHIND A.C. CURBS, LIGHT POLES OR PIPE GUARDS).

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FILENAME

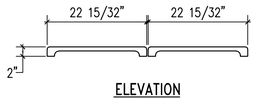
SHEET NAME

LIGHTING PULLBOX DETAIL

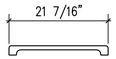
SCALE: NONE

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SHEET ISSUE DATE 02/27/2026	

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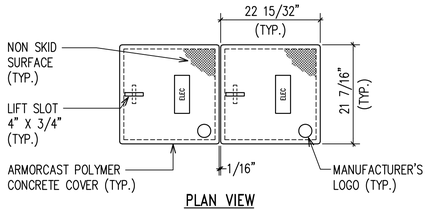


ELEVATION

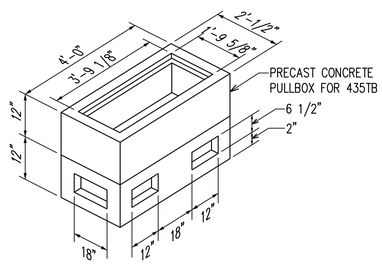


SIDE VIEW

COVER DETAIL



PLAN VIEW



PULLBOX

NOTES:

1. PROVIDE ARMORCAST POLYMER CONCRETE COVER.
2. INSTALL ON 6" BED OF #3 CRUSHED ROCK.
3. PROVIDE SUFFICIENT AMOUNT OF 5/8"ø X 8' COPPERWELD GROUND RODS AS DIRECTED BY THE TRAFFIC SIGNAL INSPECTOR/ENGINEER. COST SHALL BE INCIDENTAL TO THE VARIOUS TRAFFIC SIGNAL ITEMS.

1 / E503 ELECTRICAL PULLBOX DETAIL
NOT TO SCALE

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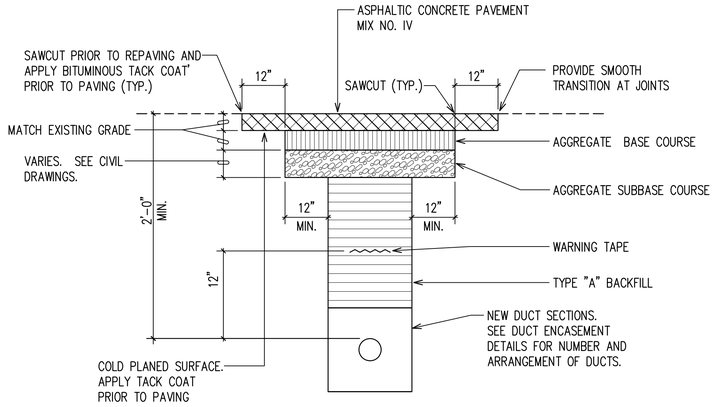
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ELECTRICAL PULLBOX DETAIL

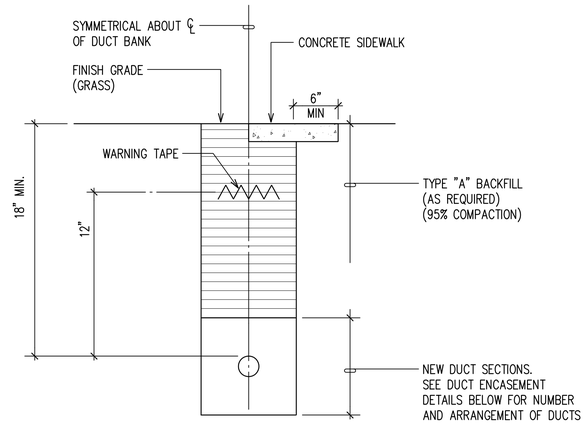
SCALE: NONE

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BACKFILL SECTION UNDER
ROADWAY



BACKFILL SECTION UNDER
UNPAVED AREAS/SIDEWALKS

DUCT SECTION BACKFILL NOTES:

TYPE "A" BACKFILL – EARTH & GRAVEL. ROCK SIZE TO BE 1" MAX. & THE MIXTURE TO CONTAIN NOT MORE THAN 50% BY VOLUME OF ROCK PARTICLES. 95% COMPACTION.

CONCRETE – 3" ENCASEMENT, 3000 PSI COMPRESSIVE STRENGTH @ 28 DAYS.

DESIGNATION DESCRIPTIONS

ELEC = HECO PRIMARY ELECTRIC
PWR = SECONDARY ELECTRIC
TEL = HTCO
CATV = CHARTER/SPECTRUM
COMM = SCHOOL COMMUNICATIONS

MINIMUM "X" DIMENSION
DUCT SEPARATION REQUIREMENTS

ELEC – ELEC = 1 1/2"

PWR – PWR = 1 1/2"

ELEC – PWR = 3"

ELEC – TEL = 12"

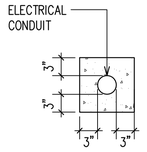
ELEC – CATV = 12"

TEL – CATV = 12"

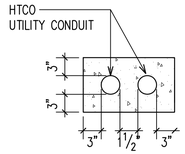
ELEC – COMM = 6"

COMM – COMM = 1 1/2"

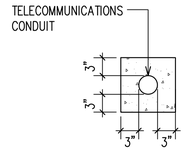
MINIMUM OF 3" CONCRETE
ENCASEMENT AROUND
DUCTBANK



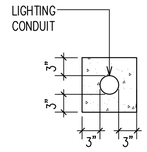
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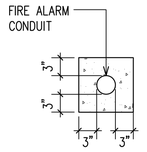
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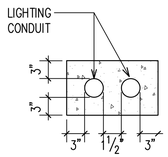
SECTION (CA)



SECTION (LA)



SECTION (FA)



SECTION (LB)

1 / E504 DUCT SECTION DETAILS
NOT TO SCALE

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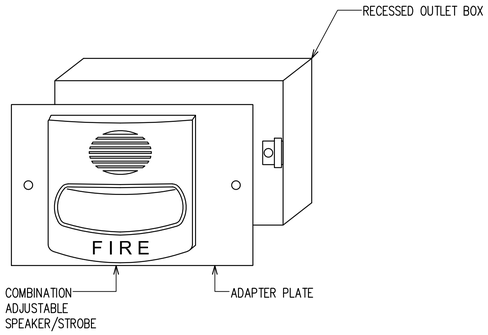
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DUCT SECTION DETAILS

SCALE: NONE

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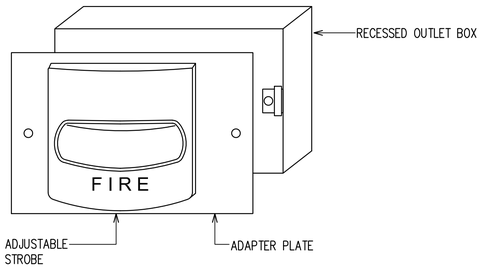
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NOTE: WIRING PER MANUFACTURER REQUIREMENTS.

1 E505 FIRE ALARM AUDIBLE/VISUAL SIGNALING DEVICE DETAIL

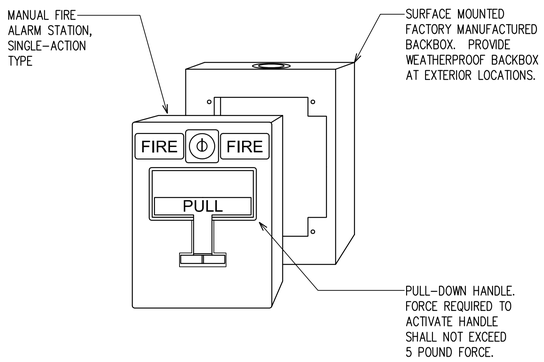
NOT TO SCALE



NOTE: WIRING PER MANUFACTURER REQUIREMENTS.

2 E505 FIRE ALARM VISUAL SIGNALING DEVICE DETAIL

NOT TO SCALE



NOTE: WIRING PER MANUFACTURER REQUIREMENTS.

3 E505 FIRE ALARM AUDIBLE/VISUAL PULL STATION DETAIL

NOT TO SCALE

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FILENAME

SHEET NAME

FIRE ALARM DEVICE DETAILS

SCALE: NONE

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KEYED NOTES

1. WHERE ASSOCIATED WITH ACCESS CONTROL CARD READER, CONNECT TO ELECTRIFIED DOOR HARDWARE FOR REQUEST TO EXIT INITIATION FOR FREE EGRESS REFER TO DIVISION 8 FOR DOOR HARDWARE REQUIREMENTS.
2. CONFIRM CAMERA NUMBERING AND ALL CAMERA NAMING WITH OWNER PRIOR TO PROGRAMMING. COORDINATE WITH SIGNAGE AS REQUIRED.
3. FURNISHED AND INSTALLED BY DIVISION 8. COORDINATE CONTROL AND POWER REQUIREMENTS WITH THE ELECTRICAL. DPS IS BY DIVISION 8 AND SHALL BE CONNECTED TO ACCESS CONTROL SYSTEM FOR ACCESS CONTROL SYSTEM STATUS INDICATION.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND LOCATIONS OF WALL MOUNTED DURESS SWITCHES. WHERE ARCHITECTURAL HEIGHTS CONFLICT WITH THE DRAWINGS, MOUNT AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
5. MOUNT AS REQUIRED BY ADA.
6. MOUNT SUCH THAT THE CENTER OF THE UNIT IS +48" AFF.
7. DASHED LINES INDICATE FIELD OF VIEW AT 48" AFF. CORRECT FOR PARALLAX AS REQUIRED. WHERE PTZ FIELD OF VIEW LINES ARE INDICATED, EACH PAIR IS SHOWN WITH A PRESET POINT WHICH SHALL BE USED TO "HOME" THE CAMERA TO SPECIFIC FIELDS-OF-VIEW.
8. REFER TO DIVISION 8 HARDWARE SCHEDULE. WHERE DOOR IS EQUIPPED WITH DOOR POSITION SWITCH, MONITOR N.O. WHERE DOOR IS EQUIPPED WITH LOCK BOLT SWITCH, MONITOR N.O. WHERE DOOR IS EQUIPPED WITH DOOR POSITION AND DOOR LOCK BOLT SWITCH, WIRE IN SERIES. UTILIZE ONE SYSTEM INPUT POINT PER DOOR TO MONITOR SECURE STATUS. DEFAULT TO UNSECURE.
9. ZONE EACH UNIT SEPARATELY, UNO.
10. DESK MOUNT, UNO. WHERE DESK MOUNT UNITS ARE REQUIRED: PROVIDE COVERTLY MOUNTED DESK UNIT UNDER COUNTER WITH GUARDED PUSH BUTTON TYPE ACTUATOR TO PREVENT ACCIDENTAL INITIATION. MOUNT 1-1/2" BEHIND BULLNOSE UNDER COUNTER USING EXPOSED UNDER COUNTER CABLE TO J-BOX. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER AND CABINETRY/CASEWORK/FURNITURE. PLUG AND JACK TO BE LOCKING, RJ-11, RED. CABLE TO BE 12', RED CAT6. JACK TO BE MOUNTED ON FACEPLATE WITH TELEPHONE/DATA. COORDINATE WITH ELECTRICAL AS REQUIRED. WHERE WALL MOUNT UNITS ARE REQUIRED, MOUNT SUCH THAT THE PUSH BUTTON SWITCH IS 48" AFF AS ALLOWED BY ADA.
11. PROGRAMMABLE FUNCTION. NO EQUIPMENT REQUIRED. DASHED LINES INDICATE INTERLOCKED DOORS.
12. HARDWIRED LIGATURE RESISTANT OVER THE DOOR SENSOR AND ALARM WITH BAR, HINGE, RESET KEYSWITCH, STROBE LIGHT AND POWER SUPPLY CONTROLLER. STROBE, RESET KEYSWITCH AND LIGATURE DOOR SWITCH IS BY DIVISION 08 7100. PROVIDE CONDUIT AND CABLE ONLY TO SUPPORT THIS SYSTEM. COORDINATE AS REQUIRED.

GENERAL NOTES

1. ALL CONDUIT IS 3/4" AND CONCEALED, UNO.
2. CONDUIT AND NIPPLE FILL SHALL NOT EXCEED NEC CHAPTER 9, TABLE 4.
3. GROUND ALL SIGNALING CIRCUITS AT ONE POINT. GROUND ALL DEVICE BOXES.
4. ALL SECURITY, AND CCTV VIDEO CABLES AND CONNECTORS TO BE COLOR CODED. CONFIRM COLOR CODES WITH OWNER PRIOR TO PURCHASE.
5. FOLLOW ALL ADA GUIDELINES.
6. ALL CONDUIT RUNS SHALL BE INSTALLED BY THE ELECTRICAL DIVISION 16 CONTACTOR AND SHALL BE COORDINATED FOR BOTH LAYOUT WITH THE ELECTRICAL CONDUIT DISTRIBUTION AND THE CABLE LENGTH LIMITATIONS AS APPLICABLE TO CAT6 CABLING.

ABBREV	DESCRIPTIONS
#	NUMBER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CAB	CABINET
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
COMM	COMMUNICATIONS
CP	CONTROL PANEL
DIA	DIAMETER
DGP	DATA GATHERING PANEL
DPS	DOOR POSITION SWITCH
DWG	DRAWING
E	EXISTING
ELEC	ELECTRIC/ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING CONDUIT
EQUIP	EQUIPMENT
FBO	FURNISHED BY OWNER
FLEX	FLEXIBLE METALCONDUIT
FT	FOOT (FEET)
GRD/GND	GROUND
GUI	GRAPHIC USER INTERFACE
HMI	HUMAN MACHINE INTERFACE
HZ	HERTZ
ID	INSIDE DIAMETER
IP	INTERNET PROTOCOL
J-BOX	JUNCTION BOX
KYBRD	KEYBOARD
LV	LOW VOLTAGE
M	MONITOR
MAX	MAXIMUM
MIN	MINIMUM
MSE	MOUSE
N	NEW
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NVR	NETWORK VIDEO RECORDER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
PB	PULL BOX
PBO	PROVIDED BY OTHERS
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PS	POWER SUPPLY
PTZ	PAN/TILT/ZOOM
PVC	POLYVINYL CHLORIDE DUCT
PWR	POWER
RM	ROOM
RMC	RIGID METALLIC CONDUIT
S.C.	SCREW COVER
SHT	SHEET
STP	SHIELDED TWISTED PAIR
TC	TERMINAL CABINET
TP	TWISTED PAIR
TS	TOUCH SCREEN
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UPS	UN-INTERRUPTABLEPOWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VA	VOLT-AMPERES
VMS	VIDEO MANAGEMENT SYSTEM
VRS	VIDEO REVIEW STATION
W	WATTS
WP	WEATHERPROOF

3 ABBREVIATIONS

SYMBOLS	GENERAL	NOTES
XX	KEYED NOTE	
1 / ES.**	REFERENCE DETAIL NUMBER/ REFERENCE SHEET NUMBER	
	WHEN ADDED TO SYMBOL INDICATES WALL OR BRACKET MOUNTED	
	WHEN ADDED TO SYMBOL INDICATES INSIDE CORNER MOUNTED	
	WHEN ADDED TO SYMBOL INDICATES OUTSIDE CORNER MOUNTED	

SYMBOLS	DIAGRAMS AND RACEWAYS	NOTES
	TERMINATING RESISTER, 75 OHM UNO	
	VOLUME CONTROL	
	CONNECTORS, FEMALE AND MALE RESPECTIVELY	
	NORMALLY CLOSED RELAY CONTACTS	
	NORMALLY OPEN RELAY CONTACTS	
	CIRCUIT CONDUIT RUN	
	UNDERGROUND CONDUIT	
	CONDUIT RUN (SURFACE MTD.)	
	OPTICAL FIBER	
	CONDUIT HOMERUN	
	TYPICAL OF QUANTITIES AS REQUIRED	
J	JUNCTION BOX (4" SQUARE OR DOUBLE DUPLEX)	
J	JUNCTION BOX (LARGER THAN 4" SQUARE OR DOUBLE DUPLEX AND SIZED AS REQUIRED TO MEET NEC RESTRICTIONS)	
	CONDUIT SLEEVES WITH CAPS AT BOTH ENDS	
	CONDUIT, UP	
	CONDUIT, DOWN	
	FUSE	
	FLEXIBLE CONDUIT CONNECTION	

SYMBOLS	ACCESS CONTROL SYSTEM	NOTES
	NEW ACCESS CONTROL COMBINATION KEYPAD / CARD READER (WALL MOUNT, UNO)	5 6
	ELECTRICALLY CONTROLLED LOCKING MECHANISM WITH DOOR POSITION MONITORING (DPS) ASSOCIATED WITH CARD READER	1 3 8 9
	INTERLOCKED DOORS OR GATES	11
	BEHAVIORAL HEALTHCARE DOOR LIGATURE ALARM, COORDINATE WITH DIVISION 8 AS REQUIRED	9 12
	CEILING MOUNTED STROBE LIGHT	9 12
K	RESET KEYSWITCH	6 9 12

SYMBOLS	SECURITY ALARM SYSTEM	NOTES
W D-XX	DURESS SWITCH (W = WALL MOUNT) (D-XX = ZONE #)	4 9 10

SYMBOLS	VIDEO SURVEILLANCE (CCTV)	NOTES
C-*	NEW IP CCTV CAMERA (C-* = NEW CAMERA NUMBER)	7 2
M-XX	NEW VIDEO MONITOR (M-XX = NEW MONITOR NUMBER)	

2 SYMBOL SCHEDULE

DRAWING NUMBER	DRAWING NAME
Ty001	SECURITY LEGEND
Ty101	PARTIAL SITE PLAN - NEW EXPANSION - SECURITY
Ty201	FLOOR PLAN - SECURITY
Ty301	ENLARGED FLOOR PLANS AND ELEVATIONS - SECURITY
Ty401	SECURITY DIAGRAMS
Ty402	SECURITY DETAILS AND SCHEDULES

1 SHEET LIST

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME

SHEET NAME

SECURITY LEGEND

SCALE: As indicated

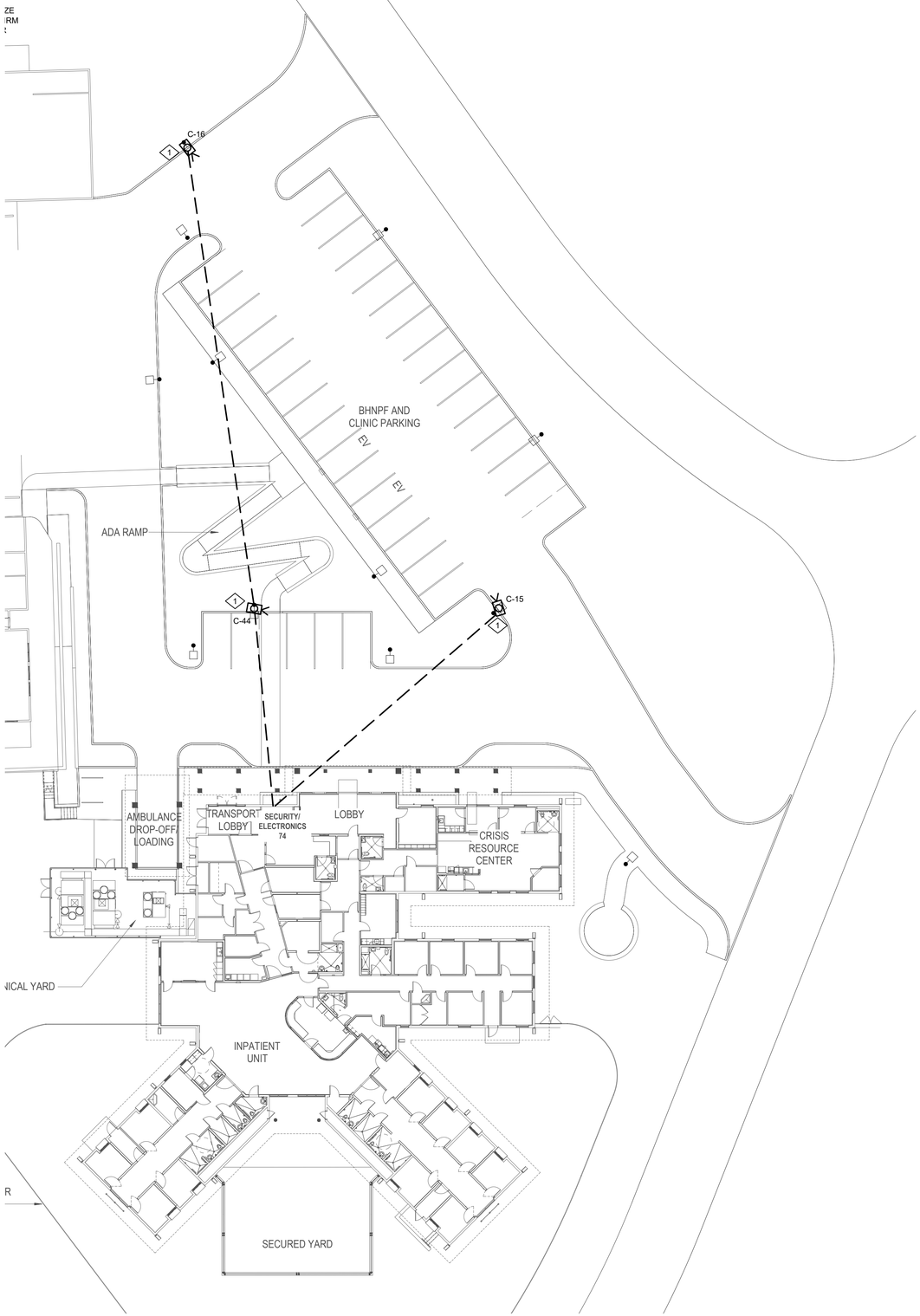
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PROJECT NO.	SHEET NO.
221093-01	Ty001

SHEET ISSUE DATE 02/27/2026

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1 PARTIAL SITE PLAN - NEW EXPANSION - SECURITY

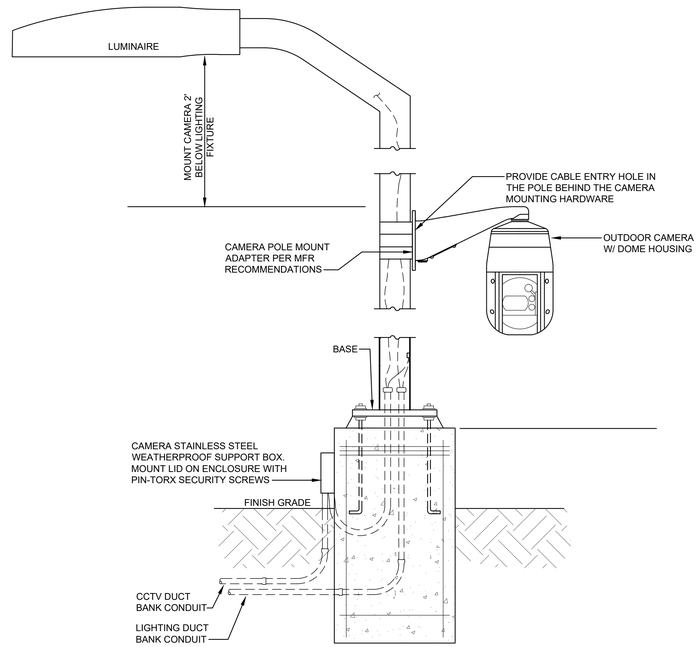
SCALE: 1"=20'

SHEET NOTES

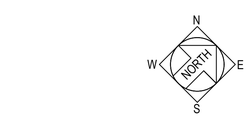
1. ALL UNDERGROUND CONDUIT IS TO BE 1-1/4", UNO.

KEYED NOTES

1. 360° PANORAMIC CAMERA. MOUNT ON LIGHTING POLE, 2' BELOW LIGHTING FIXTURE. REF DETAIL 2 THIS SHEET.



2 CCTV TO LIGHTING POLE MOUNTING DETAIL



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FILENAME

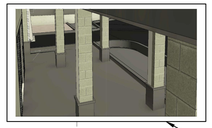
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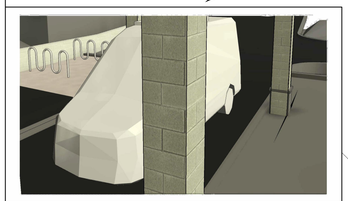
PARTIAL SITE PLAN - NEW EXPANSION - SECURITY

SCALE: As indicated

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221093-01	Ty101
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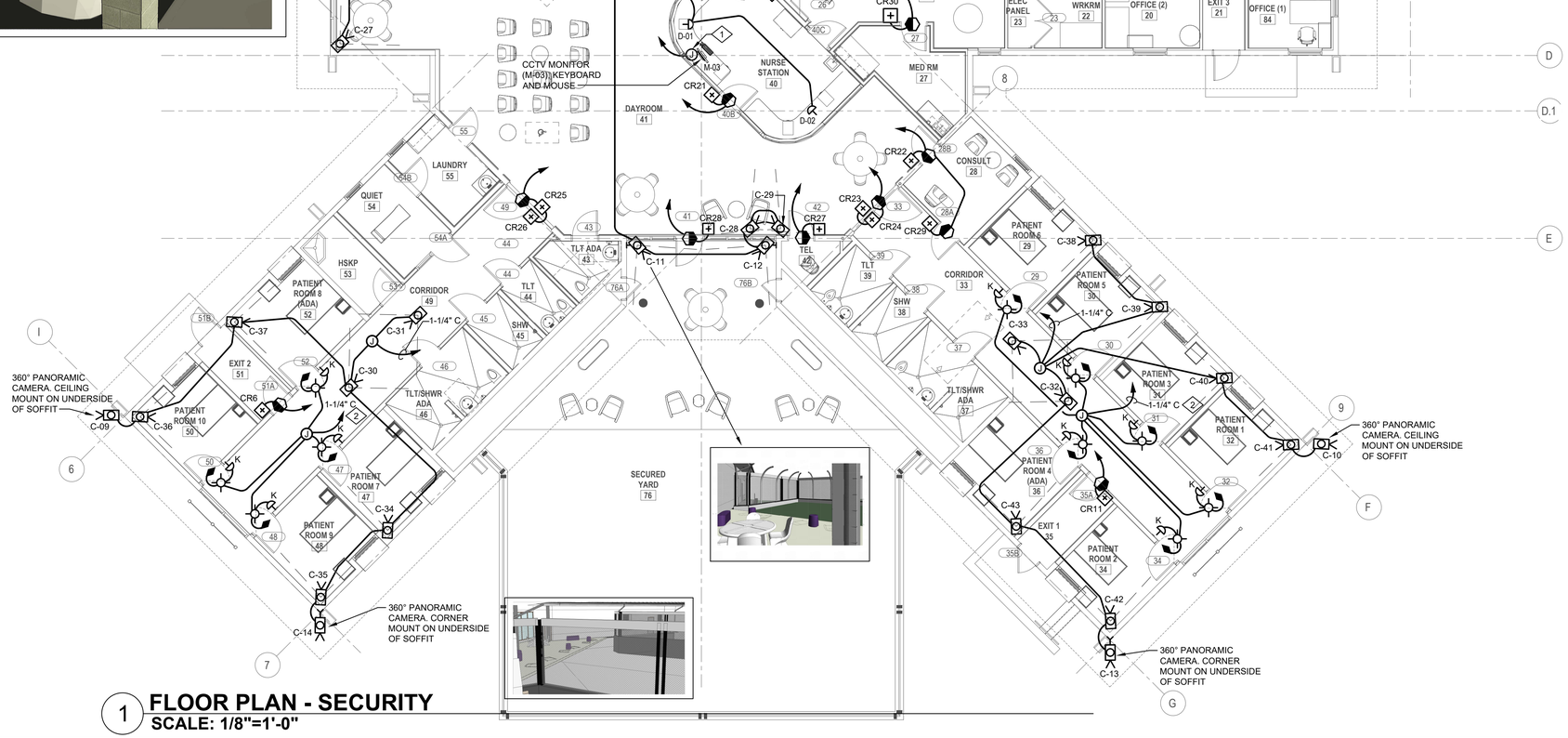


SHEET NOTES

1. ALL HOMERUNS ARE TO SECURITY/ELECTRONICS ROOM 74, UNO.
2. ACCESS CONTROL CARD READERS INSTALLED IN 2" DOOR FRAMES SHALL BE MULLION UNITS.

KEYED NOTES

1. OUTLET BOX, +18" AFF TO TOP WITH (3) RJ-45 CONNECTORS FOR MONITOR AND KVM ABOVE.
2. TO NURSE STATION CONSOLE IN NURSE STATION 40.



1 **FLOOR PLAN - SECURITY**
SCALE: 1/8"=1'-0"

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TMK#: 4-6-014:113

FILENAME

SHEET NAME

FLOOR PLAN - SECURITY

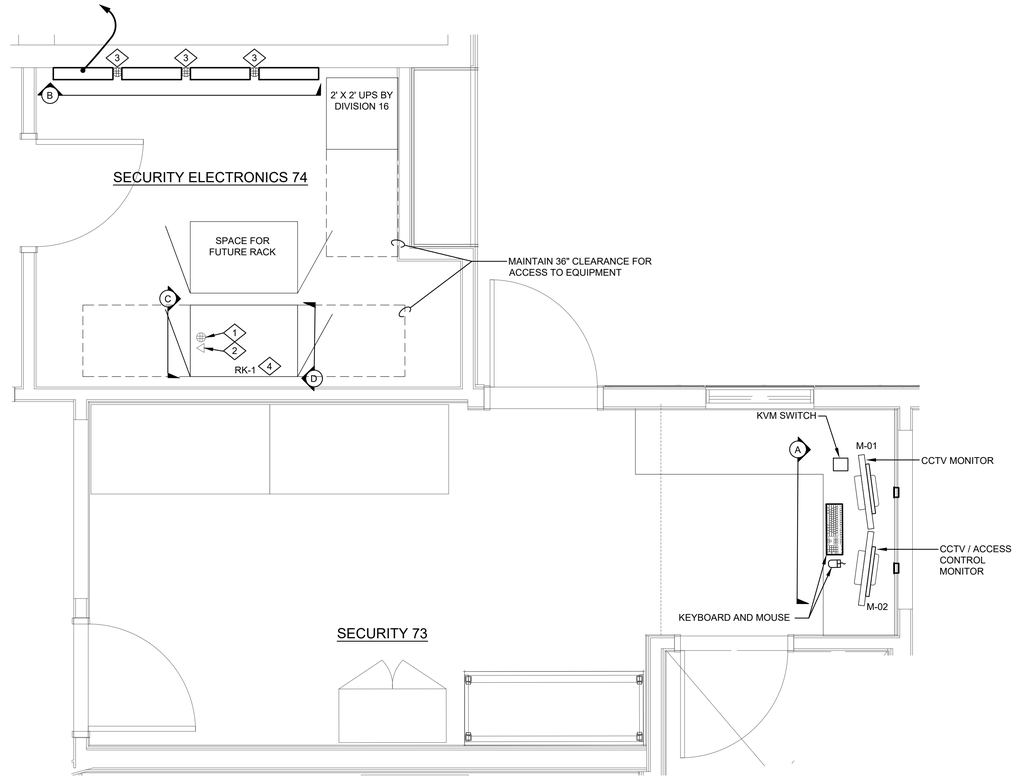
SCALE: As indicated

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221093-01	Ty201
SHEET ISSUE DATE	
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8' 4' 0' 8' 16'

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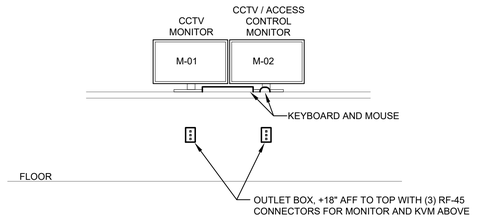
ROUTE CABLE IN 1" CONDUIT TO FIRE ALARM PANEL. REFER TO THE ELECTRICAL DRAWINGS FOR LOCATIONS. INCLUDE INPUT POINTS ON THE DATA GATHERING PANEL FOR FIRE ALARM INPUTS INTO THE ACCESS CONTROL SYSTEM AND PROGRAM FOR AUTOMATIC DOOR RELEASE. PROVIDE ONE PAIR OF #18TP FOR EACH FIRE ALARM ZONE



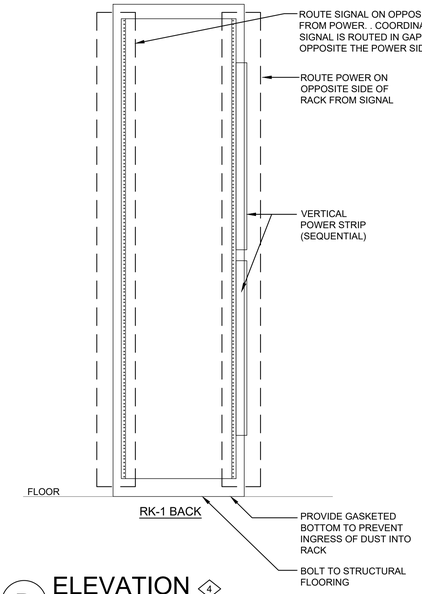
1 ENLARGED FLOOR PLAN
SCALE: 1/2"=1'-0"

KEYED NOTES

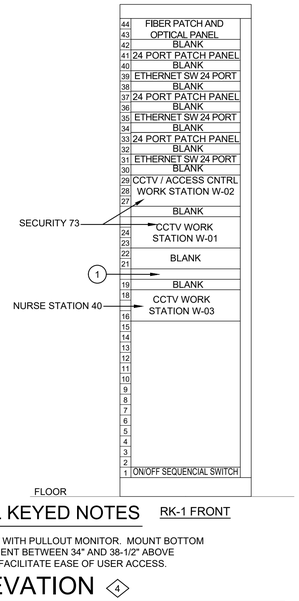
1. UPS POWER OUTLET BY DIVISION 16.
2. DATA OUTLET BY DIVISION 17.
3. EMERGENCY POWER.
4. RACK BY DIVISION 17.



A ELEVATION - SECURITY 73
SCALE: 1/2"=1'-0"



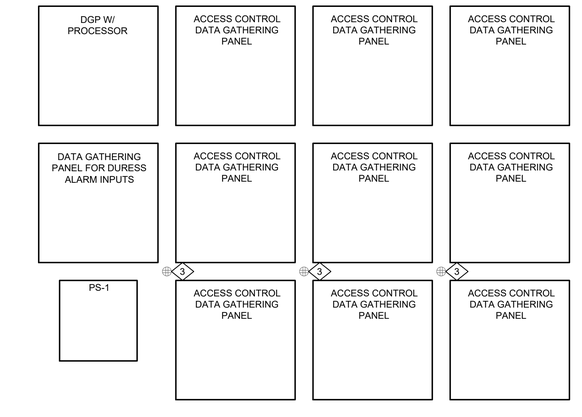
D ELEVATION 4
SCALE: 1"=1'-0"



DETAIL KEYED NOTES

1. KEYBOARD WITH PULLOUT MONITOR. MOUNT BOTTOM OF EQUIPMENT BETWEEN 34" AND 38-1/2" ABOVE FLOOR TO FACILITATE EASE OF USER ACCESS.

C ELEVATION 4
SCALE: 1"=1'-0"



B ELEVATION
SCALE: 1"=1'-0"

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TMK#: 4-6-014:113

FILENAME

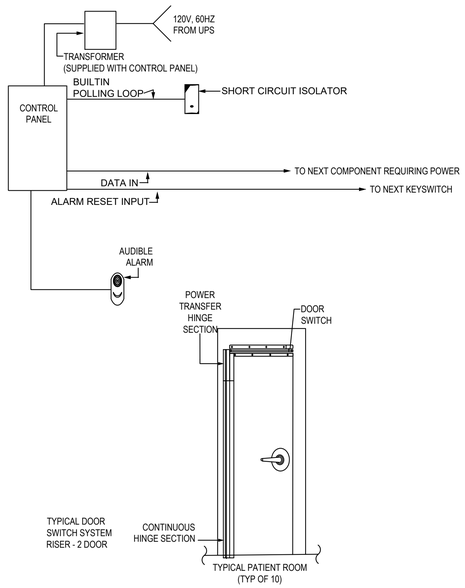
SHEET NAME

ENLARGED FLOOR PLANS AND ELEVATIONS - SECURITY

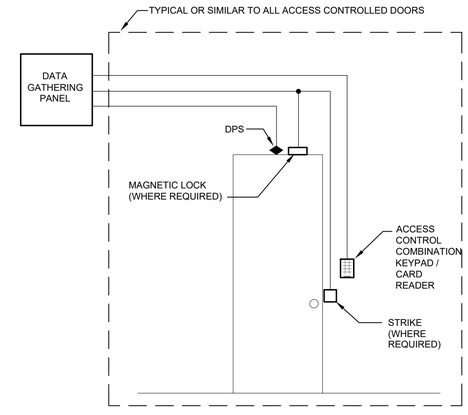
SCALE: As indicated

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221093-01	Ty301
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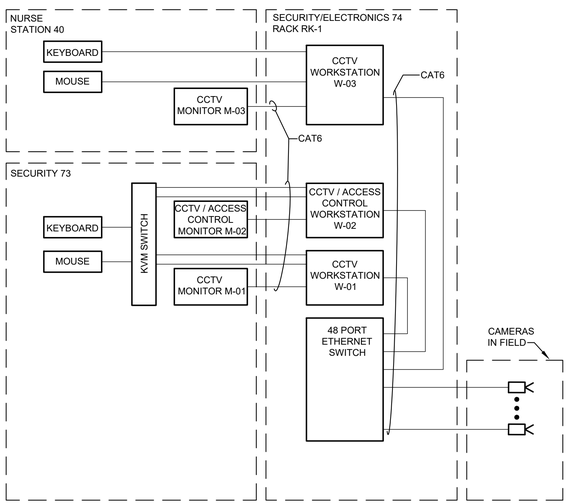


4 TYPICAL DOOR LIGATURE SYSTEM LAYOUT

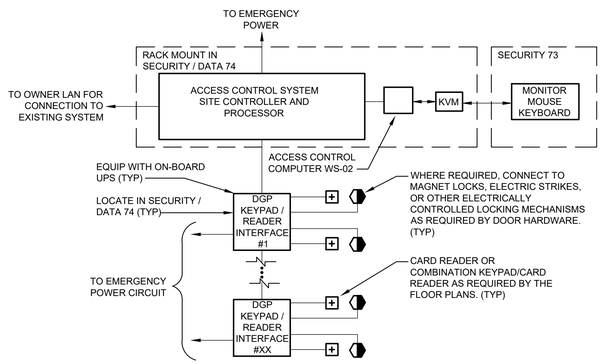


NOTE: REFER TO DETAIL 1 THIS SHEET FOR ADDITIONAL REQUIREMENTS.

3 PROXIMITY ACCESS CONTROL SYSTEM ◇1



2 CCTV / ACCESS CONTROL SYSTEM DIAGRAM



NOTE: REFER TO DETAIL 3 THIS SHEET FOR ADDITIONAL REQUIREMENTS.

1 ACCESS CONTROL SYSTEM INTERCONNECTION DIAGRAM ◇1

GENERAL NOTES

1. PROVIDE 1 TO 1 RATIO OF MONITORS TO COMPUTERS FOR ALL NEW MONITOR LOCATIONS.
2. MULTI-CHANNEL STREAMING OF ALL CAMERAS TO SUPPORT:
   a. RECORDING: 30F/S; 1080P VIDEO TO THE EXISTING.
   b. LIVE: 15F/S; 1080P (FOR FULL SCREEN DISPLAY ONLY), 460P (APPROXIMATE, FOR QUAD DISPLAY).
   c. OWNER TO PROVIDE A LIST OF KNOWN CAMERAS FOR CONTRACTOR REPLACEMENT.
   d. OWNER MAY PROVIDE ADDITIONAL OWNER PROVIDED COMPUTERS. CONTRACTOR TO FURNISH VRS SOFTWARE AND LICENSES ARE REQUIRED FOR OWNER PROVIDED COMPUTERS. OWNER WILL FURNISH CONTRACTOR WITH THE QUANTITIES PRIOR TO BID.

KEYED NOTES

◇1 THIS DETAIL IS DIAGRAMMATIC AND INTENDED TO SHOW GENERAL INTENT. COORDINATE EXACT WIRING REQUIREMENTS WITH DIVISION 8.

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FILENAME

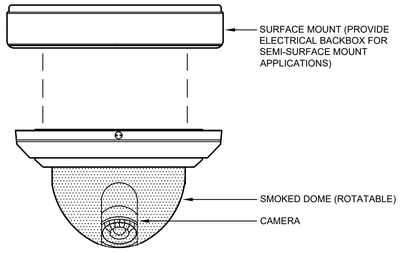
SHEET NAME

SECURITY DIAGRAMS

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PROJECT NO. 221093-01	SHEET NO. **Ty401**
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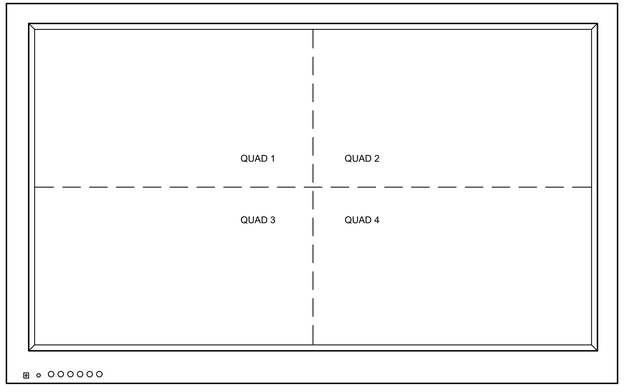
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5 TYPE A, INDOOR/OUTDOOR MINI-DOME CAMERA HOUSING

ITEM	CAMERA #	LOCATION	SHEET	TYPE	MOUNT	NOTES
1	C-01	NEW MAIN ENTRY 1	Ty201	360 PARARAMIC	CEILING	
2	C-02		Ty201	FIXED, EXTERIOR, TYPE A	WALL MOUNT	+11'-6" AFG, EQUIP WITH WALL MOUNTING ARM
3	C-03		Ty201	FIXED, EXTERIOR, TYPE A	WALL MOUNT	+11'-6" AFG, EQUIP WITH WALL MOUNTING ARM
4	C-04		Ty201	FIXED, EXTERIOR, TYPE A	CEILING	
5	C-05		Ty201	FIXED, EXTERIOR, TYPE A	WALL MOUNT	+11'-6" AFG, EQUIP WITH WALL MOUNTING ARM
6	C-06		Ty201	360 PARARAMIC	CEILING	MOUNT UNDERSIDE OF SOFFIT
7	C-07		Ty201	FIXED, EXTERIOR, TYPE A	CEILING	MOUNT UNDERSIDE OF SOFFIT
8	C-08		Ty201	FIXED, EXTERIOR, TYPE A	CEILING	MOUNT UNDERSIDE OF SOFFIT
9	C-09		Ty201	360 PARARAMIC	CEILING	MOUNT UNDERSIDE OF SOFFIT
10	C-10		Ty201	360 PARARAMIC	CEILING	MOUNT UNDERSIDE OF SOFFIT
11	C-11		Ty201	FIXED, EXTERIOR, TYPE A	WALL MOUNT	+11'-6" AFG, EQUIP WITH WALL MOUNTING ARM
12	C-12		Ty201	FIXED, EXTERIOR, TYPE A	WALL MOUNT	+11'-6" AFG, EQUIP WITH WALL MOUNTING ARM
13	C-13		Ty201	360 PARARAMIC	WALL MOUNT	MOUNT ON EXTERIOR CORNER OF BUILDING
14	C-14		Ty201	360 PARARAMIC	WALL MOUNT	MOUNT ON EXTERIOR CORNER OF BUILDING
15	C-15	PARKING	Ty101	360 PARARAMIC	LIGHTING POLE MOUNT	2' BELOW LIGHT FIXTURE, SUPPLY WITH POLE MOUNTING HARDWARE
16	C-16	PARKING	Ty101	360 PARARAMIC	LIGHTING POLE MOUNT	2' BELOW LIGHT FIXTURE, SUPPLY WITH POLE MOUNTING HARDWARE
17	C-17	72	Ty201	FIXED, TYPE A	CEILING	
18	C-18	75	Ty201	FIXED, TYPE A	CEILING	
19	C-19	64	Ty201	FIXED, TYPE A	CEILING	
20	C-20	63	Ty201	FIXED, TYPE A	CEILING	
21	C-21	61	Ty201	FIXED, TYPE A	CEILING	
22	C-22	61	Ty201	FIXED, TYPE A	CEILING	
23	C-23	12	Ty201	FIXED, TYPE A	CEILING	
24	C-24	1	Ty201	FIXED, TYPE A	CEILING	
25	C-25	1	Ty201	FIXED, TYPE A	CEILING	
26	C-26	56	Ty201	FIXED, TYPE A	CEILING	
27	C-27	41	Ty201	FIXED, TYPE A	CEILING	
28	C-28	41	Ty201	FIXED, TYPE A	CEILING	
29	C-29	41	Ty201	FIXED, TYPE A	CEILING	
30	C-30	49	Ty201	FIXED, TYPE A	CEILING	
31	C-31	49	Ty201	FIXED, TYPE A	CEILING	
32	C-32	33	Ty201	FIXED, TYPE A	CEILING	
33	C-33	33	Ty201	FIXED, TYPE A	CEILING	
34	C-34	47	Ty201	FIXED, TYPE A	CEILING	
35	C-35	48	Ty201	FIXED, TYPE A	CEILING	
36	C-36	50	Ty201	FIXED, TYPE A	CEILING	
37	C-37	52	Ty201	FIXED, TYPE A	CEILING	
38	C-38	29	Ty201	FIXED, TYPE A	CEILING	
39	C-39	30	Ty201	FIXED, TYPE A	CEILING	
40	C-40	31	Ty201	FIXED, TYPE A	CEILING	
41	C-41	32	Ty201	FIXED, TYPE A	CEILING	
42	C-42	34	Ty201	FIXED, TYPE A	CEILING	
43	C-43	36	Ty201	FIXED, TYPE A	CEILING	
44	C-44	PARKING	Ty101	360 PARARAMIC	LIGHTING POLE MOUNT	2' BELOW LIGHT FIXTURE, SUPPLY WITH POLE MOUNTING HARDWARE

4 CCTV CAMERA SCHEDULE



3 QUAD SCREEN LAYOUT

MONITOR	LOCATION	MONITOR USE	QUAD 1	QUAD 2	QUAD 3	QUAD 4	SHEET
M-01	SECURITY 73	VRS MONITOR	(1)	(1)	(1)	(1)	TY101
M-02	SECURITY 73	VRS / ACCESS CONTROL MONITOR	(2)	(2)	(3)	(2)	TY101
M-03	NURSE STATION 40	VRS MONITOR	(2)	(2)	(2)	(2)	TY101

DETAIL KEYED NOTES

(1) SEQUENTIALLY SWITCHED CAMERAS WITH 5 SECOND DWELL. PROGRAM FOR FIVE SECOND SALVO SWITCHING AS INDICATED.

(2) USER DEFINABLE CAMERA SELECTION AND SEQUENCING.

(3) DISPLAY OF CAMERAS ASSOCIATED WITH DURESS VIDEO.

DETAIL NOTES

1. REF. QUAD SCREEN LAYOUT DETAIL ON THIS SHEET FOR QUAD LAYOUT CONFIGURATION.
2. ALL CAMERAS CAN BE OPERATOR DEFINED TO EACH QUADRANT OF EACH MONITOR.

2 CCTV MONITOR CAMERA SCHEDULE

ITEM #	READER LABLE	DOOR #	# OF READERS ON DOOR	NOTES
1	CR1	61	2	
2	CR2	61	2	
3	CR3	72A	1	SALLYPORT DOOR
4	CR4	75A	1	PERIMETER EXIT DOOR / DOUBLE DOOR
5	CR5	72B	1	SALLYPORT DOOR
6	CR6	51A	1	SALLYPORT DOOR
7	CR7	73B	1	
8	CR8	73A	1	
9	CR9	1	1	PERIMETER EXIT DOOR / DOUBLE DOOR
10	CR10	10	1	SALLYPORT DOOR
11	CR11	35A	1	SALLYPORT DOOR
12	CR12	11	2	SALLYPORT DOOR
13	CR13	11	2	SALLYPORT DOOR
14	CR14	3	1	
15	CR15	4	1	
16	CR16	16A	1	
17	CR17	63B	1	
18	CR18	64B	1	
19	CR19	40A	1	
20	CR20	16B	1	
21	CR21	40B	1	
22	CR22	28B	1	
23	CR23	33	2	
24	CR24	33	2	
25	CR25	49	2	
26	CR26	49	2	
27	CR27	42	1	
28	CR28	41	1	
29	CR29	28A	1	
30	CR30	27	1	

1 ACCESS CONTROL COMBINATION KEYPAD / CARD READER SCHEDULE

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TMK#: 4-6-014:113

FILENAME

SHEET NAME

SECURITY DETAILS AND SCHEDULES

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TECHNOLOGY SYSTEMS ABBREVIATIONS:

#	POUNDS (SAME AS "LB" AND "LBS")
(E)	EXISTING TO REMAIN
(N)	NEW
(R)	REMOVE
(RL)	RELOCATE
A	AMPERE
AC	ABOVE COUNTER
ADA	AMERICANS WITH DISABILITIES ACT
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AL, ALUM	ALUMINUM
ALT	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ANT	ANTENNA
AOR	ARCHITECT OF RECORD
AP	(WIRELESS) ACCESS POINT
APPROX	APPROXIMATE, APPROXIMATELY
ARCH	ARCHITECTURAL
AUX	AUXILIARY
AV	AUDIO-VIDEO, AUDIO-VISUAL, AUDIOVISUAL
AVC	AUDIO-VIDEO SYSTEMS CONTRACTOR
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM(S)
BB	BACK BOX
BC	BONDING CONDUCTOR
BET	BUILDING ENTRANCE TERMINAL
BFC	BELOW FINISHED CEILING
BLDG	BUILDING
C	CONDUIT
CAB	EQUIPMENT CABINET
CAM	CAMERA
CAT	CATEGORY (TWISTED PAIR CABLING)
CATV	COMMUNITY ACCESS TELEVISION
CC	CONTACT CLOSURE
CFCI	CONTRACTOR-FURNISHED, CONTRACTOR-INSTALLED
CH	CHANNEL
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CLK	CLOCK
CM	COMMUNICATIONS MULTIPURPOSE (CABLE)
CMP	COMMUNICATIONS PLENUM RATED (CABLE)
CMR	COMMUNICATIONS RISER RATED (CABLE)
CMU	CONCRETE MASONRY UNIT
COAX	COAXIAL
CODEC	ENCODER / DECODER
COMM	COMMUNICATIONS
CONF	CONFERENCE
CONT'D	CONTINUED
CP	CONTROL PANEL
CPU	CENTRAL PROCESSING UNIT
CT	CABLE TRAY
CTRL	CONTROL
CU	COPPER
DB	DECIBEL
DED	DEDICATED
DEMO	DEMOLITION
DIA	DIAMETER
DIAG	DIAGONAL
DIG	DIGITAL
DIM	DIMENSION
DISP	DISPLAY
DIST	DISTRIBUTION
DOR	DESIGNER OF RECORD
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC, ELECT	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
ENT	ELECTRICAL NON-METALLIC TUBING
EOR	ENGINEER OF RECORD
EPTZ	ELECTRONIC PAN-TILT-ZOOM
EQ	EQUAL, EQUIVALENT
EQUIP	EQUIPMENT
ER	EQUIPMENT RACK
ESS	ELECTRONIC SECURITY SYSTEM(S)
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FB	FLOOR BOX
FC	FERRULE CONNECTOR (FIBER-OPTIC TERMINATION)
FF	FINISHED FLOOR
FF&E	FURNITURE, FIXTURES & EQUIPMENT
FIXT	FIXTURE
FLR	FLOOR
FMC	FLEXIBLE METAL CONDUIT
FO	FIBER OPTIC
FP	FLAT PANEL VIDEO MONITOR
FPS	FRAMES PER SECOND
FT	FOOT, FEET
FTP	FOILED TWISTED PAIR CABLE
G, GND	GROUND
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GRC	GALVANIZED RIGID CONDUIT (A TYPE OF "RMC")
GUI	GRAPHICAL USER INTERFACE
GYP	GYPSUM
HDD	HARD DISK DRIVE
HDMI	HIGH-DEFINITION MULTIMEDIA INTERFACE
HDPE	HIGH-DENSITY POLYETHYLENE CONDUIT
HDR	HIGH DYNAMIC RANGE
HF	HIGH FREQUENCY
HH	HAND HOLE (IN-GRADE PULL BOX)
HORIZ	HORIZONTAL
HZ	HERTZ
I/O	INPUT / OUTPUT
IBC	INTERNATIONAL BUILDING CODE
IC	INTERCOM
ICT	INFORMATION AND COMMUNICATIONS TECHNOLOGY
ID	INSIDE DIAMETER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IN	INCH, INCHES
INCL	INCLUDE, INCLUDED
IP	INTERNET PROTOCOL
IR	INFRARED
IT	INFORMATION TECHNOLOGY
J, JB, J-BOX	JUNCTION BOX
KO	KNOCK-OUT
KP	KEYPAD
KVM	KEYBOARD-VIDEO-MOUSE
KYBD	KEYBOARD
LAN	LOCAL AREA NETWORK
LB, LBS	POUNDS (SAME AS "#")
LC	LATCHING CONNECTOR (FIBER OPTIC TERMINATION)
LCD	LIQUID CRYSTAL DISPLAY
LED	LIGHT EMITTING DIODE
LF	LOW FREQUENCY
LFMC	LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT
LFNC	LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT
LT	LIQUID TIGHT
LTG	LIGHTING
LV	LOW-VOLTAGE
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MULTIMODE (OPTICAL FIBER)
MNS	MASS NOTIFICATION SYSTEM
MOD	MODIFIED
MON	MONITOR
MTD	MOUNTED
MTG	MOUNTING
MTR	MAIN TELECOM ROOM
NAS	NETWORK ATTACHED STORAGE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NOM	NOMINAL
NRTL	NATIONALLY-RECOGNIZED TESTING LABORATORY
NTS	NOT TO SCALE
OC	ON CENTER OUTSIDE DIAMETER
OD	OWNER FURNISHED, CONTRACTOR INSTALLED
OFCI	OWNER FURNISHED EQUIPMENT
OFE	OWNER FURNISHED, OWNER INSTALLED
OFOI	OVERHEAD
OH	OUTSIDE PLANT
OSP	PUBLIC ADDRESS
PA	PULL BOX
PB	PRIMARY BONDING BUSBAR
PBB	PERSONAL COMPUTER
PC	POWER DISTRIBUTION UNIT
PDU	PROFESSIONAL ENGINEER
PE	PASSIVE INFRARED
PIR	PLYWOOD
PLYWD	PANEL
PNL	POWER OVER ETHERNET
POE	POINT OF SALE
POS	PAIR
PR	PAN-TILT-ZOOM
PTZ	POLYVINYL CHLORIDE
PVC	POWER
PWR	QUANTITY
QTY	RAISED ACCESS FLOORING
RAF	RACK BONDING BUSBAR
RBB	RACK BONDING CONDUCTOR
RBC	REFLECTED CEILING PLAN
RCP	RECEPTACLE
RCPT	REFER (TO) OR REFERENCE
RE, REF	REQUIRED
REQ	RADIO FREQUENCY
RF	RED-GREEN-BLUE
RGB	ROUGH-IN ONLY
RIO	ROOM
RM	RIGID METAL CONDUIT
RMC	RACK UNIT(S)
RU	RECEIVER
RX	SUBSCRIBER CONNECTOR (FIBER-OPTIC TERMINATION)
SC	STRUCTURED CABLING CONTRACTOR
SCC	SCHEDULE
SCHED	SCREEN
SCRN	STRUCTURED CABLING SYSTEM
SCS	SIMILAR
SIM	SINGLEMODE (OPTICAL FIBER)
SM	SURGE PROTECTIVE DEVICE
SPD	SPECIFICATIONS
SPECS	STAINLESS STEEL
SST	STRAIGHT TERMINUS CONNECTOR (FIBER OPTIC TERMINATION)
ST	SOUND TRANSMISSION CLASS
STC	STANDARD
STD	SHIELDED TWISTED PAIR CABLE
STP	STRAND
STR	STRUCTURAL
STRUCT	TO BE DETERMINED
TBD	TRANSMISSION CONTROL PROTOCOL / INTERNET PROTOCOL
TCP/IP	TELECOMMUNICATIONS
TELECOM	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TIA	TOUCH PANEL
TP	TELECOMMUNICATIONS ROOM
TR	TELEVISION
TV	TRANSMITTER
TX	TYPICAL
TYP	UNDER COUNTER
UC	USER DATAGRAM PROTOCOL
UDP	UNDERGROUND
UG	USER INTERFACE
UI	UNDERWRITERS LABORATORIES
UL	UNLESS OTHERWISE NOTED
UON	UNINTERRUPTIBLE POWER SUPPLY
UPS	UNIVERSAL SERIAL BUS
USB	UNSHIELDED TWISTED PAIR CABLE
UTP	VOLT(S)
V	VOLT-AMP(S)
VA	VOLTS ALTERNATING CURRENT
VAC	VOLTS DIRECT CURRENT
VDC	VERTICAL
VERT	VERIFY IN FIELD
VIF	VOICE OVER INTERNET PROTOCOL
VOIP	VANDAL RESISTANT
VR	WATT(S)
W	WIRELESS
WL	WIRELESS LOCAL AREA NETWORK
WLAN	WEATHERPROOF
WP	

GENERAL DRAWING SYMBOLS

SECTION / CALLOUT VIEW REFERENCE

NUMBER OF DETAIL ON SHEET

NUMBER OF SHEET WHERE DETAIL APPEARS

CENTERLINE

MATCHLINE WITH VIEW REFERENCE

KEYED NOTE (SEE SCHEDULE)

REVISION NUMBER

ROOM NAME AND NUMBER

DOOR TAG - REFERENCE ARCHITECTURAL DOOR SCHEDULE FOR MORE INFORMATION

GRAPHICAL REPRESENTATION OF PHASING (TYP FOR ALL SYMBOLS)

NEW

EXISTING TO REMAIN

OWNER-FURNISHED OR FUTURE, AS NOTED

RACEWAY SYMBOLS & LINETYPES

CONDUIT CONCEALED IN WALL OR ABOVE CEILING

HOMERUN CONDUIT

YY= DESTINATION

= CONDUIT TRADE SIZE

XX= CONDUIT QUANTITY (ONE IF NONE LISTED)

JUNCTION BOX

Sheet List (All)

Sheet Number	Sheet Name
TA001	TECHNOLOGY SYSTEMS GENERAL NOTES
TA002	AV SYSTEMS NOTES AND SYMBOLS
TA101	AV SYSTEMS OVERALL FLOOR PLAN
TA102	AV SYSTEMS OVERALL RCP
TA401	AV SYSTEMS ENLARGED FLOOR PLAN
TA402	AV SYSTEMS ENLARGED FLOOR PLAN
TA403	AV SYSTEMS ENLARGED RCP
TA501	AV SYSTEM DETAILS
TA502	AV SYSTEM DETAILS
TA701	AV SYSTEM ONE LINE DIAGRAMS
TA702	AV SYSTEM ONE LINE DIAGRAMS

TECHNOLOGY SYSTEMS GENERAL NOTES:

1. ADHERE TO ALL BUILDING OWNER RULES AND REGULATIONS, DIVISION 26, 27, AND 28 SPECIFICATION SECTIONS, AND DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS.
2. DEFINITIONS:
   A. "FURNISH" AND "PROCURE" MEAN TO "SUPPLY" (ACQUIRE, DELIVER TO FINAL INTENDED LOCATION AT PROJECT SITE, UNPACKAGE AND INSPECT).
   B. "INSTALL" MEANS TO SET/FASTEN PERMANENTLY IN PLACE, CONNECT TO OTHER INTENDED COMPONENTS/CABLING, PLACE IN FULL OPERATIONAL ORDER, CONFIGURE SETTINGS TO MEET PERFORMANCE REQUIREMENTS, AND PERFORM ALL REQUIRED VERIFICATION TESTING.
   C. "PROVIDE" MEANS TO "FURNISH AND INSTALL."
   D. "EQUIVALENT" MEANS "MEETS THE SPECIFICATIONS OF THE REFERENCE PRODUCT OR ITEM IN ALL SIGNIFICANT ASPECTS."
   E. "WORK BY OTHER(S) (CONTRACTOR):" "RE: DIVISION XX," AND SIMILAR EXPRESSIONS MEAN WORK TO BE PERFORMED UNDER THE CONTRACT DOCUMENTS, BUT NOT NECESSARILY UNDER THE DIVISION OR SECTION OF THE WORK ON WHICH THE NOTE APPEARS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE THE WORK OF THE CONTRACT BETWEEN THEIR SUPPLIERS, SUBCONTRACTORS, AND OTHER TRADE PARTNERS. IF CLARIFICATION IS REQUIRED, CONSULT WITH THE CONTRACT ADMINISTRATOR/OFFICER.
3. ROOM DIMENSIONS ON THESE DRAWINGS HAVE BEEN TAKEN FROM ARCHITECTURAL DRAWINGS. ALL DIMENSIONS MUST BE VERIFIED IN-PERSON AT THE PROJECT SITE PRIOR TO INSTALLATION. DEVIATIONS CAUSING CHANGES EXCEEDING 3 IN. MUST RECEIVE WRITTEN PRIOR APPROVAL BY THE CONTRACT ADMINISTRATOR/OFFICER, WITH THE BACKING OF THE APPROPRIATE ARCHITECT/ENGINEER-OF-RECORD ENTITY.
4. WHERE EXACT DIMENSIONS ARE NOT CALLED FOR, THE SCALE OF THESE DRAWINGS IS SUFFICIENTLY ACCURATE TO DETERMINE THE LOCATION OF EQUIPMENT, JUNCTION BOXES, OUTLET BOXES, WIREWAYS, PANELS, ETC (EXCEPT WHERE INDICATED AS "NOT TO SCALE" OR "NO SCALE"). WHERE EXACT DIMENSIONS ARE CALLED FOR, THE REFERENCE SURFACE WILL BE THE FINAL FINISHED SURFACE UON.
5. ENSURE ALL CABLING IS RATED FOR THE ACTUAL ENVIRONMENTAL INSTALLATION CONDITIONS (E.G., PLENUM, OUTDOOR, OR INDOOR/OUTDOOR RATED),
6. ALL TECHNOLOGY CABLING MUST BE FULLY SUPPORTED BY DEDICATED PATHWAYS / RACEWAYS SPECIFICALLY PROVIDED FOR THAT PURPOSE FOR THE ENTIRE DISTANCE. NO CABLING MAY BE RUN UNSUPPORTED OR LAID OVER CEILING TILES, ELECTRICAL CONDUITS, HVAC DUCTS, PIPING, OR OTHER SUPPORTS OR CEILING MEMBERS NOT INTENDED FOR THAT PURPOSE.
7. COORDINATE LOCATIONS AND MOUNTING CONDITIONS WITH OTHER TRADES. ADJUST AND ADAPT WORK AS REQUIRED BY ACTUAL PROJECT CONDITIONS SO FINAL INSTALLATION IS COMPATIBLE WITH MATERIALS, EQUIPMENT, ROUTING, AND CLEARANCES OF ALL TRADES.
   A. EXAMINE THE CONTRACT DOCUMENTS OF ALL TRADES (DRAWINGS FOR THE ARCHITECTURAL, REFLECTED CEILING, MECHANICAL HVAC, ELECTRICAL POWER AND LIGHTING, FIRE PROTECTION, PLUMBING, ETC.).
   B. ASSIST OTHER CONTRACTORS IN PREPARING SHOP DRAWINGS FOR COORDINATING INSTALLATION OF ALL WORK (LOCATION, CEILING CLEARANCES, CABLE TRAY ACCESSIBILITY AND PATHWAY CLEARANCES THROUGHOUT, ETC.).
   C. REFER TO ARCHITECTURAL DRAWINGS FOR MINIMUM CLEARANCE REQUIREMENTS FROM FINISHED FLOOR TO BOTTOM OF DUCTWORK, CONDUIT, CABLE TRAY, LIGHTING, ETC.
8. THE DIVISION 26 ELECTRICAL CONTRACTOR MUST PROVIDE ALL PATHWAYS / RACEWAYS FOR TECHNOLOGY CABLING SYSTEMS. THIS INCLUDES, BUT IS NOT LIMITED TO, CONDUIT, SLEEVES, STUB-UPS, CABLE TRAY, WIREWAYS, AND PERMANENTLY INSTALLED JUNCTION BOXES IN FLOORS, WALLS, AND CEILINGS. POWER RECEPTACLES AND WIRING MUST BE PROVIDED AS SHOWN ON THE ELECTRICAL DRAWINGS INCLUDING RECEPTACLES INSTALLED WITHIN RECESSED IN-WALL BACK BOXES, FLOOR BOXES AND POKE-THROUGH ASSEMBLIES FOR TECHNOLOGY SYSTEMS.
9. THE TELECOM BONDING AND GROUNDING SYSTEM SPECIFIED IN DIVISION 27 MUST BE PROVIDED AND CONNECTED TO THE BUILDING BONDING AND GROUNDING SYSTEM BY THE DIVISION 26 ELECTRICAL CONTRACTOR. THIS INCLUDES, BUT IS NOT LIMITED TO, TELECOM BONDING BUSBAR(S), TELECOM BONDING BACKBONE, GROUNDING EQUALIZER AND BONDING CONDUCTORS TO BUILDING STEEL, POWER PANELS, AND CONDUITS.
10. ALL EQUIPMENT, CABLING, PATHWAYS, ETC. MUST BE BONDED TO THE TELECOM BONDING AND GROUNDING SYSTEM FOR CONNECTION TO BUILDING GROUND IN ACCORDANCE WITH THE SPECIFICATIONS AND ANSI J-STD-607-D. PROVIDE GROUND CONDUCTORS, GROUND CLAMPS, COMPRESSION TAPS, LUGS, ETC. AS REQUIRED FOR CONNECTION TO THE BONDING AND GROUNDING SYSTEM.
11. FOR WALL-MOUNTED TECHNOLOGY DEVICES, PROVIDE FLUSH MOUNTED BACK BOXES AND EXTENSION RINGS WITH TOTAL DEPTH AS REQUIRED TO MATCH THICKNESS OF COMPLETE WALL AND INSULATION ASSEMBLY. PROVIDE CONDUIT FROM THE BACK BOX STUBBED TO NEAREST ACCESSIBLE CEILING SPACE UNLESS OTHERWISE NOTED.
12. DEVICE OUTLETS SHALL BE MOUNTED VERTICALLY UNLESS OTHERWISE NOTED.
13. ALL CONDUITS FOR TECHNOLOGY SYSTEMS MUST BE OF NON-FLEXIBLE, RIGID-WALLED CONSTRUCTION, AND BE A MINIMUM 1 IN. TRADE SIZE, UNLESS OTHERWISE NOTED.
14. COORDINATE WITH OTHER TRADES PRIOR TO COMMENCING ROUGH-IN WORK FOR CONDUIT AND BACK BOX LOCATIONS IN PRECAST WALLS, POURED CONCRETE, MASONRY, ETC.
15. COORDINATE WITH ARCHITECT AND OWNER FOR MOUNTING HEIGHTS OF ALL TECHNOLOGY DEVICE OUTLETS. WALL MOUNTED TECHNOLOGY OUTLET BACK BOXES MUST TYPICALLY BE MOUNTED AT +18 IN. AND MUST MATCH THE STANDARD MOUNTING HEIGHT FOR POWER RECEPTACLES. DEVICES SHOWN AT +44 IN. AFF MUST MATCH THE STANDARD MOUNTING HEIGHT FOR LIGHT SWITCHES, ETC. MOUNTING HEIGHTS SHOWN ON ARCHITECTURAL ELEVATIONS MUST GOVERN OVER THOSE SHOWN HEREIN.
16. OUTLET MOUNTING HEIGHTS INDICATED ARE TYPICAL TO CENTERLINE OF BOX UNLESS OTHERWISE NOTED.
17. PROVIDE COMPLETE PATHWAY SYSTEMS FOR TECHNOLOGY CABLING TO HOMERUN FROM THE OUTLETS TO THE TELECOM ROOM OR CABINET DESIGNATED ON THE DRAWINGS. PATHWAYS MUST BE ROUTED TO MINIMIZE UNNECESSARY CABLE LENGTHS AND MAINTAIN INDUSTRY STANDARD LENGTH LIMITATIONS FOR HORIZONTAL STRUCTURED CABLE DISTRIBUTION. NO HORIZONTAL CABLE LENGTH (BASIC LINK) MAY EXCEED 90 METERS (295 FEET) UNLESS SPECIFICALLY ALLOWED.
18. PATHWAY MOUNTING HEIGHTS INDICATED ON PLANS ARE TO THE BOTTOM OF THE PATHWAY SUPPORTS (STRUT CHANNEL TRAPEZE, ANGLE SUPPORT, CONDUIT CLAMP, ETC).
19. PROVIDE SEISMIC BRACING FOR ALL TECHNOLOGY PATHWAYS AND EQUIPMENT AS REQUIRED BY CODE, LOCAL GOVERNING JURISDICTIONS, AND MANUFACTURERS' SPECIFICATIONS. CONSULT THE CODE DATA SHEET WITHIN DRAWING PACKAGE TO VERIFY THE PROJECT'S SEISMIC DESIGN CATEGORY AND CLASSIFICATION.
20. TECHNOLOGY PATHWAY SYSTEMS MUST BE DEDICATED FOR TECHNOLOGY SYSTEMS CABLING ONLY. ALL OTHER SYSTEMS INCLUDING, BUT NOT LIMITED TO, FIRE ALARM, HVAC CONTROLS, LIGHTING CONTROLS, ETC. MUST BE SUPPORTED BY OTHER MEANS AND MUST NOT BE ROUTED WITHIN THE TECHNOLOGY SYSTEMS PATHWAYS.
21. CABLES FOR DIFFERENT LOW VOLTAGE SYSTEMS (70V SPEAKER, BMS, ETC.) MUST NOT BE RUN IN THE SAME CONDUIT WITH HORIZONTAL OR BACKBONE COPPER UTP OR FIBER-OPTIC CABLING, UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS.
22. J-HOOKS MAY ONLY BE USED IN ACCESSIBLE CEILING SPACES WHERE CABLING IS NOT VISIBLE. PROVIDE DEDICATED J-HOOKS SPACED NO GREATER THAN 48 IN. ON-CENTER.
23. PROVIDE CONDUITS / SLEEVES THROUGH WALLS AND ACROSS INACCESSIBLE CEILING SPACES TO ENSURE UNOBSTRUCTED PATHWAY FROM OUTLETS TO THE SERVING TELECOM ROOM OR CABINET. PATHWAY ROUTE MAY INCLUDE CABLE TRAY OR J-HOOK THROUGH ACCESSIBLE CEILING SPACES.
24. TECHNOLOGY PATHWAYS ROUTED THROUGH ELECTRICAL ROOMS MUST BE PHYSICALLY CONTINUOUS AND BONDED TO TELECOM BONDING AND GROUNDING SYSTEM. ENCLOSE ANY CABLE TRAY ROUTED THROUGH ELECTRICAL ROOMS OR WITHIN PROXIMITY OF INTERFERING ELECTRICAL SOURCES, USING SOLID BOTTOM TROUGH WITH REMOVABLE COVERS.
25. PROVIDE NEMA 3R CORROSION RESISTANT OUTLETS, CONDUITS AND WIRING METHODS THROUGHOUT SPACES EXPOSED TO WET CONDITIONS.
26. IN AREAS WHERE CORROSIVE CHEMICALS ARE PRESENT (EG, INDOOR POOLS, SPAS, WATER TREATMENT/PUMP ROOMS, ETC), PROVIDE NEMA 4X OR NEMA 12 FULLY-SEALED/GASKETED CORROSION-RESISTANT ENCLOSURES, OUTLET COVERS, CONDUITS AND WIRING METHODS, USING STAINLESS STEEL FINISHES WHEN AVAILABLE.
27. INSTALL PATHWAYS PARALLEL OR PERPENDICULAR TO WALL OR STRUCTURAL MEMBERS TO FOLLOW STRUCTURAL SURFACE CONTOURS AND DO NOT OBSTRUCT PASSAGEWAYS. WHERE MULTIPLE RACEWAYS ARE ROUTED THROUGH THE SAME AREA, GROUP SUCH RACEWAYS TOGETHER NEATLY.
28. PROVIDE PATHWAY INFRASTRUCTURE WITH NO LESS THAN 25% SPARE CAPACITY ABOVE THE NEC MINIMUM FILL RATIOS INDICATED IN NEC (NFPA 70) CHAPTER 9, TABLE 1.
29. INSTALL CONDUIT WITH LARGE RADIUS BENDS. THE RATIOS FOR MINIMUM BEND RADIUS TO CONDUIT DIAMETER ARE:
   A. 6:1 BEND RADIUS OF THE INSIDE CONDUIT DIAMETER FOR CONDUIT SIZES LESS THAN 2 IN.
   B. 10:1 BEND RADIUS OF THE INSIDE CONDUIT DIAMETER FOR CONDUIT SIZES EQUAL TO OR GREATER THAN 2 IN.
30. CONDUIT ROUTING MUST NOT EXCEED 180 DEGREES FOR THE SUM OF ALL ELBOWS, SWEEPS AND BENDS FOR A PARTICULAR CONDUIT RUN WITHOUT AN APPROVED PULL-BOX, HAND HOLE, OR VAULT. THE MAXIMUM BEND FOR ANY LOCATION MUST NOT EXCEED 90 DEGREES. 3-POINT SADDLE BENDS ARE NOT PERMITTED IN CONDUIT ROUTES.
31. INSIDE CONDUIT RUNS MUST NOT EXCEED 100 FT. BETWEEN PULL POINTS WITHOUT AN APPROVED PULL-BOX.
32. PROVIDE PULL-BOXES AND HAND HOLES IN STRAIGHT SECTIONS OF CONDUIT ONLY. DO NOT USE PULL-BOXES OR HAND HOLES TO CHANGE PATHWAY DIRECTION, UNLESS SPECIFICALLY SHOWN WITH A CHANGE IN DIRECTION ON THE DRAWINGS.
33. CONDUIT OUTLET BODIES (I.E., CONDULET, C, LB, LL, LR, T), MUST NOT BE USED AS CABLE PULL POINTS OR TO CHANGE PATHWAY DIRECTION IN ANY LOCATIONS. SPECIALTY "SMART LB" CONDUIT OUTLET BODIES DESIGNED FOR LARGE-BEND RADIUS CABLE ENTRY THROUGH EXTERIOR WALLS MAY BE PERMITTED ONLY WHEN SPECIFICALLY INDICATED ON PLANS OR PRE-APPROVED IN WRITING.
34. PROVIDE PROTECTIVE BUSHINGS ON CONDUIT ENDS INCLUDING RISER CONDUITS/SLEEVES, HORIZONTAL CONDUITS, DEVICE CONDUITS, AND SLEEVES. ALL CONDUIT PATHWAYS MUST BE PROVIDED WITH NYLON BUSHINGS TO PROTECT CABLES, REGARDLESS OF WHETHER THEY TERMINATE IN A DEVICE OR JUNCTION BOX.
35. PROVIDE NRTL-LISTED EXPANSION FITTINGS IN CONDUIT OR RACEWAY CROSSING BUILDING EXPANSION JOINTS. REFERENCE ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.
36. PROVIDE EMPTY RACEWAY SYSTEMS WITH A PULL LINE OR TAPE INSTALLED WITH 3 FEET EXTENDING FROM EACH END, KNOTTED AND SECURED TO REMAIN IN PLACE. FOR INDOOR APPLICATIONS, USE PULL LINE HAVING NOT LESS THAN 200 LB. TENSILE STRENGTH. FOR OUTDOOR APPLICATIONS USE PULL TAPE OR WIRE HAVING NOT LESS THAN 1200-LB. TENSILE STRENGTH.
37. SEAL PENETRATIONS THROUGH RATED ASSEMBLIES (WALLS, FLOORS, ETC.) AS INDICATED ON ARCHITECTURAL DRAWINGS TO MAINTAIN THE ASSEMBLY RATING AROUND AND WITHIN THE PATHWAY.
38. PROVIDE APPROVED FIRESTOPPING SYSTEMS TO SEAL ALL PENETRATIONS THROUGH RATED WALLS, FLOORS, ASSEMBLIES AND CONDUIT/SLEEVE OPENINGS FOR TECHNOLOGY SYSTEMS AND CABLING, INCLUDING EMPTY PATHWAYS. WHEN CABLE INSTALLATION IS COMPLETE, FIRESTOPPING SYSTEMS AND MATERIALS MUST BE RATED AND APPROVED FOR PREVENTION OF FLAMES, HOT GASSES AND SMOKE WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR APPLICABLE CODES AND AHJ REQUIREMENTS.
39. FOR ALL BACK BOXES INSTALLED IN ACOUSTICALLY RATED PARTITIONS AS INDICATED ON ARCHITECTURAL DRAWINGS: MAINTAIN A MINIMUM OF 12 INCHES SEPARATION BETWEEN OUTLETS ON OPPOSITE SIDES OF PARTITION. PROVIDE ACOUSTICAL OUTLET BACKER PUTTY (AS MANUFACTURED BY KINETICS NOISE CONTROL, OR EQUAL). PUTTY PADS SHALL MAINTAIN ACOUSTICAL RATINGS PER ASTM C 919 AND ASTM E 497, AND BE TESTED TO UL 263 (ASTM E119) AND UL 1479 (ASTM E814) STANDARDS.
40. FUTURE WORK. THE DRAWINGS AND SPECIFICATIONS MAY INDICATE SOME WORK WHICH IS TO BE PROVIDED UNDER THIS SCOPE OF WORK BUT WHOSE TIMING MAY BE DIFFERENT THAN THE REST OF THE WORK. THIS WORK GENERALLY FACILITATES THE INSTALLATION OF "TENANT FINISH" WORK OR FOOD SERVICE WORK. IT IS WITHIN THIS DIVISION'S SCOPE OF WORK TO COORDINATE THIS WORK WITH THE WORK OF THE CONTRACTOR PROVIDING THE FUTURE SCOPE OF WORK.
41. DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. ABSOLUTE ACCURACY IS NOT GUARANTEED. THE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND SHALL NOT BE SCALED.
42. PATHWAY ROUTING ON THESE DRAWINGS PRIMARILY SHOWS INTERCONNECTIONS BETWEEN TERMINAL POINTS. THE DIVISION 26 ELECTRICAL CONTRACTOR MUST COORDINATE THE EXACT ROUTING OF PATHWAYS BASED ON FIELD CONDITIONS AND MUST COORDINATE PROPOSED ROUTES WITH THE TECHNOLOGY SYSTEMS CABLING CONTRACTOR(S) TO ENSURE BOTH PARTIES ARE IN AGREEMENT PRIOR TO SUBMITTING SHOP DRAWINGS OR INITIATING WORK IN THE FIELD. SHOP DRAWINGS SHOWING ROUTING OF THESE PATHWAYS MUST BE SUBMITTED AS SPECIFIED IN DIVISION 27 AND APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION. ANY REMEDIATION TO TECHNOLOGY PATHWAY AND ROUTING TO MEET REQUIREMENTS WILL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
43. SEQUENCING OF SYSTEMS EQUIPMENT AND PROVISIONING WITHIN THE PROJECT SCOPE MUST BE COORDINATED WITH THE OWNER AND OWNER'S REPRESENTATIVES FOR OWNER FURNISHED SYSTEMS AND EQUIPMENT. THIS INCLUDES, BUT IS NOT LIMITED TO, OWNER'S STAFF AND OWNER'S CONTRACTORS FOR SYSTEMS AND EQUIPMENT.

KAILUA DENVER SEATTLE TUCSON
CENSEO design 808.726.2999
CENSEO AV+Acoustics

REVISIONS

#	Date	Description

CD / BID SET

02/27/2026

This work was prepared by me or under my supervision and construction of this project will be under my observation

Supervision and Observation of this project is as defined in Section 1.2 of the Hawaii Administrative Rules, Title 16, Chapter 115, Professional Engineers, Architects, Land Surveyors, and Landscape Architects.

License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://SMMH Behavioral Health/21117-SMMH-AV-R24.rvt

SHEET NAME
TECHNOLOGY SYSTEMS GENERAL NOTES

SCALE: NO SCALE

DRAWN BY	CHECKED BY
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PROJECT NO.	SHEET NO.
221093-01	TA001
SHEET ISSUE DATE	
02/27/2026	

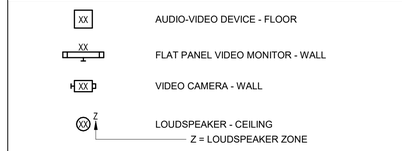
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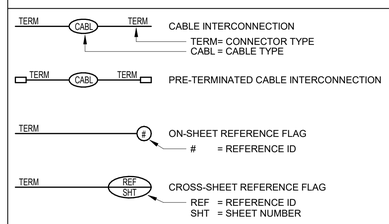
AV SYSTEMS ABBREVIATIONS:

ALS	ASSISTIVE LISTENING SYSTEM
AMP	AMPLIFIER
ATC	AUDIO TELECONFERENCING
AVOIP	AUDIO-VIDEO OVER INTERNET PROTOCOL
BPL	BOTTOM PICTURE LINE
BT	BLUETOOTH
CLA	CENTRAL LISTENING AREA
CSC	CENTER SCREEN CHANNEL
DCI	DIGITAL CINEMA INITIATIVES
DCP	DIGITAL CINEMA PACKAGE
DCSS	DIGITAL CINEMA SYSTEM SPECIFICATION
DSP	DIGITAL SIGNAL PROCESSOR
HD	HAZARD DISTANCE
HDBT	HDBASET
HGA	HALF GAIN ANGLE
HI	HEARING IMPAIRED
ISS	INTER-SPEAKER SPACING
LCR	LEFT/CENTER/RIGHT AUDIO
LFE	LOW FREQUENCY EFFECTS
LR	LEFT/RIGHT (STEREO) AUDIO
LRS	LEFT REAR SURROUND
LSC	LEFT SCREEN CHANNEL
LSS	LEFT SIDE SURROUND
LTS	LEFT TOP SURROUND
MIC	MICROPHONE
PJ, PROJ	PROJECTOR
PS	PROJECTION SCREEN
RLP	REFERENCE LISTENING POSITION
RRS	RIGHT REAR SURROUND
RSC	RIGHT SCREEN CHANNEL
RSD	ROOM STATUS DISPLAY / INDICATOR LIGHT
RSS	RIGHT SIDE SURROUND
RTS	RIGHT TOP SURROUND
S, SPKR	SPEAKER, LOUDSPEAKER
SFP	SMALL FORM-FACTOR PLUGGABLE
SH	SEPARATION HEIGHT
SMPTE	SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS
SPL	SOUND PRESSURE LEVEL
SSS	SPEAKER SCREEN SPACING
SWS	SPEAKER WALL SPACING
UST	ULTRA SHORT THROW
VC	VIDEO CAMERA
VCD	VOLUME CONTROL (VOLUME ATTENUATOR) DEVICE
VI	VISUALLY IMPAIRED
VOL	VOLUME
VTC	VIDEO TELECONFERENCING
VW	VIDEO WALL
XCVR	TRANSCEIVER

AV SYSTEMS SYMBOLS



AV ONE-LINE LEGEND



AV SYSTEMS NOTES:

1. THE AV DRAWINGS DESCRIBE BASE-BUILDING ACCOMMODATIONS FOR AV SYSTEMS, INCLUDING ASSOCIATED POWER, DATA, RACEWAY, AND MOUNTING REQUIREMENTS. THESE DRAWINGS PROVIDE COORDINATION INFORMATION FOR OTHER TRADE PARTNERS SUCH AS ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL.
2. THE AV SYSTEMS SHOWN IN THESE DOCUMENTS MUST BE PROVIDED AND INSTALLED BY AN AV TRADE CONTRACTOR SPECIALIZING IN THESE SYSTEMS. THE AV CONTRACTOR MUST PROVIDE ALL CABLING, HARDWARE AND EQUIPMENT SHOWN ON THESE DRAWINGS AND AS SPECIFIED WITHIN THE ***DIVISION 27 SPECIFICATIONS SECTION 27 41 00***, EXCEPT WHERE OTHERWISE NOTED.
3. FOR SPACES EQUIPPED WITH A SOUND REINFORCEMENT SYSTEM, THE AV CONTRACTOR MUST COORDINATE WITH THE FIRE ALARM CONTRACTOR TO PROVIDE AN ADDRESSABLE RELAY (WITH DRY CONTACT CLOSURE OUTPUT) AND TO PROVIDE ASSOCIATED WIRING TO THE AV SYSTEM'S PRIMARY ***[CONTROL CPU / AUDIO DSP / POWER AMPLIFIER]*** THAT WILL MUTE NECESSARY AUDIO SIGNAL(S) DURING A LIFE-SAFETY "ALARM" NOTIFICATION EVENT. THE AVC MUST BE RESPONSIBLE FOR PROPER COORDINATION WITH OTHER TRADE(S) FOR PROVISION OF EQUIPMENT, HARDWARE, CABLING AND PROGRAMMING TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
4. FOR EACH WALL/CEILING-MOUNTED AV EQUIPMENT UNIT, PROVIDE STRUCTURAL SUPPORT THAT IS RATED A MINIMUM OF FIVE TIMES (5X) THE EQUIPMENT'S GROSS INSTALLED WEIGHT (INCLUDING ASSOCIATED HARDWARE AND CABLING) SAFETY FACTOR, DEFINED AS BEING CAPABLE OF SUPPORTING 5 TIMES THE WEIGHT OF THE EQUIPMENT BEING SUPPORTED.
5. AV CONTRACTOR MUST VERIFY, AND PROVIDE, THE NECESSARY COMPLEMENT AND QUANTITIES OF THE FOLLOWING: CABLES, CABLE TERMINATIONS/CONNECTORS, CABLE TERMINATION FACEPLATES/PANELS, STRAIN RELIEFS, BUNDLING/DRESSING MATERIALS, MOUNTING HARDWARE ACCESSORIES, PASSIVE AND ACTIVE VENTILATION HARDWARE/SYSTEMS, AND SOFTWARE LICENSES.
6. PROVIDE LABELS WITH TEXT AT BOTH ENDS OF ALL CABLING IN PROJECT.
7. AV CONTRACTOR MUST PROVIDE ALL CABLING IDENTIFIED IN THE CONTRACT DOCUMENTS THAT IS INTENDED FOR CONNECTION TO AV SYSTEM-RELATED EQUIPMENT, INCLUDING LOOSE/PORTABLE CABLING ASSEMBLIES. THIS REQUIREMENT ALSO APPLIES TO OWNER-FURNISHED (OFCI AND OFOI) EQUIPMENT, UNLESS OTHERWISE INDICATED

AV EQUIPMENT AND INFRASTRUCTURE SCHEDULE

AV EQUIPMENT		AV INFRASTRUCTURE				
EQUIPMENT TAG	**EQUIPMENT DESCRIPTION**	**MOUNTING**	**BOX AND RACEWAY ROUGH-IN**	**ELECTRICAL REQUIREMENTS**	**DATA REQUIREMENTS**	**NOTES**
CP1	DISPLAY CONTROL PANEL	FLUSH MOUNTED TO WALL AT STANDARD SWITCH HEIGHT, 42" AFF	1-GANG BACKBOX WITH 5/8" MUD RING	N/A	N/A	
FB1	AV AND POWER COMBINATION FLOORBOX	IN SLAB	N/A	ONE (1) DUPLEX NEMA 5-20R WITHIN COMBINATION FLOORBOX. FLOORBOX TO HOUSE LOW VOLTAGE EQUIPMENT AS WELL AS POWER RECEPTACLE	N/A	
FP1-65	REGULAR 65" FLATPANEL VIDEO DISPLAY	WALL MOUNTED 48" AFF TO BOTTOM OF DISPLAY	SPECIALTY SURFACE DISPLAY MOUNT TO HOUSE EQUIPMENT BEHIND DISPLAY. ONE (1) GANG BACK BOX WITH PASSTHROUGH PLATE FOR AV CABLING	ONE (1) DUPLEX NEMA 5-20R MOUNTED BEHIND DISPLAY	PROVIDE TWO (2) NETWORK (BUILDING LAN) DATA DROPS BEHIND DISPLAY	
FP2-65	65" VIDEO DISPLAY IN PROTECTIVE SHROUD	WALL MOUNTED 48" AFF TO BOTTOM OF DISPLAY	SPECIALTY RECESSED AV BACKBOX	PROVIDE TWO (2) DUPLEX NEMA 5-20R MOUNTED WITHIN AV BACK-BOX. SEE DETAIL ON SHEET TA-501 FOR SPECIFIC LOCATION WITHIN BACKBOX	PROVIDE TWO (2) NETWORK (BUILDING LAN) DATA DROPS WITHIN DISPLAY BACK BOX	
FP3-65	65" VIDEO DISPLAY IN PROTECTIVE SHROUD	WALL MOUNTED 48" AFF TO BOTTOM OF DISPLAY	SPECIALTY RECESSED AV BACKBOX	PROVIDE TWO (2) DUPLEX NEMA 5-20R MOUNTED WITHIN AV BACK-BOX. SEE DETAIL ON SHEET TA-501 FOR SPECIFIC LOCATION WITHIN BACKBOX	PROVIDE TWO (2) NETWORK (BUILDING LAN) DATA DROPS WITHIN DISPLAY BACK BOX	
FP4-65	65" VIDEO DISPLAY IN PROTECTIVE SHROUD	WALL MOUNTED 48" AFF TO BOTTOM OF DISPLAY	SPECIALTY RECESSED AV BACKBOX	PROVIDE TWO (2) DUPLEX NEMA 5-20R MOUNTED WITHIN AV BACK-BOX. SEE DETAIL ON SHEET TA-501 FOR SPECIFIC LOCATION WITHIN BACKBOX	PROVIDE TWO (2) NETWORK (BUILDING LAN) DATA DROPS WITHIN DISPLAY BACK BOX	
FP5-65	65" VIDEO DISPLAY IN PROTECTIVE SHROUD	WALL MOUNTED 48" AFF TO BOTTOM OF DISPLAY	SPECIALTY RECESSED AV BACKBOX	PROVIDE TWO (2) DUPLEX NEMA 5-20R MOUNTED WITHIN AV BACK-BOX. SEE DETAIL ON SHEET TA-501 FOR SPECIFIC LOCATION WITHIN BACKBOX	PROVIDE TWO (2) NETWORK (BUILDING LAN) DATA DROPS WITHIN DISPLAY BACK BOX	
FP6-65	65" VIDEO DISPLAY IN PROTECTIVE SHROUD	WALL MOUNTED 48" AFF TO BOTTOM OF DISPLAY	NO AV BACKBOX	ONE (1) DUPLEX NEMA 5-20R MOUNTED BEHIND DISPLAY	PROVIDE TWO (2) NETWORK (BUILDING LAN) DATA DROPS WITHIN DISPLAY BACK BOX	
S1	CEILING SPEAKERS	CEILING RECESSED	N/A	N/A	N/A	
VC1	VTC SOUNDBAR	WALL MOUNTED UNDER DISPLAY	N/A	N/A	N/A	
VC2	VTC SOUNDBAR	MOUNTED ON TOP OF DISPLAY SHROUD	N/A	N/A	N/A	

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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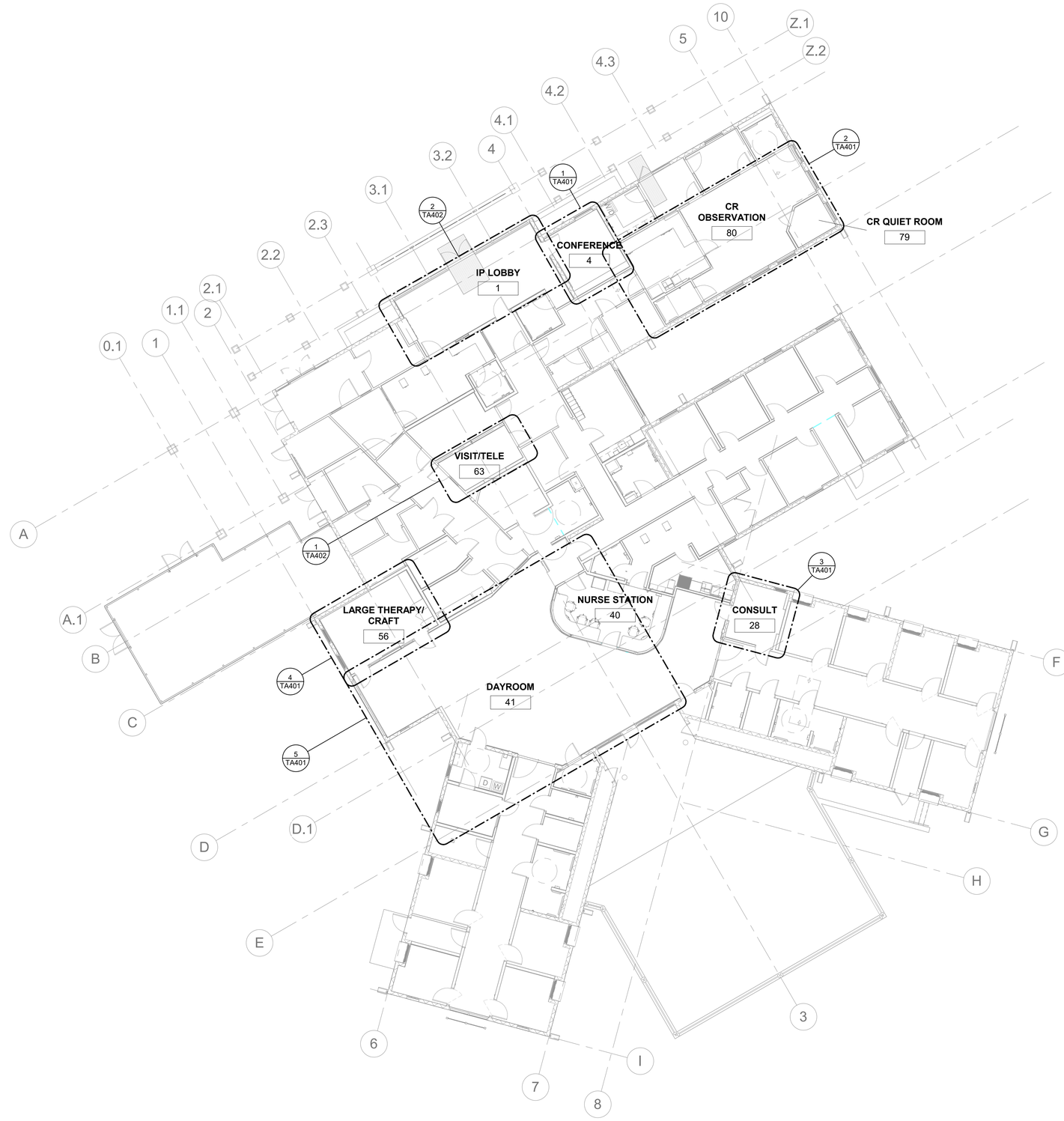
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AV SYSTEMS NOTES AND SYMBOLS

SCALE: 12" = 1'-0"

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LCD, ZMC	ZCB
PROJECT NO.	SHEET NO.
221093-01	**TA002**
SHEET ISSUE DATE	
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1 LEVEL 1 AV PLAN

3/32" = 1'-0"

10" 5" 0' 10" 21"

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TMK#: 4-6-014:113

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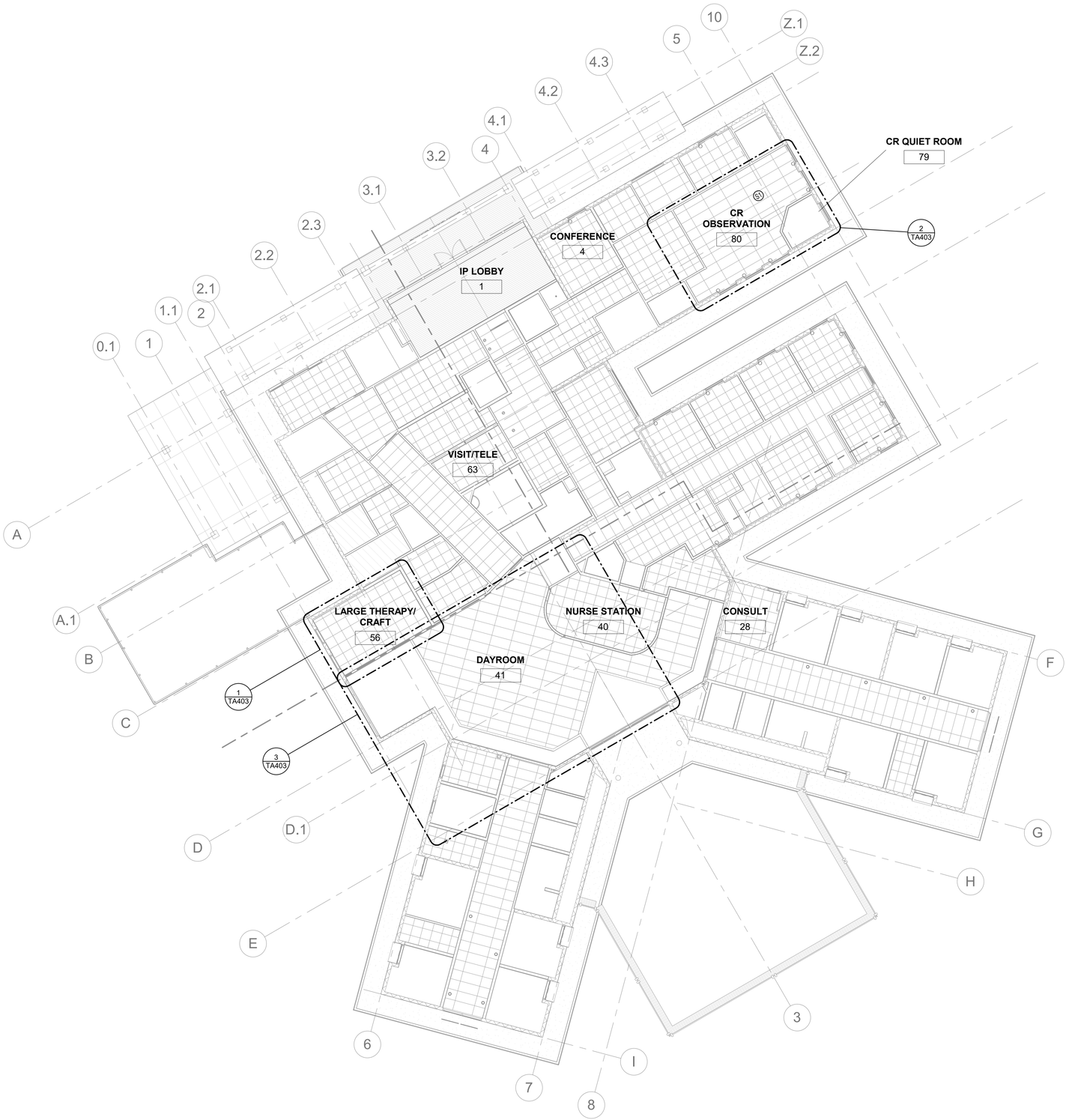
SHEET NAME
AV SYSTEMS OVERALL FLOOR PLAN

SCALE: 3/32" = 1'-0"

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PROJECT NO.	SHEET NO.
221093-01	**TA101**
SHEET ISSUE DATE	
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1 LEVEL 1 AV RCP

3/32" = 1'-0"

10" 5" 0' 10" 21"

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TMK#: 4-6-014:113

FILENAME
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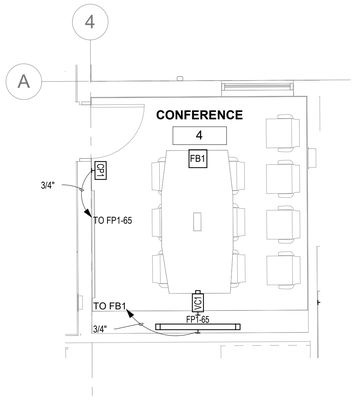
SHEET NAME
AV SYSTEMS OVERALL RCP

SCALE: 3/32" = 1'-0"

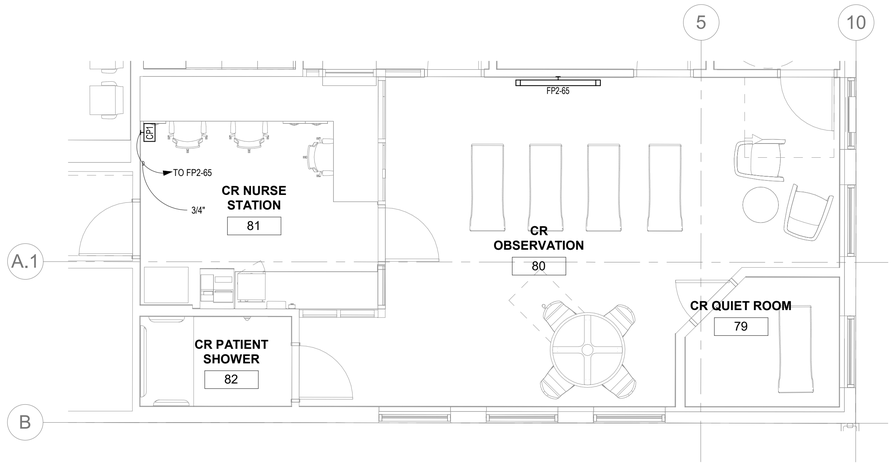
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SHEET ISSUE DATE	
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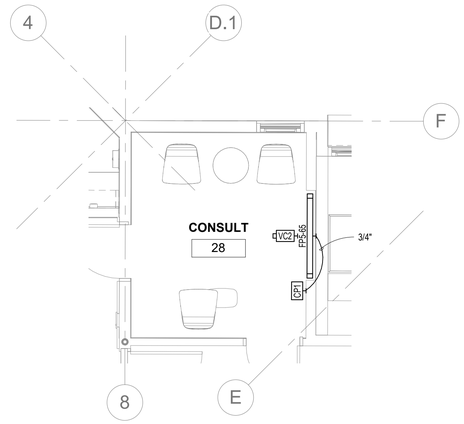
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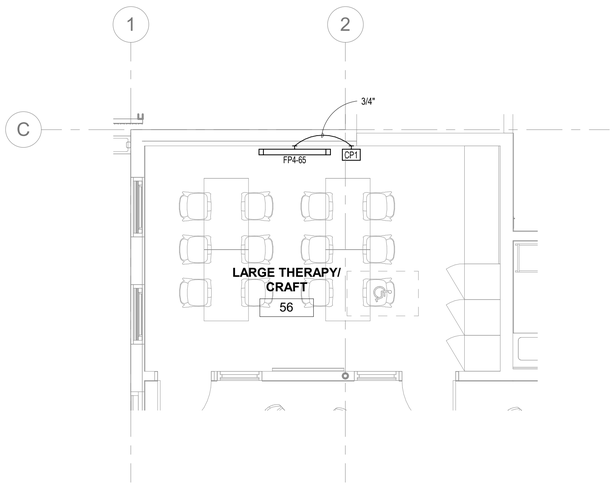
1 CONFERENCE AV PLAN
1/4" = 1'-0"



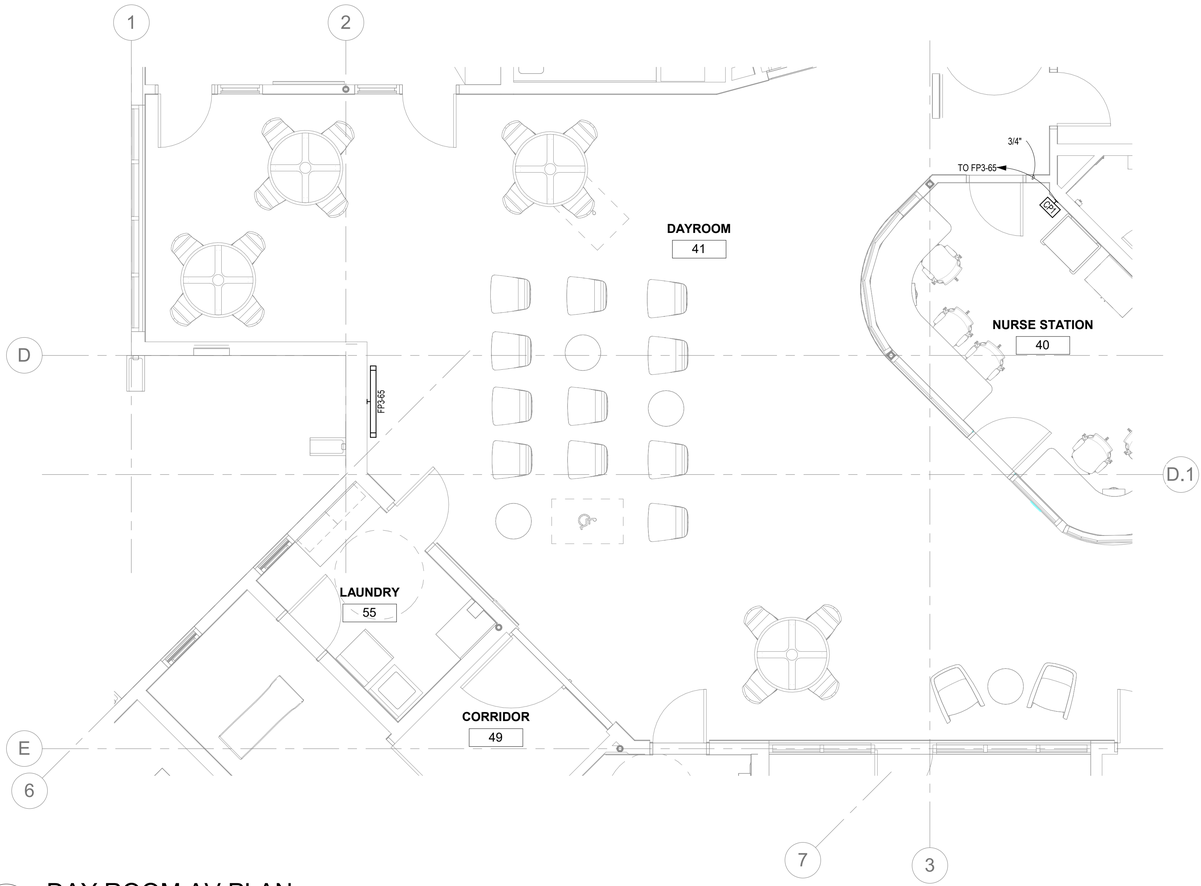
2 CR AV PLAN
1/4" = 1'-0"



3 CONSULT AV PLAN
1/4" = 1'-0"



4 LARGE THERAPY/CRAFT AV PLAN
1/4" = 1'-0"



5 DAY ROOM AV PLAN
1/4" = 1'-0"

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SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

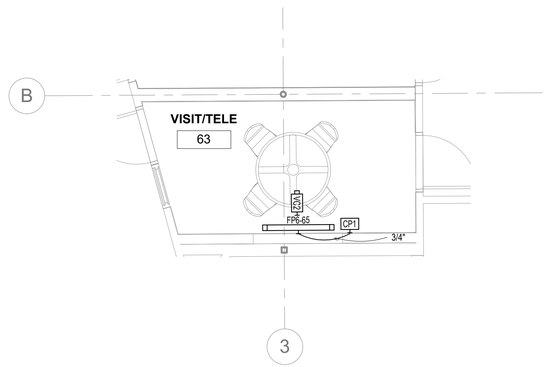
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SHEET NAME
AV SYSTEMS ENLARGED FLOOR PLAN

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

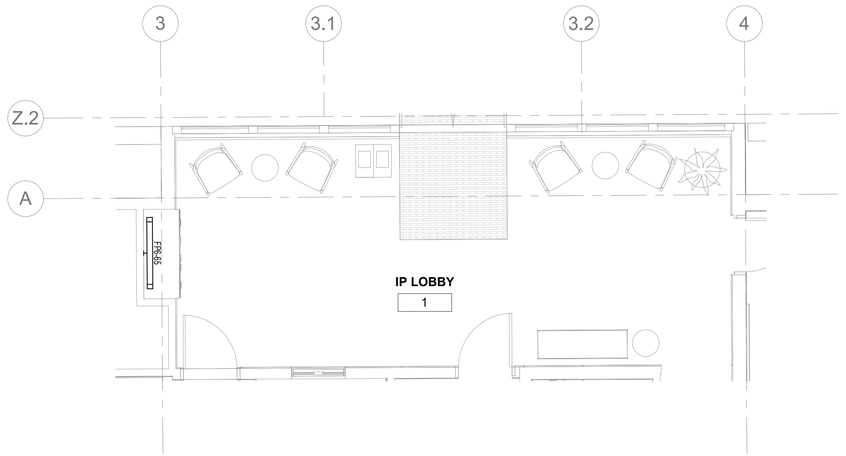
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SHEET ISSUE DATE 02/27/2026	

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1 VISIT/TELE AV PLAN

1/4" = 1'-0"



2 IP LOBBY AV PLAN

1/4" = 1'-0"

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TMK#: 4-6-014:113

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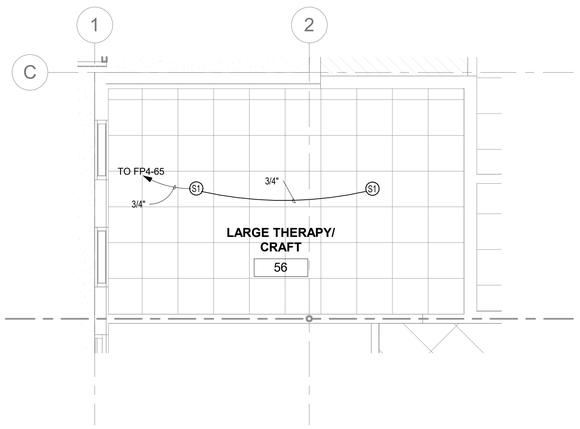
SHEET NAME
AV SYSTEMS ENLARGED FLOOR PLAN

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

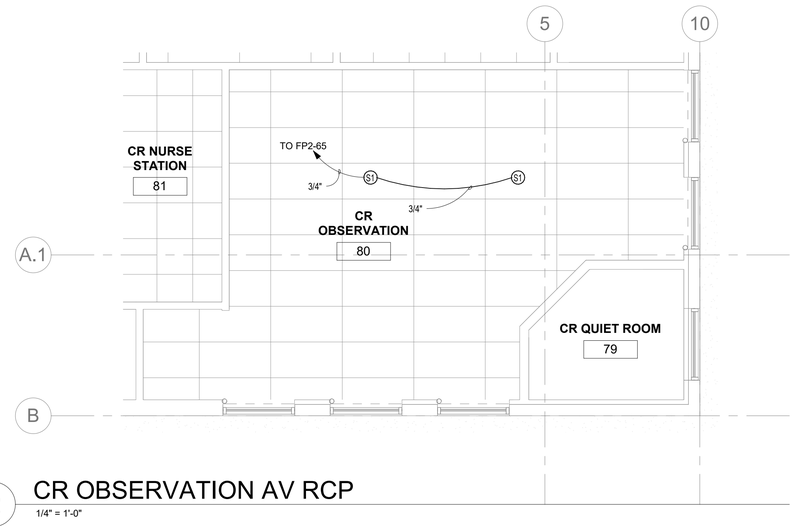
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SHEET ISSUE DATE 02/27/2026	

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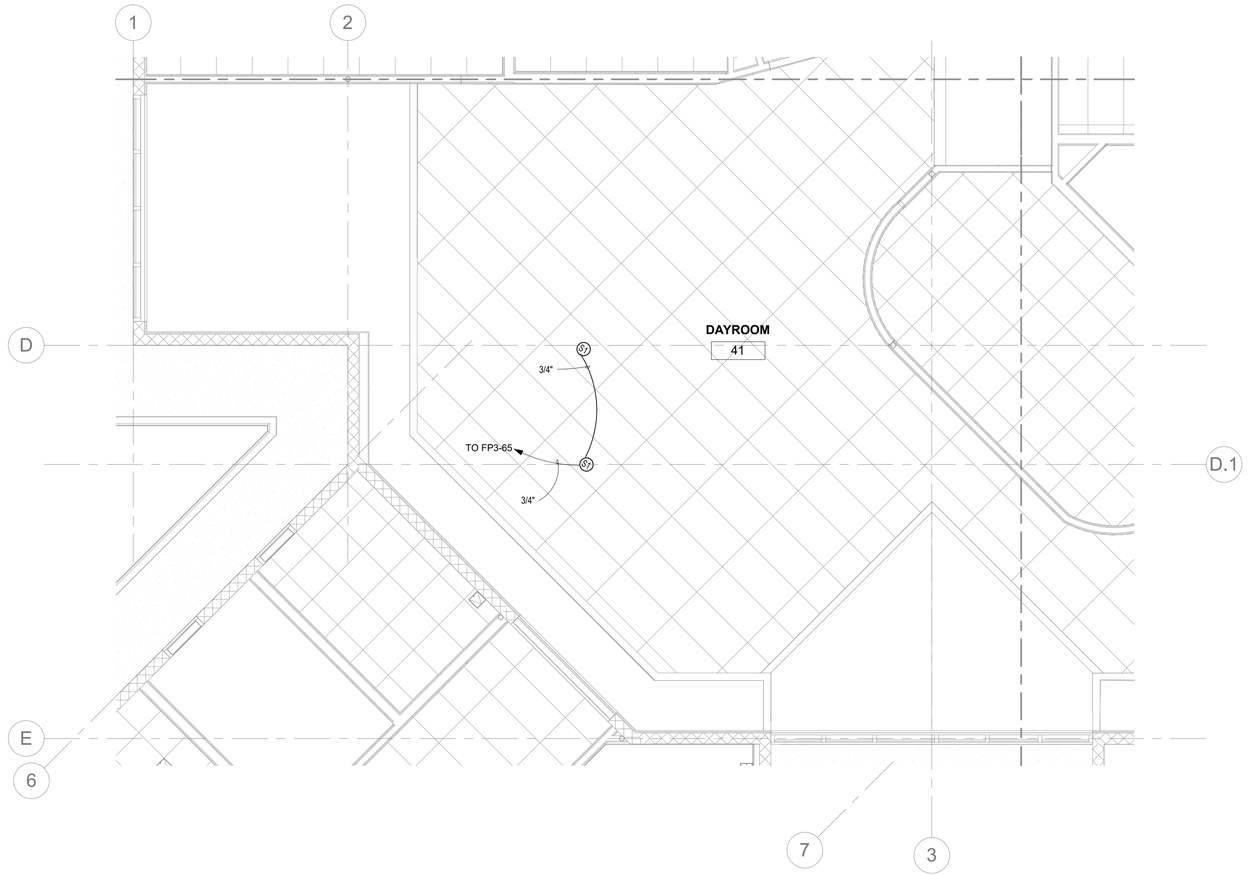
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1 LARGE THERAPY/CRAFT AV RCP
1/4" = 1'-0"



2 CR OBSERVATION AV RCP
1/4" = 1'-0"



3 DAY ROOM AV RCP
1/4" = 1'-0"

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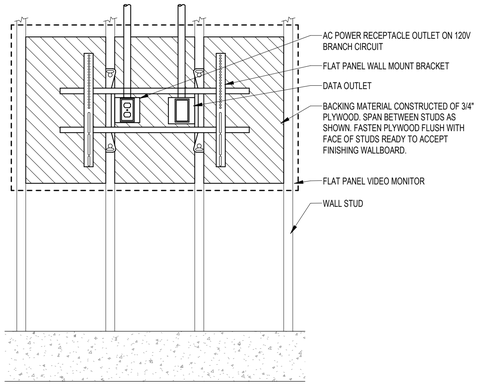
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SHEET NAME
AV SYSTEMS ENLARGED RCP

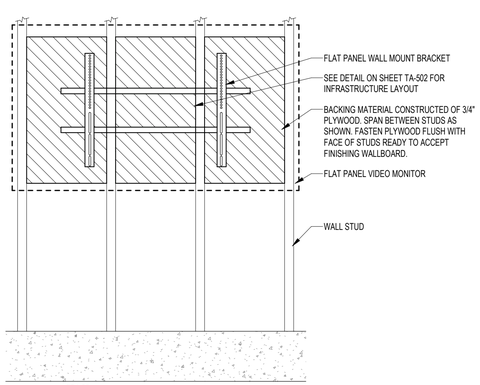
SCALE: 1/4" = 1'-0"

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PROJECT NO. 221093-01	SHEET NO. **TA403**
SHEET ISSUE DATE 02/27/2026	

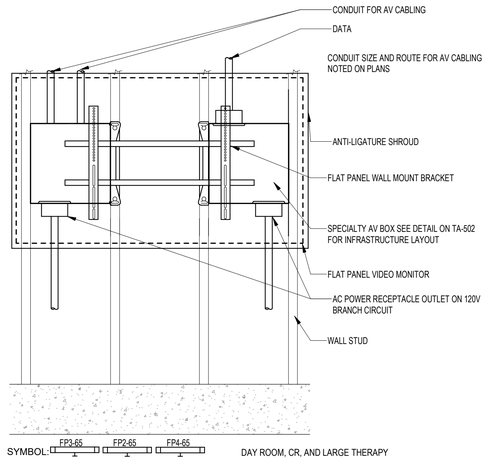
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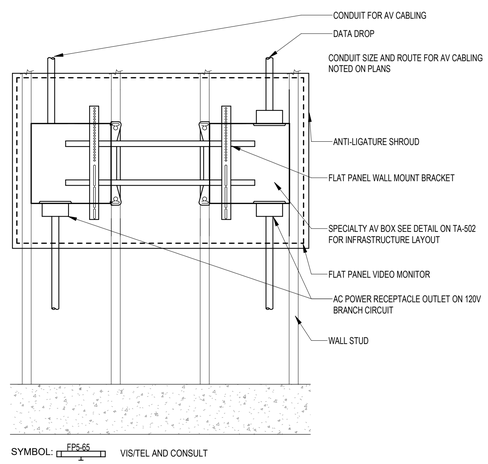
1 FLAT PANEL VIDEO MONITOR - WALL MOUNT
NTS



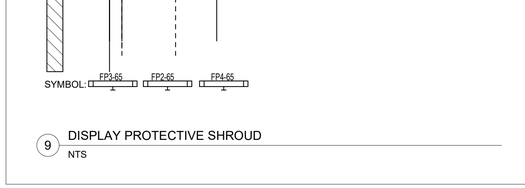
2 FLAT PANEL VIDEO MONITOR - WALL MOUNT W/ SURFACE BACKBOX
NTS



3 FLAT PANEL VIDEO MONITOR - WALL MOUNT W/ BACKBOX AND SHROUD
NTS



4 FLAT PANEL VIDEO MONITOR - WALL MOUNT W/ BACKBOX, SHROUD, AND VTC
NTS

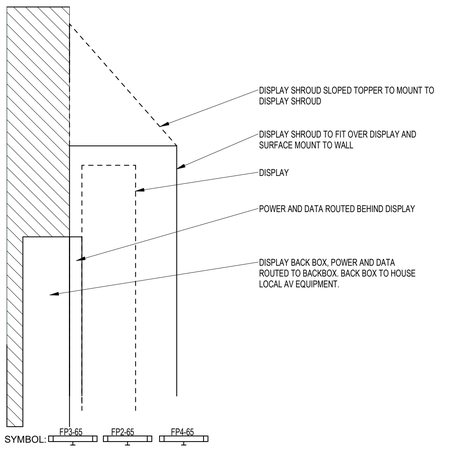


5 CEILING RECESSED LOUDSPEAKER - ACCESSIBLE SUSPENDED CEILING W/ FLEX CONDUIT
NTS

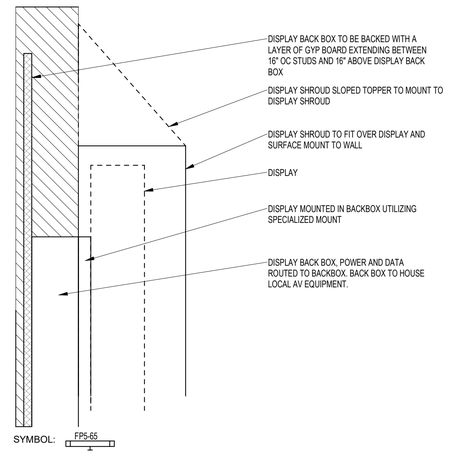
6 WALL-MOUNTED CONTROL TOUCHPANEL
NTS

7 WALL-MOUNTED VIDEO CAMERA BAR
NTS

8 DISPLAY-MOUNTED VIDEO CAMERA BAR
NTS



9 DISPLAY PROTECTIVE SHROUD
NTS



10 DISPLAY BACK BOX IN ACOUSTIC WALL
NTS

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SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

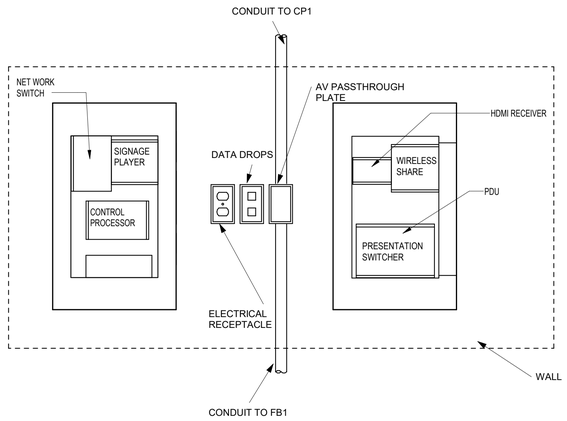
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SHEET NAME
AV SYSTEM DETAILS

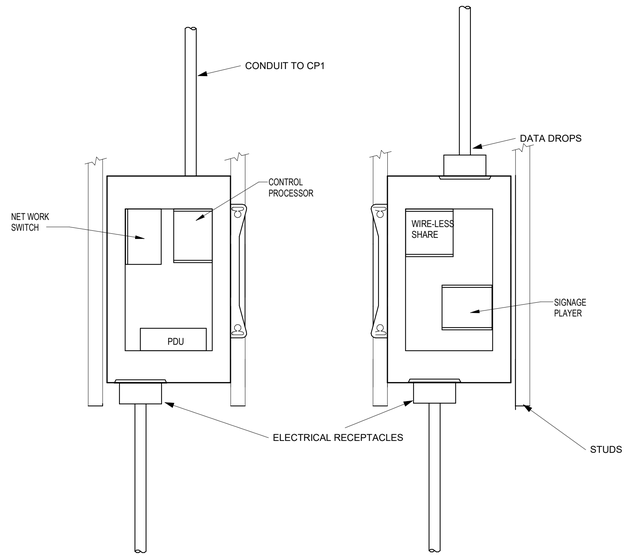
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PROJECT NO.	SHEET NO.
221093-01	TA501
SHEET ISSUE DATE	
02/27/2026	

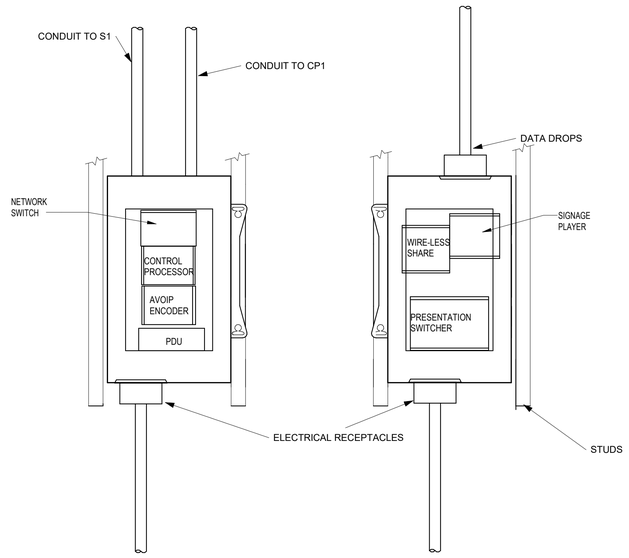
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1 CONFERENCE ROOM EQUIPMENT ELEVATIONS
1 1/2" = 1'-0"



2 CONSULT AND VISIT/TELE EQUIPMENT ELEVATIONS
1 1/2" = 1'-0"



3 DAY ROOM, CR OBSERVATION, LARGE THERAPY EQUIPMENT ELEVATION
1 1/2" = 1'-0"

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CENSEO design
808.726.2999
CENSEO
AV+Acoustics

REVISIONS

#	Date	Description

CD / BID SET

02/27/2026

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
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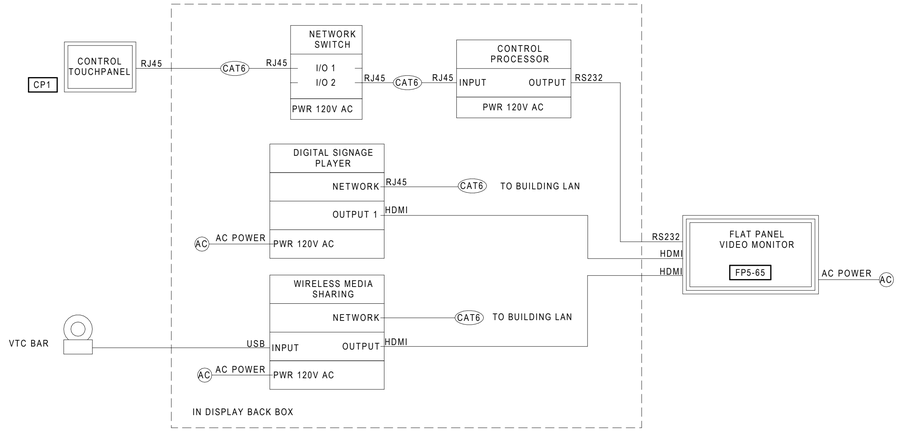
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AV SYSTEM DETAILS

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

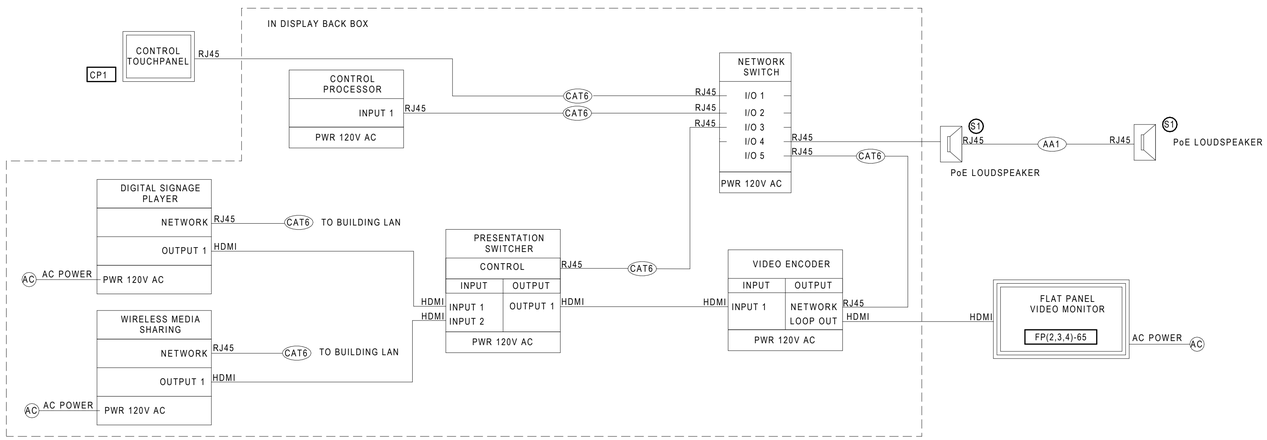
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PROJECT NO.	SHEET NO.
221093-01	**TA502**
SHEET ISSUE DATE	
02/27/2026	

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1 CONSULT AND VIS/TEL AV SYSTEMS ONE-LINE DIAGRAM
NO SCALE



2 DAY ROOM / LARGE THERAPY / CR OBSERVATION AV SYSTEMS ONE-LINE DIAGRAM
NO SCALE

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PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

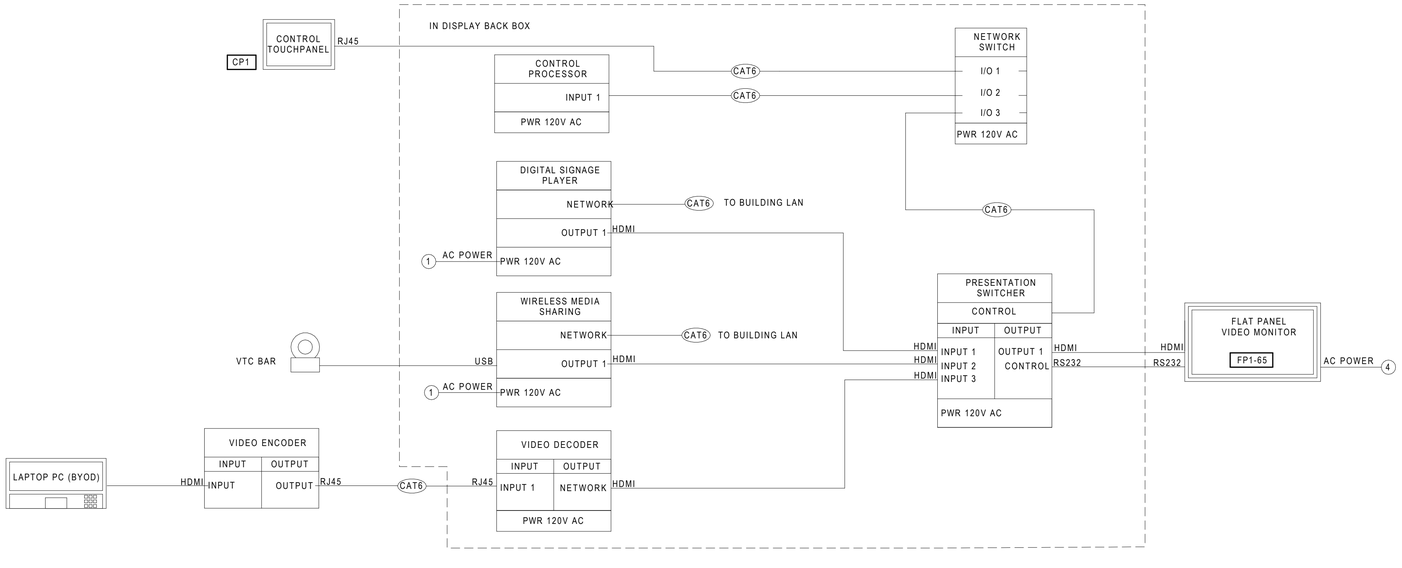
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SHEET NAME
AV SYSTEM ONE LINE DIAGRAMS

SCALE: NO SCALE

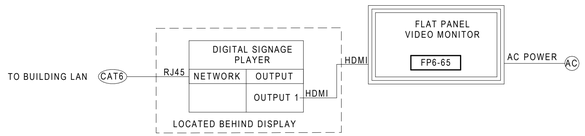
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PROJECT NO.	SHEET NO.
221093-01	TA701
SHEET ISSUE DATE	
02/27/2026	

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3 CONFERENCE ROOM AV SYSTEMS ONE-LINE DIAGRAM

NO SCALE



4 LOBY AV SYSTEMS ONE-LINE DIAGRAM

NO SCALE

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License Expiration Date

PROJECT TITLE

SAMUEL MAHELONA MEMORIAL HOSPITAL BEHAVIORAL HEALTH NEW PATIENT FACILITY

TMK#: 4-6-014:113

FILENAME
Autodesk Docs://SMMH Behavioral Health/21117-SMMH-AV-R24.rvt

SHEET NAME
AV SYSTEM ONE LINE DIAGRAMS

SCALE: NO SCALE

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PROJECT NO.	SHEET NO.
221093-01	**TA702**
SHEET ISSUE DATE	
02/27/2026	

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