Freestanding Medical Office Building Buildout for:

Sullivan County Community Hospital

2200 N Section St, Sullivan, IN 47882

JJCA

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JJCA Project 23987.02
February 28, 2024

Architect of Record: Stephanie Pielich
IN License #: AR12300165

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CONSTRUCTION DOCUMENTS- TENANT BUILD-OUT

CONSTRUCTION DOCUMENTS - TENANT BUILD-OUT

OWNER/HOSPITAL

Sullivan County Community Hospital
2200 N. Section Street, Box 10
Sullivan, IN 47882-0010
Office 812-268-4311
Contact: Ron Shake

INTERIORS

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Fax 615-773-2180
Contact: Heather Fullington

MECHANICAL ENGINEER

Smith Seckman Reid, Inc.
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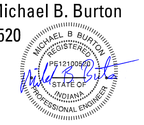
Office 615-330-6596
Contact: George Johnson
Engineer Of Record: Michael B. Burton
IN License #: PE12100520



02.28.24

ELECTRICAL ENGINEER

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Office 615-330-6596
Contact: George Johnson
Engineer of Record: Herbert M. Jenkins
IN License #: PE10001079

02.26.24

LIFE SAFETY/CODES CONSULTANT

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Nashville, TN 37215
Office 615-292-8880
Contact: Bill Steffenhagen

ARCHITECTURAL FIRE SAFETY CODE ANALYSIS

SULLIVAN COUNTY
Sullivan, Indiana

Architectural Fire Safety Code Analysis

Fire Safety Concept:
Design a new medical office building of wood frame construction with no hourly rating for the structure. The allowable area is 9,000 sf (IBC Table 503) + 27,000 sf (IBC 506.3 – sprinkler increase) = 36,000 sf.

The waiting areas are considered part of the Group B occupancy per IBC 303.1.2 for small assembly spaces.

Outside exits are provided at four locations.

I. Applicable Codes:
*State Department of Homeland Security and City –
A. 2014 Indiana Building Code (2012 IBC with State amendments)
B. 2014 Indiana Mechanical Code (2012 IMC with State amendments)
C. 2012 Indiana Plumbing Code (2006 IPC with State amendments)
D. 2009 Indiana Electrical Code (2008 National Electrical Code with State amendments)
E. 2014 Indiana Fuel Gas Code (2012 International Fuel Gas Code with State amendments)
F. 2014 Indiana Fire Code (2012 International Fire Code with State amendments)
G. 2010 Indiana Energy Conservation Code (ASHRAE 90.1, 2007 edition with State amendments)
H. 2009 ANSI A117.1 Accessibility and Usable Building Facilities (with State amendments)

*Indiana State Department of Health (ISDH)
A. Indiana Health Care Facility Licensing Rules for Hospitals – 410 IAC 15–1.5 – October 2016
B. 2012 NFPA 101 Life Safety Code (LSC)
C. 2011 NFPA 70 National Electric Code
D. 2012 NFPA 90A Standard for the Installation of Air–Conditioning and Ventilation Systems
E. 2012 NFPA 99 Health Care Facilities Code
F. 2018 Guidelines for Construction and Equipment of Hospital and Medical Facilities

II. Occupancy Types:
A. Group B, Business (IBC 304)
B. Business (LSC Ch. 38)

III. Construction Types:
A. Type V–B (IBC 602.5)
B. Type V (000) NFPA 220

IV. Structural Fire Ratings:
None required.

V. Fire Suppression System:
Complete automatic sprinkler protection provided for entire building.

VI. Height and Area:
One story; 26,351 sf total

VII. Other Life Safety Considerations (most stringent of applicable codes is indicated):
A. Occupant load (IBC 1004.1.2):
26,351 sf.
100 sf./occ. = 263 occupants

B. Exit capacity (IBC 1005.3.2):
Outside Doors
4 (34") + 1 (67") = 203"
203"
0.2"/occ. = 1,015 occupants

C. Corridor width (IBC Table 1018.2):
36" minimum with a required occupancy capacity of less than 50; 44" minimum elsewhere

D. Dead end (IBC 1018.4, Ex. 2):
50' maximum; no requirement when only one exit is permitted.

E. Travel distance (IBC Table 1016.2):
Any point to an exit – 300' maximum

F. Door width (IBC 1008.1.1):
32" clear width minimum

G. Corridor construction (IBC 1018.1):
Non–hourly–rated in fully sprinklered building

H. Corridor doors (IBC 1018.1):
No requirements with a non–hourly–rated corridor

I. Incidental use or hazardous area separation (IBC Table 509):
Waste and linen collection more than 100 sq. ft. in area – Smoke–resistive

J. Interior finish (IBC Table 803.9):
Corridors – Class C maximum flame spread
Rooms – Class C maximum flame spread

K. Floor covering (IBC 804.4.2):
Enclosed exits & exit access – no minimum critical radiant flux criteria in fully sprinklered building

L. Accessible egress (IBC 1007.1):
Accessible outside exits in at least two remote locations provide accessible egress as required.

K. Floor finish (IBC 804.4.2):
Exits, corridors and means of egress – 0.22 watts/sq. cm. minimum as per NFPA 253 (radiant panel)

J. Accessible means of egress (IBC 1009.1 & LSC 7.5.4):
Accessible outside doors and horizontal exits can serve as accessible means of egress.
LSC 7.5.4.1.3 excepts fully sprinklered health care occupancies from accessible means of egress provisions.

286J/9782
8–15–22

ALTERNATIVES

A1 – PROVIDE CANOPY FOR MAT SPACE
E1 – LIGHTING INVERTER FOR EMERGENCY POWER
A2 – PROVIDE ALUMINUM CLAD WOOF WINDOWS IN LIEU OF ALUMINUM STOREFRONT

SEISMIC ANALYSIS FOR ARCHITECTURAL, MECHANICAL, PLUMBING, & ELECTRICAL COMPONENTS

REFER TO THE SPECIFICATIONS FOR APPLICATION OF THESE NOTES TO SPECIFIC BUILDING COMPONENTS

ARCHITECTURAL, MECHANICAL, & ELECTRICAL COMPONENTS AND SYSTEMS SEISMIC REQUIREMENTS
(BASED ON 2018 INTERNATIONAL BUILDING CODE WITH INDIANA AMENDMENTS SECTIONS 1613–1621)

Seismic Risk Category:	II
Seismic Importance Ie:	1.0
.2 SEC Spectral Response Acceleration Ss:	0.358
1.0 SEC Spectral Response Acceleration S1:	0.133
Site Class:	D (Assumed)
Design Spectral Response SDS:	0.361 (Assumed)
Design Spectral Response SD1:	0.207 (Assumed)
Seismic Design Category:	D (assumed)
Resisting System:	Light–Framed Wood Walls Sheathed With Wood Structural Panels Rated for Shear Resistance
Response Modification Factor R:	6.5
Seismic Response Coefficient Cs:	0.016
Analysis Procedure:	Equivalent Lateral Force
Base Shear:	

	ARCHITECTURAL COMPONENTS	
COMPONENT	Coefficient (Ap)	Coefficient (Rp)
Exterior–nonbearing walls	1.0	2.5
Interior–nonbearing wall, including vertical shaft enclosures	1.0	2.5
Exterior & Interior ornamentations & appendages	2.5	2.5
Permanent floor supported cabinets and books stacks	1.0	2.5
Suspended ceilings	1.0	2.5
Access floor systems	1.0	2.5
Partitions	1.0	2.5
Light Fixtures	1.0	1.25

	MECHANICAL, PLUMBING, & ELECTRICAL COMPONENTS	
COMPONENT	Coefficient (Ap)	Coefficient (Rp)
Tanks & Vessels including support systems.	1.0	2.5
Electrical, Mechanical, and plumbing equipment and associated conduit and ductwork and piping.	1.0	2.5
Electrical Distribution Systems	1.0	2.5
Electrical Equipment	1.0	2.5
Elevator Equipment	1.0	2.5

ADDITIONAL REQUIREMENTS:

1. SEISMIC RESTRAINTS MAY BE OMITTED FROM PIPING AND DUCT SUPPORTS IF ALL THE FOLLOWING CONDITIONS ARE SATISFIED:
   A. LATERAL MOTION OF THE PIPING OR DUCT WILL NOT CAUSE DAMAGING IMPACT WITH OTHER SYSTEMS.
   B. THE PIPING OR DUCT IS MADE OF DUCTILE MATERIAL WITH DUCTILE CONNECTIONS.
   C. LATERAL MOTION OF THE PIPING OR DUCT DOES NOT CAUSE IMPACT OF FRAGILE APPURTENANCES (E.G. SPRINKLER HEADS) WITH ANY OTHER EQUIPMENT, PIPING OR STRUCTURAL MEMBER.
   D. LATERAL MOTION OF THE PIPING OR DUCT DOES NOT CAUSE LOSS OF SYSTEM VERTICAL SUPPORT.
   E. ROD–HUNG SUPPORTS OF LESS THAN 12 INCHES IN LENGTH HAVE TOP CONNECTIONS THAT CANNOT DEVELOP MOMENTS.
   F. SUPPORT MEMBERS CANTILEVERED UP FROM THE FLOOR ARE CHECKED FOR STABILITY.
2. SEISMIC RESTRAINTS MAY BE OMITTED FROM ELECTRICAL RACEWAYS, SUCH AS CABLE TRAYS, CONDUIT AND BUS DUCTS, IF ALL THE FOLLOWING CONDITIONS ARE SATISFIED:
   A. LATERAL MOTION OF THE RACEWAY WILL NOT CAUSE DAMAGING IMPACT WITH OTHER SYSTEMS.
   B. LATERAL MOTION OF THE RACEWAY DOES NOT CAUSE LOSS OF SYSTEM VERTICAL SUPPORT.
   C. ROD–HUNG SUPPORTS OF LESS THAN 12 INCHES IN LENGTH HAVE TOP CONNECTIONS THAT CANNOT DEVELOP MOMENTS.
   D. SUPPORT MEMBERS CANTILEVERED UP FROM THE FLOOR ARE CHECKED FOR STABILITY.
3. PIPING, DUCTS AND ELECTRICAL RACEWAYS, WHICH MUST BE FUNCTIONAL FOLLOWING AN EARTHQUAKE, SPANNING BETWEEN DIFFERENT BUILDINGS OR STRUCTURAL SYSTEMS SHALL SUFFICIENTLY FLEXIBLE TO WITHSTAND RELATIVE MOTION OF SUPPORT POINTS ASSUMING OUT–OF–PHASE MOTIONS.
4. MOVEMENT OF COMPONENTS WITHIN ELECTRICAL CABINETS, RACK AND SKID–MOUNTED EQUIPMENT AND PORTIONS OF SKID–MOUNTED ELECTROMECHANICAL EQUIPMENT THAT MAY CAUSE DAMAGE TO OTHER COMPONENTS BY DISPLACING, SHALL BE RESTRICTED BY ATTACHMENT TO ANCHORED EQUIPMENT OR SUPPORT FRAMES.

INDEX OF DRAWINGS

TYPICAL LIST OF ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE	FVC	FIRE VALVE CONNECTION	O.C.	ON CENTER
ALUM.	ALUMINUM	EXIST.	EXISTING	PC	PERSONAL COMPUTER
BLKG.	BLOCKING	EJ	EXPANSION JOINT	RD	ROOF DRAIN
B.O.	BOTTOM OF	FEC	FIRE EXTINGUISHER CABINET	RWL	RAIN WATER LEADER
CLG.	CEILING	F.,C.	FACE OF CONCRETE	SQ. FT.	SQUARE FOOT
CMU	CONCRETE MASONRY UNIT	F.V.	FIELD VERIFY	STL.	STEEL
CONC.	CONCRETE	F.O.S.	FACE OF STUD	STRUCT.	STRUCTURAL
CONT.	CONTINUOUS	GYP. BD.	GYPSUM BOARD	T	TEMPERED
CT	CURTAIN TRACK	INSUL.	INSULATION	T.O.S.	TOP OF STEEL
DIA.	DIAMETER	MAX.	MAXIMUM	TYP.	TYPICAL
ELEC.	ELECTRICAL	MECH.	MECHANICAL	UNO	UNLESS NOTED OTHERWISE
EPDM	ELASTOMERIC MEMBRANE ROOFING	MIN.	MINIMUM	W/	WITH
		MTL.	METAL		

GENERAL NOTES

1. THE CONTRACTOR SHALL ASSEMBLE COMPONENTS WITH CAREFUL ATTENTION TO INSTALLATION OF FRAMING, SEALANTS, COMPONENTS, SUCH AS WINDOWS, DOOR FRAMES, LOUVERS, INSULATION SEALANTS, ETC. AS SHOWN ON THE DRAWINGS AND IS REQUIRED TO CREATE A COMPLETED PROJECT THAT IS IN COMPLIANCE WITH THE STATE DESIGN INTENT. FURTHERMORE, THE BUILDING SHALL BE IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND GOOD CONSTRUCTION PRACTICES FOR THIS LOCATION.
2. CONTRACTOR SHALL COORDINATE THE WORK OF THE VARIOUS SUBCONTRACTORS AND MATERIAL SUPPLIERS TO ASSURE THE DESIGN INTENT HAS BEEN ACHIEVED.
3. ALL WALLS SHALL BE BUILT INCORPORATING CONTROL JOINTS AND/OR EXPANSION JOINTS AS APPROPRIATE TO CONTROL MOVEMENT IN THE WALL DUE TO TEMPERATURE VARIANCE.
4. ANY PENETRATIONS OF A SURFACE SHALL BE APPROPRIATELY SEALED.
5. CONTRACTOR SHALL MAINTAIN WALL RATINGS AS SHOWN ON NEW WORK PLANS AND PROPERLY SEAL ALL PENETRATIONS AS REQUIRED FOR NEW WORK. REFERENCE WALL PRIORITY DIAGRAMS SHEET W1.1 FOR PROPER RATED WALL CONSTRUCTION.
6. ALL WALLS ARE TO EXTEND TO DECK AND ARE TO HAVE SOUND PROOFING, U.N.O.
7. EXISTING CEILINGS TO BE REWORKED AND/OR REPLACED AS NEEDED TO COMPLETE PROJECT RENOVATIONS.

TYPICAL LEGEND OF TAGS

(1111) DOOR TAG (4+ NUMBERS)
(1) INTERIOR WINDOW TAG (NUMBER)
(X) EXTERIOR WINDOW TAG (LETTER)
(X) PLAN KEY NOTE
(X) CASEWORK TAG
(100 OFFICE) ROOM TAG
(A/X) SECTION MARK
(1/X) DETAIL MARK
(1/X) ENLARGED ENPLAN MARK

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Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

STEPHANIE PIERCE REGISTERED
Stephanie Pierce
No. AR12300102
02.28.2024
STATE OF INDIANA
ARCHITECT

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(Individual revisions clouded and labeled within each sheet)

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23987.02
DATE
February 28, 2024

I–1.0
INDEX AND CODE ANALYSIS

CONSTRUCTION DRAWINGS

WALL TYPES

NON-RATED PARTITION

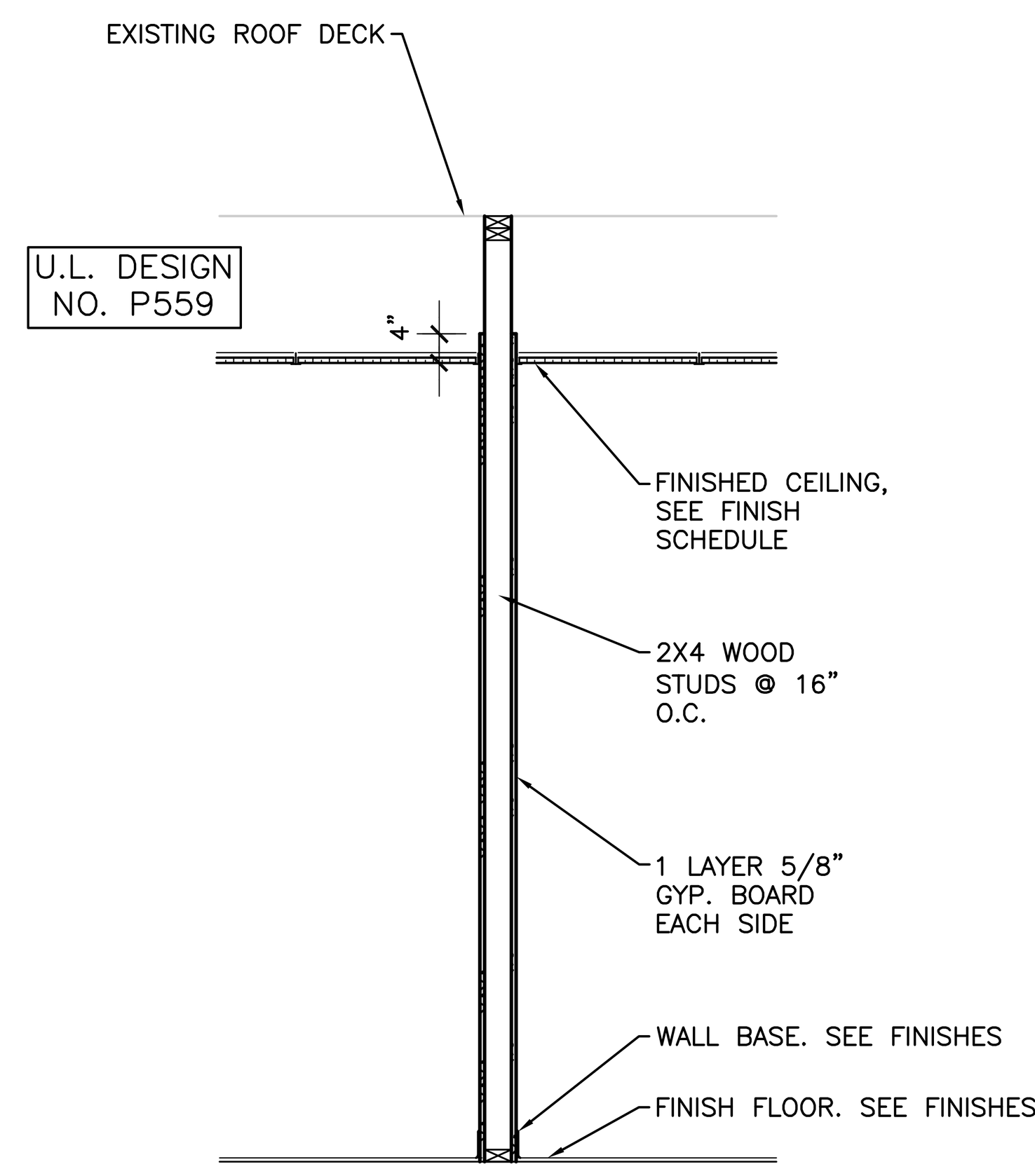
2X4 WOOD STUDS WITH ONE LAYER 5/8" GYP. BD. EACH SIDE

SOUND WALL (STC 44–49)

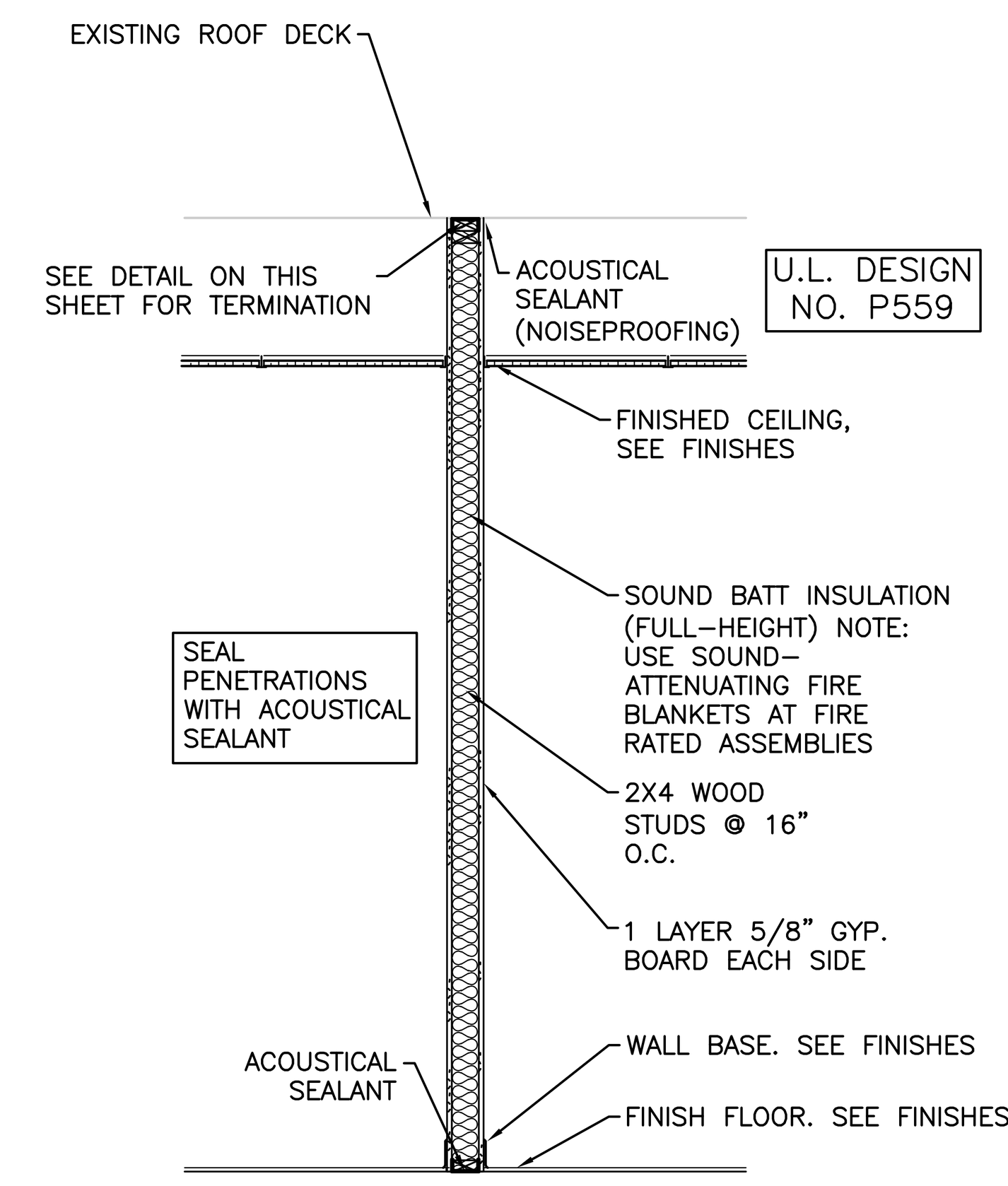
2X4 WOOD STUDS WITH ONE LAYER 5/8" GYP. BD. EACH SIDE

SOUND WALL (STC 50 MIN.)

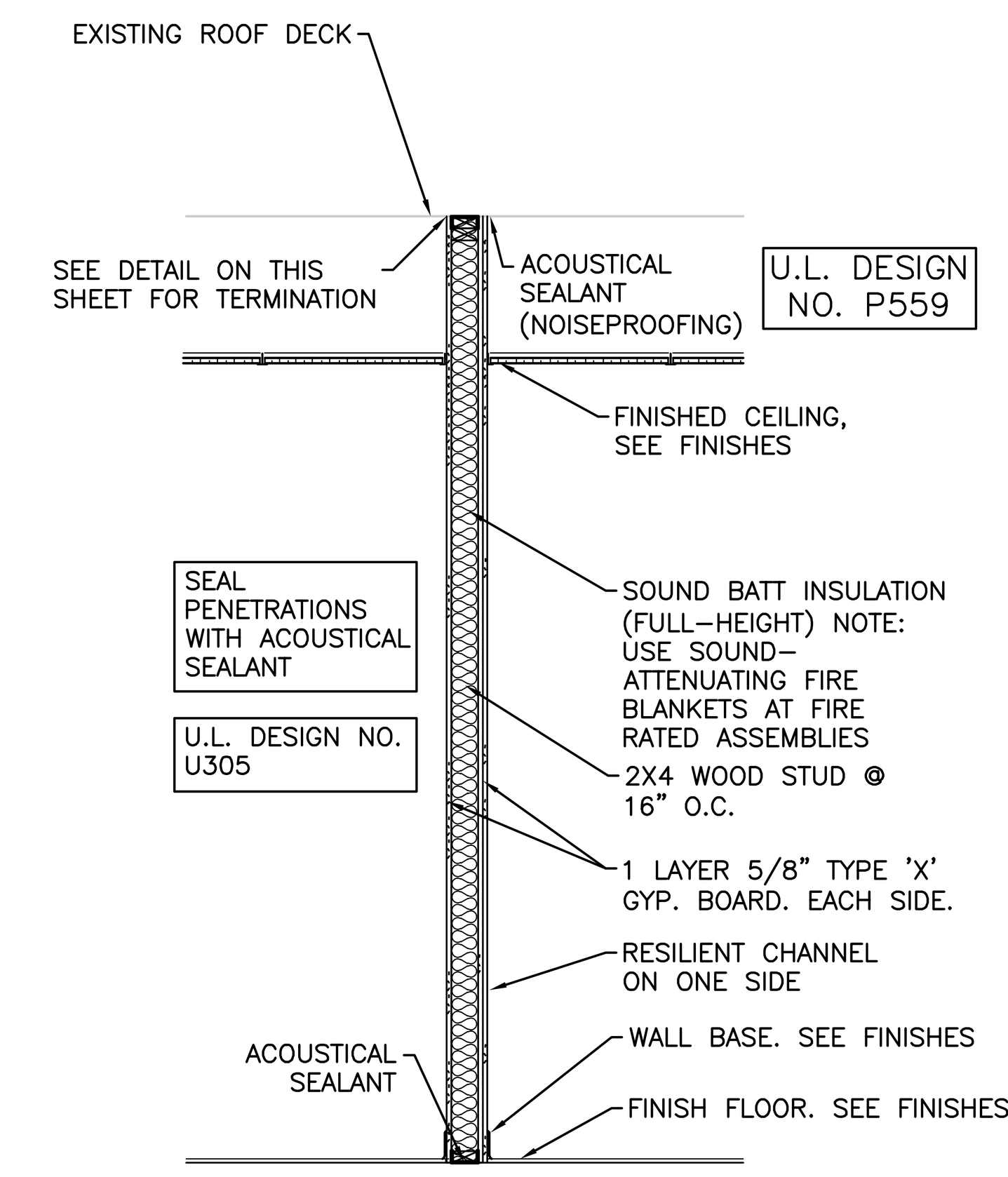
2"X4" WOOD STUDS WITH RESILIENT CHANNEL ON ONE SIDE AND ONE LAYER 5/8" TYPE 'X'. GYP. BOARD ON EACH SIDE



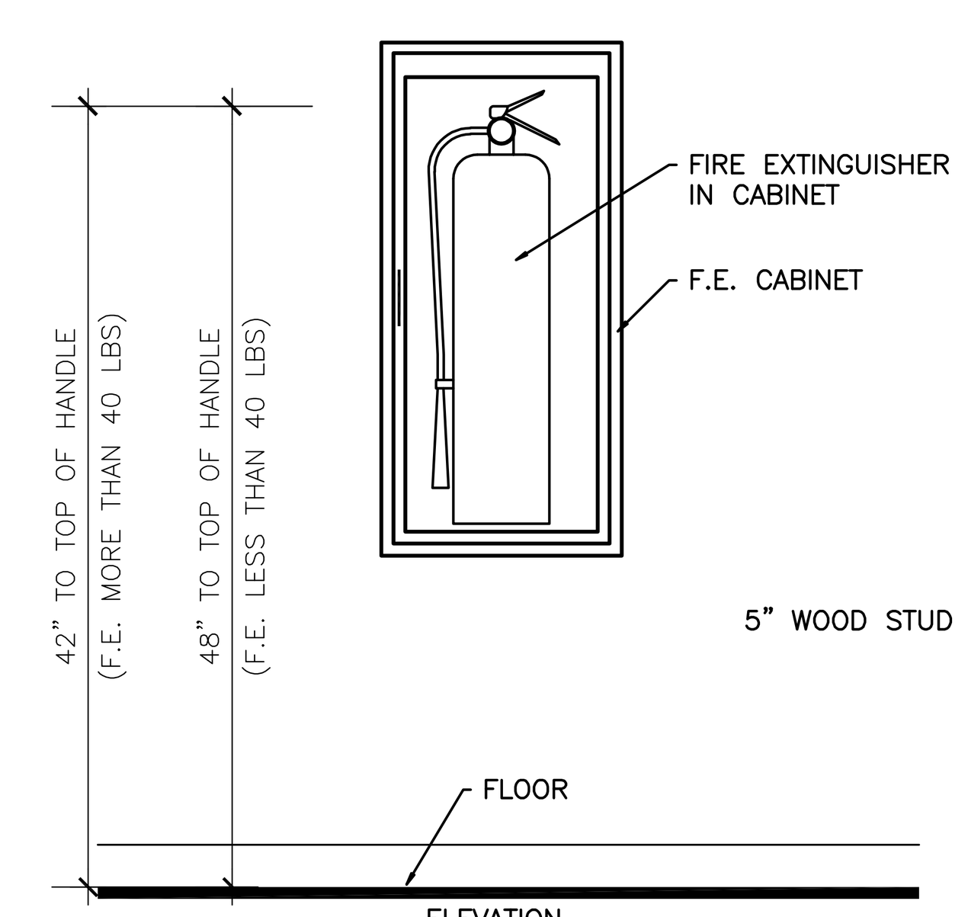
NON-RATED WOOD STUD PARTITION TO 4" ABOVE CEILING



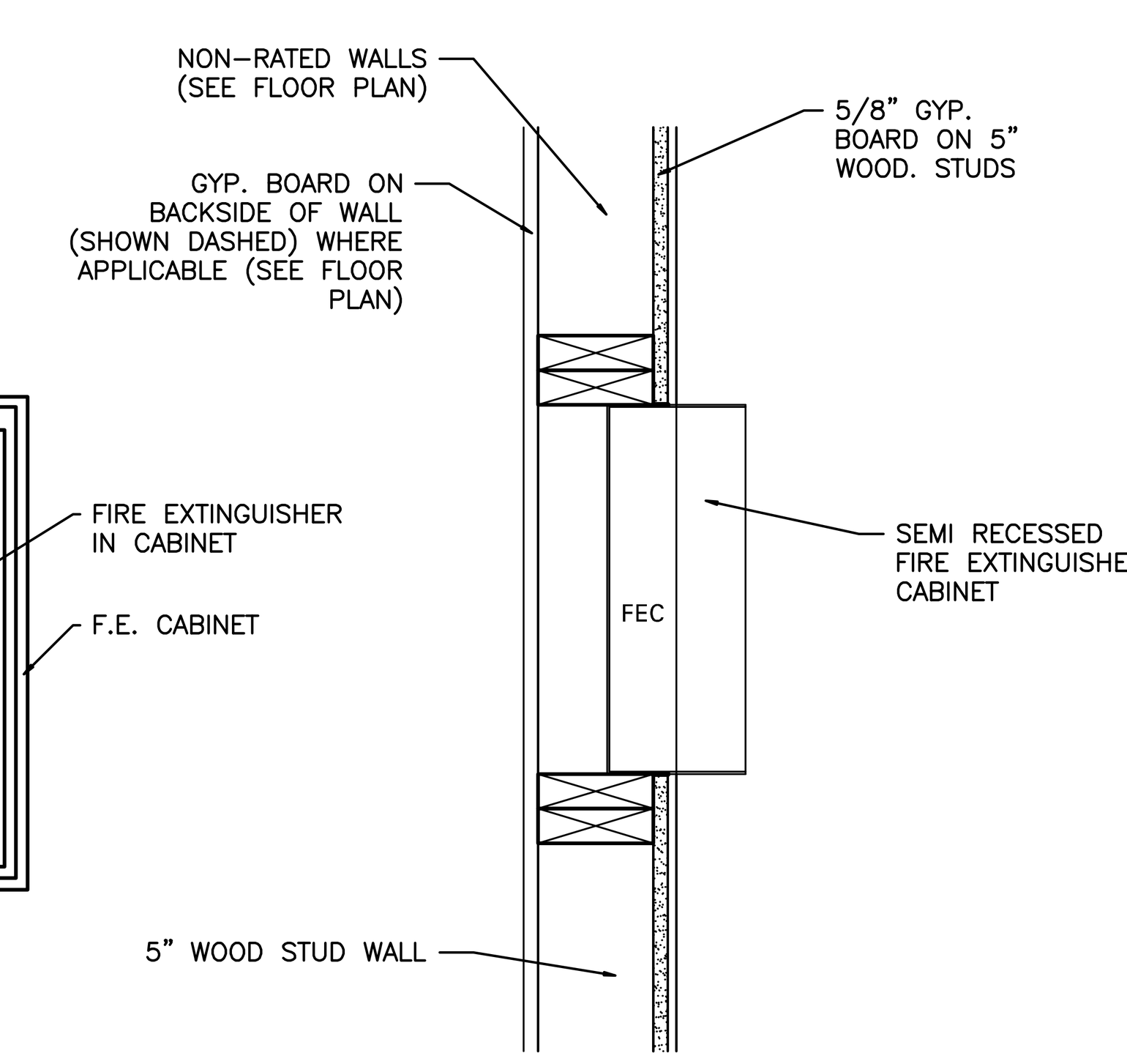
SOUND WALL WOOD STUD PARTITION TO UNDERSIDE OF WOOD TRUSS



ST-50 SOUND WALL WOOD STUD PARTITION TO UNDERSIDE OF WOOD TRUSS



ELEVATION
ADA MOUNTING HEIGHT FOR FIRE EXTINGUISHER CABINET



NON-RATED WALL PLAN

1 / W1.1 DETAIL - SEMI RECESSED F.E.C.

0 3" 6" 12"

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Freestanding Medical Office Building Buildout for:
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Sullivan, Indiana

STEPHANIE PILICH REGISTERED ARCHITECT No. AR12300185 STATE OF INDIANA 02.28.2024

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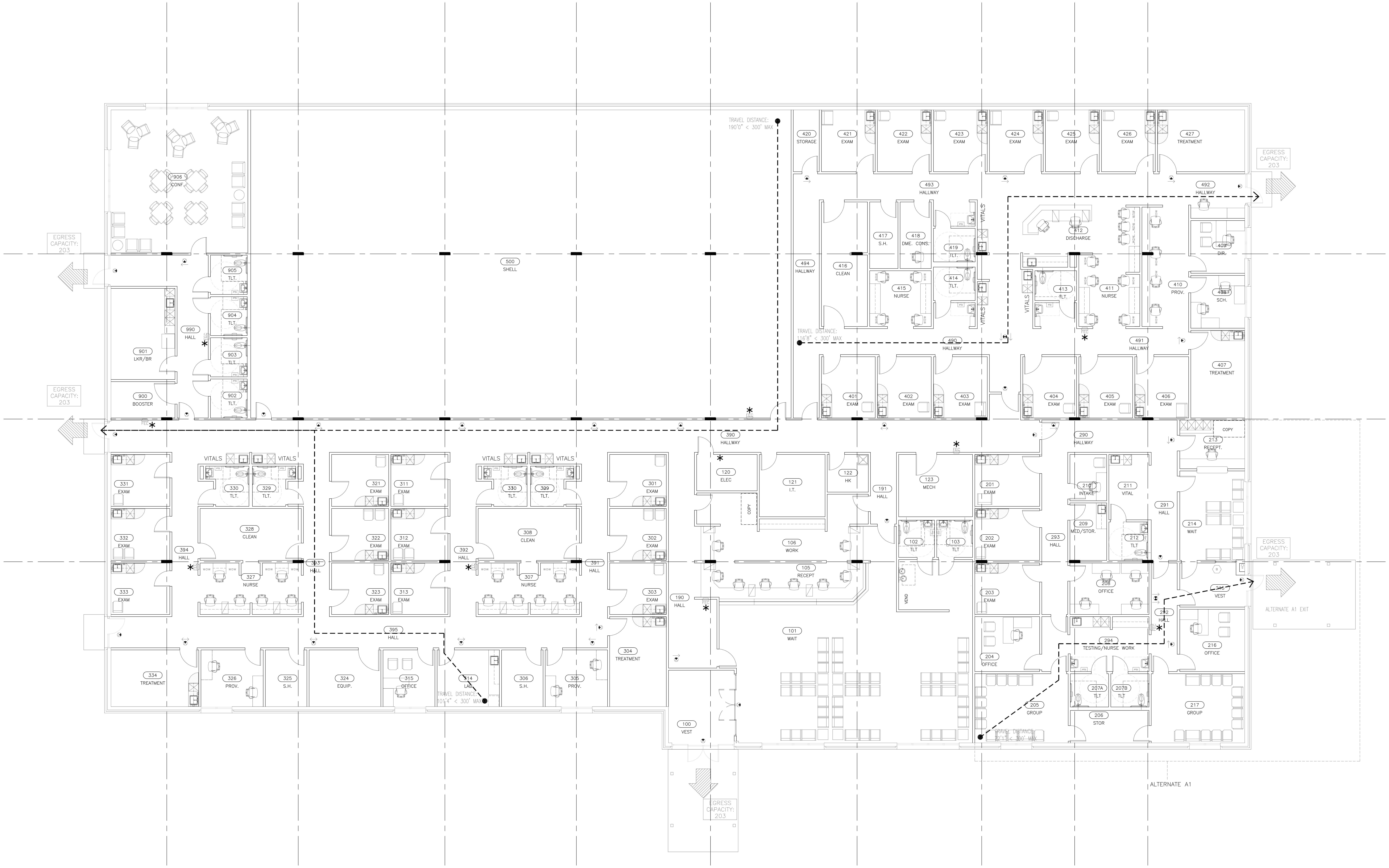
W1.1

WALL TYPE DETAILS AND NOTES

CONSTRUCTION DRAWINGS



LIFE SAFETY PLAN

PLAN NORTH

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A0.1
LIFE SAFETY PLAN

CONSTRUCTION DRAWINGS

WALL LEGEND - DIMENSIONED PLAN

SYMBOL	DESCRIPTION
	SOUND WALL
	SOUND WALL – STC 50

NOTES: – REFER TO SHEET W1.1 FOR ADDITIONAL INFORMATION.

[X] PLAN KEY NOTES:

1. PROVIDE 6", 8", OR 12" STUDS AS REQUIRED FOR PLUMBING, ELECTRICAL PANELS, OUTLETS, DEVICES, PIPES, FIRE EXTINGUISHER CABINETS, ETC. ITEMS REQUIRED AT RATED WALLS ARE TO BE FIVE-SIDED TO ENSURE WALL RATING IS MAINTAINED.
2. ALIGN WALLS AS SHOWN.

GENERAL PLAN NOTES:

A. MAINTAIN MINIMUM OF 18" OF CLEARANCE ON LATCH PULL SIDE AND 12" CLEARANCE MINIMUM ON LATCH PUSH SIDE OF DOORS AS REQ'D BY ADA & ANSI A117.1. THESE CLEARANCE DO NOT APPLY TO PATIENT ROOM ENTRY DOORS

B. ALL INTERIOR DIMENSIONS ARE FROM FACE OF WALL U.N.O.

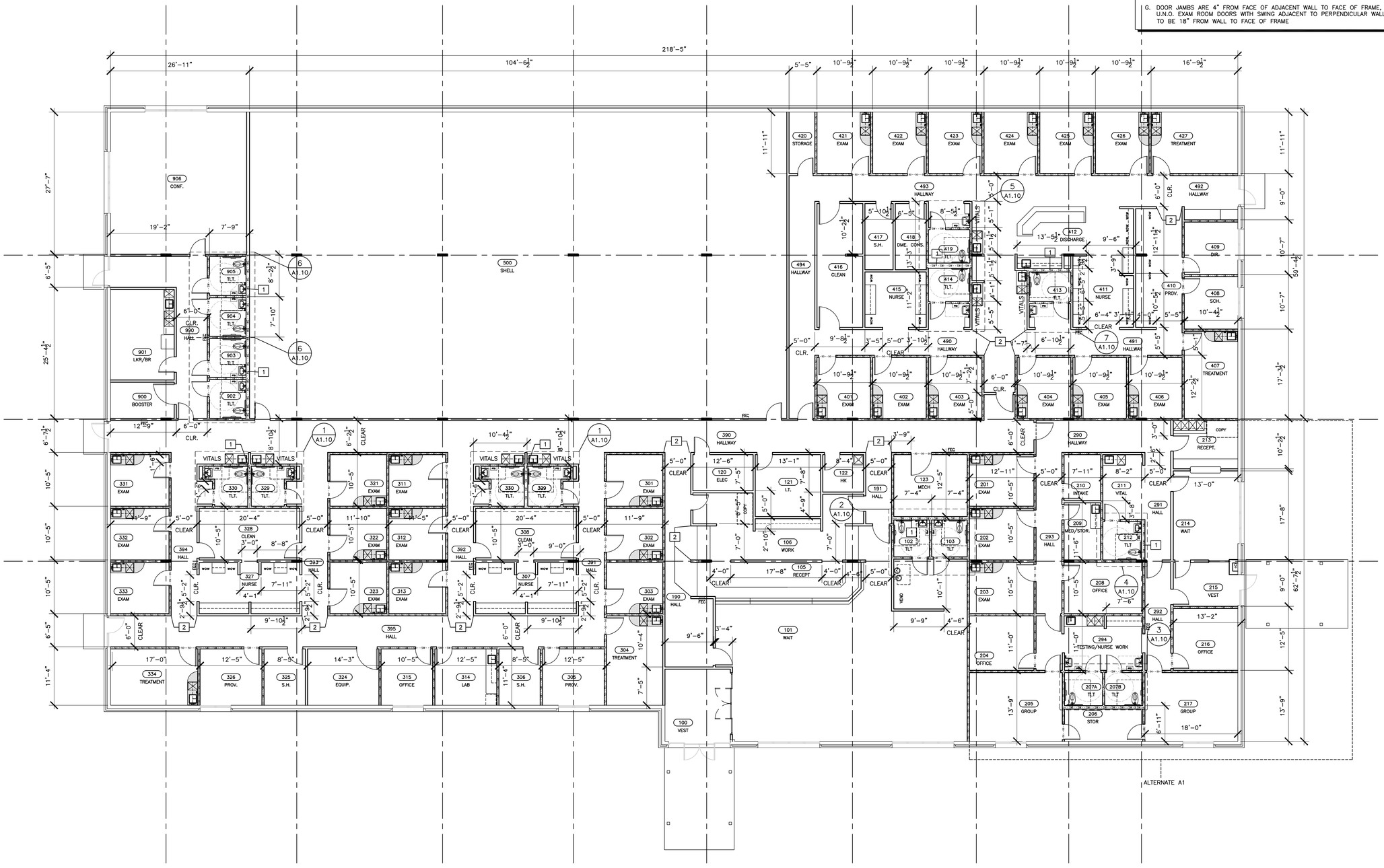
C. PROVIDE 6", 8", OR 12" STUDS AS REQUIRED FOR PLUMBING, ELECTRICAL PANELS, OUTLETS, DEVICES, PIPES, FIRE EXTINGUISHER CABINETS, ETC. ITEMS REQUIRED AT RATED WALLS ARE TO BE FIVE-SIDED TO ENSURE WALL RATING IS MAINTAINED.

D. REFERENCE ENLARGED FLOOR PLANS FOR ADDITIONAL WALLS.

E. PROVIDE SUPPORT AND BLOCKING AS REQUIRED FOR PLUMBING, ELECTRICAL, FIRE EXTINGUISHERS AND CORRESPONDING CABINETS, ETC.

F. SINKS ARE TO BE CENTERED A MINIMUM OF 15" FROM ADJACENT WALLS; TOILETS ARE TO BE CENTERED EXACTLY 18" FROM ADJACENT WALLS.

G. DOOR JAMBS ARE 4" FROM FACE OF ADJACENT WALL TO FACE OF FRAME, U.N.O. EXAM ROOM DOORS WITH SWING ADJACENT TO PERPENDICULAR WALL TO BE 18" FROM WALL TO FACE OF FRAME



DIMENSIONED FLOOR PLAN

PLAN NORTH 8' 0 8'

CONSTRUCTION DRAWINGS

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Freestanding Medical Office Building Buildout for:

Sullivan County Community Hospital

Sullivan, Indiana

STEPHANIE PIERCE REGISTERED No. AR12300102 02.28.2024 STATE OF INDIANA ARCHITECT

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A1.1d

FLOOR PLAN DIMENSION

GENERAL NEW WORK NOTES:

A. DOOR FRAMES TO BE CAULKED TO FLOOR AT NON-CARPET LOCATIONS.

B. PROVIDE CONTINUOUS WOOD BLOCKING & ANCHORAGE OR OTHER ADEQUATE SUPPORT AS REQUIRED FOR EQUIPMENT, LOCKERS, WALL SUPPORTED COUNTERS AND CABINETS.

C. PROVIDE MANUAL SHADES AT ALL EXTERIOR WINDOWS

D. EQUIPMENT SHOWN FOR REFERENCE ONLY AND WILL BE PROVIDED BY OWNER.

E. PROVIDE MOCK UPS FOR EXAM ROOM AS NOTED IN SPECIFICATIONS PRIOR TO OUTLET INSTALLATION.

PLAN KEY NOTES:

1. PROVIDE DOOR AS A PART OF ALTERNATE A1.
2. PROVIDE BLOCKING FOR OWNER PROVIDED SIGNAGE ON WALL
3. PROVIDE SHUT OFF VALVES FOR TESTING TOILETS, SEE PLUMBING.
4. PROVIDE 18x12 ACCESS PANEL TO FIRE SPRINKLER PIPE, COORDINATE LOCATION WITH FIRE PROTECTION

NOTED FLOOR PLAN

PLAN NORTH 8' 0 8'

CONSTRUCTION DRAWINGS

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Freestanding Medical Office Building Buildout for:

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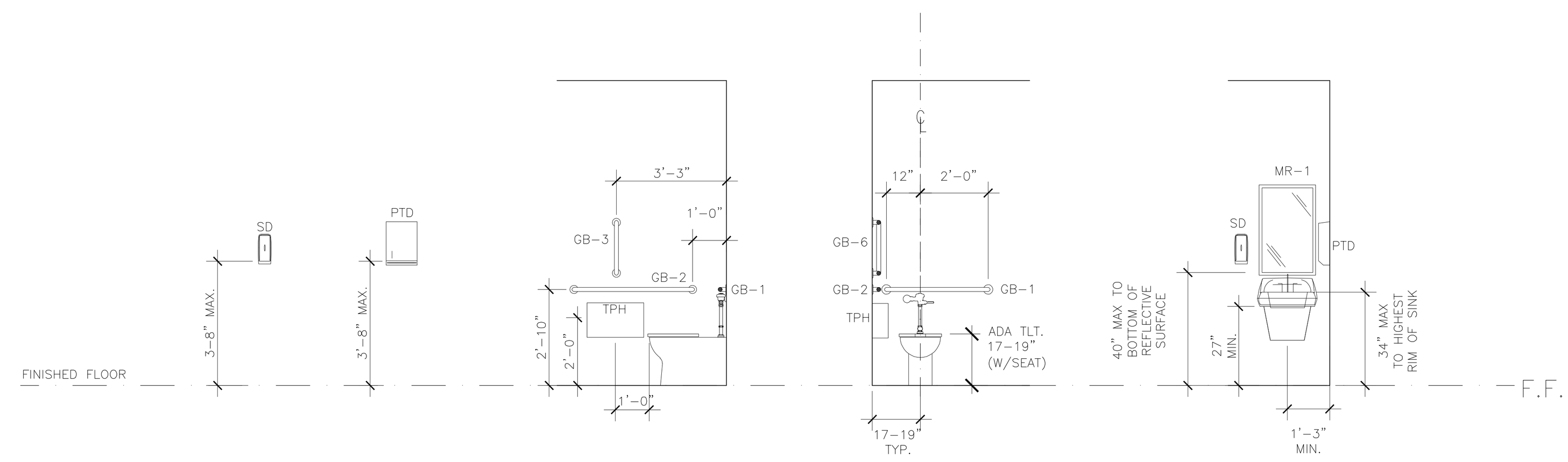
A1.1n

FLOOR PLAN NOTED



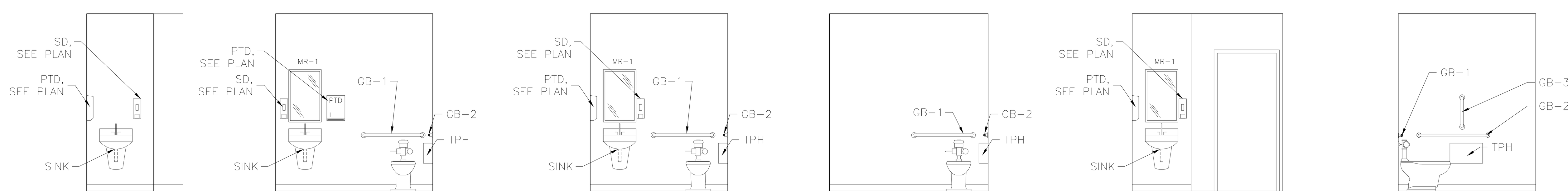
TYPICAL MOUNTING HEIGHT ELEVATIONS

FIXTURE & ACCESSORY SCHEDULE

ABB.	ITEM	REMARKS
GB–1	36" LONG GRAB BAR	34" TO CENTERLINE OF BAR, 6" FROM CORNER
GB–2	42" LONG GRAB BAR	34" TO CENTERLINE OF BAR, 12" FROM CORNER
GB–3	18" LONG GRAB BAR	39" TO CENTERLINE OF BAR FROM BACK WALL, 39" FROM FLOOR
MR–1	18"x36" MIRROR	40" TO BOTTOM OF MIRROR MAX.
PTD	PAPER TOWEL DISPENSER	44" TO THE BOTTOM
SD	SOAP DISPENSER	44" TO THE BOTTOM
TPH	TOILET PAPER HOLDER (N.I.C.)	19" TO CENTERLINE OF SPINDLE
WTR	5'–7" DIA. WHEELCHAIR TURNING RADIUS PER ADA REQUIREMENTS	– – – – – –

GENERAL NOTES

1. PROVIDE WOOD BLOCKING FOR OWNER PROVIDED WALL–MOUNTED EQUIPMENT. COORDINATE WOOD BLOCKING & OTHER SUPPORT REQUIREMENTS W/ OWNER
2. GRAB BARS SHALL BE SUFFICIENTLY ANCHORED TO SUSTAIN A CONCENTRATED LOAD OF 250 POUNDS IN ACCORDANCE WITH APPL. CODE IN TYPICAL TOILET ROOMS. GRAB BARS MUST SUPPORT A CONCENTRATED LOAD OF 500 POUNDS IN ALL ROOMS DESIGNATED AS BARIATRIC.
3. ALL DIMENSIONS GIVEN WITHIN REMARKS COLUMN ARE ABOVE FINISHED FLOOR.
4. REFER TO THIS SHEET FOR TYP. MOUNTING HEIGHT ELEVATIONS.
5. REFER TO CASEWORK ELEVATIONS AND SECTIONS FOR CASEWORK DIMENSIONS.



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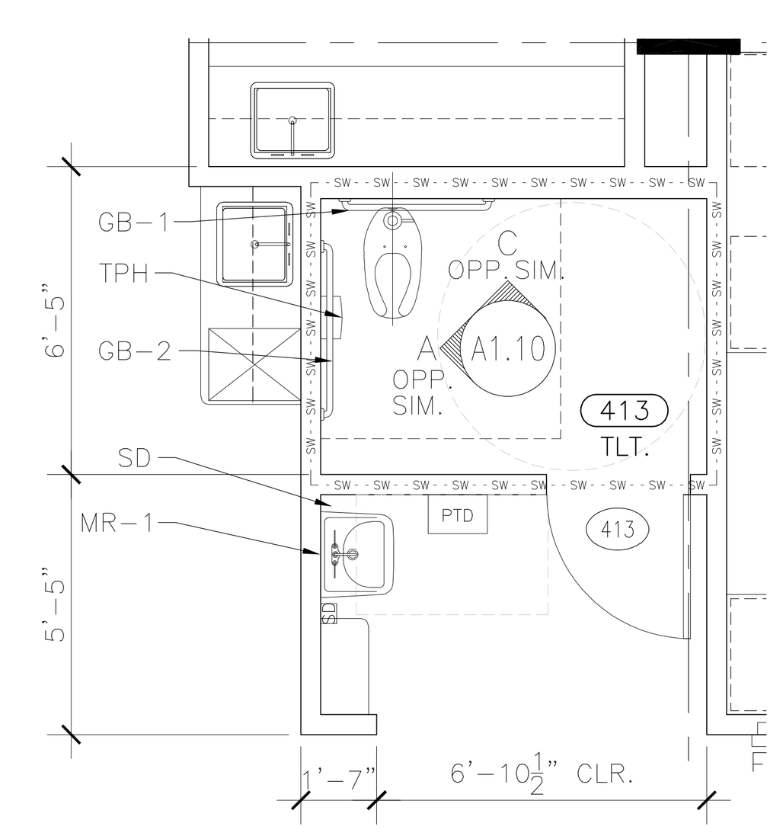
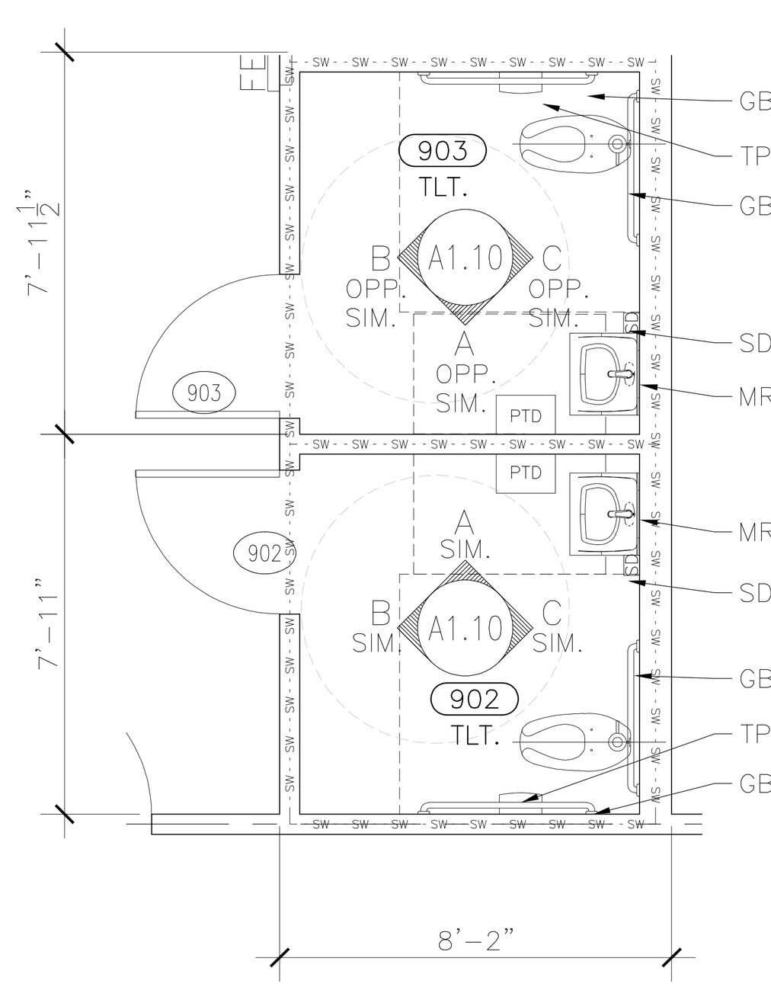
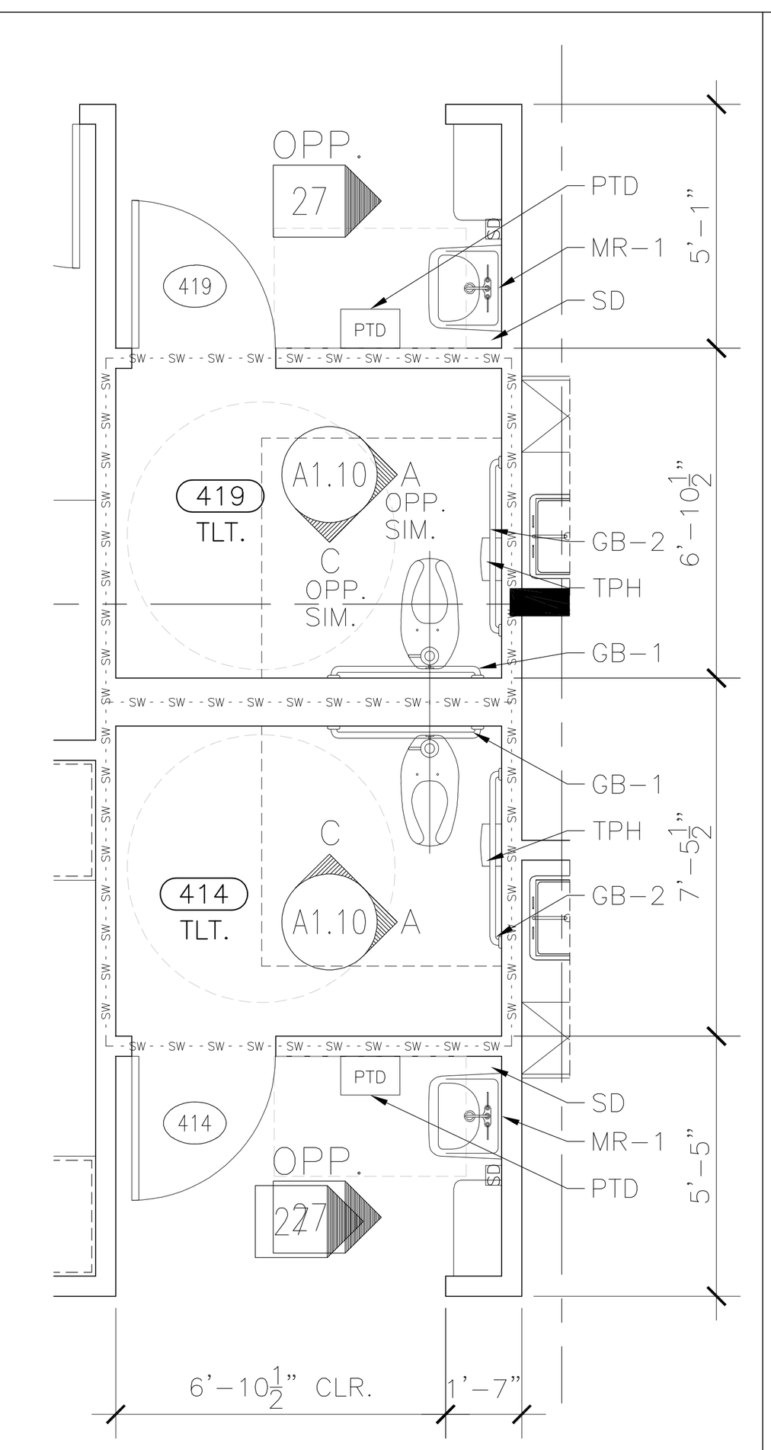


7 A1.1n ADMIT - STAFF TLT.



6 A1.1n STAFF - TLT.



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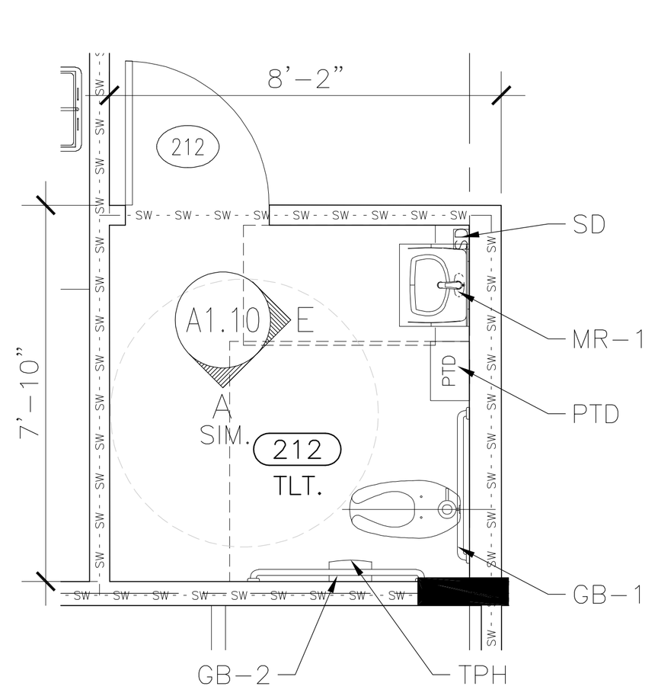
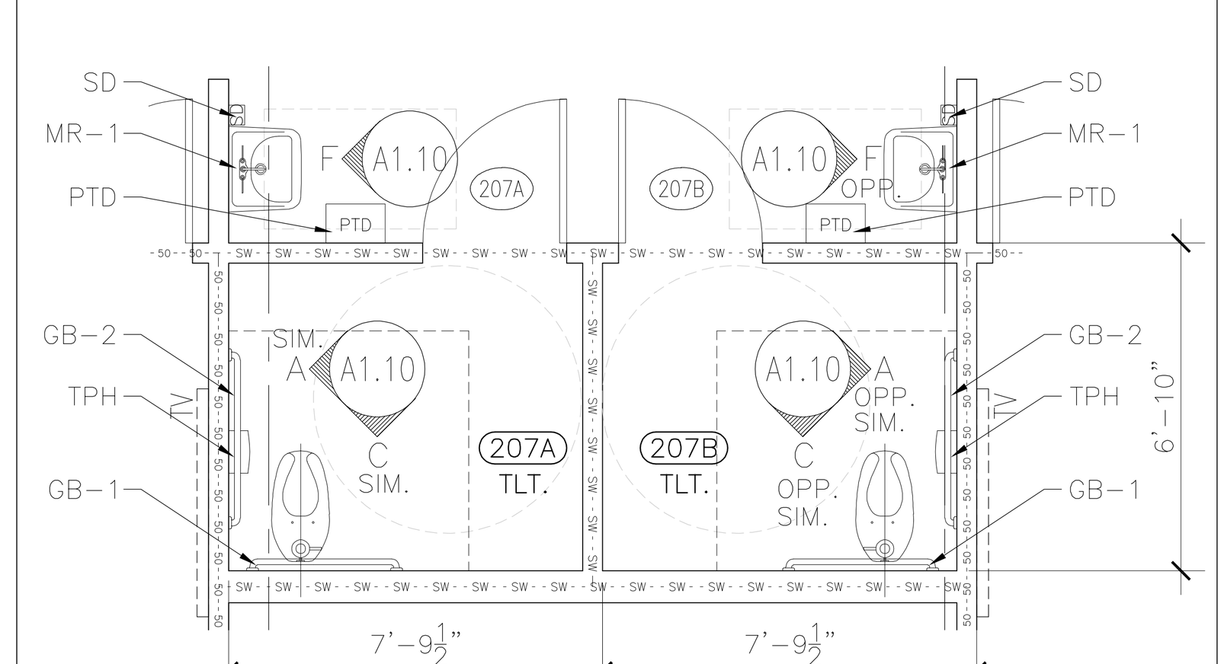
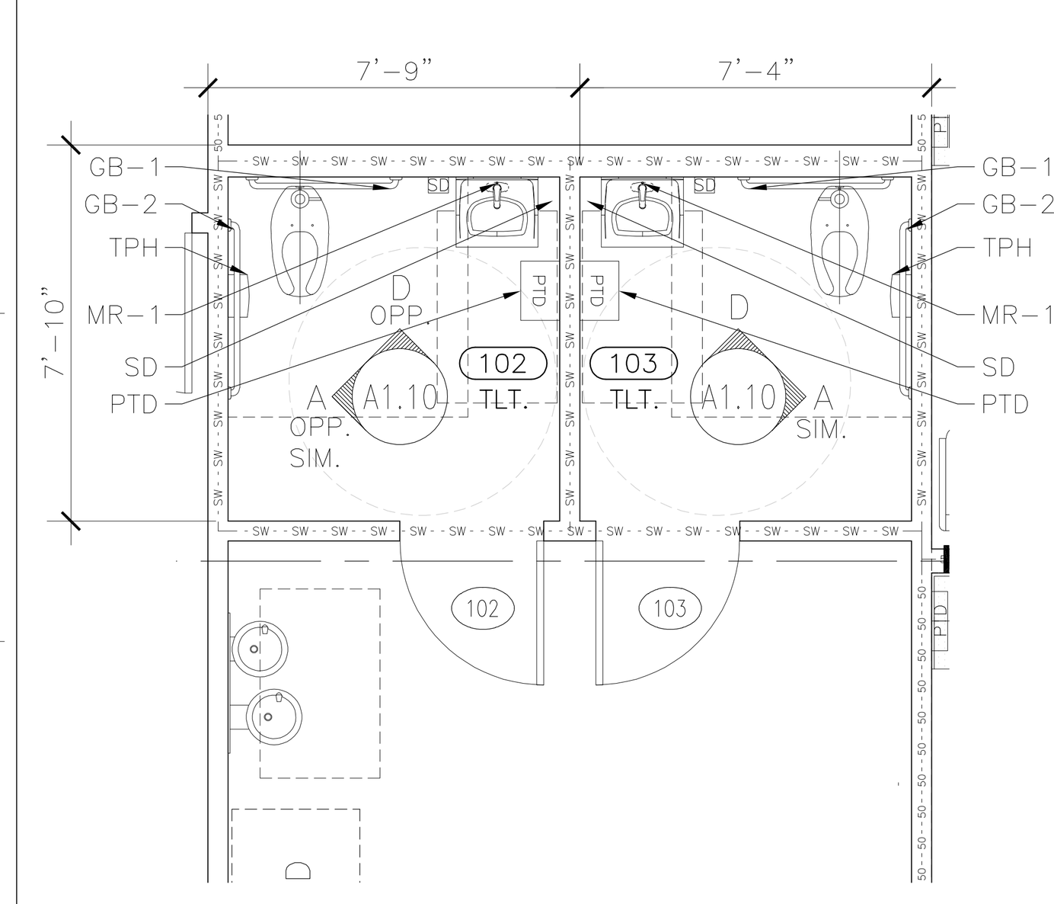


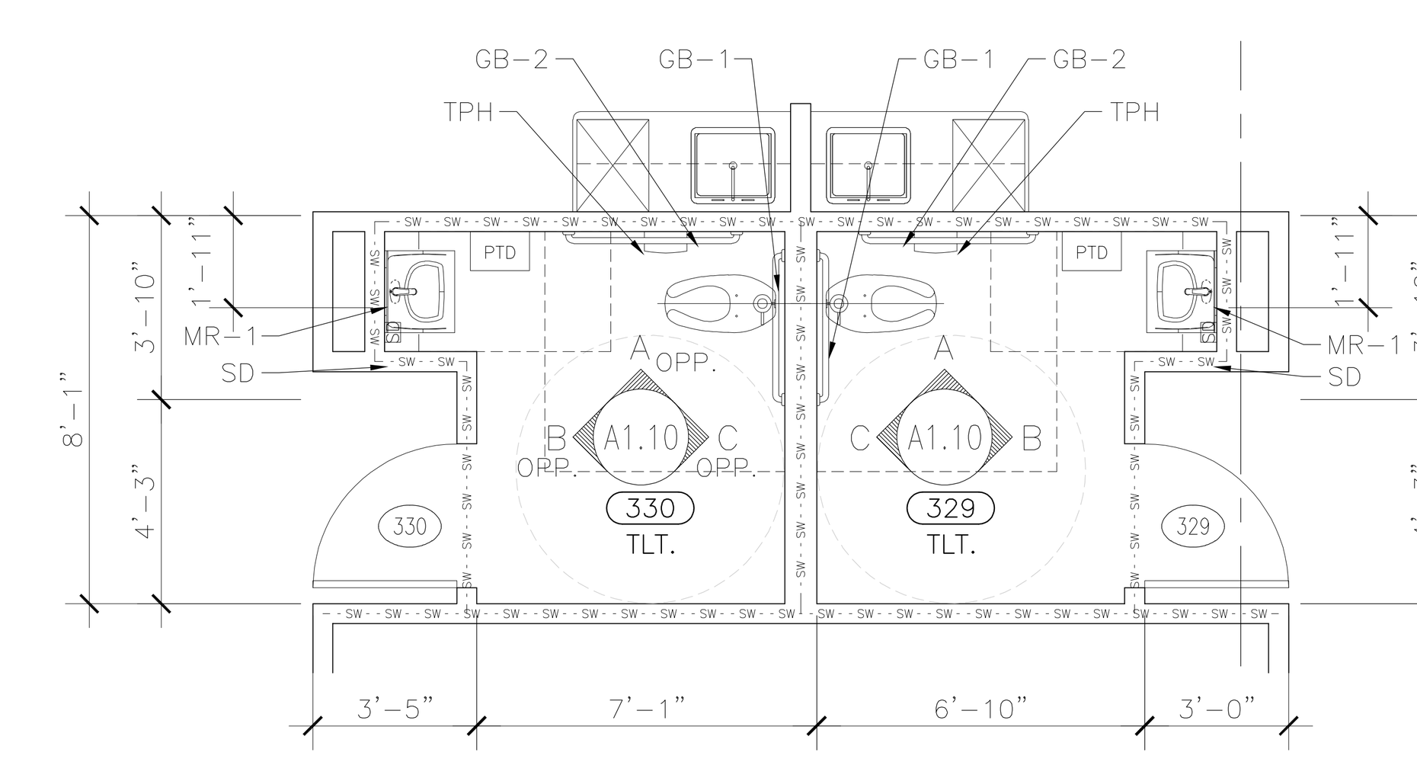
4 A1.1n MAT - TLT.



3 A1.1n GROUP - TLT.



2 A1.1n WAITING - TLT.



1 A1.1n PATIENT - TLT.

TYPICAL SCALE THIS SHEET UNLESS NOTED OTHERWISE

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Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

Sheet Re-Issue Log
(Individual revisions clouded and labeled within each sheet)

PROJECT NUMBER
23987.02
DATE
February 28, 2024

A1.10
ENLARGED TOILET PLANS AND ELEVATIONS

CONSTRUCTION DRAWINGS

GENERAL RCP NOTES:

A. CASED OPENINGS AND HEADERS TO BE 2" BELOW THE LOWEST ADJACENT CEILING HEIGHT UNLESS NOTED OTHERWISE.

B. ALL CEILINGS TO BE 9'-0" U.N.O.

C. SEE MEP PLANS FOR ADDITIONAL INFORMATION REGARDING LIGHTS, DIFFUSERS, NURSE CALL, CAMERA, AND OTHER SYSTEMS ELEMENTS.

D. PROVIDE ACCESS PANELS AT GYPSUM BOARD CEILINGS AND OTHER RESTRICTED CEILING AREAS AS REQUIRED TO ACCESS CONCEALED MEP SYSTEMS & EQUIPMENT. PAINT TO MATCH ADJACENT SURFACE. PROVIDE RATED ACCESS PANELS AT RATED CONDITIONS.

E. PROVIDE 3" MINIMUM AROUND LIGHTS & DIFFUSERS AT GYP. CEILINGS.

F. SEE 11/A7.10 FOR TYPICAL BULKHEAD DETAIL.

G. SMOKE DETECTORS TO BE 3'-0" MINIMUM AWAY FROM AIRFLOW RETURNS.

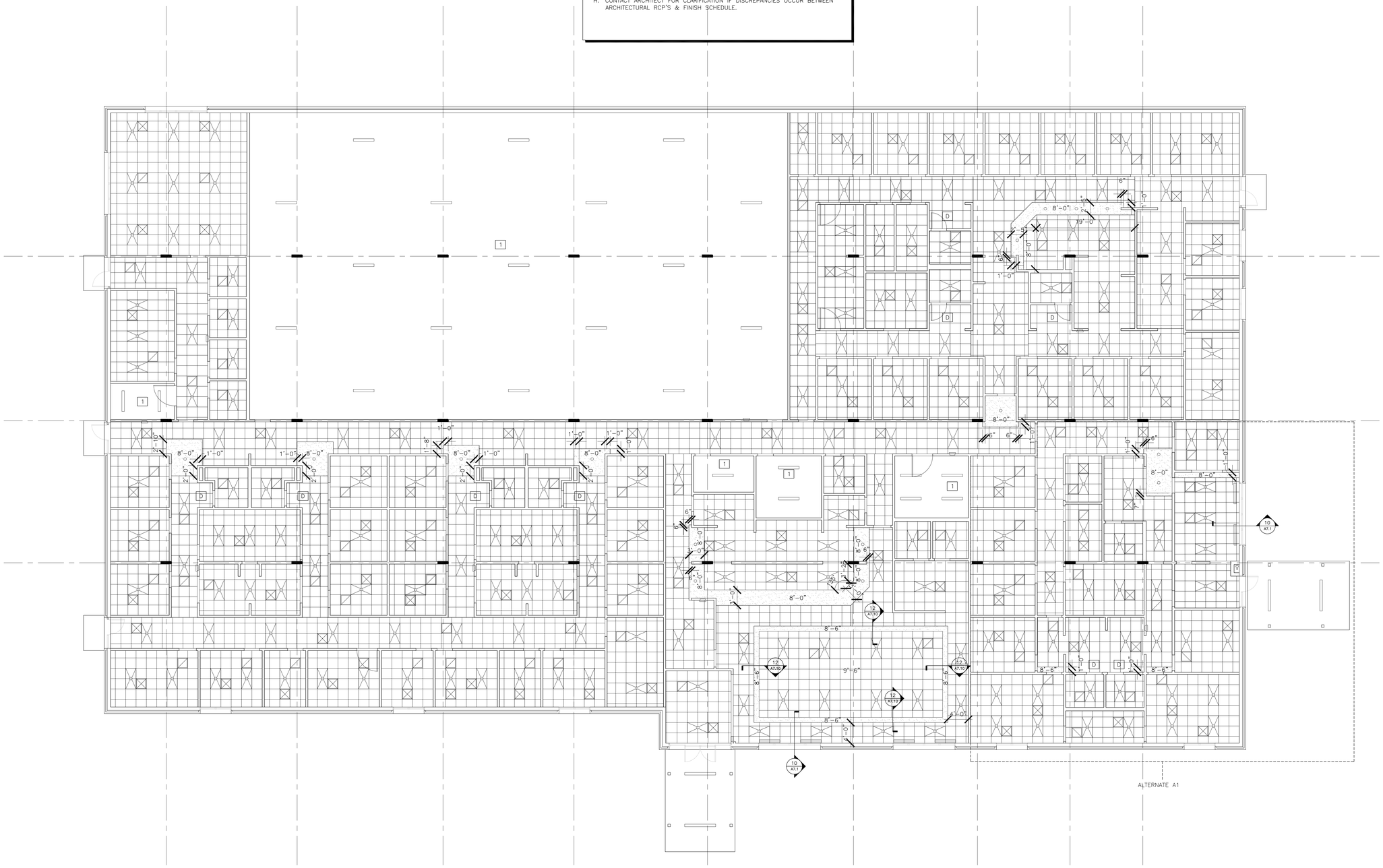
H. CONTACT ARCHITECT FOR CLARIFICATION IF DISCREPANCIES OCCUR BETWEEN ARCHITECTURAL RCP'S & FINISH SCHEDULE.

[X] CEILING KEY NOTES:

1. EXPOSED CEILING

CEILING LEGEND:

- GYPSUM BOARD
- 2'X4' FLUORESCENT
- CJ (CONTROL JOINT)
- CAN FIXTURE
- [A] ACCESS PANEL (COORD. WITH MECHANICAL)
- LINEAR EXPOSED LIGHT (COORD. WITH ELECTRICAL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- RETURN/EXHAUST GRILLE
- [D] NURSE CALL AUDIO VISUAL DEVICE



OVERALL FIRST FLOOR REFLECTED CEILING PLAN

PLAN NORTH 8' 0 8'

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Freestanding Medical Office Building Buildout for:

Sullivan County Community Hospital

Sullivan, Indiana

STEPHANIE PIERCE REGISTERED No. AR12300123 02.28.2024 STATE OF INDIANA ARCHITECT

Sheet Re-Issue Log

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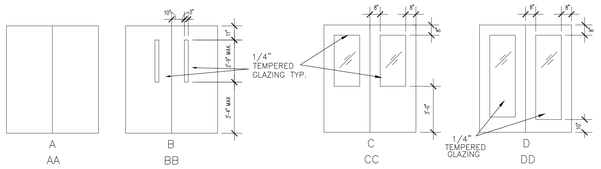
February 28, 2024

A5.1

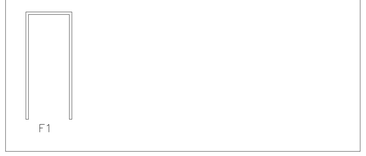
REFLECTED CEILING PLAN

CONSTRUCTION DRAWINGS

DOOR TYPES



FRAME TYPES



DOOR SCHEDULE — FLOOR

*SEE WINDOW ELEVATION

NUMBER	TYPE	MATL	WIDTH	HEIGHT	FIN	UL	HDW	FTYPE	FMATL	FFIN	REMARKS
INPATIENT FAMILY											
101A*	–	AL	12'–0" PKG.	7'–0" PKG	PF	–	1	F1	AL	PF	AUTO
102	A	WD	3'–0"	7'–0"	PL	–	22	F1	HM	PTD	OVERHEAD STOP
103	A	WD	3'–0"	7'–0"	PL	–	22	F1	HM	PTD	OVERHEAD STOP
106A	B	WD	3'–0"	7'–0"	PL	–	10	F1	HM	PTD	
106B	B	WD	3'–0"	7'–0"	PL	–	10	F1	HM	PTD	
120	A	WD	3'–0"	7'–0"	PL	–	13	F1	HM	PTD	OVERHEAD STOP
121	A	WD	3'–0"	7'–0"	PL	–	17	F1	HM	PTD	AC
122	A	WD	3'–0"	7'–0"	PL	–	11	F1	HM	PTD	
123	A	WD	4'–0"	7'–0"	PL	–	14	F1	HM	PTD	OVERHEAD STOP
190	B	WD	3'–4"	7'–0"	PL	–	6	F1	HM	PTD	AC; RR
191	B	WD	3'–4"	7'–0"	PL	–	6	F1	HM	PTD	AC; RR
201	A	WD	3'–4"	7'–0"	PL	–	15	F1	HM	PTD	
202	A	WD	3'–4"	7'–0"	PL	–	15	F1	HM	PTD	
203	A	WD	3'–4"	7'–0"	PL	–	15	F1	HM	PTD	
204	B	WD	3'–0"	7'–0"	PL	–	9	F1	HM	PTD	
205	B	WD	3'–0"	7'–0"	PL	–	9	F1	HM	PTD	
206A	A	WD	3'–0"	7'–0"	PL	–	17	F1	HM	PTD	
206B	A	WD	3'–0"	7'–0"	PL	–	17	F1	HM	PTD	
207A	A	WD	3'–0"	7'–0"	PL	–	22	F1	HM	PTD	
207B	A	WD	3'–0"	7'–0"	PL	–	22	F1	HM	PTD	
208	A	WD	3'–0"	7'–0"	PL	–	9	F1	HM	PTD	
209	A	WD	3'–0"	7'–0"	PL	–	18	F1	HM	PTD	
210	C	WD	3'–0"	7'–0"	PL	–	9	F1	HM	PTD	
212	A	WD	3'–0"	7'–0"	PL	–	21	F1	HM	PTD	
213	B	WD	3'–0"	7'–0"	PL	–	9	F1	HM	PTD	OVERHEAD STOP
214A	D	AL	3'–0"	7'–0"	PF	–	8	F1	AL	PF	AC; OVERHEAD STOP
214B	B	WD	3'–0"	7'–0"	PL	–	6	F1	HM	PTD	AC; RR
215	–	–	–	–	–	–	5	F1	HM	PTD	AC
216	B	WD	3'–0"	7'–0"	PL	–	9	F1	HM	PTD	
217	B	WD	3'–0"	7'–0"	PL	–	9	F1	HM	PTD	
290	B	WD	3'–4"	7'–0"	PL	–	4	F1	HM	PTD	AC BOTH SIDES; PART OF ALTERNATE 1
292	B	WD	3'–0"	7'–0"	PL	–	7	F1	HM	PTD	AC
293	B	WD	3'–0"	7'–0"	PL	–	7	F1	HM	PTD	AC
301	A	WD	3'–4"	7'–0"	PL	–	15	F1	HM	PTD	180 HINGES
302	A	WD	3'–4"	7'–0"	PL	–	15	F1	HM	PTD	180 HINGES
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307	–	–	3'–0"	7'–0"	–	–	–	F1	HM	PTD	FRAME ONLY
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312	A	WD	3'–4"	7'–0"	PL	–	15	F1	HM	PTD	180 HINGES
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327	–	–	3'–0"	7'–0"	–	–	–	F1	HM	PTD	FRAME ONLY
328A	A	WD	3'–0"	7'–0"	PL	–	16	F1	HM	PTD	
328B	A	WD	3'–0"	7'–0"	PL	–	16	F1	HM	PTD	
329	A	WD	3'–0"	7'–0"	PL	–	21	F1	HM	PTD	
330	A	WD	3'–0"	7'–0"	PL	–	21	F1	HM	PTD	
331	A	WD	3'–4"	7'–0"	PL	–	15	F1	HM	PTD	180 HINGES
332	A	WD	3'–4"	7'–0"	PL	–	15	F1	HM	PTD	180 HINGES
333	A	WD	3'–4"	7'–0"	PL	–	15	F1	HM	PTD	180 HINGES
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416B	A	WD	4'–0"	7'–0"	PL	–	16	F1	HM	PTD	
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500B	A	WD	3'–0"	7'–0"	PL	–	7	F1	HM	PTD	AC
901	B	WD	3'–0"	7'–0"	PL	–	20	F1	HM	PTD	OVERHEAD STOP
902	A	WD	3'–0"	7'–0"	PL	–	22	F1	HM	PTD	
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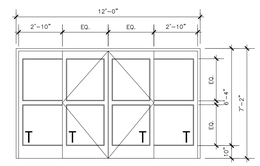
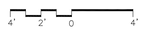
906	B	WD	3'–0"	7'–0"	PL	–	19	F1	HM	PTD	OVERHEAD STOP
990	A	WD	3'–0"	7'–0"	PL	–	7	F1	HM	PTD	AC

WINDOW TYPES



INTERIOR WINDOW ELEVATIONS



CONSTRUCTION DRAWINGS

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fax 615.837.0657

Freestanding Medical Office Building Buildout for:

Sullivan County Community Hospital

Sullivan, Indiana

STEPHANIE PISCIOTTA
REGISTERED
Stephanie Pisciotta
No. AR12300105
02.28.2024
STATE OF INDIANA
ARCHITECT

Sheet Re-Issue Log

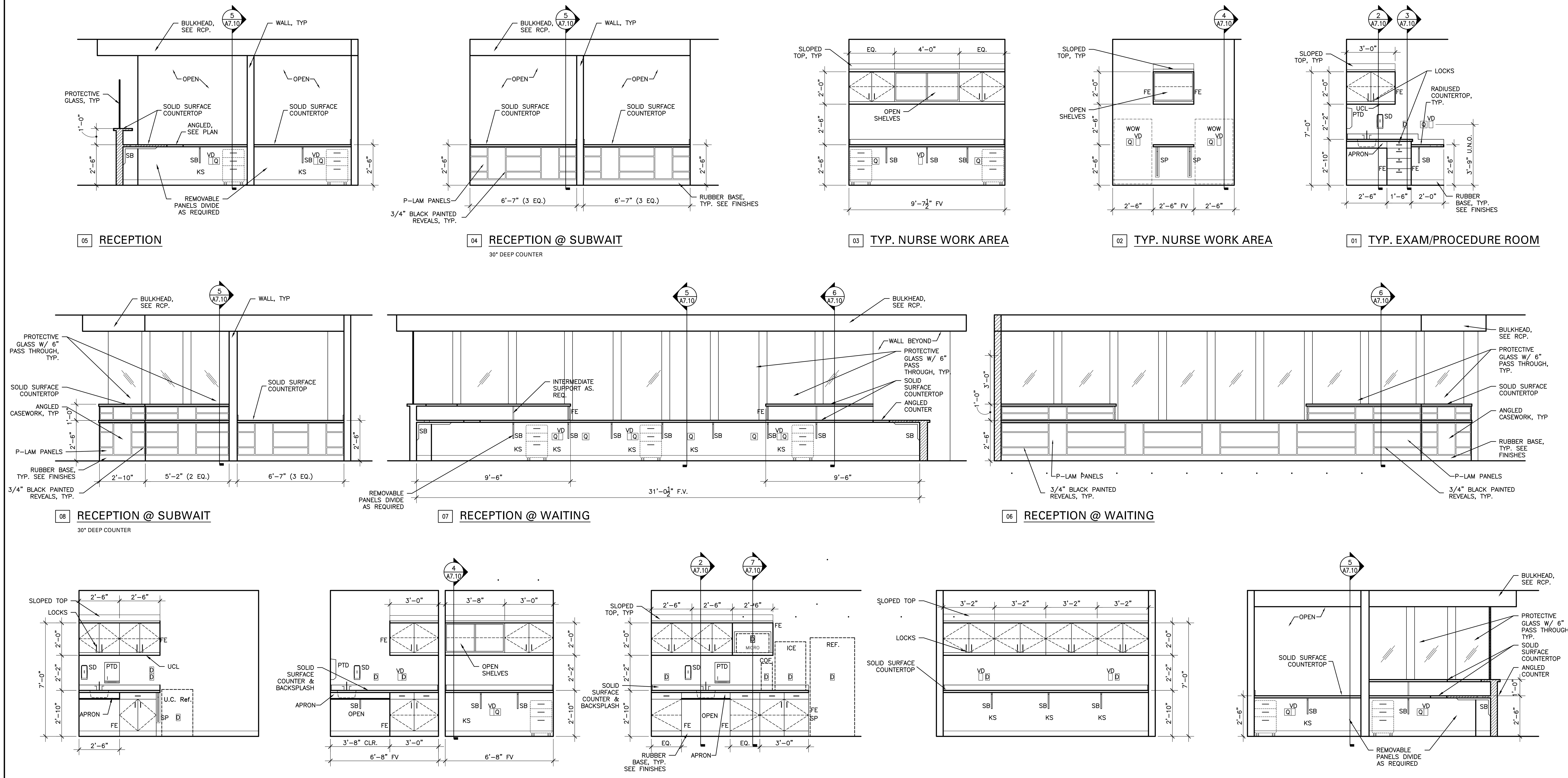
(Individual revisions clouded and labeled within each sheet)

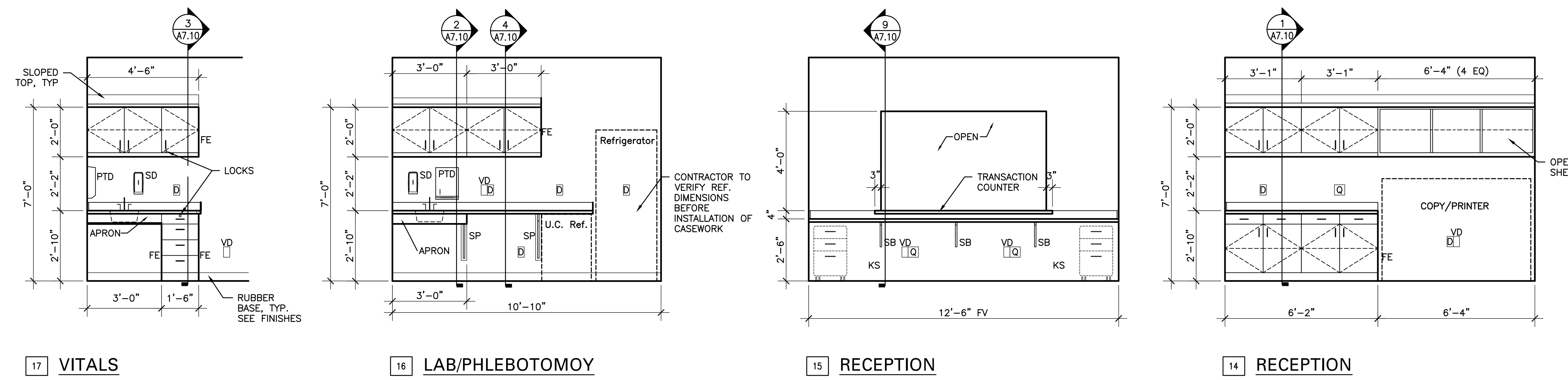
PROJECT NUMBER
23987.02

DATE
February 28, 2024

A6.2

DOOR SCHEDULE AND WINDOW ELEVS.





CASEWORK LEGEND/NOTES

FE	– FINISHED END	VD	– VOICE/DATA OUTLET
SB	– SUPPORT BRACKET	KS	– KNEE SPACE
FV	– FIELD VERIFY	PLAM	– PLASTIC LAMINATE
SP	– SUPPORT PANEL	D	– DUPLEX ELEC. OUTLET
SD	– SOAP DISPENSER	Q	– QUAD ELEC. OUTLET
		PD	– PAPER TOWEL DISPENSER

1. PLAM COUNTERTOPS ARE TO HAVE PVC EDGE BANDING. OUTSIDE CORNERS OF TYP. COUNTERS TO HAVE 2" RADIUS. OUTSIDE CORNERS OF TRANSACTION COUNTERS TO HAVE 1" RADIUS.
2. CASEWORK IS PLAM CLAD, U.N.O.
3. PROVIDE GROMMETS FOR ALL VOICE/DATA, & POWER OUTLETS LOCATED BELOW COUNTERS.
4. PROVIDE SUPPORT BRACKETS AS REQUIRED FOR PROPER SUPPORT.
5. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
6. SYNTHETIC WOOD LAMINATE TO HAVE GRAIN IN VERTICAL DIRECTION U.N.O. DRAWER FRONTS TO HAVE HORIZONTAL GRAIN DIRECTION.
7. SOLID SURFACE COUNTERTOPS ARE TO HAVE ¼" ROLLED EDGES.
8. COORDINATE INSTALLATION HEIGHT OF ALL CABINETS WITH LIP OF SINK TO ENSURE COMPLIANCE WITH ADA/ANSI.
9. INTERIORS OF EXPOSED CABINETS (WITHOUT DOORS) ARE TO RECEIVE PLAM FINISHES TO MATCH EXTERIOR UNLESS NOTED OTHERWISE.

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Freestanding Medical Office Building Buildout for:
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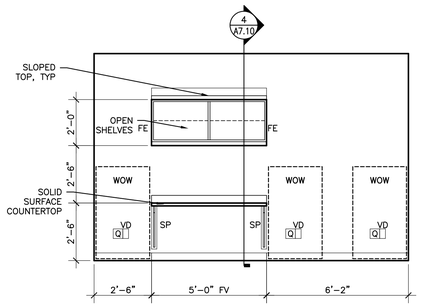
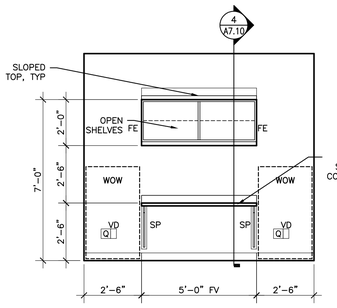
A7.1
CASEWORK ELEVATIONS

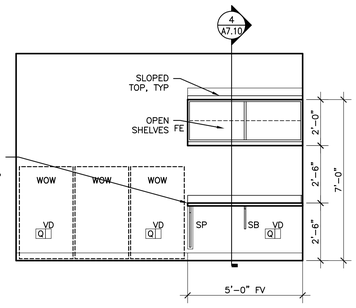
CONSTRUCTION DRAWINGS



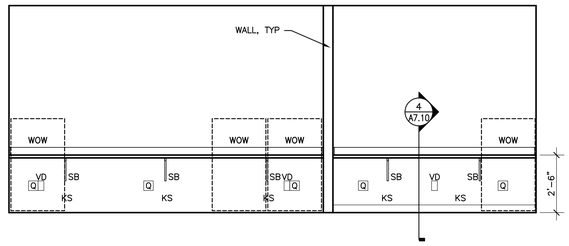
22 NURSE WORK AREA - RM. #411



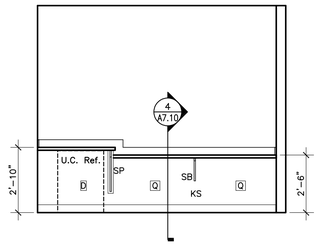
21 NURSE WORK AREA - RM. #411



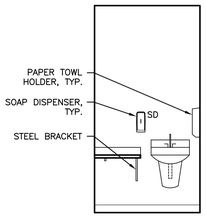
20 NURSE WORK AREA - RM. #411



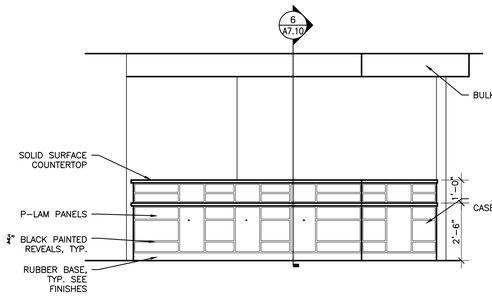
19 PROV. WORK AREA - RM. #410



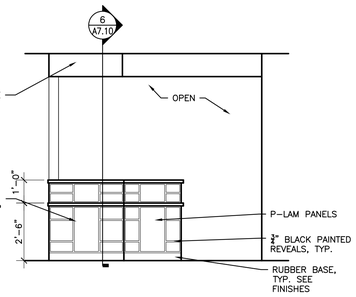
18 HALLWAY - RM. # 492



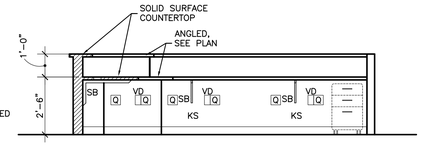
27 BATHROOM SINK - RM. #413,414,419



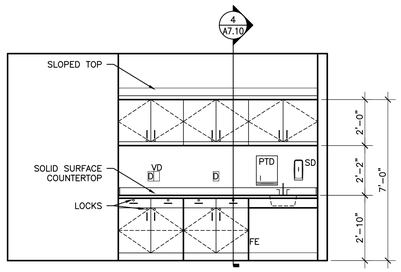
26 DISCHARGE



25 DISCHARGE



24 DISCHARGE



23 DISCHARGE

CASEWORK LEGEND/NOTES

FE	– FINISHED END	VD	– VOICE/DATA OUTLET
SB	– SUPPORT BRACKET	KS	– KNEE SPACE
FV	– FIELD VERIFY	PLAM	– PLASTIC LAMINATE
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SD	– SOAP DISPENSER	Q	– QUAD ELEC. OUTLET
		PD	– PAPER TOWEL DISPENSER

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9. INTERIORS OF EXPOSED CABINETS (WITHOUT DOORS) ARE TO RECEIVE PLAM FINISHES TO MATCH EXTERIOR UNLESS NOTED OTHERWISE.

CONSTRUCTION DRAWINGS

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Johnson Johnson Crabtree Architects P.C.
4551 Trousdale Drive
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Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

STEPHANIE PIERCE REGISTERED
Stephanie Pierce
No. AR12300102
02.28.2024
STATE OF INDIANA
ARCHITECT

Sheet Re-Issue Log
(Individual revisions clouded and labeled within each sheet)

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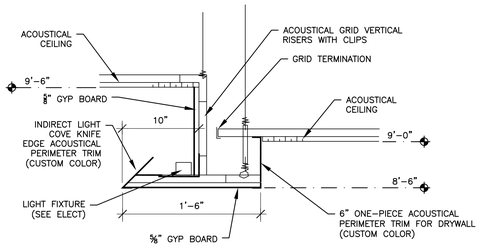
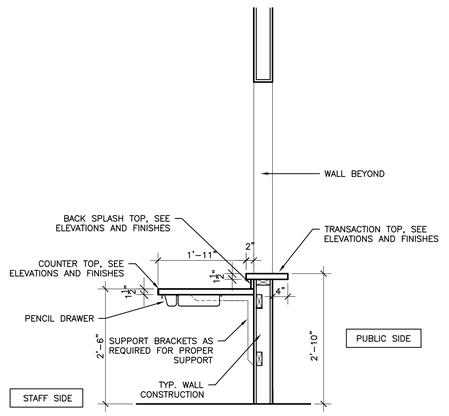
February 28, 2024

A7.2
CASEWORK ELEVATIONS



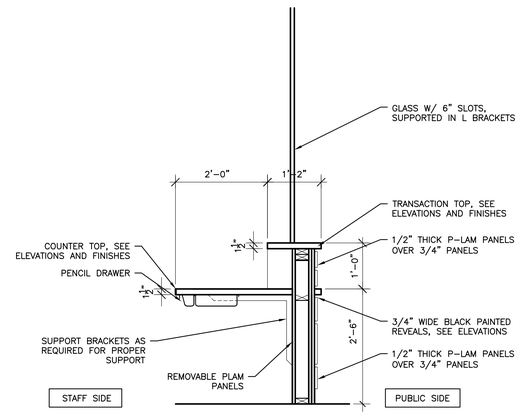
11 A5.1 DETAIL- BULKHEAD AT WAITING

6" 3" 0 6" 12"



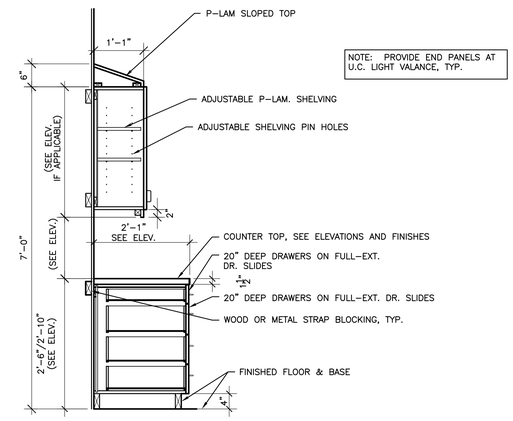
NOTE: SEE CASEWORK ELEVATIONS AND FINISH PLAN FOR CABINET FINISH TYPE.

9 A7.1 DETAIL - OPENING AT RECEPTION



NOTE: SEE CASEWORK ELEVATIONS AND FINISH PLAN FOR CABINET FINISH TYPE.

6 A7.1 DETAIL-RECEPT. @ HIGH COUNTER

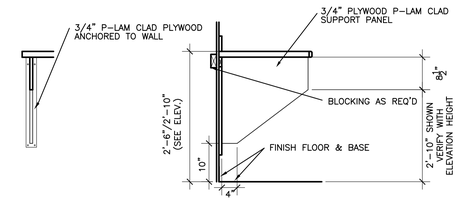


NOTE: SEE CASEWORK ELEVATIONS AND FINISH PLAN FOR CABINET FINISH TYPE.

3 A7.1 DETAIL-TYP. DRAWER CABINET

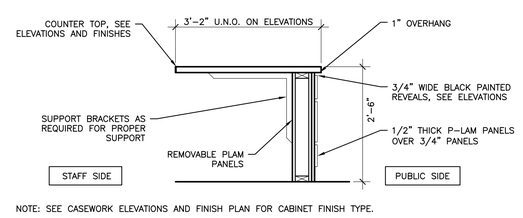
11 A5.1 DETAIL- TYP. BULKHEAD DETAIL

6" 3" 0 6" 12"



NOTE: SEE CASEWORK ELEVATIONS AND FINISH PLAN FOR CABINET FINISH TYPE.

8 A7.1 DETAIL-END SUPPORT PANEL, TYP.

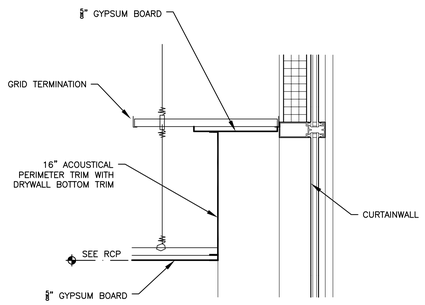


NOTE: SEE CASEWORK ELEVATIONS AND FINISH PLAN FOR CABINET FINISH TYPE.

5 A7.1 DETAIL-RECEPT. @ LOW COUNTER

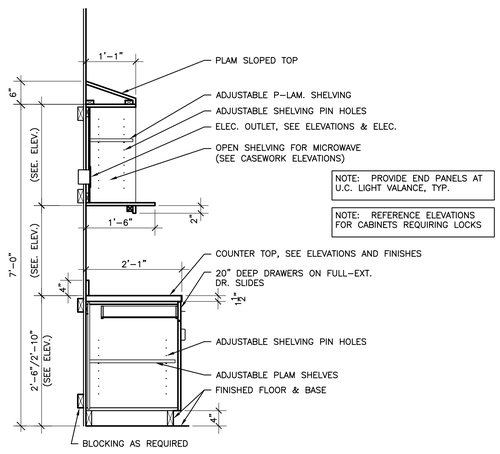
NOTE: SEE CASEWORK ELEVATIONS AND FINISH PLAN FOR CABINET FINISH TYPE.

2 A7.1 DETAIL-TYP. SINK CABINET



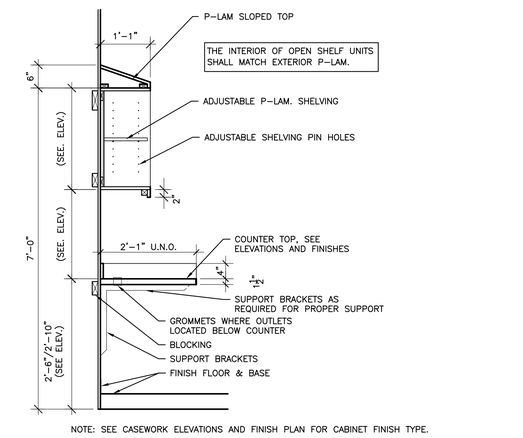
10 A5.1 DETAIL - TYP. WINDOW POCKET

6" 3" 0 6" 12"



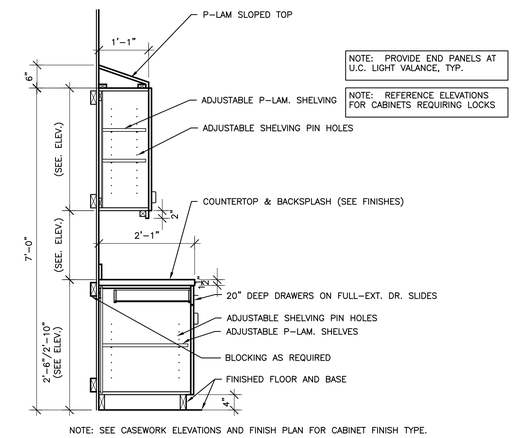
NOTE: SEE CASEWORK ELEVATIONS AND FINISH PLAN FOR CABINET FINISH TYPE.

7 A7.1 DETAIL- MIRCOWAVE SHELF



NOTE: SEE CASEWORK ELEVATIONS AND FINISH PLAN FOR CABINET FINISH TYPE.

4 A7.1 DETAIL- TYP. OPEN ADJ. SHELVING



NOTE: SEE CASEWORK ELEVATIONS AND FINISH PLAN FOR CABINET FINISH TYPE.

1 A7.1 DETAIL- TYP. BASE & WALL CABINET

1" 0 1" 2" TYPICAL SCALE THIS SHEET (UNLESS NOTED OTHERWISE)

CONSTRUCTION DRAWINGS

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Freestanding Medical Office Building Buildout for:

Sullivan County Community Hospital

Sullivan, Indiana

STEPHANIE PISCIOTTA REGISTERED No. AR12300103 02.28.2024 STATE OF INDIANA ARCHITECT

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A7.10

CASEWORK DETAILS

FINISH SELECTIONS AND GENERAL FINISH NOTES

FINISH LEGEND

AC-1 / PW-1 / RB-1 / CP-1 — CEILING FINISH / WALL FINISH / BASE FINISH / FLOOR FINISH

PW-2 — DENOTES EXTENT OF ACCENT WALL FINISH

CASEWORK — COUNTERTOP / BASE AND WALL CABINETS

CP-1 / VT-1 — DENOTES CHANGE OF FLOOR FINISH MATERIALS

CEILING FINISHES

AC-1	ACOUSTICAL CEILING TILE	ARMSTRONG, 3152, OPTIMA OPEN PLAN, 24"X24", SQUARE LAY-IN PRELUDE 15/16" GRID, FACTORY PAINTED WHITE
AC-2	ACOUSTICAL CEILING TILE	ARMSTRONG, CLEAN ROOM VL UNPERFORATED, 868, 24"X24", SQUARE LAY-IN, PRELUDE 15/16" GRID, FACTORY PAINTED WHITE
PC-1	PAINTED CEILING	SHERWIN WILLIAMS, SW7757, HIGH REFLECTIVE WHITE FLAT FINISH
PC-2	PAINTED CEILING	SHERWIN WILLIAMS, TO MATCH PW-2 FLAT FINISH
EPC-1	EPOXY PAINTED CEILING	SHERWIN WILLIAMS, SW7757, HIGH REFLECTIVE WHITE FLAT FINISH
EXP-1	EXPOSED CEILING	EXPOSED TO DECK

WALL FINISHES

PW-1	PAINT	SHERWIN WILLIAMS, SW6119 ANTIQUE WHITE
PW-2	PAINT	SHERWIN WILLIAMS, SW7979 GOLDEN GATE
PW-3	PAINT	SHERWIN WILLIAMS, SW6271 EXPRESSIVE PLUM
PW-4	PAINT	SHERWIN WILLIAMS, SW6212 QUIETUDE
PW-5	PAINT	SHERWIN WILLIAMS, SW6214 UNDERSEAS
EP-1	EPOXY PAINT	TO MATCH PW-1

CASEWORK FINISHES

A	PLASTIC LAMINATE	FORMICA, 7267-58, CONCRETE STONE
B	PLASTIC LAMINATE	WILSONART, 7935K-07, SHAKER CHERRY
C	SOLID SURFACE	CORIAN, DOESKIN

BASE FINISHES

RB-1	RUBBER BASE	JOHNSONITE, TRADITIONAL 4" WALL BASE, COLOR: 29 MOON ROCK CONTINUOUS ROLLS, MITER INSIDE AND WRAP OUTSIDE CORNERS
RB-2	RUBBER BASE	JOHNSONITE, 6" WALL BASE, COLOR: 29 MOON ROCK CONTINUOUS ROLLS, MITER INSIDE AND WRAP OUTSIDE CORNERS
SVB-1	SHEET VINYL COVE BASE	TO MATCH SV-1 CONTRACTOR SHALL FLASH COVE UP WALL 6", HEAT WELD SEAMS

FLOOR FINISHES

FCP-1	FOYER CARPET	SHAW CONTRACT, BON JOUR II TILE, 5T032, BLACK CHOCOLATE 24"X24" TILE, QUARTERTURN INSTALLATION
CP-1	CARPET	SHAW CONTRACT, JASPER TILE, 5T016, ZIRCON, 1474C 18"X36" TILE, OFF-SET BRICK PATTERN INSTALLATION
LVF-1	LUXURY VINYL FLOORING	SHAW CONTRACT, UNCOMMON GROUND 6, 02573 CHOCOLATE CHERRY, 6" PLANK SEE PATTERN SHEETS FOR INSTALLATION
LVF-2	LUXURY VINYL FLOORING	SHAW CONTRACT, JEDGORI, 90700 FLAX 18"X18" TILE SEE PATTERN SHEETS FOR INSTALLATION
VT-1	VINYL TILE	TARKETT, IQ OPTIMA, 12"X12", 205 SUMMER MOON
SV-1	SHEET VINYL FLOORING	TARKETT, IQ OPTIMQ, SHEET GOODS, 205 SUMMER MOON HEAT WELD SEAMS, WELD ROD COLOR TO MATCH FLOOR
SC-1	SEALED CONCRETE	SEE ARCHITECTURAL SPECIFICATION

WALL PROTECTION FINISHES

WP-1	WALL PROTECTION	ACROVYN 4'-0" X 8'-0" PANEL TO 4'-0" AFF, 253 PARCHMENT CONTRACTOR SHALL INSTALL PANELS HORIZONTALLY BEHIND WALL BASE. CONTRACTOR SHALL UTILIZE TRIM PIECES
CORNER GUARD	○	CS GROUP, SSM-10N, 90 DEGREE, FULL HEIGHT, INSTALL CORNER GUARD, ABOVE WALL BASE. 305 MUSHROOM TOP AND BOTTOM PEICES TO BE INCLUDED, RETAINER: VINYL
CORNER GUARD (END CAP)	⌴	CS GROUP, SSM-15N, END WALL, FULL HEIGHT, 305 MUSHROOM INSTALL END WALL GUARD ABOVE WALL BASE. TOP AND BOTTOM PIECES TO BE INCLUDED, RETAINER: VINYL

DRAPERY ITEMS

RS-1	ROLLER SHADE	STANDARD TEXTILE, DRAPER, MANUAL ROLLER SHADE SHADE FABRIC, 5% OPEN, SHEERWEAVE, COLOR: TBD

MATERIAL CONTACT

PLEASE CONTACT THE FOLLOWING FOR PRICING

MANUFACTURER	FINISH	CONTACT INFORMATION
ACROVYN	WALL PROTECTION	HILLYER SALES ARCHITECTURAL PRODUCTS 615-678-7497 reynolds@hillyersales.com
ARMSTRONG CEILINGS	CEILING TILE	GLENN DOSCHER glenn@vipgns.com
CORIAN	SOLID SURFACE	BRUCE HARNISH bharnish@oldenkamp.com
DAL TILE	CERAMIC TILE	KRISSY KUBACH krissy.kubach@daltile.com
DUR-A-FLEX	EPOXY FLOORING	JEREMY HUCKABY jeremyh@dur-a-flex.com
JOHNSONITE	RUBBER BASE	PAM WEST pamalawest@att.com
SHAW CONTRACT	FLOORING	CHUCK STEEN 615-351-4015 chuck.steen@shawinc.com
SHERWIN WILLIAMS	WALL PAINT	www.sherwin-williams.com
STANDARD TEXTILE	DRAPERY	JP PERRIN jperrin@standardtextile.com
TARKETT	VINYL FLOORING	ANGELA MULLINS angela.mullins@tarkett.com
WILSONART	LAMINATE	CHRIS FLEMING fleminc2@wilsonart.com

WALL FINISHES

1. THE CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND SHALL NOTIFY ARCHITECT/DESIGNER IF DISCREPANCIES ARE FOUND.
2. DRAPERY ITEM LOCATIONS ARE FOUND ON FURNITURE SHEETS.
3. PRODUCTS SHALL BE INSTALLED PER INDUSTRY STANDARDS AND MANUFACTURER SPECIFICATIONS.
4. NO SUBSTITUTIONS OF SPECIFIED FINISHES SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM INTERIOR DESIGNER.

GENERAL FINISH NOTES

1. CONTRACTOR SHALL PROVIDE ATTIC STOCK AS NOTED BELOW. ATTIC STOCK SHALL BE PROVIDED FOR EACH PRODUCT, MANUFACTURER, STYLE, COLOR, AND FINISH SPECIFIED AND SHALL BE DELIVERED ALONG WITH PRODUCT TO BE INSTALLED AS TO INSURE DYE-LOTS MATCH.

CEILING TILE:	PROVIDE 5% OVERAGE
PAINT:	PROVIDE 5% OVERAGE, EACH CONTAINER MUST HAVE THE COLOR, CODE AS INDICATED ON THESE DOCUMENTS, AND FORMULA CLEARLY INDICATED.
WALL BASE:	PROVIDE 5% OVERAGE
WALL TILE:	PROVIDE 5% OVERAGE
CARPET:	PROVIDE 5% OVERAGE
FLOOR TILE:	PROVIDE 5% OVERAGE
SHEET FLOORING:	PROVIDE 5% OVERAGE

2. INTERIOR HOLLOW METAL DOOR FRAMES SHALL BE PAINTED A SHERWIN WILLIAMS, SEMI GLOSS ENAMEL, COLOR: SW7037 BALANCED BEIGE
3. DOOR VIEW WINDOWS SHALL BE PAINTED A PPG, SEMI-GLOSS ENAMEL, TO MATCH HOLLOW METAL DOOR FRAMES.
4. INTERIOR LAMINATE DOORS SHALL BE WILSONART, 7935K-07, SHAKER CHERRY.
5. HOLLOW METAL DOORS SHALL BE PAINTED A SHERWIN WILLIAMS, SEMI-GLOSS, ENAMEL, TO MATCH EXISTING HOLLOW METAL DOORS.

CEILING NOTES

1. EDGES OF CUT CEILING TILE SHALL BE PAINTED WITH ARMSTRONG, 5761, TOUCH UP PAINT.
2. GRILLES, DIFFUSERS AND OTHER MISCELLANEOUS METAL LOCATED ON GYPSUM BOARD SURFACES SHALL BE PAINTED TO MATCH ADJACENT GYPSUM BOARD.
3. BULKHEADS INDICATED TO BE PAINTED AN ACCENT COLOR SHALL BE PAINTED ON ALL VERTICAL AND HORIZONTAL SURFACES.

WALL NOTES

1. ACCENT WALLS ARE INDICATED ON FINISH DRAWINGS.
2. CONTRACTOR SHALL REVIEW LOCATIONS OF ACCENT WALL PAINT WITH ARCHITECT IN THE FIELD PRIOR TO BEGINNING PAINTING ACTIVITIES.
3. GRILLES, DIFFUSERS AND OTHER MISCELLANEOUS METAL LOCATED ON GYPSUM BOARD SURFACES SHALL BE PAINTED TO MATCH ADJACENT GYPSUM BOARD.
4. WINDOW SILL FINISH SHALL BE CORIAN, COLOR: BONE.

FLOORING NOTES

1. FLOORING TRANSITIONS SHALL BE MADE AT CENTERLINE OF DOOR IN CLOSED POSITION. FLOORING TRANSITIONS THAT DO NOT OCCUR AT A DOOR ARE INDICATED ON FINISH DRAWINGS.
3. TRANSITIONS BETWEEN LUXURY VINYL FLOORING AND SHEET VINYL FLOORING. OR VINYL TILE FLOORING, SHALL BE MADE WITH A JOHNSONITE, TRANSITION STRIP, CTA-132-N, COLOR: 132 ESPRESSO, TRANSITION STRIP SHALL BE INSTALLED AT CENTER LINE OF DOOR IN THE CLOSED POSITION.
4. TRANSITIONS BETWEEN LUXURY VINYL FLOORING AND CARPET, OCCURRING AT A DOORWAY, SHALL BE MADE WITH A JOHNSONITE, TRANSITION STRIP, CTA-29-M, COLOR: MOONROCK, STRIP SHALL BE INSTALLED AT CENTER LINE OF DOOR IN THE CLOSED POSITION.
5. TRANSITIONS BETWEEN LUXURY VINYL FLOORING AND CARPET, NOT OCCURRING AT A DOORWAY, SHALL BE MADE WITH A LUXURY VINYL SCHLUTER STRIP, VINPRO-S, COLOR: BRUSHED NICKEL. TRANSITION LOCATION INDICATED ON FINISH PLANS AND PATTERN PLANS.
6. TRANSITIONS BETWEEN FLOOR FINISHES OF VARYING HEIGHTS SHALL BE ACCOMPLISHED BY FLOATING UP THE FLOOR OF THE LOWER MATERIAL FOR A DISTANCE OF NOT LESS THAN 48" TO ALLOW FOR THE TOP OF THE FINISHES TO BE EQUAL.

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Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

STEPHANIE PIERCE REGISTERED Stephanie Pierce No. AR12300102 02.28.2024 STATE OF INDIANA ARCHITECT

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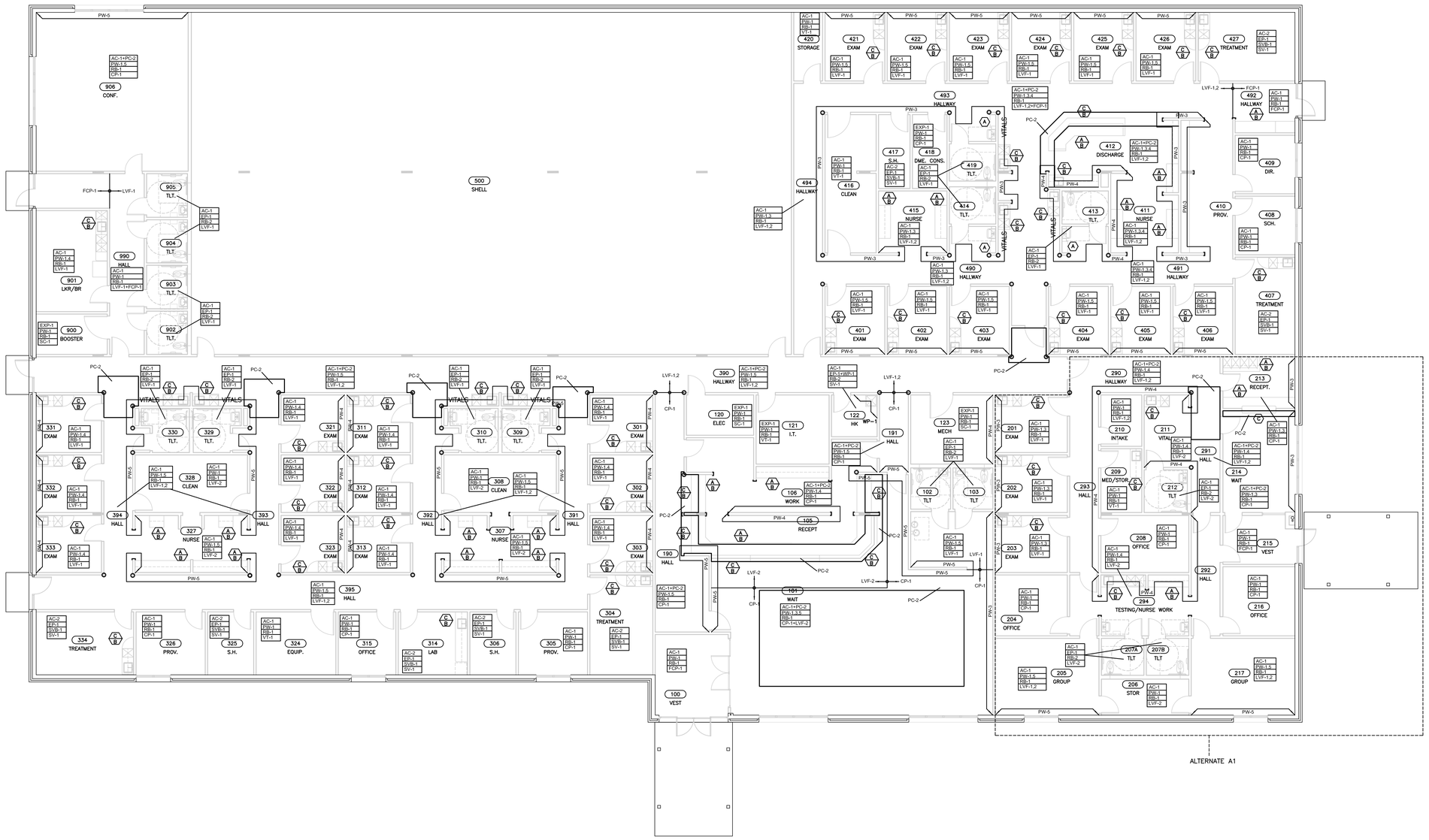
F0.1
FINISH SELECTIONS AND GENERAL NOTES

CONSTRUCTION DRAWINGS



NOTED FLOOR PLAN - FINISHES

PLAN NORTH 8' 0 8'

ALTERNATE A1

CONSTRUCTION DRAWINGS

JJCA
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STEPHANIE PIERCE REGISTERED ARCHITECT No.AR12300102 02.28.2024 STATE OF INDIANA

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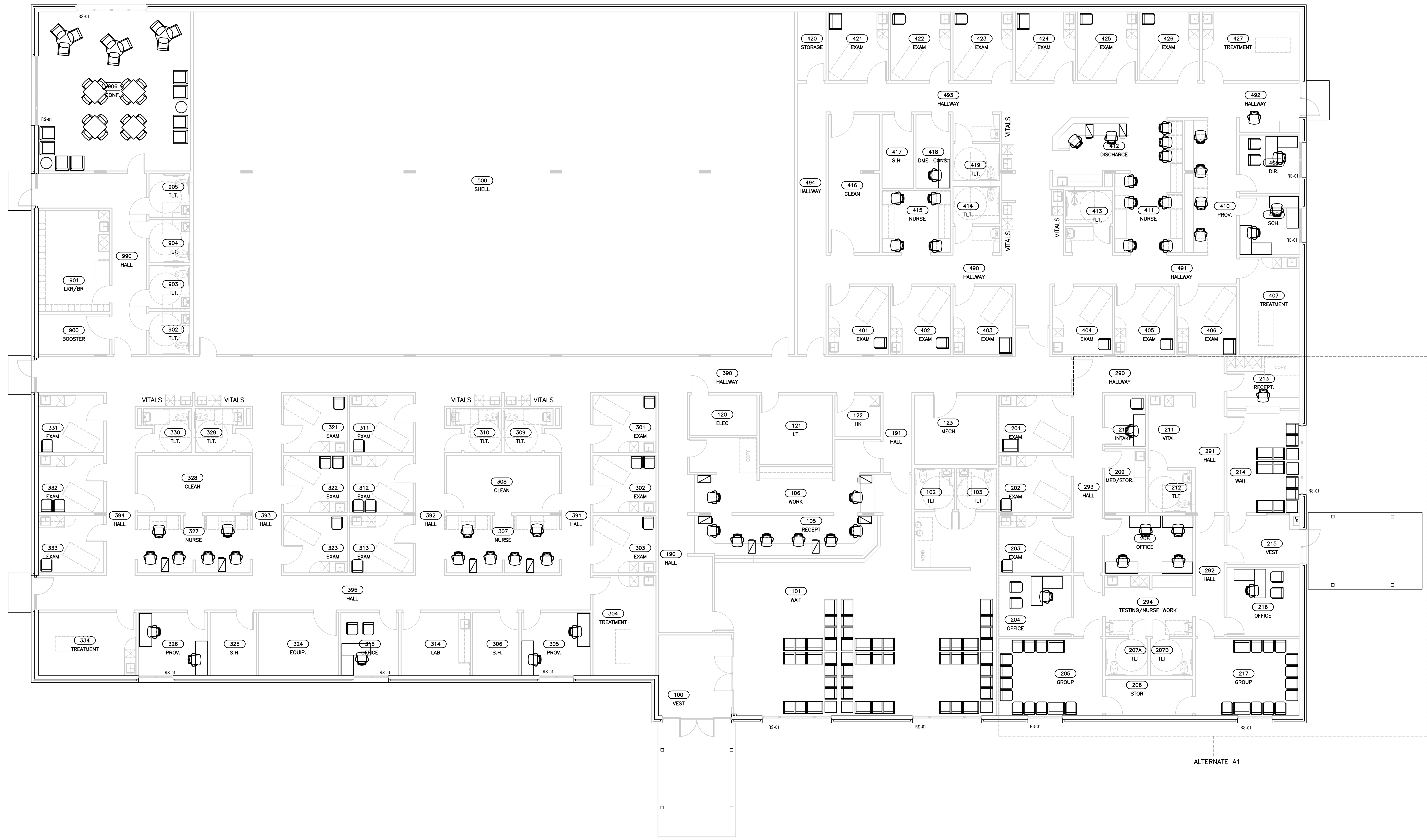
F1.1

FLOOR PLAN FINISHES



NOTED FLOOR PLAN - FURNITURE

PLAN NORTH 8' 0 8'

JJCA
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Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

STEPHANIE PULICE REGISTERED ARCHITECT No. AR12300185 02.28.2024 STATE OF INDIANA

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PROJECT NUMBER
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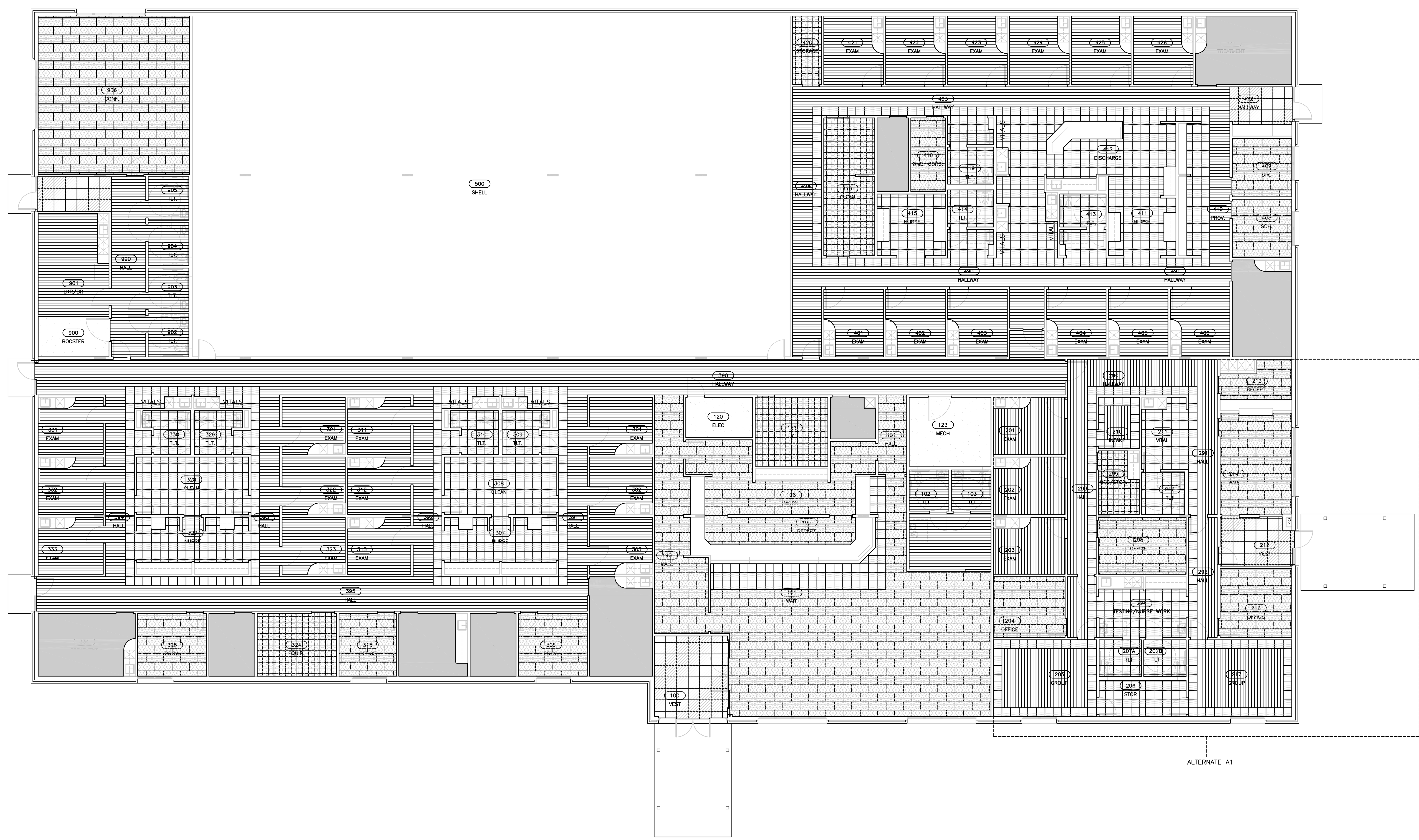
F2.1
FLOOR PLAN
FURNITURE

CONSTRUCTION DRAWINGS

FLOORING PATTERN KEY

FCP-1	SHAW CONTRACT, BON JOUR II, BLACK CHOCOLATE
CP-1	SHAW CONTRACT, JASPER TILE, ZIRCON
LVF-1	SHAW CONTRACT, UNCOMMON GROUND 6, CHOCOLATE CHERRY
LVF-2	SHAW CONTRACT, JEOGORI, FLAX
VT-1	TARKETT, I.Q. OPTIMA, TILE, SUMMER MOON
SV-1	TARKETT, I.Q. OPTIMA, SHEET, SUMMER MOON
SC-1	SEALED CONCRETE



NOTED FLOOR PLAN - FURNITURE

PLAN NORTH 8' 0 8'

JJCA
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Freestanding Medical Office Building Buildout for:
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Sullivan, Indiana

STEPHANIE POLICH REGISTERED No. AR12300185 02.28.2024 STATE OF INDIANA ARCHITECT

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F3.1
FLOOR PLAN PATTERN

CONSTRUCTION DRAWINGS

MECHANICAL LEGEND

(NOT ALL SYMBOLS MAY BE USED)

DUCTWORK

SYMBOL / ABBREVIATION	DESCRIPTION
	RECTANGULAR SUPPLY DUCT - UP
	RECTANGULAR SUPPLY DUCT - DOWN
	RECTANGULAR RETURN / EXHAUST DUCT - UP
	RECTANGULAR RETURN / EXHAUST DUCT - DOWN
	ROUND SUPPLY DUCT - UP
	ROUND SUPPLY DUCT - DOWN
	ROUND RETURN / EXHAUST DUCT - UP
	ROUND RETURN / EXHAUST DUCT - DOWN
	OVAL SUPPLY DUCT - UP
	OVAL SUPPLY DUCT - DOWN
	OVAL RETURN / EXHAUST DUCT - UP
	OVAL RETURN / EXHAUST DUCT - DOWN
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE/SMOKE DAMPER
MVD MVD	MANUAL VOLUME DAMPER
M M	MOTORIZED DAMPER
A A	AIR FLOW MONITORING STATION
DP DP	DIFFERENTIAL PRESSURE SENSOR
SP SP	STATIC PRESSURE SENSOR
CO CO	CARBON DIOXIDE DETECTOR
CO CO	CARBON MONOXIDE DETECTOR
D D	DUCT SENSOR
	TRAVERSE DUCT TEST AND BALANCE
H-XX H-XX HUM	HUMIDIFIER WITH IDENTIFICATION
	TRANSITION
	RADIUS ELBOW
	SQUARE THROAT ELBOW WITH TURNING VANES
	BRANCH DUCT CONNECTION RECTANGULAR OR ROUND BRANCH. RECTANGULAR TRUNK. MVD REQUIRED TO AIR DEVICES
R/D R/D	RISE/DROP IN ELEVATION
X X	SPLITTER WITH SPLIT SIZE SHOWN
X X	SPLITTER WITH SPLIT SIZES SHOWN
	BRANCH DUCT CONNECTION CONICAL TEE AND TAP ROUND TRUNK.
	BRANCH DUCT CONNECTION BEVELED TEE. ROUND TRUNK. MVD REQUIRED TO AIR DEVICES.

SYMBOL / ABBREVIATION	DESCRIPTION
12"X12" FACE / 24"X24" FACE	SUPPLY DIFFUSER AND AIR QUANTITY. BLANK OUTS INDICATE NO AIR FLOW IN THIS DIRECTION. (X DENOTES TYPE. SEE NOTE 1 OF AIR DISTRIBUTION DEVICE SCHEDULE)
SX	
RX	RETURN GRILLE AND AIR QUANTITY (X DENOTES TYPE)
EX	EXHAUST GRILLE AND AIR QUANTITY (X DENOTES TYPE)
100SX 100SX	LAMINAR FLOW SUPPLY DIFFUSER AND AIR FLOW QUANTITY (X DENOTES TYPE)
100	LINEAR SLOT DIFFUSER AND AIR FLOW QUANTITY
100	SCREENED OPENING AND AIR FLOW QUANTITY
AT-XX-XX	SOUND ATTENUATOR
XXX	HEATING COIL WITH IDENT.
XXX	ELECTRIC HEATING COIL WITH IDENT.
ATU-XX-XX XXX	AIR TERMINAL UNIT WITH IDENT. & MAX CFM
ATU-XX-XX XXX	AIR TERMINAL UNIT WITH IDENT., MIN AND MAX CFM
CB-XX-XX XXX	CHILLED BEAM WITH IDENT. & CFM
CFM	AIRFLOW TRANSFER RATE AT DOOR
CS	COLD DECK SUPPLY
DD	DRYER EXHAUST DUCT
DE	DISHWASHER EXHAUST
EA	EXHAUST AIR
GE	GREASE EXHAUST
HE	HOOD EXHAUST
HS	HOT DECK SUPPLY
IE	ISOLATION EXHAUST
LE	LAB EXHAUST
OA	OUTSIDE AIR
PE	PHARMACY EXHAUST
RA	RETURN AIR
SA	SUPPLY AIR LOW PRESSURE
SA	SUPPLY AIR MEDIUM PRESSURE
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
ATC	AUTOMATIC TEMPERATURE CONTROL PANEL
BDD	BACKDRAFT DAMPER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
DDC	DIRECT DIGITAL CONTROL
D.L.	INTERNAL DUCT LINING
FD	FIRE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
ML	MARINE LIGHT
MVD	MANUAL VOLUME DAMPER
OBD	OPPOSED BLADE DAMPER
SD	SMOKE DAMPER
SO	SCREENED OPENING
SWR	SIDEWALL REGISTER
SWG	SIDEWALL GRILLE
TG	TRANSFER GRILLE
UNO	UNLESS NOTED OTHERWISE
CONTROL DEVICES	
(T)	THERMOSTAT OR TEMP SENSOR
(H)	HUMIDISTAT OR HUMIDITY SENSOR
(DP)	DIFFERENTIAL PRESSURE SENSOR
(CO_2)	CARBON DIOXIDE SENSOR
(CO)	CARBON MONOXIDE SENSOR
(RM-X)	ROOM MONITOR
(EPO)	EMERGENCY POWER OFF
(NO_2)	NITROGEN DIOXIDE SENSOR
(R)	REFRIGERANT SENSOR

MECHANICAL EQUIPMENT NAMING CONVENTION

ABB.	DESCRIPTION	ABB.	DESCRIPTION	ABB.	DESCRIPTION
ATU	AIR TERMINAL UNIT	RTU	ROOFTOP PACKAGE UNIT	VFD	VARIABLE FREQUENCY DRIVE
EF	EXHAUST FAN	SAF	SUPPLY AIR FAN		
REF	RELIEF AIR FAN	SAT	SOUND ATTENUATOR		
RH	RADIANT HEAT PANEL	UH	UNIT HEATER		

EQUIPMENT NOMENCLATURE

EQUIPMENT IDENTIFICATION TAGS ARE COMPOSED AS FOLLOWS:

[EQUIPMENT TYPE] - [LEVEL & AREA] - [EQUIPMENT TAG NUMBER WITHIN EACH SECTOR]

EXAMPLE:

EXHAUST FAN — EF-4B-1 — LEVEL 4 & AREA B — EQUIPMENT TAG NUMBER OF 1

LEVELS:			AREA / QUAD / SECTOR:		
1 = LEVEL 1	4 = LEVEL 4	7 = LEVEL 7	A = AREA A	D = AREA D	G = AREA G
2 = LEVEL 2	5 = LEVEL 5	8 = LEVEL 8	B = AREA B	E = AREA E	H = AREA H
3 = LEVEL 3	6 = LEVEL 6	9 = LEVEL 9	C = AREA C	F = AREA F	I = AREA I

SHEET INDEX - FITOUT

MECHANICAL GENERAL NOTES

A. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILITY CONNECTIONS, AND ALL BUILDING SERVICES.

B. STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.

C. ALL DUCTWORK SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS IN INCHES. ALL DUCTWORK NOTED AS (D.L.) SHALL BE PROVIDED WITH INTERNAL DUCT LINING. REFER TO SPECIFICATION SECTION 230700 FOR DUCT INSULATION & LINING REQUIREMENTS.

D. MAJOR EQUIPMENT SHOWN ON THE PLANS AND ELEVATIONS ILLUSTRATE THE GENERAL ARRANGEMENT AND SPACE ALLOCATIONS. THE CONTRACTOR SHALL VERIFY THE SPACE REQUIREMENTS FOR EACH SYSTEM COMPONENT USING MANUFACTURER CERTIFIED SHOP DRAWINGS AND MAKE THE NECESSARY ADJUSTMENTS IN EQUIPMENT PLACEMENT AND CONNECTION IN ORDER TO ACCOMMODATE THE EXACT EQUIPMENT TO BE INSTALLED.

E. SUPPORTS, ANCHOR BOLTS, AND HANGERS FOR ALL EQUIPMENT SPECIFIED IN DIVISION 23 SHALL CONFORM TO THE SPECIFICATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL NEEDED TO SUPPORT EQUIPMENT SPECIFIED IN DIVISION 23 SHALL BE PART OF THE SCOPE OF WORK OF DIVISION 23.

F. DIFFUSERS, REGISTERS, AND GRILLES SHOWN ON THE MECHANICAL DRAWINGS SHALL BE IN ACCORDANCE WITH THE AIR DISTRIBUTION DEVICE SCHEDULE AND SPECIFICATIONS. BRANCH DUCTS TO AIR DEVICES SHALL BE IN ACCORDANCE WITH THE SCHEDULE UNLESS NOTED OTHERWISE.

G. FIRE/SMOKE DAMPERS SHALL BE INSTALLED IN DUCTWORK PENETRATIONS THROUGH RATED PARTITIONS, WALLS, BARRIERS, FLOORS, AND SHAFTS IN ACCORDANCE WITH THE PROJECT APPLICABLE BUILDING CODES. DAMPERS SHALL MEET THE REQUIREMENTS OF THE FIRE/SMOKE RATING AND BE "U.L." LABELED. REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATIONS AND RATINGS OF ALL WALLS AND FLOORS.

H. PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SLEEVED, SEALED AND FIRESAFED TO MAINTAIN THE INTEGRITY OF THE WALL AND FLOOR UL FIRE RESISTANCE RATING.

I. DUCTWORK AND LARGER ROUTED PARALLEL TO A RATED WALL SHALL BE INSTALLED WITH A MINIMUM 6" CLEARANCE TO ALLOW FOR INSPECTION OF WALL PENETRATIONS.

J. DUCTWORK STORED ON-SITE AWAITING INSTALLATION SHALL REMAIN PROPERLY SEALED AND PROTECTED. OPEN ENDS OF DUCTWORK SHALL BE CAPPED AND SEALED AFTER INSTALLATION.

K. SMOKE DETECTORS SHALL BE LOCATED AS INDICATED ON THE MECHANICAL PLANS AND IN CONFORMANCE WITH NFPA 90A AND LOCAL CODES.

L. CEILING DIFFUSER LOCATIONS SHALL BE AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS.

M. CEILING DIFFUSERS, REGISTERS AND GRILLES SHALL BE FURNISHED WITH MOUNTING FRAMES AND FEATURES IN ACCORDANCE WITH THE CEILING TYPE.

N. PROVIDE MANUAL BALANCING/VOLUME DAMPERS AT ALL LOW PRESSURE BRANCH TAKE-OFFS TO DIFFUSERS AND GRILLES FROM SUPPLY, RETURN AND EXHAUST MAINS AND SUB-MAINS, AND AT ALL LOW PRESSURE DUCT SPLITS OR SUB-MAIN TAKE-OFFS. DAMPERS SHALL BE INSTALLED ABOVE AN ACCESSIBLE CEILING OR ACCESS PANEL.

O. DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES. REFER TO SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.

P. MAINTAIN ACCESSIBILITY OF ALL EQUIPMENT, DAMPERS, CONTROL PANELS, VALVES, AND OTHER DEVICES. PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE PLACEMENT WITH THE ARCHITECT PRIOR TO INSTALLATION.

Q. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO CUTTING ANY OPENING IN THE STRUCTURE.

R. OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 25 FEET AWAY FROM PLUMBING VENTS, EXHAUST VENTS, AND OTHER SOURCES OF NOXIOUS FUMES AND/OR ODORS. INTAKES SHALL BE A MINIMUM OF 36" ABOVE FINISHED ROOF AND 72" ABOVE FINISHED GRADE.

S. IN RETURN AIR PLENUM APPLICATIONS, CONTRACTOR SHALL PROVIDE MINIMUM 32" X 16" ACOUSTICALLY LINED AIR TRANSFER OPENING WITH TOP OF OPENING TIGHT TO PLENUM DECK ABOVE ROOM ENTRY DOOR IN FULL-HEIGHT WALLS. PROVIDE FIRE AND/OR SMOKE DAMPERS AT PENETRATIONS OF ALL FIRE AND SMOKE RATED WALLS AS REQUIRED TO MEET WALL RATING. PROVIDE SMOKE DETECTORS AT INLET OF EACH OPENING IN RATED SMOKE WALLS. CONTRACTOR IS DIRECTLY RESPONSIBLE FOR THIS COORDINATION AND INSTALLATION OF AIR TRANSFER OPENINGS IN FULL-HEIGHT WALLS.

MECHANICAL COMMISSIONING COORDINATION

A. COMMISSIONING SHALL BE PROVIDED FOR THIS PROJECT PER THE IECC CHAPTER C408. THE COMMISSIONING AGENT SHALL BE DESIGNATED BY THE OWNER AND BE RESPONSIBLE FOR TASKS SPECIFIED BY IECC C408.2.1. MECHANICAL, TEST AND BALANCE, CONTROLS, AND ELECTRICAL CONTRACTORS SHALL PROVIDE SUPPORT FOR THE COMMISSIONING AGENT AS REQUIRED BY THE COMMISSIONING PLAN.

CONSTRUCTION DRAWINGS

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JJCA
Johnson Johnson Crabtree Architects P.C.

Freestanding Medical Office Building Buildout for:

Sullivan County Community Hospital

Sullivan, Indiana

MICHAEL B BURTON REGISTERED PE12102000 STATE OF INDIANA PROFESSIONAL ENGINEER

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Sheet Re-Issue Log

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February 28, 2024

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MECHANICAL LEGEND, NAMING CONVENTION AND INDEX

AIR DISTRIBUTION DEVICE SCHEDULE

GENERAL NOTES:
1. PROVIDE MOUNTING STYLE BASED ON CEILING TYPE INDICATED ON THE REFLECTED CEILING PLANS.
2. ALL AIR DISTRIBUTION DEVICES SHALL HAVE A MAXIMUM NC RATING OF 25.
3. IN AREAS WITH LAY-IN CEILINGS, PROVIDE LISTED PANEL SIZE.
4. IN AREAS WITH HARD CEILINGS, PROVIDE SURFACE MOUNTED TYPE AIR DISTRIBUTION DEVICE AT LISTED FACE SIZE WITHOUT PANEL.
5. ALL AIR DEVICES LOCATED IN INACCESSIBLE HARD CEILINGS SHALL BE PROVIDED WITH VOLUME DAMPERS (OPPOSED BLADE WHEN AVAILABLE).
6. CONTRACTOR SHALL PAINT THE INTERIOR OF RETURN/EXHAUST SQUARE TO ROUND TRANSITIONS AND PLENUMS FLAT BLACK.
7. PROVIDE TRANSITION AS REQUIRED FOR DUCT AND DEVICE CONNECTION.
8. RUNOUT DUCTS FOR RETURN/EXHAUST GRILLES SIZED AT MAXIMUM VELOCITY OF 600 FPM.
9. CEILING DIFFUSERS ARE 4-WAY THROW UNLESS NOTED OTHERWISE. INCREASE NECK SIZE ONE STEP FOR 2-WAY THROW AND PROVIDE BLANK OFF PLATES AS REQUIRED.
10. FACE, NECK, AND RUNOUT SIZES FOR SIDEWALL GRILLES ARE THE NOMINAL DUCT SIZE.
11. REFER TO FLOOR PLANS FOR LENGTHS OF TYPE S2 NOT REFLECTED IN THE SCHEDULE.
12. REFER TO SPECIFICATION SECTION 233700 FOR ADDITIONAL REQUIREMENTS.
13. SIDEWALL GRILLE FRONT BLADES SHALL BE PARALLEL TO THE FLOOR UNLESS NOTED OTHERWISE.

REMARKS:
A. FIELD EXTERNALLY INSULATED PLENUM/BACK PAN.
B. MANUFACTURER PROVIDED EXTERNAL INSULATION.
C. FACTORY LEAK TESTED.
D. MANUFACTURER PROVIDED BACK PLENUM WITH NECK OPENING SIZES AS INDICATED.
E. SOUND BOOT. REFER TO DETAIL 4/M5.2.
F. FACTORY WHITE FINISH.
G. PROVIDE BLANK OFF PLATES FOR UNUSED PORTIONS OF CONTINUOUS SLOT.
H. HEAVY DUTY CONSTRUCTION.

DESIGNATION	CFM RANGE MIN.	CFM RANGE MAX.	MANUFACTURER	MODEL	TYPE	LOCATION	FACE SIZE (IN.)	NECK SIZE (IN.)	RUNOUT SIZE (IN.)	PANEL SIZE (IN.)	REMARKS
E1											
E1	0	190	TITUS	50F	1/2 IN. EGGCRATE	CEILING	24x24	8 DIA.	8 DIA./10x6	24x24	D
E1	195	280	TITUS	50F	1/2 IN. EGGCRATE	CEILING	24x24	10 DIA.	10 DIA./12x8	24x24	D
E1	285	460	TITUS	50F	1/2 IN. EGGCRATE	CEILING	24x24	12 DIA.	12 DIA./14x10	24x24	D
E1	465	620	TITUS	50F	1/2 IN. EGGCRATE	CEILING	24x24	14 DIA.	14 DIA./16x10	24x24	D
R1											
R1	0	190	TITUS	50F	1/2 IN. EGGCRATE	CEILING	24x24	8 DIA.	8 DIA./10x6	24x24	D
R1	195	280	TITUS	50F	1/2 IN. EGGCRATE	CEILING	24x24	10 DIA.	10 DIA./12x8	24x24	D
R1	285	460	TITUS	50F	1/2 IN. EGGCRATE	CEILING	24x24	12 DIA.	12 DIA./14x10	24x24	D
S1											
S1	0	90	TITUS	TMS	LOUVERED FACE	CEILING	24x24	6 DIA./8x4	6 DIA./8x4	24x24	-
S1	95	190	TITUS	TMS	LOUVERED FACE	CEILING	24x24	8 DIA.	8 DIA./10x6	24x24	-
S1	195	320	TITUS	TMS	LOUVERED FACE	CEILING	24x24	10 DIA.	10 DIA./12x8	24x24	-
S1	325	450	TITUS	TMS	LOUVERED FACE	CEILING	24x24	12 DIA.	12 DIA./14x10	24x24	-
S2											
S2	165	230	TITUS	ML-39	LINEAR SLOT 3-1 INCH SLOTS @48 INCHES LONG	CEILING	N/A	12x6 OVAL	10 DIA./12x8	N/A	A,G
S2	235	350	TITUS	ML-39	LINEAR SLOT 4-1 INCH SLOTS @48 INCHES LONG	CEILING	N/A	14x8 OVAL	12 DIA./14x10	N/A	A,G
S5											
S5	0	21700	TITUS	300R	DOUBLE DEFLECTION 3/4 INCH BLADE SPACING	SIDEWALL	SEE FLOOR PLANS	SEE FLOOR PLANS	SEE FLOOR PLANS	N/A	-
TG1											
TG1	0	1100	TITUS	50F	1/2 IN. EGGCRATE	CEILING	24x24	22x22	22x22	24x24	D, E

AIR TERMINAL UNITS SCHEDULE - ELECTRIC

GENERAL NOTES:
1. UNIT INLET SIZE SHOWN IS MINIMUM ACCEPTABLE.
2. NOISE CRITERIA (NC) SHALL BE DETERMINED USING AHRI STANDARD 885-2008 APPENDIX E WITH SOLID LINER AND 1" THICK INSULATION AT THE INDICATED MAXIMUM INLET STATIC PRESSURE.
3. FACTORY-PROVIDED MINIMUM AIRFLOW SWITCH.
4. UNIT TO MEET MINIMUM VELOCITY FOR ELECTRIC HEATING AT SCHEDULED HEATING AIRFLOW.

REMARKS:
A. DEMAND CONTROLLED VENTILATION. PROVIDE CO2 SENSOR AS SHOWN ON PLANS.
B. NIGHT SETBACK TO UNOCCUPIED AIRFLOW.

DESIGNATION	AHU	OCC. COOLING MAX (CFM)	OCC. HEATING MAX (CFM)	OCC. MIN. (CFM)	UNOCC. MIN. (CFM)	INLET SIZE (IN.)	DUCT RUNOUT SIZE (IN.)	EAT (°F)	LAT (°F)	KW	STEPS	MAX. APD (IN. W.G.)	MAX NC DIS	MAX NC RAD	ELECTRICAL HEATER MCA	ELECTRICAL HEATER MCOP	ELECTRICAL VOLTS / PH	ELECTRICAL CONTROL VOLTAGE	REMARKS
ATU-1-01	RTU-1	710	710	355	355	10	12	55	90	7.5	SCR	0.10	24	25	26.0	30	208 / 3	24V	B
ATU-1-02	RTU-1	450	450	450	450	8	10	55	92	5	SCR	0.10	26	28	17.3	20	208 / 3	24V	
ATU-1-03	RTU-1	210	210	210	210	6	8	55	94	2.5	SCR	0.10	34	26	15.0	20	208 / 1	24V	
ATU-1-04	RTU-1	210	210	210	210	6	8	55	94	2.5	SCR	0.10	34	26	15.0	20	208 / 1	24V	
ATU-1-05	RTU-1	410	255	205	205	8	10	55	94	3	SCR	0.10	25	27	18.0	20	208 / 1	24V	B
ATU-1-06	RTU-1	570	570	570	570	8	10	55	90	6	SCR	0.10	29	29	20.8	25	208 / 3	24V	
ATU-1-07	RTU-1	480	480	480	480	8	10	55	89	5	SCR	0.10	26	28	17.3	20	208 / 3	24V	
ATU-1-08	RTU-1	210	210	210	210	6	8	55	94	2.5	SCR	0.10	34	26	15.0	20	208 / 1	24V	
ATU-1-09	RTU-1	450	450	450	450	8	10	55	92	5	SCR	0.10	26	28	17.3	20	208 / 3	24V	
ATU-1-10	RTU-1	500	435	250	250	8	10	55	93	5	SCR	0.10	27	29	17.3	20	208 / 3	24V	B
ATU-1-11	RTU-1	790	395	395	395	10	12	55	93	4.5	SCR	0.10	25	26	15.6	20	208 / 3	24V	B
ATU-1-12	RTU-1	1,140	570	570	570	12	14	55	90	6	SCR	0.10	25	29	20.8	25	208 / 3	24V	A, B
ATU-1-13	RTU-1	660	345	330	330	8	10	55	93	4	SCR	0.10	29	30	13.9	15	208 / 3	24V	B
ATU-1-14	RTU-1	200	100	100	100	6	8	55	88	1	SCR	0.10	34	26	6.0	15	208 / 1	24V	B
ATU-1-15	RTU-1	490	455	245	245	8	10	55	91	5	SCR	0.10	27	29	17.3	20	208 / 3	24V	B
ATU-1-27	RTU-1	360	235	210	210	6	8	55	90	2.5	SCR	0.10	37	32	15.0	20	208 / 1	24V	B
ATU-1-29	RTU-1	690	690	690	690	10	12	55	91	7.5	SCR	0.10	24	25	26.0	30	208 / 3	24V	
ATU-1-31	RTU-1	150	145	75	75	6	8	55	89	1.5	SCR	0.10	34	26	9.0	15	208 / 1	24V	B
ATU-1-32	RTU-1	750	375	375	375	8	10	55	90	4	SCR	0.10	34	26	24.0	25	208 / 1	24V	B
ATU-1-33	RTU-1	750	375	375	375	8	10	55	90	4	SCR	0.10	34	26	24.0	25	208 / 1	24V	B
ATU-2-01	RTU-2	460	460	460	460	8	10	56	91	5	SCR	0.10	26	28	30.0	35	208 / 3	24V	
ATU-2-02	RTU-2	490	490	490	490	8	10	56	92	5.5	SCR	0.10	27	29	19.1	20	208 / 3	24V	
ATU-2-03	RTU-2	700	430	430	430	8	10	56	90	4.5	SCR	0.10	29	30	27.0	30	208 / 1	24V	B
ATU-2-04	RTU-2	470	295	295	295	8	10	56	94	3.5	SCR	0.10	26	28	21.0	25	208 / 1	24V	B
ATU-2-05	RTU-2	740	370	370	370	10	12	56	91	4	SCR	0.10	24	25	24.0	25	208 / 1	24V	B
ATU-2-06	RTU-2	710	440	440	440	10	12	56	93	5	SCR	0.10	24	25	30.0	35	208 / 1	24V	B
ATU-2-07	RTU-2	500	500	500	500	8	10	56	91	5.5	SCR	0.10	27	29	19.1	20	208 / 3	24V	
ATU-2-08	RTU-2	1,400	700	700	700	12	14	56	90	7.5	SCR	0.10	26	30	26.0	30	208 / 3	24V	A
ATU-2-09	RTU-2	840	420	420	420	10	12	56	90	4.5	SCR	0.10	25	26	27.0	30	208 / 1	24V	B
ATU-2-11	RTU-2	1,400	700	700	700	12	14	56	90	7.5	SCR	0.10	26	30	26.0	30	208 / 3	24V	B
ATU-2-12	RTU-2	1,400	700	700	700	12	14	56	90	7.5	SCR	0.10	26	30	26.0	30	208 / 3	24V	B

AIR TERMINAL UNITS SCHEDULE - COOLING ONLY

GENERAL NOTES:
1. UNIT INLET SIZE SHOWN IS MINIMUM ACCEPTABLE.
2. NOISE CRITERIA (NC) SHALL BE DETERMINED USING AHRI STANDARD 885-2008 APPENDIX E WITH SOLID LINER AND 1" THICK INSULATION AT THE INDICATED MAXIMUM INLET STATIC PRESSURE.

REMARKS:
A. DEMAND CONTROLLED VENTILATION.
B. NIGHT SETBACK.

DESIGNATION	AHU	OCC. COOLING MAX (CFM)	OCC. MIN. (CFM)	UNOCC. MIN. (CFM)	INLET SIZE (IN.)	DUCT RUNOUT SIZE (IN.)	EAT (°F)	LAT (°F)	MAX. APD (IN. W.G.)	MAX. INLET S.P. (IN. W.G.)	MAX NC DIS	MAX NC RAD	ELECTRICAL CONTROL VOLTAGE	REMARKS
ATU-1-24	RTU-1	230	115	0	6	8	55	55	0.10	1.00	34	26	24V	B
ATU-1-25	RTU-1	170	85	0	6	8	55	55	0.10	1.00	34	26	24V	B

AIR TERMINAL UNITS SCHEDULE - ELECTRIC (ALTERNATE)

GENERAL NOTES:
1. UNIT INLET SIZE SHOWN IS MINIMUM ACCEPTABLE.
2. NOISE CRITERIA (NC) SHALL BE DETERMINED USING AHRI STANDARD 885-2008 APPENDIX E WITH SOLID LINER AND 1" THICK INSULATION AT THE INDICATED MAXIMUM INLET STATIC PRESSURE.
3. MANUFACTURER TO BE THE SAME AS RTU INSTALLED DURING SHELL PACKAGE. WIFI AND WEB BASED CONTROLS BY RTU MANUFACTURER.

REMARKS:
A. DEMAND CONTROLLED VENTILATION. PROVIDE CO2 SENSOR AS SHOWN ON PLANS.
B. NIGHT SETBACK TO UNOCCUPIED AIRFLOW.

DESIGNATION	AHU	OCC. COOLING MAX (CFM)	OCC. HEATING MAX (CFM)	OCC. MIN. (CFM)	UNOCC. MIN. (CFM)	INLET SIZE (IN.)	DUCT RUNOUT SIZE (IN.)	EAT (°F)	LAT (°F)	KW	STEPS	MAX. APD (IN. W.G.)	MAX NC DIS	MAX NC RAD	ELECTRICAL HEATER MCA	ELECTRICAL HEATER MCOP	ELECTRICAL VOLTS / PH	ELECTRICAL CONTROL VOLTAGE	REMARKS
ATU-1-16	RTU-1	510	510	255	255	8	10	55	91	5.5	SCR	0.10	27	29	19.1	20	208 / 3	24V	B
ATU-1-17	RTU-1	240	240	240	240	6	8	55	89	2.5	SCR	0.10	35	27	15.0	20	208 / 1	24V	
ATU-1-18	RTU-1	490	245	245	245	8	10	55	89	2.5	SCR	0.10	27	29	15.0	20	208 / 1	24V	B
ATU-1-19	RTU-1	500	490	250	250	8	10	55	92	5.5	SCR	0.10	27	29	19.1	20	208 / 3	24V	A, B
ATU-1-20	RTU-1	370	310	185	185	6	8	55	92	3.5	SCR	0.10	37	32	12.1	15	208 / 3	24V	A, B
ATU-1-21	RTU-1	390	255	195	195	8	10	55	94	3	SCR	0.10	25	27	18.0	20	208 / 1	24V	B
ATU-1-22	RTU-1	820	635	410	410	10	12	55	91	7	SCR	0.10	25	26	24.3	25	208 / 3	24V	A, B
ATU-1-26	RTU-1	550	275	275	275	8	10	55	91	3	SCR	0.10	27	29	10.4	15	208 / 3	24V	B

AIR CURTAIN SCHEDULE

GENERAL NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PIPE CONNECTION SIZES PER PLANS.
3. CONTROL SEQUENCE PER DRAWINGS.
4. SEE ELECTRICAL DRAWINGS FOR STARTER AND LOCATION.

REMARKS:
A. EMERGENCY POWER.
B. MICRO-SWITCH ON DOOR FOR START/STOP CONTROL.
C. WALL THERMOSTAT.
D. CAPACITY BASED ON 65°F EAT.
E. INTEGRAL DISCONNECT SWITCH.
F. INTEGRAL ADJUSTABLE SWITCH CONTROLLER.
G. HANGING BRACKET/ROD.
H. BACnet INTEGRATION.
I. GLYCOL FLUID.
J. 3-SPEED MOTOR.
K. 1" TA FILTER.

DESIGNATION	LOCATION	MANUFACTURER	MODEL NUMBER	MOUNTING	NOZZLE WIDTH (IN.)	SIZE H X D (IN.)	MAX. NOZZLE VEL. (FPM)	CFM	AIR TEMP RISE (° F)	HEATING COIL ELECTRIC KW	HEATING COIL ELECTRIC VOLT/PH	OPERATING WEIGHT (LBS)	MOTOR QTY	MOTOR HP	MOTOR VOLT/PH	UNIT ELECTRICAL NO. CKTS	UNIT ELECTRICAL FLA (EA.)	UNIT ELECTRICAL MOCP	REMARKS
DAC-1	VEST 100	BERNER	ARD12-1060E	TOP	66	15x26	4,830	1,030	27	14	208/3	150	1	1/2	208/3	1	43.2	60	C,E,F,H,K

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JJCA
Johnson Johnson Crabtree Architects P.C.

Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

MICHAEL B. BURTON REGISTERED (PE12120490) STATE OF INDIANA PROFESSIONAL ENGINEER
02.28.24

Sheet Re-Issue Log
(Individual revisions clouded and labeled within each sheet)

Project Number
23987.02

DATE
February 28, 2024

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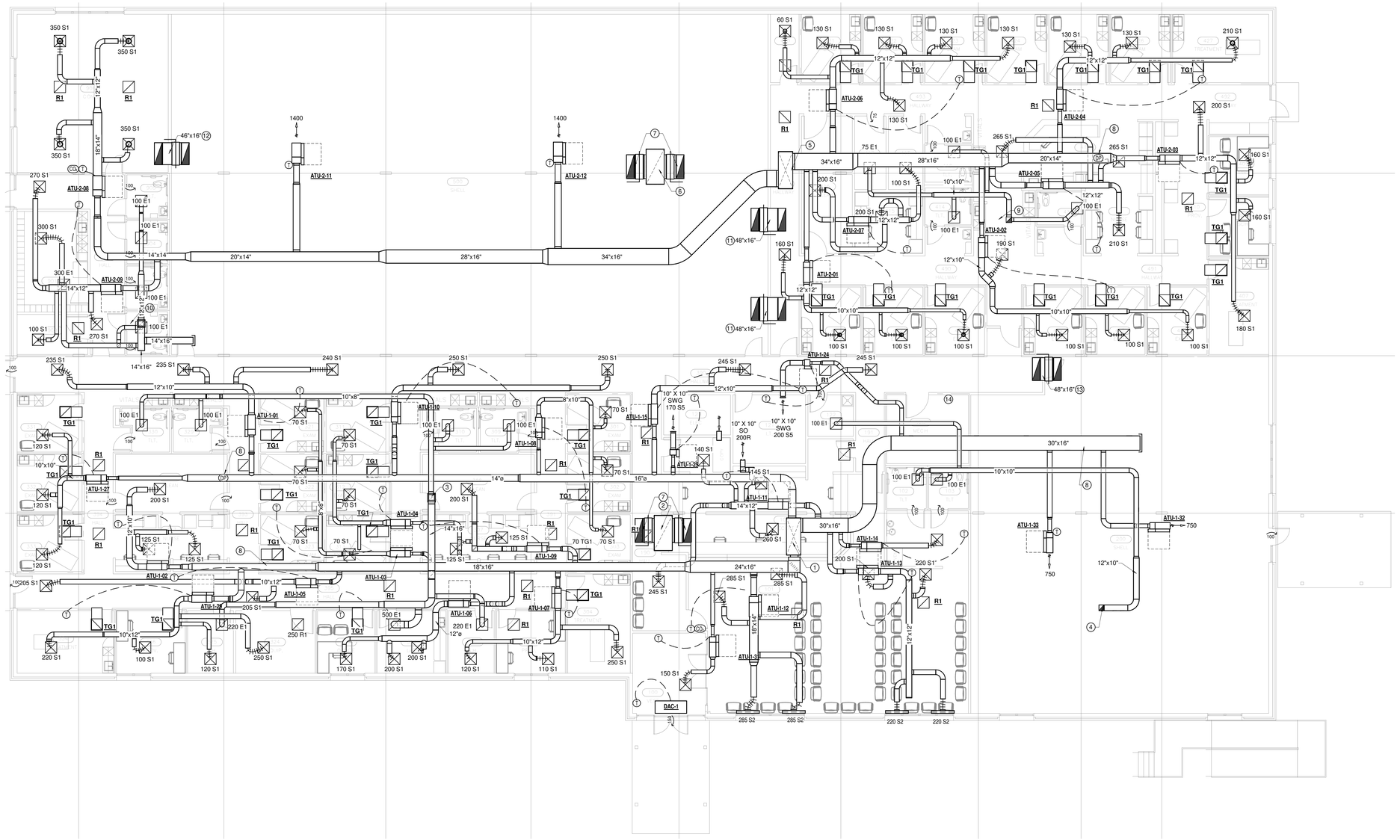
MECHANICAL SCHEDULES

CONSTRUCTION DRAWINGS

SHEET KEYED NOTES

1. 30"x78" SUPPLY DOWN FROM RTU-1 ON ROOF. LOCATE DUCT MOUNTED SMOKE DETECTOR IN DUCT DROP.
2. 38"x74" RETURN UP TO RTU-1 ON ROOF. LOCATE DUCT MOUNTED SMOKE DETECTOR IN DUCT DROP. EXTERNALLY INSULATE WITH 1-1/2" FIBERGLASS FOR NOISE ATTENUATION.
3. 18"x16" EXHAUST UP TO EF-1-1 ON ROOF.
4. 12"X10" EXHAUST UP TO EF-1-2 ON ROOF.
5. 30"x78" SUPPLY DOWN FROM RTU-2 ON ROOF. LOCATE DUCT MOUNTED SMOKE DETECTOR IN DUCT DROP.
6. 38"x74" RETURN UP TO RTU-2 ON ROOF. LOCATE DUCT MOUNTED SMOKE DETECTOR IN DUCT DROP. EXTERNALLY INSULATE WITH 1-1/2" FIBERGLASS FOR NOISE ATTENUATION.
7. 50"x16" RETURN DUCT TO TURN UP TO FACE ROOF DUCT ABOVE. COVER WITH 1/2"x1/2" HARDWARE CLOTH. EXTERNALLY INSULATE WITH 1-1/2" FIBERGLASS FOR NOISE ATTENUATION.
8. DUCT STATIC PRESSURE SENSOR.
9. 12"x12" EXHAUST UP TO EF-2-2 ON ROOF.
10. 16"x16" EXHAUST UP TO EF-2-1 ON ROOF.
11. 48"x16" RETURN TRANSFER DUCT. BALANCE TO 2,035 CFM.
12. 46"x16" RETURN TRANSFER DUCT. BALANCE TO 2,240 CFM.
13. 48"x16" RETURN TRANSFER DUCT. BALANCE TO 1,400 CFM.
14. PROVIDE PERMANENT MOUNTED 12" OR LARGER TABLET WITH WIFI CONNECTIVITY FOR OWNER CONTROL OF WEB BASED BAS SYSTEM. ATU MANUFACTURER TO SETUP TABLET FOR OWNER AND INCLUDE WITH OWNER TRAINING.



1 MECHANICAL FLOOR PLAN
1/8" = 1'-0"

CONSTRUCTION DRAWINGS

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JJCA
Johnson Johnson Crabtree Architects P.C.

Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

MICHAEL B BURTON
REGISTERED
PE21200
STATE OF
INDIANA
PROFESSIONAL ENGINEER
02.28.24

Sheet Re-Issue Log
(Individual revisions clouded and labeled within each sheet)

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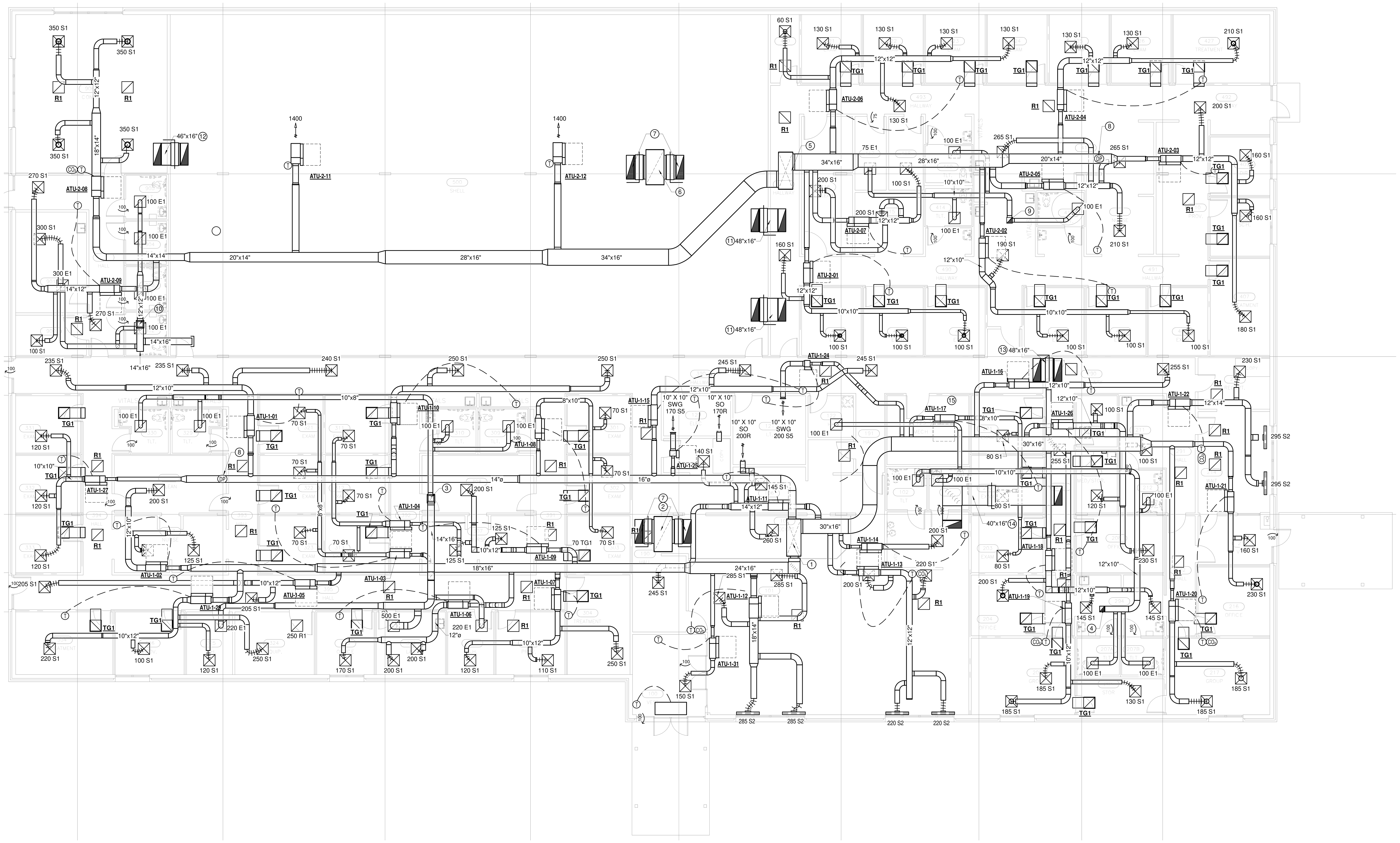
February 28, 2024

M1.2

MECHANICAL FLOOR PLAN

SHEET KEYED NOTES

1. 30"x78" SUPPLY DOWN FROM RTU-1 ON ROOF. LOCATE DUCT MOUNTED SMOKE DETECTOR IN DUCT DROP.
2. 38"x74" RETURN UP TO RTU-1 ON ROOF. LOCATE DUCT MOUNTED SMOKE DETECTOR IN DUCT DROP. EXTERNALLY INSULATE WITH 1-1/2" FIBERGLASS FOR NOISE ATTENUATION.
3. 18"x16" EXHAUST UP TO EF-1-1 ON ROOF.
4. 12"X10" EXHAUST UP TO EF-1-2 ON ROOF.
5. 30"x78" SUPPLY DOWN FROM RTU-2 ON ROOF. LOCATE DUCT MOUNTED SMOKE DETECTOR IN DUCT DROP.
6. 38"x74" RETURN UP TO RTU-2 ON ROOF. LOCATE DUCT MOUNTED SMOKE DETECTOR IN DUCT DROP. EXTERNALLY INSULATE WITH 1-1/2" FIBERGLASS FOR NOISE ATTENUATION.
7. 50"x16" RETURN DUCT TO TURN UP TO FACE ROOF DUCT ABOVE. COVER WITH 1/2"x1/2" HARDWARE CLOTH. EXTERNALLY INSULATE WITH 1-1/2" FIBERGLASS FOR NOISE ATTENUATION. BALANCE TO 4,560 CFM EA.
8. DUCT STATIC PRESSURE SENSOR.
9. 12"x12" EXHAUST UP TO EF-2-2 ON ROOF.
10. 16"x16" EXHAUST UP TO EF-2-1 ON ROOF.
11. 48"x16" RETURN TRANSFER DUCT. BALANCE TO 2,035 CFM.
12. 46"x16" RETURN TRANSFER DUCT. BALANCE TO 2,240 CFM.
13. 48"x16" RETURN TRANSFER DUCT. BALANCE TO 2,670 CFM.
14. 40"x16" RETURN TRANSFER DUCT. BALANCE TO 2,225 CFM.
15. PROVIDE PERMANENT MOUNTED 12" OR LARGER TABLET WITH WIFI CONNECTIVITY FOR OWNER CONTROL OF WEB BASED BAS SYSTEM. ATU MANUFACTURER TO SETUP TABLET FOR OWNER AND INCLUDE WITH OWNER TRAINING.



1 MECHANICAL FLOOR PLAN - ALTERNATE

1/8" = 1'-0"

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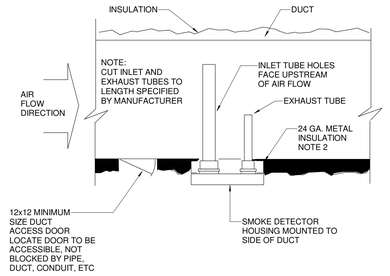
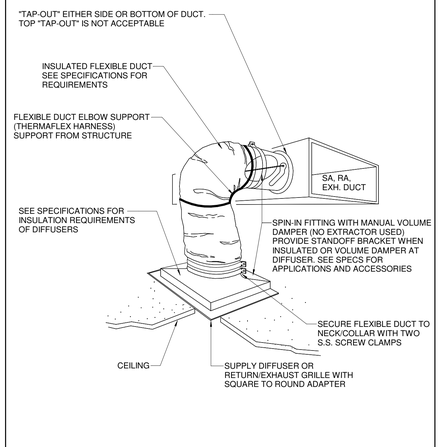
MECHANICAL FLOOR PLAN - ALTERNATE

CONSTRUCTION DRAWINGS

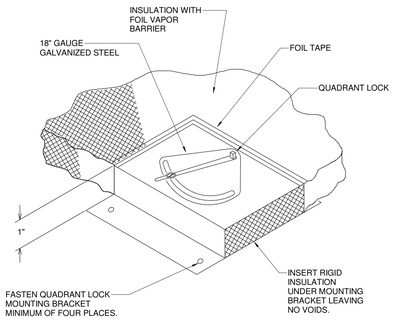


N O T E S:
1. DETAIL SHOWS GENERAL INSTALLATION METHODS. REFER TO INDIVIDUAL MANUFACTURER FOR THEIR SPECIFIC INSTALLATION AND LOCATION INSTRUCTIONS.
2. STANDOFF BRACKET NOT REQUIRED ON NON-INSULATED DUCT.
3. INSTALL DETECTOR WITHIN 5'-0" OF EACH FIRE AND SMOKE DAMPER WITH NO AIR INLETS OR OUTLETS BETWEEN DETECTOR AND DAMPER.
4. IT IS PREFERABLE TO INSTALL DETECTOR UPSTREAM BUT DOWNSTREAM IS ACCEPTABLE IF BETTER ACCESSIBILITY.

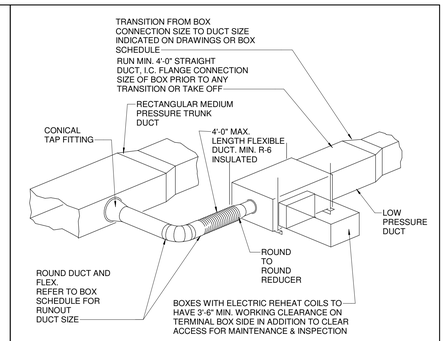
DUCT MOUNTED SMOKE DETECTOR | 7



DUCTWORK CONN. TO SUPPLY DIFFUSER OR RETURN/EXHAUST GRILLE (FLEX DUCT) | 3



QUADRANT LOCK DETAIL | 2



N O T E S :
1. THIS DETAIL REFERS TO VAV AND CONSTANT VOLUME ELECTRIC REHEAT BOXES AND VAV BOXES WITHOUT REHEAT.
2. FLEX DUCT TO ALLOW ONE BEND WITH CENTERLINE RADIUS NOT LESS THAN 1 1/2 DUCT DIAMETERS.
3. TAP FITTING TO RECTANGULAR MEDIUM PRESSURE DUCT MAY ALSO BE RECTANGULAR 45° ENTRY, SIZED PER SMACNA RECOMMENDATIONS, AND THEN TRANSITIONING TO ROUND.
4. MEDIUM PRESSURE ROUND TRUNK DUCT TO HAVE CONICAL TEE FITTING, WITH OTHER REQUIREMENTS AS SHOWN.
5. BOXES 1,400 CFM OR LESS TO BE SUPPORTED WITH 1"x18 GA. GALVANIZED BAND IRON ON FOUR CORNERS. BOXES GREATER THAN 1,400 CFM SHALL HAVE TRAPEZE SUPPORT OR REINFORCING ANGLE WITH 3/8" GALVANIZED ALL THREAD ROD HANGERS.
6. COORDINATE REQUIREMENT FOR CEILING ACCESS PANELS WITH DIVISION 8.

AIR TERMINAL UNIT (ELECTRIC REHEAT BOX) | 1

* = BRANCH TO INDIVIDUAL DIFFUSER OR GRILLE

** = SUBMAIN, BRANCHMAIN , OR BRANCH.

LOW PRESSURE DUCT VOLUME DAMPER REQUIREMENTS | 5

RETURN / TRANSFER AIR SOUND BOOT | 4

CONSTRUCTION DRAWINGS

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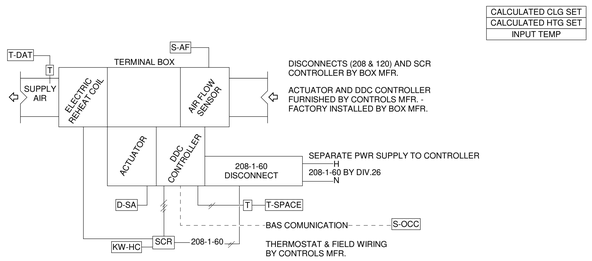
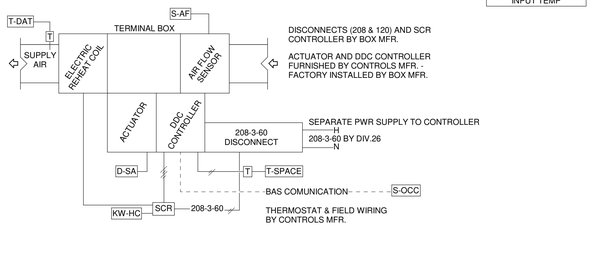
M5.2
MECHANICAL DETAILS - TENANT





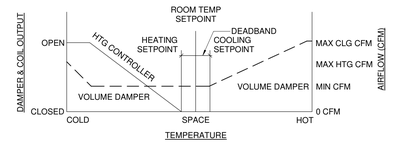
ZONE CO2 DIFFERENTIAL SETPOINTS			
SYSTEM	SPACE	TERMINAL UNIT	CO2 MAX SETPOINT
RTU-1	WAIT 101	ATU-1-12	790 ppm
RTU-1	GROUP 205	ATU-1-19	1020 ppm
RTU-1	GROUP 217	ATU-1-20	1020 ppm
RTU-1	WAIT 214	ATU-1-22	1020 ppm
RTU-2	CONF 906	ATU-2-08	1200 ppm

REFER TO SHELL CONTROLS ON M7.1 FOR DCV SEQUENCE OF OPERATIONS.

HVAC CONTROL SIGNAL LEGEND - TERMINAL AIR BOX CONTROL - ELECTRIC REHEAT

SIGNAL LEGEND IS A DESCRIPTION OF POINTS AND NOT A QUANTITATIVE POINTS LIST. CONTRACTOR SHALL DEVELOP POINTS LIST BASED ON SCOPE OF PROJECT.
ACTION: "A"= ANALOG/MODULATING; "B"= BINARY/TWO POSITION.
ALL POINTS LISTED IN "BAS VALUE" OR "BAS ALARM" SHALL BE SHOWN ON GRAPHICAL DISPLAY.

TAG	DEVICE	ACTION	FAIL POSITION	BAS VALUE	BAS ALARM	NOTES
PHYSICAL POINTS						
D-SA	DAMPER - SUPPLY AIR	A	LAST POSITION	% OPEN		
KW-HC	POWER OUTPUT - HEATING COIL	A	LAST POSITION	KW		
S-AF	AIR FLOW SENSOR	B				
S-OCC	OCCUPANCY SENSOR	B		OCC/UNOCC		
T-DAT	TEMPERATURE - DISCHARGE AIR TEMP SENSOR	A		DEG °F	DAT > HIGH LIMIT SETPOINT + 2°F	
T-SPACE	TEMPERATURE - SPACE TEMP SENSOR	A		DEG °F		
VIRTUAL POINT						
CALCULATED CLG SET	COOLING TEMP SETPOINT	CALCULATED		DEG °F	ROOM TEMP > CLG SETPOINT + 2 °F	OCCUPIED MODE: CLG SETPOINT = ROOM TEMP SETPOINT +2.0 °F; UNOCCUPIED = 80 °F
CALCULATED HTG SET	HEATING TEMP SETPOINT	CALCULATED		DEG °F	ROOM TEMP < HTG SETPOINT - 2 °F	OCCUPIED MODE: HTG SETPOINT = ROOM TEMP SETPOINT -2.0 °F; UNOCCUPIED = 65 °F
INPUT TEMP	ROOM TEMPERATURE SETPOINT	INPUT		DEG °F		OCCUPIED MODE: ALLOWABLE RANGE 68-75 °F



VARIABLE AIR VOLUME BOX CONTROL

UPON A RISE IN ROOM TEMPERATURE ABOVE COOLING TEMPERATURE SETPOINT , BOX AIR DAMPER SHALL OPEN.

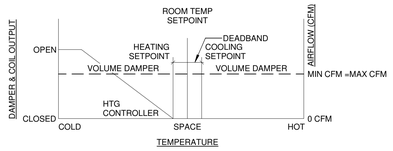
UPON A FALL IN ROOM TEMPERATURE BELOW COOLING TEMPERATURE SETPOINT, BOX AIR DAMPER SHALL MODULATE CLOSED UNTIL IT REACHES MINIMUM COOLING AIR FLOW.

UPON A CONTINUED FALL IN ROOM TEMPERATURE BELOW HEATING TEMPERATURE SETPOINT, BOX AIR DAMPER SHALL STAY AT MINIMUM AIR FLOW AND HEATING CONTROLLER SHALL BEGIN TO MODULATE TO INCREASE HEAT. HEATING CONTROLLER POSITION SHALL BE LIMITED SO THAT DISCHARGE AIR TEMPERATURE SHALL NOT EXCEED HIGH LIMIT SETPOINT.

UPON A CONTINUED FALL IN ROOM TEMPERATURE BELOW HEATING TEMPERATURE SETPOINT AND AFTER HEATING CONTROLLER IS AT MAX CAPACITY OR DISCHARGE AIR TEMPERATURE HAS REACHED HIGH LIMIT SETPOINT, BOX AIR DAMPER SHALL BEGIN TO MODULATE OPEN. HEATING CONTROLLER POSITION SHALL BE LIMITED TO NOT EXCEED DISCHARGE AIR TEMPERATURE HIGH LIMIT SETPOINT AS BOX AIR DAMPER MODULATES.

IF BOX HAS UNOCCUPIED CFM SETTING, THE BOX SHALL ADJUST CFM TO "UNOCCUPIED" CFM WHEN SPACE IS UNOCCUPIED.

HEATING CONTROLLER SHALL BE LOCKED OUT IF THE SUPPLY AIR FLOW SENSOR DOES NOT INDICATE AIR FLOW.



CONSTANT AIR VOLUME BOX CONTROL

UPON A FALL IN ROOM TEMPERATURE BELOW HEATING TEMPERATURE SETPOINT, HEATING CONTROLLER SHALL MODULATE. HEATING CONTROLLER OUTPUT SHALL BE LIMITED SO THAT DISCHARGE AIR TEMPERATURE SHALL NOT EXCEED DISCHARGE AIR TEMPERATURE SETPOINT.

ELECTRIC HEATING COIL SHALL BE DISABLED IF THE BOX AIR FLOW SENSOR DOES NOT DETECT AIRFLOW.

IF OCCUPANCY SENSOR IS USED IN SPACES SERVED BY BOX, THE BOX SHALL ADJUST CFM TO "UNOCCUPIED" CFM WHEN SPACE IS UNOCCUPIED.

HEATING CONTROLLER SHALL BE LOCKED OUT IF THE SUPPLY AIR FLOW SENSOR DOES NOT INDICATE AIR FLOW.

1 SCHEMATIC - TERMINAL AIR BOX CONTROL - ELECTRIC REHEAT

NOT TO SCALE

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MECHANICAL CONTROLS - TENANT

PIPING MATERIALS SCHEDULE

GENERAL NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ACCESSORIES.

PLUMBING SYSTEM	PLUMBING MATERIAL DESCRIPTION
SANITARY DRAIN/WASTE PIPING SSD PIPING	STANDARD WEIGHT CAST IRON PIPE, BELL & SPIGOT JOINTS (BELOW SLAB)
SANITARY DRAIN/WASTE PIPING	STANDARD WEIGHT CAST IRON PIPE, WITH NO HUB JOINTS (ABOVE SLAB)
VENT PIPING	STANDARD WEIGHT CAST IRON PIPE, WITH NO HUB JOINTS (ABOVE SLAB)
DOMESTIC WATER PIPING (ABOVE SLAB)	TYPE "L". COPPER TUBING, WITH WROUGHT COPPER FITTINGS (ASTM B88).
DOMESTIC WATER PIPING (BELOW SLAB)	TYPE "K". COPPER TUBING, WITH BRAZED WROUGHT COPPER FITTINGS (ASTM B88).
FIRE PROTECTION PIPING	SCHEDULE 40 BLACK STEEL PIPE, WITH CAST IRON FITTINGS (PIPE SIZES 2" AND SMALLER)
FIRE PROTECTION PIPING	SCHEDULE 40 BLACK STEEL PIPE, WITH CUT GROOVE FITTINGS (PIPE SIZES 2 1/2" AND LARGER) SCHEDULE 10 BLACK STEEL PIPE, WITH ROLL GROOVE FITTINGS (PIPE SIZES 4" AND LARGER)

DOMESTIC HOT WATER EXPANSION TANK SCHEDULE

GENERAL NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ACCESSORIES.
2. PROVIDE 4" THICK REINFORCED CONCRETE PAD BELOW ALL FLOOR MOUNTED EQUIPMENT.

REMARKS:
A. ASME RATED.

DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	TANK VOLUME GALLONS	CONSTRUCTION PRESSURE	SYSTEM CONNECTION SIZE	REMARKS
ET-1	DOMESTIC	WATTS	DETA-20	8	150.00 psi	3/4"	

WATER SOFTENER SCHEDULE

GENERAL NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ACCESSORIES.
2. PROVIDE 4" THICK REINFORCED CONCRETE PAD BELOW ALL FLOOR MOUNTED EQUIPMENT.
3. PROVIDE WITH BRINE TANK AND ALL NECESSARY COMPONENTS FOR A COMPLETE TREATMENT SYSTEM.

REMARKS:
A. PACKAGED VERTICAL DUPLEX.

DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	CONTINUOUS FLOW RATE GPM	PEAK FLOW RATE GPM	PRESS. DROP DROP	RESIN (CF) CAPACITY C.F.	REMARKS	
WS-1	DOMESTIC	CULLIGAN	HCE-1200-3	215	280	25 psi	40	A	
WS-2	DOMESTIC	CULLIGAN	HCE-1200-3	215	280	25 psi	40	A	

DOMESTIC WATER HEATER SCHEDULE

GENERAL NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ACCESSORIES.
2. PROVIDE 4" THICK REINFORCED CONCRETE PAD BELOW ALL FLOOR MOUNTED EQUIPMENT.

REMARKS:
A. HEATER WITH BRONZE CIRCULATING PUMP(S) AND STARTER(S).

DESIGNATION	SERVICE	MANUFACTURER	MODEL NUMBER	RECOVERY GPH @ 100 F	KW	ELECTRICAL		STORAGE TANK	REMARKS
						VOLTAGE	PHASE	GAL.	
WH-1	DOMESTIC	AOSMITH	DRE-80-36	148	36	208 V	3	80	A
WH-2	DOMESTIC	AOSMITH	DRE-80-36	148	36	208 V	3	80	A

PUMP SCHEDULE - PLUMBING SYSTEMS

GENERAL NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ACCESSORIES.
2. MOUNT HOT WATER RECIRCULATING PUMP AT 5'-0" ABOVE FINISHED FLOOR WITH WALL BRACKETS.

REMARKS:
A. SKID MOUNTED BOOSTER PACKAGE WITH GPM FLOW METER, CONTROL PANEL, AND VARIABLE FREQUENCY DRIVES.
B. BRONZE CONSTRUCTION FOR DOMESTIC WATER SERVICE.
C. STARTER BY DIVISION 26.
D. HOA SWITCH.
E. COPPER OR STAINLESS STEEL HEADERS.
F. LOW SUCTION CUTOFF.
G. HIGH PRESSURE CUTOFF.
H. PUMP REMOVAL KIT.
I. WEST TANK FTX-403 HYDRO TANK.

DESIGNATION	K.	MODEL NUMBER	TYPE	GPM	SUCTION PRESSURE PSI	PUMP DISCHARGE PSI	TOTAL HEAD FT	MOTOR HP	RPM	ELECTRICAL		REMARKS
										VOLTAGE	PHASE	
DWBP-1	HYFAB	MVP SERIES MVP-850-208	DUPLEX	150	26	66	153	5	3500	208 V	3	A,C,D,E,FG,H,I,J
HWRP-1	GRUNDFOS	UPS-26-99 SFC	IN-LINE	0-30	N/A	N/A	0-30	1/25	3	115 V	1	B,H

PLUMBING FIXTURE SCHEDULE

NOTES:
1. REFER TO FLOOR PLANS FOR DRAIN CONNECTION AND PIPE SIZES.

DESIGNATION	FIXTURE DESCRIPTION	COLD WATER	HOT WATER	DRAIN	VENT	NOTES
P-3A	WATER CLOSET - FLOOR MOUNTED 1. FIXTURE: KOHLER #K-96057-SS WELCOME ULTRA, 1.28 GALLON FLUSH. 2. SEAT: KOHLER #K-4670-CA WHITE OPEN FRONT, SELF SUSTAINING CHECK HINGE. 3. VALVE: SLOAN ROYAL 111-SG-1.28 FLUSH VALVE; 1.28 GALLONS PER FLUSH.	1"	--	4"	2"	
P-11	SINK - S.S. 1. FIXTURE: ELKAY #LRAD221955 (22"X19-1/2"X5-1/2"), 18 GAUGE STAINLESS STEEL SELF-RIMMING, SINGLE COMPARTMENT. 2. FAUCET: CHICAGO FAUCET #786-GN8FCABCP, 1.5 GPM FLOW CONTROL BASE OF SPOUT. 3. TRIM: MCGUIRE #151 DRAIN WITH 1-1/2" TAILPIECE, #8912 - 1-1/2" PTRAP, #LFBV-2165 QUARTER TURN SUPPLY STOPS. 4. MIXING VALVE: WATTS LFUSG-B UNDER LAV/SINK	1/2"	1/2"	2"	2"	
P-13	LAVATORY - WALL HUNG - 0.5 GPM 1. FIXTURE: KOHLER #K-2005 KINGSTON LAVATORY, WITH 4" CENTERS. 2. FAUCET: CHICAGO FAUCET 895-317-GN2A-E72ABCP, 0.5 GPM FLOW CONTROL BASE OF SPOUT. 3. TRIM: MCGUIRE #155A GRID DRAIN WITH 1-1/4" TAILPIECE, #8872 1-1/4" PTRAP, #LFBV-2165 QUARTER TURN SUPPLY STOPS. 4. MOUNTING: 34" A.F.F. TO BASIN RIM. 5. ZURN Z1231 FLOOR MOUNTED CARRIER. 6. MIXING VALVE: WATTS LFUSG-B UNDER LAV/SINK	1/2"	1/2"	2"	2"	
P-18A	WALL HYDRANT (NON-FREEZE - KEY OPERATED) 1. FIXTURE: ZURN Z1321-CXL, LEAD-FREE, ANTI-SIPHON NON-FREEZE WALL HYDRANT, STAINLESS STEEL FACE, WITH INTEGRAL BACKFLOW PREVENTER WITH ANTI-SIPHON TECHNOLOGY. MOUNTING: 18" FROM CENTER LINE OF HYDRANT TO FINISHED GRADE	3/4"	--			
P-19A	ROOF HYDRANT (NON-FREEZE) 1. FIXTURE: ZURN Z1388-VB, LEAD-FREE, EXPOSED, NON-FREEZE ROOF HYDRANT WITH DURA-COATED CAST ITON HEAD AND LIFT HANDLE WITH LOCK OPTION, BRONZE INTERIOR PARTS, GALVANIZE STEEL CASING AND BRONZE VALVE HOUSING WITH 1/8" DRAIN PORT IN HOUSING. COMPLETE WITH DURA-COATED CAST IRON ROOF SUPPORT SLEEVE WITH WIDE ANCHORING FLANGE AND CLAMP COLLAR. NOTE: THE VACUUM BREAKER MUST BE MANUALLY TRIPPED TO FACILITATE AUTOMATIC DRAINAGE OF HYDRANT.	3/4"	--			
P-34	SERVICE SINK - FLOOR BASIN (24"X24") 1. FIXTURE: STERN-WILLIAMS #SB-900-BP, 24"X24"X12" WITH STAINLESS STEEL CAP AND 3" CHROME DRAIN. 2. FAUCET: CHICAGO FAUCET #897-CCP, WITH THREADED 3/4" OUTLET/VACUUM BREAKER SPOUT, MOUNTED 36" A.F.F. TO FAUCET, WITH INTEGRAL STOPS. 3. HOSE AND WALL HOOK - STERN WILLIAM #T-35 4. MOP HANGER: STERN WILLIAM #T-40 5. MIXING VALVE: WATTS LFUSG-B. MIXING VALVE SHALL BE INSTALLED IN ACCESSIBLE LOCATION.	3/4"	3/4"	3"	2"	
P-50	FLOOR DRAIN 1. FIXTURE: ZURN ZN-415B-Y-P, SEDIMENT BUCKET, AND POLISHED NICKEL BRONZE TOP, PROVIDE FLASHING CLAMP IF DRAIN IS INSTALLED ABOVE SLAB ON GRADE. PROVIDE TRAP PRIMERS.	--	--	--	--	1.
P-60	DRINKING FOUNTAIN (BARRIER-FREE - WALL HUNG - BI-LEVEL WITH BOTTLE FILLER) 1. FIXTURE: ELKAY #LZSTL8WSLK, BI-LEVEL DUAL BOWLS ADA UNIT WITH BOTTLE FILLER, ALL EXPOSED SURFACES TO BE STAINLESS STEEL, MOUNT 36" A.F.F. TO BUBBLER. 2. TRIM: (2) MCGUIRE #8872 - 1-1/4" PTRAPS, (2) #LFHST-2 SUPPLY STOP.	1/2"	--	2"	2"	
P-65	EMERGENCY EYE/FACE WASH - DECK MOUNTED 1. FIXTURE: GUARDIAN GBF1849 BARRIER-FREE, DECK MOUNTED AUTOFLOW™ SWING-DOWN EYEWASH. SUPPLIED WITH IN-LINE STRAINER TO PROTECT VALVE AND SPRAY HEADS FROM DEBRIS IN WATER LINE.UNIT SHALL HAVE (2) SPRAY HEADS WITH INTEGRAL "FLIP-TOP" DUST COVERS, FILTERS AND 1.6 GPM FLOW CONTROL ORIFICES MOUNTED ON A CHROME-PLATED BRASS EYEWASH ASSEMBLY. ACTIVATE VALVE BY ROTATING 90° FROM STORED POSITION. 2. PROVIDE LEONARD, MODEL NO. TA-300LF MIXING VALVE IN CASE WORK BELOW SINK, SET FOR 85 DEGREES F. ROUTE SUPPLY LINE FROM MIXING VALVE UP TO EYE WASH WITH STOP VALVE. SUPPLY LINES TO MIXING VALVE TO BE 1/2 I.P.S.	3/4"	3/4"	2"	2"	
P-72	ICE MAKER/ COFFEE SUPPLY BOX 1. FIXTURE: GUY GRAY MIB1HAAB WHITE POWDER COATED METAL BOX WITH 1/4 TURN SUPPLY VALVE AND WATER HAMMER ARRESTER. 2. MOUNT BELOW COUNTERTOP 18" A.F.F. TOP OF BOX. 3. PROVIDE DOUBLE CHECK VALVE BACKFLOW ASSEMBLY TYPE WATTS LF007 OR DUAL CHECK VACUUM BREAKER WATTS 98D 4. PROVIDE NEPHROS DSU-H DUAL STAGE ULTRAFILTER MOUNTED ON WALL BEHIND ICE MACHINE;NOT REQUIRED FOR COFFEE MAKERS.	1/2"	--	--	--	

ALL PLUMBING LEGEND

NOT ALL SYMBOLS MAY BE USED

SYMBOL	ABB.	DESCRIPTION	SYMBOL	ABB.	DESCRIPTION
—CW— CW	CW	DOMESTIC COLD WATER (SOFT)			PIPE TURN DOWN
- - -CW- - - CW	CW	DOM. COLD WATER (BELOW)			PIPE TURN UP
—HW— HW	HW	DOMESTIC HOT WATER			BALL VALVE
- - -HW- - - HW	HW	DOMESTIC HOT WATER (BELOW)			GATE VALVE
—HWR— HWR	HWR	DOMESTIC HOT WATER RECIRC.			CHECK VALVE
—A/S— A/S	A/S	AUTOMATIC SPRINKLER SYSTEM			BALANCING VALVE
— F — F	F	FIRE MAIN			BUTTERFLY VALVE
				PRV	PRESSURE REGULATING VALVE
					SOLENOID VALVE
X" SW-X (UP/DN) X S.F. | X GPM		STORM WATER STACK ID SIZE | SYSTEM-STACK ID (UP/DN) SQUARE FEET | GPM			STRAINER
					REDUCER
X" OD-X (UP/DN) X S.F. | X GPM		OVERFLOW DRAIN STACK ID SIZE | SYSTEM-STACK ID (UP/DN) SQUARE FEET | GPM			PIPE GUIDE
					ANCHOR
X" F-X (UP/DN)		FIRE RISER ID SIZE | SYSTEM-RISER ID (UP/DN)			PRESSURE GAUGE
					PRESSURE SWITCH WITH DEMAND CHECK FITTING
X" AW-X (UP/DN) X" AV-X (UP/DN)		ACID WASTE/VENT STACK ID SIZE | SYSTEM-STACK ID (UP/DN)			THERMOMETER
					CAP/PLUG
X" P-X (UP/DN) X-DFU, X GPM		SANITARY WASTE STACK ID SIZE | SYSTEM-STACK ID (UP/DN) DRAINAGE FIXTURE UNITS | GPM		CO	CLEANOUT (ABOVE CEILING)
					UNION
○		CEILING SPRINKLER - UPRIGHT		PR	PRESSURE RELIEF VALVE
●		CEILING SPRINKLER - CONCEALED			SHOCK ARRESTOR
◉		CEILING SPRINKLER - RECESSED PENDANT			HOSE BIBB / WALL HYDRANT
◁		SIDEWALL SPRINKLER	FCO	FCO	FLOOR CLEAN OUT
◁		SIDEWALL EXTENDED COVERAGE SPRINKLER		WCO	WALL CLEAN OUT
●		WALL HUNG FIRE EXTINGUISHER		FD	FLOOR DRAIN
▬		FIRE EXTINGUISHER CABINET		VTR	VENT THRU ROOF
		FIRE DEPARTMENT CONNECTION		I.E.	INVERT ELEVATION
WC		WATER COLUMN		AFF	ABOVE FINISHED FLOOR
ECO/GCO		EXTERIOR CLEANOUT/GRADE CLEANOUT		DCVA	DOUBLE CHECK VALVE ASSEMBLY
				DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY

PLUMBING GENERAL NOTES

A. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT SCOPE, UTILITY CONNECTIONS AND ALL BUILDING SERVICES. EXISTING SITE UTILITIES SHALL BE FIELD LOCATED FOR EXACT LOCATION AND ELEVATION BEFORE BEGINNING CONSTRUCTION OR DEMOLITION.

B. DRAWINGS SHOW KNOWN EXISTING SERVICES, PIPING, FIXTURES, EQUIPMENT, AND CONNECTIONS IN REASONABLE PROXIMITY. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND SIZES. ANY DISCREPANCIES AND / OR DEVIATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ARCHITECTS ATTENTION.

C. COORDINATE WATER, WASTE, VENT, RAIN WATER AND OTHER PIPING WITH ALL TRADES TO AVOID SPACING AND ROUTING PROBLEMS.

D. FIXTURES, EQUIPMENT, CONNECTIONS AND PIPING SHALL BE FURNISHED AND INSTALLED TO MEET OR EXCEED STATE AND LOCAL CODES AND REQUIREMENTS.

E. STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.

F. FURNISH AND INSTALL SHOCK ARRESTORS IN COLD WATER LINES AT CONNECTIONS TO FLUSH VALVES AND QUICK CLOSING VALVES AND AT EACH HOT AND COLD WATER CONNECTION TO FIXTURES.

G. PLUMBING VENTS AND STACKS THROUGH ROOF SHALL BE INSTALLED A MINIMUM OF 25 FEET CLEAR OF HVAC OUTSIDE AIR INTAKES AND ANY OPERABLE WINDOW OR BUILDING OPENING.

H. VENT AND WASTE STACKS LESS THAN THREE INCHES IN DIAMETER SHALL NOT ROUTE THROUGH THE ROOF. PROVIDE INCREASERS ON PIPING BELOW ROOF.

I. PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE SLEEVED, SEALED AND FIRESAFED TO MAINTAIN THE INTEGRITY OF THE WALL AND FLOOR UL FIRE RESISTANCE RATING.

J. DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.

K. PROVIDE INSULATION KIT FOR SUPPLIES, TRAP AND DRAIN PIPING FOR ALL HANDICAP ACCESSIBLE LAVATORIES AND SINKS. INSULATION OF PIPING IS NOT REQUIRED WHERE PROTECTIVE SKIRT IS PROVIDED BELOW FIXTURE.

L. PROVIDE HOUSEKEEPING PADS UNDER ALL EQUIPMENT. COORDINATE PAD SIZE AND FLOOR DRAIN LOCATIONS WITH FINAL EQUIPMENT PAD LOCATIONS. LOCATE DRAINS NEAR EQUIPMENT DRAINS AND DISCHARGE TO AVOID ROUTING OF PIPING ACROSS WALK PATHS.

M. SUPPORTS, ANCHOR BOLTS AND HANGERS FOR ALL EQUIPMENT SPECIFIED SHALL CONFORM TO THE SPECIFICATIONS. MISCELLANEOUS STEEL BRACING SUPPORTS AND REINFORCING STEEL NEEDED TO SUPPORT EQUIPMENT AND PIPING SYSTEMS SPECIFIED SHALL BE FURNISHED AND INSTALLED AS PART OF THE WORK.

N. MAINTAIN ACCESSIBILITY OF ALL EQUIPMENT AND VALVES. PROVIDE ACCESS PANELS AS REQUIRED. COORDINATE PLACEMENT WITH THE ARCHITECT PRIOR TO INSTALLATION.

O. INSTALL EXTERIOR WALL HYDRANTS AT 18" ABOVE FINISHED GRADE.

P. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO CUTTING ANY OPENING IN THE STRUCTURE. COORDINATE SLEEVING OF BEAMS AND CORING OF STRUCTURE WITH STRUCTURAL DRAWINGS AND DETAILS PRIOR TO INSTALLATION.

Q. CONTRACTOR SHALL PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS NOT RECEIVING CONSTANT DISCHARGE FROM FIXTURES AND/OR EQUIPMENT AND AS REQUIRED BY STATE AND LOCAL CODES.

R. ALL SANITARY AND STORM WATER PIPING BELOW GRADE IN AREAS SUBJECT TO TRAFFIC WITH LESS THAN TWO FEET OF EARTH COVER SHALL BE DUCTILE IRON.

S. ORIENT FLUSH VALVE HANDLES ASSOCIATED WITH BARRIER-FREE WATER CLOSETS ON THE WIDE SIDE OF THE STALL TO COMPLY WITH ADA REQUIREMENTS.

T. PROVIDE LEAD FREE MIXING VALVES UNDER PUBLIC LAVATORIES, HAND WASHING SINKS OR ANY OTHER FIXTURE REQUIRING TEMPERED WATER TO MEET ASSE 1070/ASME A112.1070 OR LOCAL ADOPTED CODE.

U. A DOUBLE WYE OR DOUBLE COMBINATION WYE AND 1/8 BEND FITTING IS NOT ACCEPTABLE IN A HORIZONTAL POSITION FOR A DRAINAGE SYSTEM.

SEISMIC REQUIREMENTS

1. CONTRACTOR SHALL SECURE THE SERVICES OF AN ENGINEER REGISTERED WITH THE APPLICABLE STATE TO PROVIDE SEALED AND SIGNED SHOP DRAWINGS OF ALL SUBMITTED SEISMIC SUPPORT SYSTEMS. THE DRAWINGS SHALL SHOW DETAILS OF THE SUBMITTED SEISMIC SUPPORT SYSTEM, LOCATION OF EACH SUPPORT, AND IDENTIFICATION OF SUPPORT TYPE (LONGITUDINAL AND/OR TRANSVERSE). SHOP DRAWINGS SHALL BE SUBMITTED TO THE CODE ENFORCEMENT OFFICE FOR APPROVAL. SMACNA SEISMIC RESTRAINT MANUAL, SECOND EDITION OR LATEST REVISION, MAY BE USED AS A GUIDE FOR GENERAL SEISMIC SUPPORT DETAIL AND SUPPORT SPACING RECOMMENDATIONS.
2. SEE SECTION 22 05 48 FOR SEISMIC REQUIREMENT.

TYPICAL NOTES FOR BRACING OF PIPES

1. BRACE GAS PIPES 1 1/4" I.D. AND LARGER AND ALL OTHER PIPES 2 1/2" I.D. AND LARGER.
2. DETAILS SHOWN PROVIDE A LATERAL BRACING SYSTEM. A TYPICAL VERTICAL SUPPORT SYSTEM MUST ALSO BE USED. HOWEVER, WHERE BRACE OCCURS, THE VERTICAL ANGLE SHOWN MAY BE REPLACE A TYPICAL VERTICAL SUPPORT.
3. TRANSVERSE BRACING AT 40'-0" O.C. MAXIMUM.
4. LONGITUDINAL BRACING AT 80'-0" O.C. MAXIMUM
5. TRANSVERSE BRACING FOR ONE PIPE SECTION MAY ALSO ACT AS LONGITUDINAL BRACING FOR THE PIPE SECTION CONNECTED PERPENDICULAR TO IT. IF THE BRACING IS INSTALLED WITHIN 24" OF THE ELBOW OR TEE AND SIMILAR SIZE.
6. DO NOT USE BRANCH LINES TO BRACE MAIN LINES.
7. PROVIDE FLEXIBILITY IN JOINTS WHERE PIPES PASS THROUGH BUILDING SEISMIC OR EXPANSION JOINTS, OR WHERE RIGIDLY SUPPORTED PIPES CONNECT TO EQUIPMENT WITH VIBRATION ISOLATORS.
8. AT VERTICAL PIPE RISERS, WHEREVER POSSIBLE, SUPPORT THE WEIGHT OF THE RISER AT A POINT OR POINTS ABOVE THE CENTER OF GRAVITY OF THE RISER. PROVIDE LATERAL GUIDES AT THE TOP AND BOTTOM OF THE RISER AND AT INTERMEDIATE POINTS NOT TO EXCEED 30'-0" ON CENTER.
9. PROVIDE LARGE ENOUGH PIPE SLEEVES THROUGH WALLS OR FLOORS TO ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENTS.
10. DO NOT FASTEN ONE RIGID PIPING SYSTEM TO TWO DISSIMILAR PARTS OF A BUILDING THAT MAY RESPOND IN A DIFFERENT MODE DURING AN EARTHQUAKE; FOR EXAMPLE, A WALL AND A ROOF.
11. BRACING DETAILS, SCHEDULE, AND NOTES ARE TO BE USED WITH THE FOLLOWING TYPES OF PIPE: STEEL PIPE SCHEDULE 40, AND COPPER PIPE TYPE "L" (ONLY SILVER SOLDERED BRAZED JOINTS TO BE USED WITH COPPER PIPE).
12. REFER TO SECTION 23 05 49 FOR ADDITIONAL REQUIREMENT.

PIPE BRACING SCHEDULE

PIPE SIZE (IN.)	HANGER TYPE	BOLT TO ANGLE	VERTICAL ANGLE	DIAGONAL ANGLE	LONGITUDINAL ANGLE	ROD SIZE	MAX. LENGTH FOR RODS
2 1/2	CLEVIS TYPE	3/8"Ø	2x2x16GA.	2x2x16GA.	2 1/2x2 1/2x16GA.	1/2"Ø	25"
3	CLEVIS TYPE	3/8"Ø	2x2x16GA.	2x2x16GA.	2 1/2x2 1/2x16GA.	1/2"Ø	25"
4	CLEVIS TYPE	3/8"Ø	2x2x16GA.	2x2x16GA.	2 1/2x2 1/2x16GA.	5/8"Ø	31"
5	CLEVIS TYPE	1/2"Ø	2x2x16GA.	3x3x16GA.	2 1/2x2 1/2x16GA.	5/8"Ø	31"
6	CLEVIS TYPE	1/2"Ø	2 1/2x2 1/2x16GA.	2 1/2x2 1/2x16GA.	2 1/2x2 1/2x16GA.	3/4"Ø	37"
8	CLEVIS TYPE	5/8"Ø	2 1/2x2 1/2x12GA.	2 1/2x2 1/2x12GA.	2 1/2x2 1/2x12GA.	7/8"Ø	43"

ALL HOLES IN ANGLES 1/16" OVERSIZE
MAX. PLACE STANDARD CUT WASHERS BETWEEN SHEETMETAL ANGLES AND NUTS.

MIN. EDGE DISTANCE FOR BOLTS
1/4"Ø - 1" 5/8"Ø - 1 1/8"
3/8"Ø - 1" 3/4"Ø - 1 1/4"
1/2"Ø - 1" 7/8"Ø - 1 1/2"

SEISMIC SUPPORTS FOR PIPES | 1

PLUBMING SHEET INDEX

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Johnson Johnson Crabtree Architects P.C.

Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

MICHAEL B. BURTON REGISTERED PE10121990 STATE OF INDIANA PROFESSIONAL ENGINEER
02.26.24

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(Individual revisions clouded and labeled within each sheet)

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23987.02

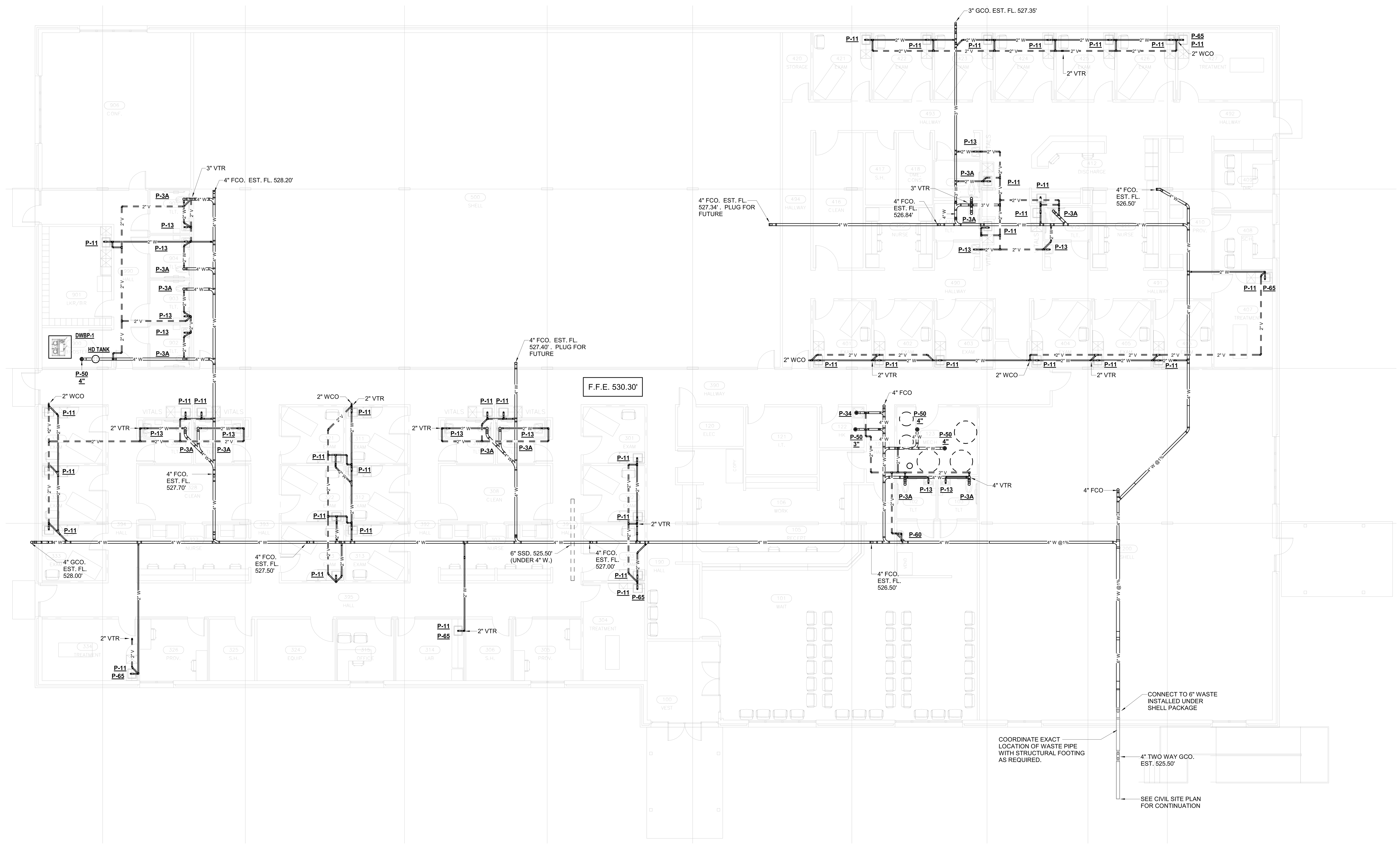
DATE
February 28, 2024

P0.0
PLUMBING LEGENDS, INDEX, NOTES AND SCHEDULES

SHEET GENERAL NOTES

A. SEE SHEET P0.0 FOR GENERAL NOTES, LEGENDS AND INDEX.

B. SEE ARCHITECTURAL FOR EXACT LIMIT OF ALTERNATE 1.



1 GRAVITY PIPING FLOOR PLAN

1/8" = 1'-0"

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Freestanding Medical Office Building Buildout for:

Sullivan County Community Hospital

Sullivan, Indiana

MICHAEL B BURTON REGISTERED STATE OF INDIANA PROFESSIONAL ENGINEER

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February 28, 2024

P1.1

GRAVITY PIPING FLOOR PLAN - BASE BID

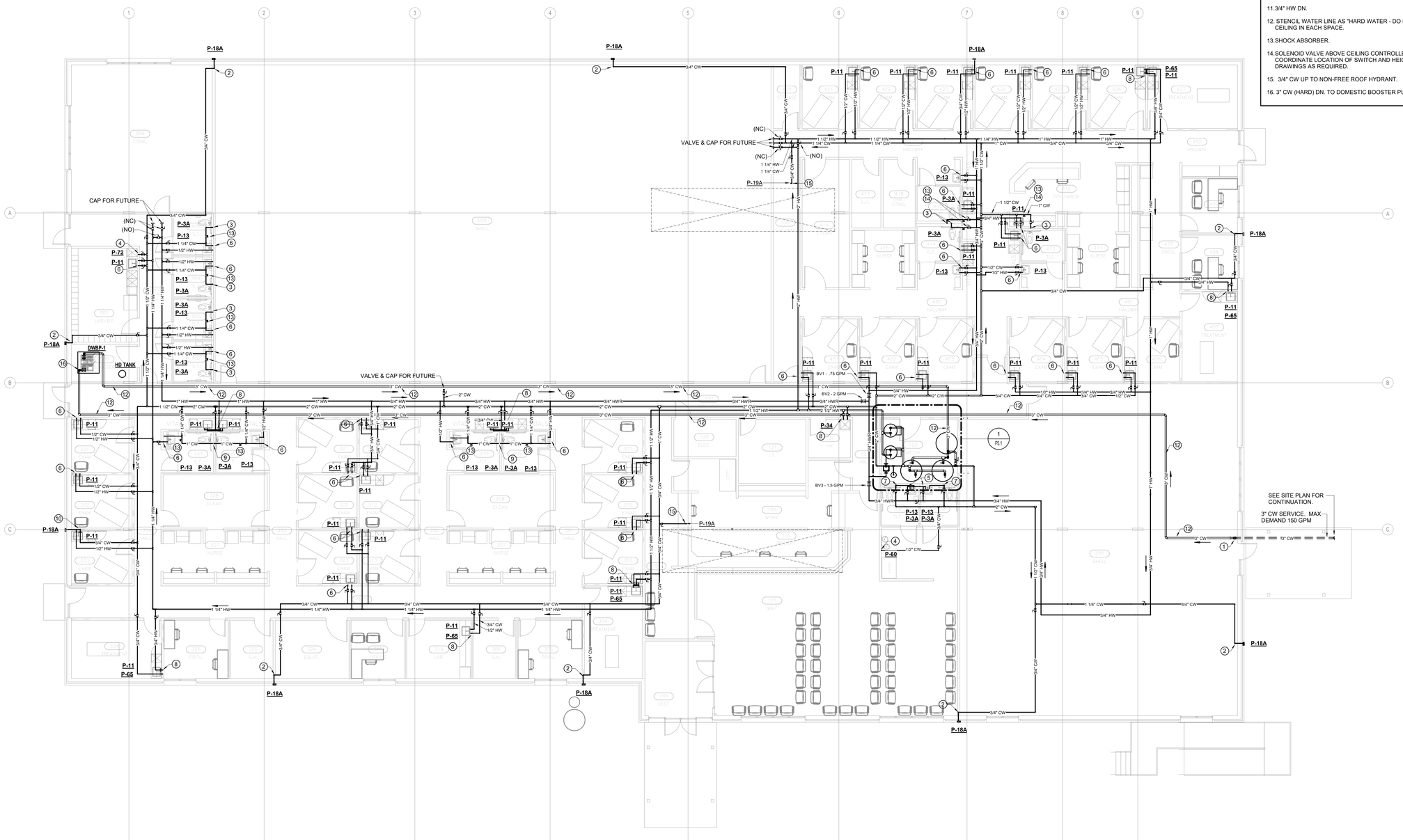
SHEET GENERAL NOTES

A. SEE SHEET P0.0 FOR GENERAL NOTES, LEGENDS AND INDEX.

B. SEE ARCHITECTURAL FOR EXACT LIMIT OF ALTERNATE 1.

SHEET KEYED NOTES

1. 3" CW DN.
2. 3/4" CW DN.
3. 1" CW DN.
4. 1/2" CW DN.
5. 3/4" HW LOOP UP/DN.
6. 1/2" HW & CW DN.
7. 1 1/4" CW DN.
8. 3/4" HW & CW DN.
9. 1 1/2" CW DN.
10. 1/2" HW & 3/4" CW DN.
11. 3/4" HW DN.
12. STENCIL WATER LINE AS "HARD WATER - DO NOT TIE-INTO" ONCE ABOVE CEILING IN EACH SPACE.
13. SHOCK ABSORBER.
14. SOLENOID VALVE ABOVE CEILING CONTROLLED BY A SWITCH . COORDINATE LOCATION OF SWITCH AND HEIGHT WITH ELECTRICAL DRAWINGS AS REQUIRED.
15. 3/4" CW UP TO NON-FREE ROOF HYDRANT.
16. 3" CW (HARD) DN. TO DOMESTIC BOOSTER PUMP. SEE DETAIL.



1 PRESSURE PIPING FLOOR PLAN

1/8" = 1'-0"

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Freestanding Medical Office Building Buildout for:

Sullivan County Community Hospital

Sullivan, Indiana

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REGISTERED
PE13120020
STATE OF
INDIANA
PROFESSIONAL ENGINEER

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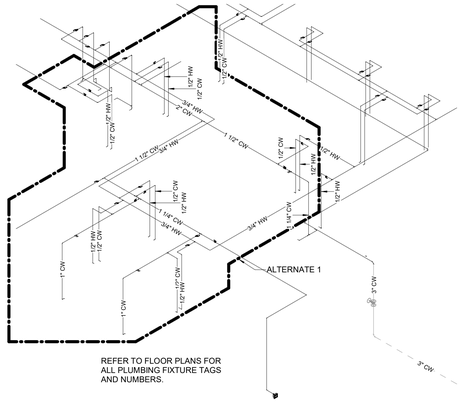
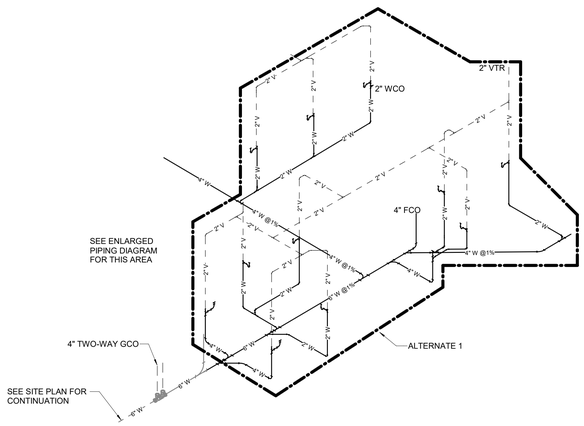
P1.2

PRESSURE PIPING FLOOR PLAN - BASE BID

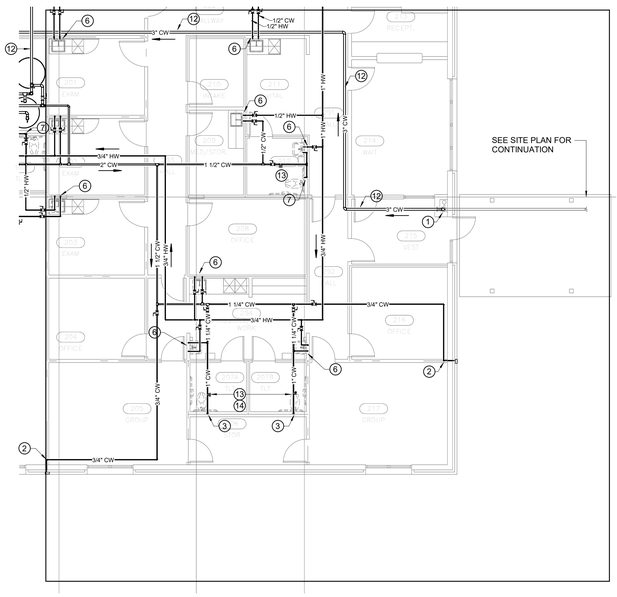


4 PRESSURE PIPING DIAGRAM - ALTERNATE 1



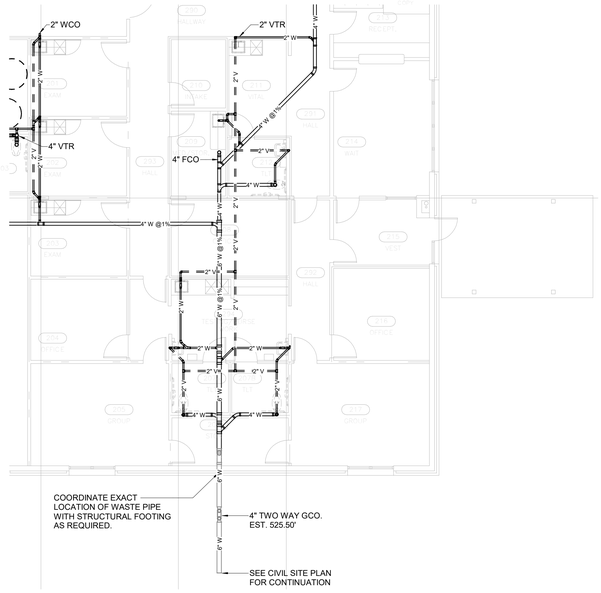
2 GRAVITY PIPING DIAGRAM - ALTERNATE 1

NOT TO SCALE



3 PRESSURE PIPING FLOOR PLAN - ALTERNATE 1

1/8" = 1'-0"



1 GRAVITY PIPING FLOOR PLAN - ALTERNATE 1

1/8" = 1'-0"

SHEET GENERAL NOTES

A. SEE SHEET P0.0 FOR GENERAL NOTES, LEGENDS AND INDEX.

B. SEE ARCHITECTURAL FOR EXACT LIMIT OF ALTERNATE 1.

SHEET KEYED NOTES

NOT ALL KEYED NOTES MAY BE USED

1. 3" CW DN.
2. 3/4" CW DN.
3. 1" CW DN.
4. 1/2" CW DN.
5. 3/4" HW LOOP UP/DN.
6. 1/2" HW & CW DN.
7. 1 1/4" CW DN.
8. 3/4" HW & CW DN.
9. 1 1/2" CW DN.
10. 1/2" HW & 3/4" CW DN.
11. 3/4" HW DN.
12. STENCIL WATER LINE AS "HARD WATER - DO NOT TIE-INTO" ONCE ABOVE CEILING IN EACH SPACE.
13. SHOCK ABSORBER.
14. SOLENOID VALVE ABOVE CEILING CONTROLLED BY A SWITCH . COORDINATE LOCATION OF SWITCH AND HEIGHT WITH ELECTRICAL DRAWINGS AS REQUIRED.
15. 3/4" CW UP TO NON-FREE ROOF HYDRANT.

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Freestanding Medical Office Building Buildout for:

Sullivan County Community Hospital

Sullivan, Indiana

MICHAEL B BURTON
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PE12100400
STATE OF INDIANA
PROFESSIONAL ENGINEER

02.26.24

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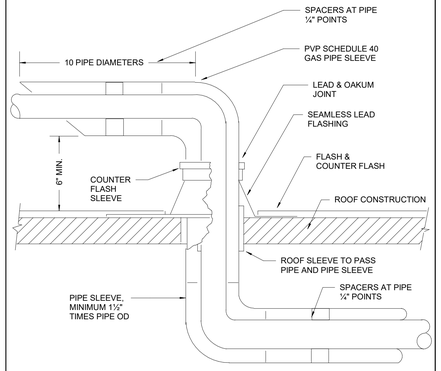
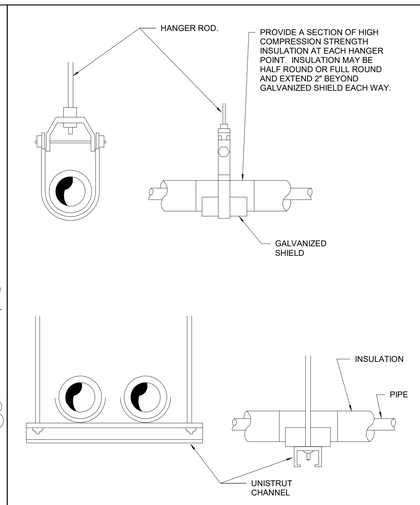
P1.3

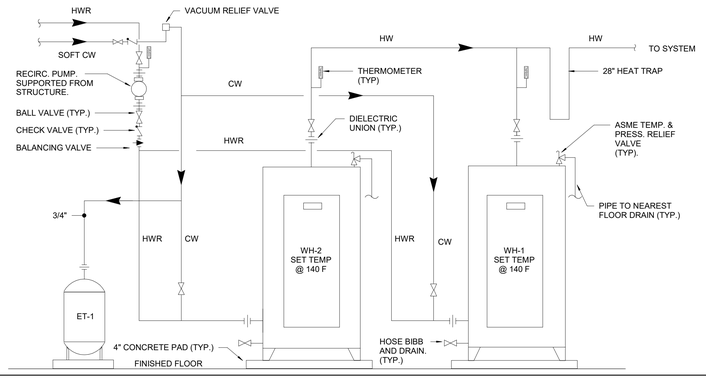
PLUMBING FLOOR PLANS - ALTERNATE 1



PIPE THRU ROOF | 9



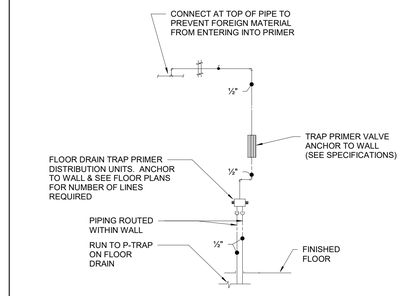
WATER PIPING HANGER | 6



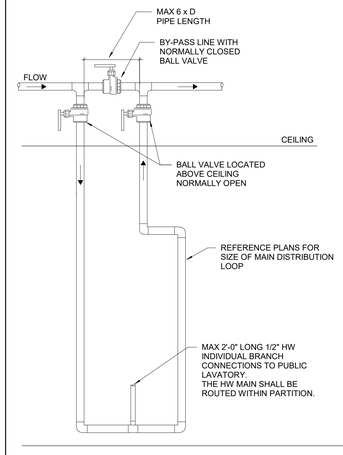
NOTES:

1. WATER HEATERS ARE SHOWN IN SCHEMATIC MANNER. WATER HEATERS SHALL BE ARRANGED IN ROOM AS TO PROVIDE MAXIMUM CLEARANCE.
2. ALL DOMESTIC WATER PIPING AT WATER HEATERS SHALL BE LOCATED ABOVE WATER S SO AS TO PROVIDE ACCESS FOR MAINTENANCE, REMOVAL AND REPLACEMENT OF WATER HEATERS SHOULD SUCH BE REQUIRED.
2. WATER HEATERS SHALL BE PIPED SO A REVERSE RETURN CAN BE OBTAINED (FIRST IN LAST OUT).
3. STRAP WATER HEATERS TO WALL PER SEISMIC REQUIREMENT.
4. WATER HEATERS SHALL BE INSTALLED ACCORDANCE TO MANUFACTURER'S RECOMMENDATION AND COMPLIED WITH ALL LOCAL CODES.

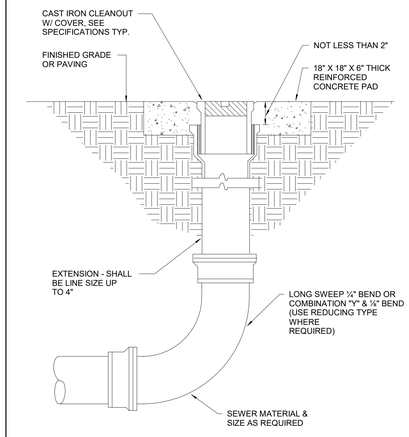
DUPLEX ELECTRIC WATER HEATERS | 3



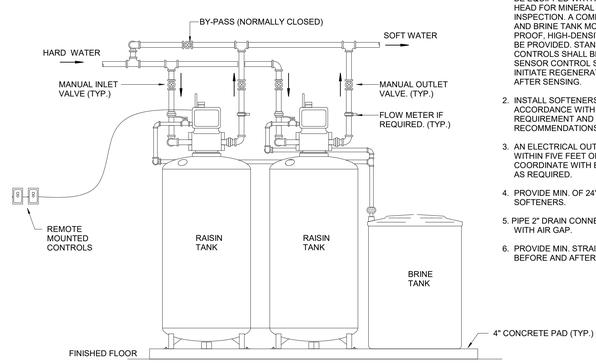
TRAP PRIMER DISTRIBUTION | 10



DOMESTIC HOT WATER BRANCH TO PUBLIC LAVATORY | 8



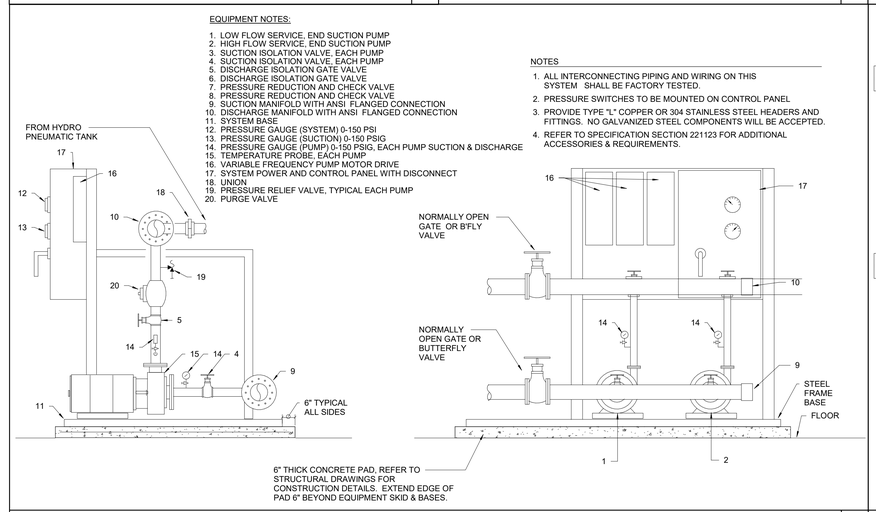
EXTERIOR CLEANOUT | 5



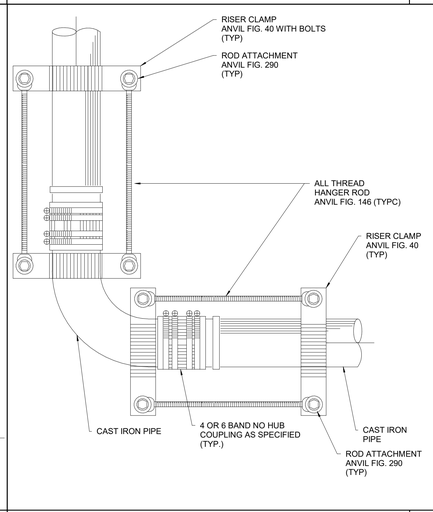
NOTES:

1. EACH SOFTENER RESIN TANK SHALL BE INTERNALLY LINED WITH A PHENOLIC EPOXY AND EXTERIOR SHALL BE PAINTED WITH A RUST-INHIBITING PRIMER AND FINISHED WITH A GLOSS EPOXY TOP COAT. EACH TANK SHALL BE EQUIPPED WITH AN OPENING IN THE TOP HEAD FOR MINERAL FILLING AND PERIODIC INSPECTION. A COMBINATION SALT STORAGE AND BRINE TANK MOLDED OF CORROSION-PROOF, HIGH-DENSITY POLYETHYLENE SHALL BE PROVIDED. STANDARD FULLY AUTOMATIC CONTROLS SHALL BE FURNISHED. AN AQUA SENSOR CONTROL SHALL BE FURNISHED TO INITIATE REGENERATION AT A PRESET TIME AFTER SENSING.
2. INSTALL SOFTENERS SYSTEMS IN ACCORDANCE WITH LOCAL CODE REQUIREMENT AND MANUFACTURER'S RECOMMENDATIONS.
3. AN ELECTRICAL OUTLET SHALL BE PROVIDED WITHIN FIVE FEET OF EQUIPMENT LOCATION. COORDINATE WITH ELECTRICAL CONTRACTOR AS REQUIRED.
4. PROVIDE MIN. OF 24" CLEARANCE ABOVE SOFTENERS.
5. PIPE 2" DRAIN CONNECTIONS TO FLOOR DRAIN WITH AIR GAP.
6. PROVIDE MIN. STRAIGHT PIPE LENGTH BEFORE AND AFTER SENSOR.

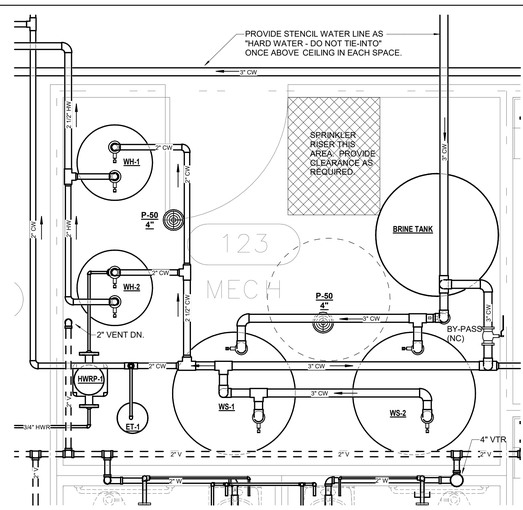
WATER SOFTENERS | 2



TYPICAL DOMESTIC WATER BOOSTER PUMP PACKAGE - VARIABLE SPEED ARRANGEMENT | 7



CAST IRON PIPE BRACE | 4



1 ENLARGED MECHANICAL ROOM FLOOR PLAN - PLUMBING
1/2" = 1'-0"

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Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

MICHAEL B BURTON REGISTERED PE13120020 STATE OF INDIANA PROFESSIONAL ENGINEER
02.26.24

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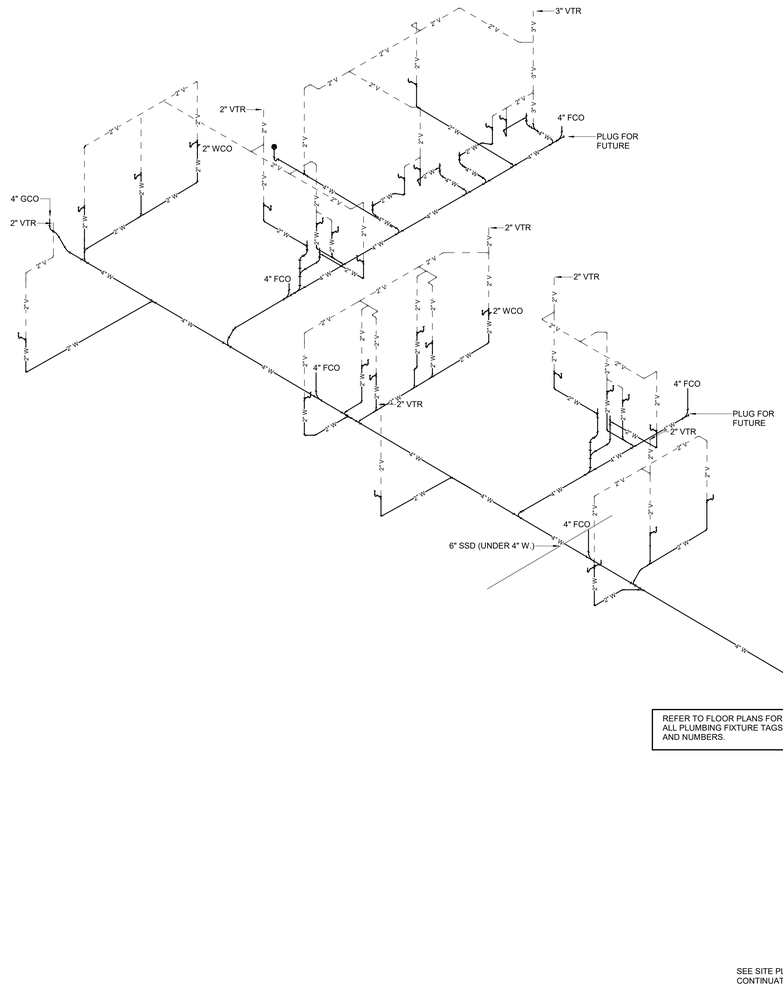
P5.1
PLUMBING DETAILS



1 GRAVITY PIPING DIAGRAM
NOT TO SCALE

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JJCA
Johnson Johnson Crabtree Architects P.C.

Freestanding Medical Office Building Buildout for:
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Sullivan, Indiana

MICHAEL B BURTON
REGISTERED
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STATE OF INDIANA
PROFESSIONAL ENGINEER

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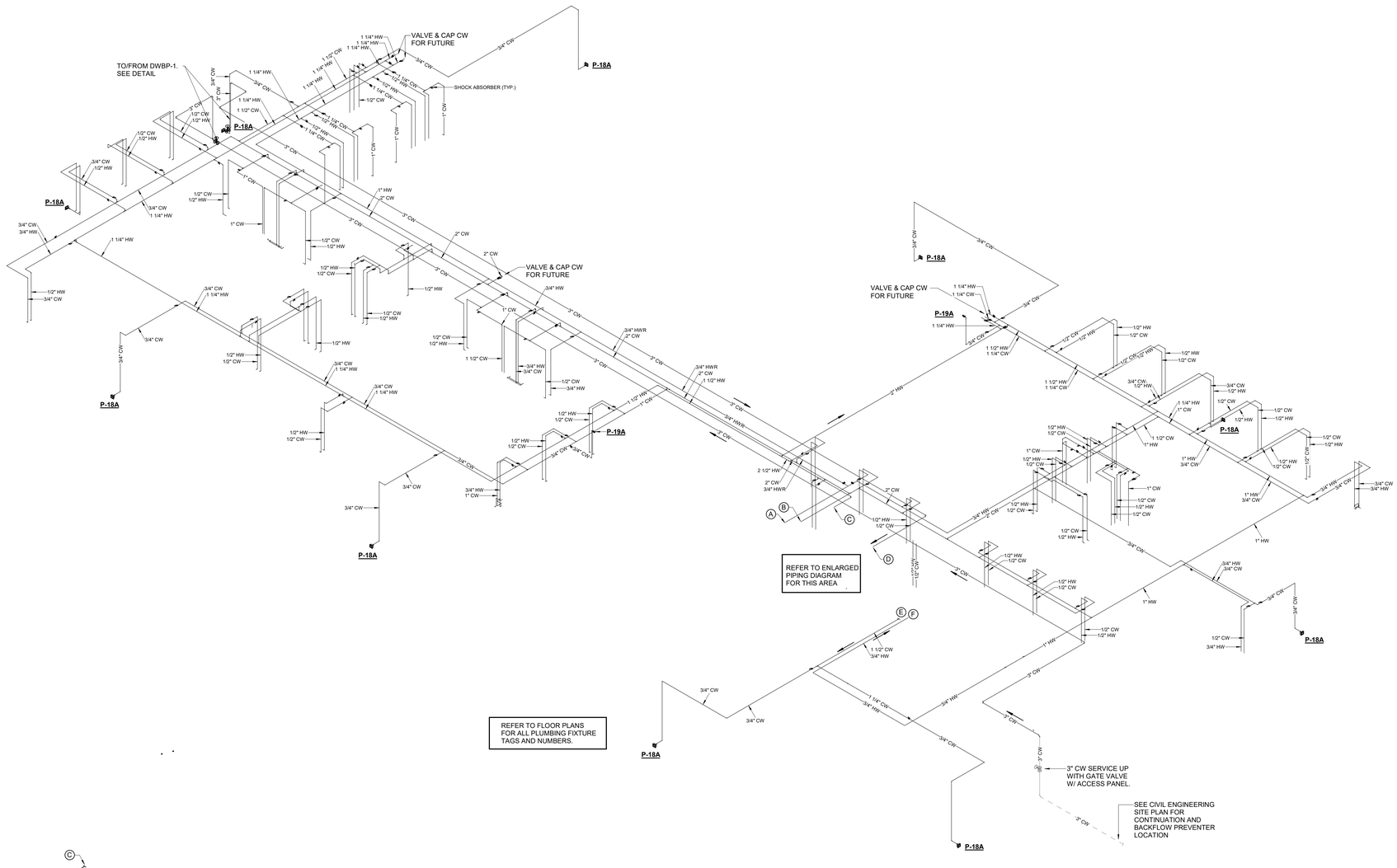
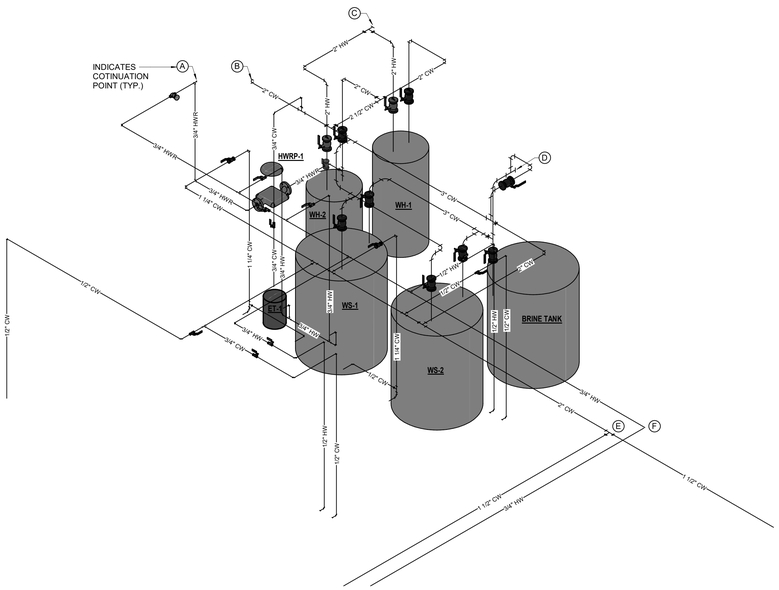
P6.1

GRAVITY PIPING DIAGRAM



1 PRESSURE PIPING DIAGRAM
NOT TO SCALE



2 PRESSURE PIPING DIAGRAM - MECHANICAL ROOM
NOT TO SCALE

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Freestanding Medical Office Building Buildout for:

Sullivan County Community Hospital

Sullivan, Indiana

MICHAEL B BURTON REGISTERED PE10121009 STATE OF INDIANA PROFESSIONAL ENGINEER

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P6.2

PRESSURE PIPING DIAGRAM

FIRE PROTECTION GENERAL NOTES

A. ALL WORK ON DESIGNATED SPRINKLER/STANDPIPE SYSTEMS SHALL PERFORMED BY A STATE LICENSED FIRE SPRINKLER CONTRACTOR.

B. THE CONTRACTOR SHALL PROVIDE SPRINKLER SYSTEM AS SPECIFIED AND AS INDICATED FOR THE ENTIRE BUILDING, UNLESS NOTED OTHERWISE IN SPECIFIC AREAS. PROVIDE AUTOMATIC SPRINKLER ZONING AND/OR AUXILIARY FIRE PROTECTION SYSTEMS AS INDICATED ON THE FIRE PROTECTION DRAWINGS. COMPLETE FIRE SPRINKLER SHOP DRAWINGS, INCLUDING HYDRAULIC CALCULATIONS, SEISMIC CALCULATIONS, AND EQUIPMENT CUT SHEETS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD, THE LOCAL FIRE MARSHAL, AND ANY OTHER AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL. NO WORK SHALL BEGIN PRIOR TO OBTAINING APPROVAL FROM ALL AUTHORITIES HAVING JURISDICTION.

C. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO INSTALLATION.

D. THE FIRE PROTECTION SYSTEM, EQUIPMENT AND COMPONENTS SHALL BE DESIGNED, HYDRAULICALLY CALCULATED, AND INSTALLED IN FULL ACCORDANCE WITH APPLICABLE SECTIONS OF NFPA 10, 13, 14, 24 AND 101. FINAL SYSTEM DESIGN AND INSTALLATION SHALL ALSO COMPLY WITH ALL LOCAL, COUNTY AND STATE BUILDING CODES ALONG WITH THE REQUIREMENTS OF ANY INSURANCE UNDERWRITERS. WHENEVER A CONFLICT IN CRITERIA OCCURS, THE MORE STRINGENT REQUIREMENT TAKES PRECEDENCE.

E. ALL CONTROL VALVES SHALL HAVE TAMPER SWITCHES CONNECTED TO THE FACILITY'S FIRE ALARM SYSTEM. REFER TO FIRE ALARM DRAWINGS FOR FIRE ALARM DEVICES, FIRE DETECTION DEVICES AND INTERFACE POINTS WITH TAMPER SWITCHES, FLOW SWITCHES AND RELATED ITEMS INDICATED ON THE FIRE PROTECTION PLANS.

F. DRAWINGS ARE SCHEMATIC ONLY, INDICATE DESIGN INTENT AND SHALL NOT BE SCALED. ACTUAL LOCATION OF PIPE, SPRINKLERS, AND EQUIPMENT SHOWN ON DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. COORDINATE FIRE PIPE ROUTING WITH ALL TRADES TO MAXIMIZE AVAILABLE CLEARANCES AND AVOID FIELD INSTALLATION CONFLICTS. ALL EXPOSED PIPING SHALL BE ROUTED AS CLOSE AS POSSIBLE TO THE BUILDING STRUCTURAL MEMBERS, UNLESS NOTED OTHERWISE.

G. MAINTAIN ACCESSIBILITY OF VALVES, FLOW AND TAMPER SWITCHES, INSPECTOR'S TEST STATIONS, FIRE DEPARTMENT CONNECTIONS AND RELATED ITEMS. PROVIDE LABELED ACCESS DOORS WHERE NECESSARY AND AS APPROVED BY THE ARCHITECT.

H. ALL CONTROL, DRAIN, AND TEST CONNECTION VALVES SHALL BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGNS INDICATING THE FUNCTION AND THE PORTION OF THE BUILDING/FACILITY SERVED.

I. INSTALL ALL PIPING, FITTINGS AND JOINTS TO FOLLOW THE GEOMETRY OF THE STRUCTURE. LOCATE EXPOSED PIPING IN PUBLIC AREAS OUT OF DIRECT VIEW WHERE PRACTICAL. EXPOSED PIPING SHALL BE INSTALLED PARALLEL TO ADJACENT BUILDING COMPONENTS.

J. COORDINATE INSTALLATION OF PIPING AND EQUIPMENT WITH ELECTRICAL EQUIPMENT TO MAINTAIN WORKING CLEARANCES IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

K. INSTALL PIPING TO MAINTAIN SPECIFIED CLEARANCES ABOVE CEILINGS.

L. PROVIDE UL APPROVED PENETRATION ASSEMBLIES FOR ALL FIRE PROTECTION PIPING PASSING THROUGH RATED ASSEMBLIES.

M. ALL SPRINKLERS IN FINISHED AREAS SHALL BE QUICK RESPONSE CONCEALED TYPE, UNLESS NOTED OTHERWISE.

N. ALL SPRINKLERS SHALL BE INSTALLED SYMMETRICALLY WHERE POSSIBLE. INSTALL SPRINKLERS IN THE CENTER POINT OF ALL 2 X 2 CEILING TILES, OR CENTERED IN THE NARROW DIRECTON AND EITHER AT THE CENTER OR QUARTER POINT OF THE LONG DIRECTION OF ALL 2 X 4 CEILING TILES.

O. PROVIDE AUTOMATIC SPRINKLERS BELOW ALL DUCTWORK OR OTHER OBSTRUCTIONS AS REQUIRED BY NFPA 13. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR APPLICABLE LOCATIONS. COORDINATE PLACEMENT WITH ACTUAL INSTALLATION.

P. MULTIPLE CEILING MATERIALS AND EXPOSED BUILDING FEATURES ARE DESIGNED THROUGHOUT THIS FACILITY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DETAILS.

Q. CONTRACTOR SHALL INSTALL AN INSPECTOR'S TEST, MAIN DRAIN, AND AUXILIARY DRAINS FOR ALL SYSTEMS AS REQUIRED. ROUTE ALL TEST AND DRAIN PIPING OUTSIDE OF THE BUILDING, UNLESS NOTED OTHERWISE.

R. PROVIDE A GENERAL INFORMATION SIGN FOR EACH SYSTEM AT THE RISER OR SYSTEM CONNECTION. THE SIGN SHALL INCLUDE THE FOLLOWING INFORMATION: NAME AND LOCATION OF THE FACILITY, PRESENCE OF HIGH-PILED AND/OR RACK STORAGE, FLOW TEST INFORMATION, AREA SERVED, PRESENCE OF FLAMMABLE/COMBUSTIBLE LIQUIDS, PRESENCE OF HAZARDOUS MATERIALS, PRESENCE OF OTHER SPECIAL STORAGE, LOCATION OF AUXILIARY AND LOW POINT DRAINS, NAME OF INSTALLING CONTRACTOR, AND LOCATION OF ANTIFREEZE OR ANY OTHER AUXILIARY FIRE PROTECTION SYSTEMS.

S. THE CONTRACTOR SHALL CONTACT AUTHORITIES HAVING JURISDICTION, ANY INSURANCE UNDERWRITERS, ARCHITECT/ENGINEER AND THE OWNER'S REPRESENTATIVE TO WITNESS THE FINAL ACCEPTANCE TESTING OF ALL SYSTEMS.

T. SEE PLUMBING GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

FIRE PROTECTION LEGEND

NOT ALL SYMBOLS MAY BE USED

SYMBOL	ABB.	DESCRIPTION	SYMBOL	ABB.	DESCRIPTION
—A/S— A/S	A/S	AUTOMATIC SPRINKLER SYSTEM	×		ANCHOR
—DPSS— DPSS	DPSS	DRY PIPE SPRINKLER SYSTEM			BUTTERFLY VALVE
—FDR— FDR	FDR	FIRE DRAIN RISER			CAP/PLUG
— F — F	F	FIRE MAIN			CEILING SPRINKLER - CONCEALED
—MDSP— MDSP	MDSP	MANUAL DRY STANDPIPE SYSTEM			CEILING SPRINKLER - RECESSED PENDANT
—PASS— PASS	PASS	PRE-ACTION SPRINKLER SYSTEM			CEILING SPRINKLER - UPRIGHT
— SFFF — SFFF	SFFF	SYNTHETIC FLUORINE FREE FOAM SYSTEM			CHECK VALVE
					FIRE DEPARTMENT CONNECTION
					FIRE EXTINGUISHER CABINET
			X" F-X (UP/DN)		FIRE RISER ID SIZE | SYSTEM-RISER ID (UP/DN)
					GATE VALVE
					PIPE GUIDE
					PIPE TURN DOWN
					PIPE TURN UP
					PRESSURE GAUGE
				PRV	PRESSURE REGULATING VALVE
					REDUCER
					SIDEWALL EXTENDED COVERAGE SPRINKLER
					SIDEWALL SPRINKLER
					SOLENOID VALVE
					WALL HUNG FIRE EXTINGUISHER
				AFF	ABOVE FINISHED FLOOR
				DCVA	DOUBLE CHECK VALVE ASSEMBLY
				DDCVA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
				EMAC	EXTERNAL MOBILE AIR CONNECTION PANEL
				FARS	FIREFIGHTER AIR REPLENISHMENT SYSTEM
				I.E.	INVERT ELEVATION

SEISMIC REQUIREMENTS

CONTRACTOR SHALL SECURE THE SERVICES OF AN ENGINEER REGISTERED WITH THE APPLICABLE STATE TO PROVIDE SEALED AND SIGNED SHOP DRAWINGS OF ALL SUBMITTED SEISMIC SUPPORT SYSTEMS. THE DRAWINGS SHALL SHOW DETAILS OF THE SUBMITTED SEISMIC SUPPORT SYSTEM, LOCATION OF EACH SUPPORT, AND IDENTIFICATION OF SUPPORT TYPE (LONGITUDINAL AND/OR TRANSVERSE). SHOP DRAWINGS SHALL BE SUBMITTED TO THE CODE ENFORCEMENT OFFICE FOR APPROVAL. SMACNA SEISMIC RESTRAINT MANUAL, SECOND EDITION OR LATEST REVISION, MAY BE USED AS A GUIDE FOR GENERAL SEISMIC SUPPORT DETAIL AND SUPPORT SPACING RECOMMENDATIONS.

FIRE PROTECTION SHEET INDEX

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Freestanding Medical Office Building Buildout for:
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Sullivan, Indiana

MICHAEL B BURTON REGISTERED PE12100400 STATE OF INDIANA PROFESSIONAL ENGINEER

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FIRE PROTECTION LEGENDS, INDEX, NOTES AND SCHEDULES

MOST REMOTE AREA PRELIMINARY HYDRAULIC CALCULATION

LOCATION OF DESIGN AREA	CONFERENCE ROOM
DISCHARGE DENSITY	0.10 GPM/SQ. FT.
DEDIGN AREA	1500 SQ. FT.
FLOW AT BASE OF RISER	310 GPM
PRESSURE AT BASE OF RISER	36 PSI
OCCUPANCY/CLASSIFICATION	LIGHT HAZARD
HOSE STREAM	100 GPM

WATER FLOW TEST DATA	
STATIC PRESSURE:	52 PSI
RESIDUAL PRESSURE:	- PSI
FLOW:	839 GPM @ 20 PITOT
DATE OF TEST:	2/13/2024
TIME OF TEST:	-
TESTED BY:	INDIANA AMERICAN WATER
WITNESS:	

NOTES:
PRELIMINARY HYDRAULIC INFORMATION AND WATER FLOW TEST DATA INDICATED ARE FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN CURRENT FLOW TEST DATA FOR FINAL HYDRAULIC CALCULATIONS.

AUTOMATIC SPRINKLER DESIGN SCHEDULE

GENERAL NOTES:

1. HYDRAULIC CALCULATIONS TO INCLUDE 100 GPM HOSE ALLOWANCE FOR LIGHT HAZARD OCCUPANCIES, AND 250 FOR ORDINARY HAZARD OCCUPANCIES.
2. AUTOMATIC SPRINKLER ZONES PROVIDING PROTECTION IN AREAS WITH SMOKE EVACUATION SHALL BE INTERLOCKED TO INITIATE THE SMOKE EVACUATION SEQUENCE UPON DETECTION OF FLOW.
3. HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA 13 REQUIREMENTS.

OCCUPANCY DESCRIPTION	HAZARD CLASSIFICATION	HYDRAULIC DENSITY OVER THE MOST REMOTE AREA	MAXIMUM AREA OF PROTECTION PER AUTOMATIC SPRINKLER HEAD
OFFICE AREAS	LIGHT HAZARD	0.10 GPM/1500 SQ. FT.	225 SQ. FT.
RESTROOM AREAS	LIGHT HAZARD	0.10 GPM/1500 SQ. FT.	225 SQ. FT.
MECHANICAL & ELECTRICAL EQUIPMENT ROOMS	ORDINARY GROUP 1	0.15 GPM/2000 SQ. FT.	130 SQ. FT.
GENERAL STORAGE ROOMS	ORDINARY GROUP 1	0.15 GPM/2000 SQ. FT.	130 SQ. FT.

SHEET GENERAL NOTES

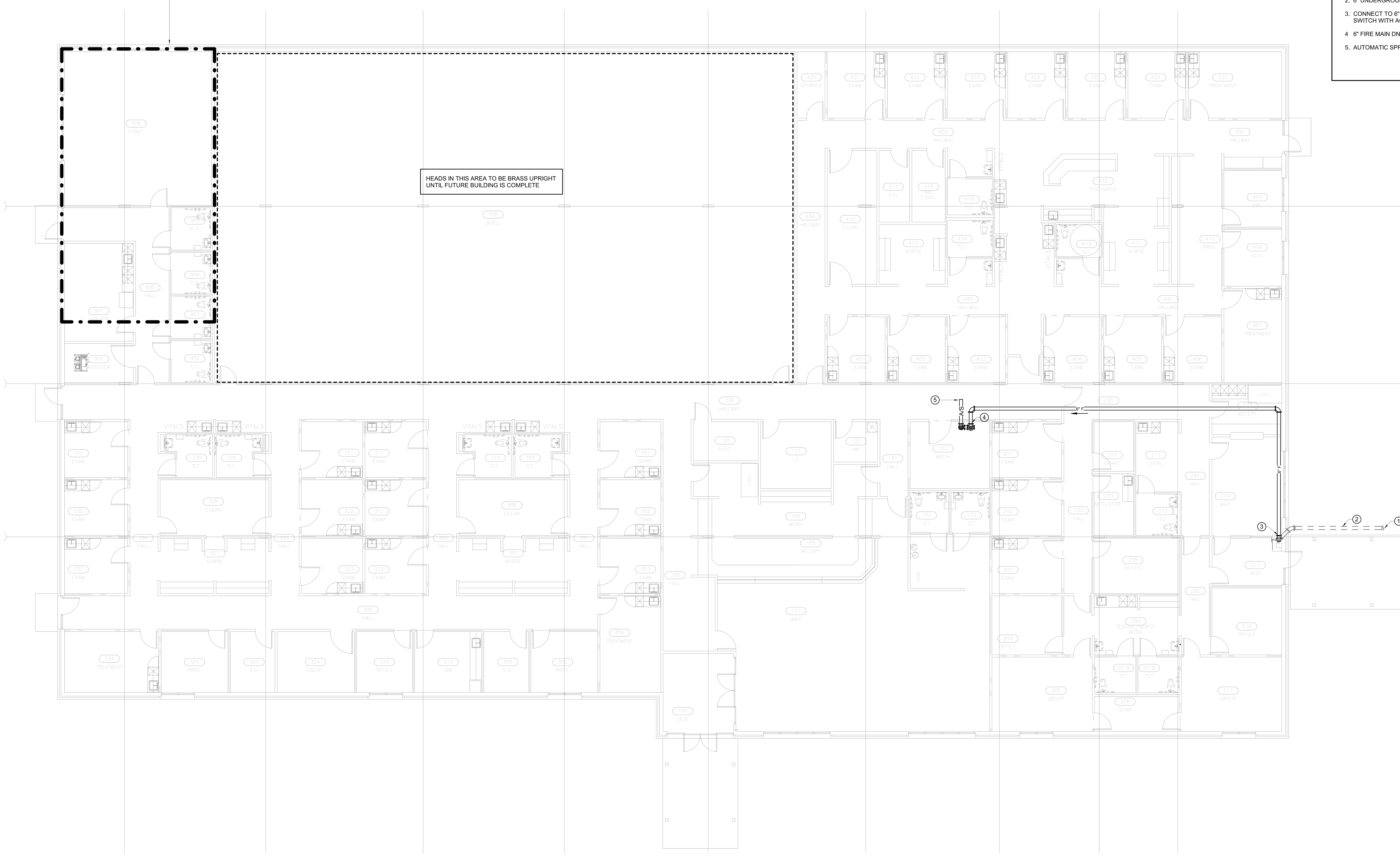
A. SEE SHEET FP0.0 FOR GENERAL NOTES, LEGENDS AND INDEX.

B. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE TO PROVIDE THE ENTIRE BUILDING WITH A HYDRAULIC CALCULATED AUTOMATIC SPRINKLER SYSTEM. THE FIRE SUPPRESSION SYSTEM SHALL BE DESIGNED IN FULL ACCORDANCE WITH NFPA 10, 13, 14, 101 AND ALL LOCAL / STATE REQUIREMENTS. SYSTEM SHALL BE DESIGNED AND INSTALLED BY A STATE LICENSED SPRINKLER CONTRACTOR. SPRINKLER CONTRACTOR SHALL COORDINATE ALL SPRINKLER / FIRE PROTECTION WORK WITH THE OWNER AND THE WORK OF OTHER TRADES. UPON COMPLETION OF INSTALLATION, THE ENTIRE SYSTEM SHALL BE ACTIVATED AND TESTED IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION, INCLUDING OWNER 'S INSURANCE COMPANY. FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODES.

C. SEE SECTION 21 05 48 FOR SEISMIC REQUIREMENT.

⊗ SHEET KEYED NOTES

1. SEE CIVIL ENGINEERING SITE PLAN FOR CONTINUATION AND LOCATION OF DOUBLE CHECK ASSEMBLY, PIV AND FDC. PIV SHALL BE INSTALLED MIN. 40' FROM THE PROJECT BUILDING.
2. 6" UNDERGROUND FIRE MAIN (UNDER SHELL PACKAGE).
3. CONNECT TO 6" FIRE MAIN WITH ISOLATION VALVE AND TAMPER SWITCH WITH ACCESS PANEL INSTALLED UNDER SHELL PACKAGE.
4. 6" FIRE MAIN DN. TO WET PIPE ALARM CHECK VALVE. SEE DETAIL.
5. AUTOMATIC SPRINKLER BUILDING SUPPLY.



1 FIRE PROTECTION FLOOR PLAN
1/8" = 1'-0"

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FIRE PROTECTION FLOOR PLAN

A. FLEXIBILITY/RIGIDITY
1. LISTED FLEXIBLE PIPE COUPLINGS JOINING GROOVED END PIPE SHALL BE PROVIDED AS FLEXURE JOINTS TO ALLOW INDIVIDUAL SECTIONS OF PIPING 2½" OR LARGER TO MOVE DIFFERENTIALLY WITH THE INDIVIDUAL SECTIONS OF THE BUILDING TO WHICH IT IS ATTACHED.
2. COUPLINGS SHALL BE ARRANGED TO COINCIDE WITH STRUCTURAL SEPARATIONS WITHIN A BUILDING.
3. ALL OTHER COUPLINGS TO BE RIGID TYPE.
4. SYSTEMS HAVING MORE FLEXIBLE COUPLINGS THAN REQUIRED SHALL BE PROVIDED WITH ADDITIONAL SWAY BRACING AS REQUIRED BY NFPA 13.
5. SEISMIC SEPARATION ASSEMBLIES WITH FLEXIBLE FITTINGS SHALL BE INSTALLED WHERE SPRINKLER PIPING, REGARDLESS OF SIZE, CROSSES BUILDING SEISMIC SEPARATION JOINTS ABOVE GROUND LEVEL.

B. CLEARANCE
1. CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING EXTENDING THROUGH WALLS, FLOORS, PLATFORMS, AND FOUNDATIONS, INCLUDING DRAINS, FIRE DEPARTMENT CONNECTIONS, AND OTHER AUXILIARY PIPING.
2. UNLESS THE REQUIREMENTS OF NFPA ARE MET, WHERE PIPE PASSES THROUGH HOLES IN PLATFORMS, FOUNDATIONS, WALLS, OR FLOORS, THE HOLES SHALL BE SIZED SUCH THAT THE DIAMETER OF THE HOLES IS NOMINALLY 2" LARGER THAN THE PIPE FOR 1" TO 3½" AND 4" LARGER THAN THE PIPE FOR PIPE 4" AND LARGER.
3. CLEARANCE FROM STRUCTURAL MEMBERS NOT PENETRATED OR USED COLLECTIVELY OR INDEPENDENTLY TO SUPPORT THE PIPE SHALL BE AT LEAST 2".
4. WHERE CLEARANCE IS PROVIDED BY A PIPE SLEEVE, A NOMINAL DIAMETER 2" LARGER THAN THE NOMINAL DIAMETER OF THE PIPE IS ACCEPTABLE FOR PIPE SIZES 1" THROUGH 3½" AND THE CLEARANCE PROVIDED BY A PIPE SLEEVE OF NOMINAL DIAMETER 4" LARGER THAN THE NOMINAL DIAMETER OF THE PIPE IS ACCEPTABLE FOR PIPE SIZES 4" AND LARGER.
5. WHERE REQUIRED THE CLEARANCE SHALL BE FILLED WITH A FLEXIBLE MATERIAL SUCH AS MASTIC.
6. CLEARANCE IS NOT REQUIRED FOR PIPING PASSING THROUGH GYPSUM BOARD OR EQUALLY FRANGIBLE CONSTRUCTION THAT IS NOT REQUIRED TO HAVE A FIRE RESISTANCE RATING.
7. CLEARANCE IS NOT REQUIRED IF FLEXIBLE COUPLINGS ARE LOCATED WITHIN 1 FT OF EACH SIDE OF A WALL, FLOOR, PLATFORM, OR FOUNDATION.
8. CLEARANCE IS NOT REQUIRED WHERE HORIZONTAL PIPING PASSES PERPENDICULARLY THROUGH SUCCESSIVE STUDS OR JOISTS THAT FORM A WALL OR FLOOR/CEILING ASSEMBLY.
9. CLEARANCE IS NOT REQUIRED WHERE NONMETALLIC PIPE HAS BEEN DEMONSTRATED TO HAVE INHERENT FLEXIBILITY EQUAL TO OR GREATER THAN THE MINIMUM PROVIDED BY FLEXIBLE COUPLINGS LOCATED WITHIN 1 FT OF EACH SIDE OF A WALL, FLOOR, PLATFORM, OR FOUNDATION.

C. SWAY BRACING
1. THE SYSTEM PIPING SHALL BE BRACED TO RESIST BOTH LATERAL AND LONGITUDINAL HORIZONTAL SEISMIC LOADS AND TO PREVENT VERTICAL MOTION RESULTING FROM SEISMIC LOADS.
2. SWAY BRACES SHALL BE DESIGNED TO WITHSTAND FORCES IN TENSION AND COMPRESSION, UNLESS THE REQUIREMENTS OF NFPA ARE MET.
3. TENSION-ONLY BRACING SYSTEMS SHALL BE PERMITTED FOR USE WHERE LISTED FOR THIS SERVICE AND WHERE INSTALLED IN ACCORDANCE WITH THEIR LISTING LIMITATIONS, INCLUDING INSTALLATION INSTRUCTIONS.
4. THE STRUCTURAL COMPONENTS TO WHICH BRACING IS ATTACHED SHALL BE DETERMINED TO BE CAPABLE OF CARRYING THE ADDED APPLIED SEISMIC LOADS.
5. SWAY BRACING SHALL BE TIGHT.

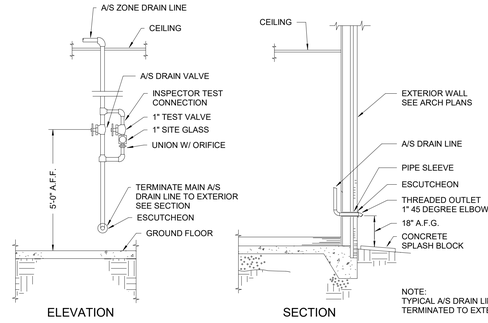
D. LATERAL SWAY BRACING
1. LATERAL SWAY BRACING SPACED AT A MAXIMUM INTERVAL OF 40 FT ON CENTER SHALL BE PROVIDED ON ALL FEED AND CROSS MAINS REGARDLESS OF SIZE AND ALL BRANCH LINES AND OTHER PIPING WITH A DIAMETER OF 2½" AND LARGER.
2. THE DISTANCE BETWEEN THE LAST BRACE AND THE END OF THE PIPE SHALL NOT EXCEED 20 FT.
3. THE LAST LENGTH OF PIPE AT THE END OF A FEED OR CROSS MAIN SHALL BE PROVIDED WITH A LATERAL BRACE.
4. LATERAL BRACES SHALL BE ALLOWED TO ACT AS LONGITUDINAL BRACES IF THEY ARE WITHIN 24" OF THE CENTERLINE OF THE PIPING BRACED LONGITUDINALLY FOR LINES THAT ARE 2½" AND GREATER IN DIAMETER.
5. WHERE FLEXIBLE COUPLINGS ARE INSTALLED ON MAINS OTHER THAN AS REQUIRED IN BY NFPA, A LATERAL BRACE SHALL BE PROVIDED WITHIN 24" OF EVERY OTHER COUPLING, BUT NOT MORE THAN 40 FT ON CENTER.
3. FOR LATERAL BRACES, THE LOAD SHALL INCLUDE ALL BRANCH LINES AND MAINS, UNLESS THE BRANCH LINES ARE PROVIDED WITH LONGITUDINAL BRACING, WITHIN THE ZONE OF INFLUENCE OF THE BRACE.

E. LONGITUDINAL SWAY BRACING
1. LONGITUDINAL SWAY BRACING SPACED AT A MAXIMUM OF 80 FT ON CENTER SHALL BE PROVIDED FOR FEED AND CROSS MAINS.
2. LONGITUDINAL BRACES SHALL BE PERMITTED TO SERVE AS LATERAL BRACES WHERE THEY ARE INSTALLED WITHIN 24" OF THE PIPING THAT IS BRACED LATERALLY.
3. THE DISTANCE BETWEEN THE LAST BRACE AND THE END OF THE PIPE SHALL NOT EXCEED 40 FT.
4. FOR LONGITUDINAL BRACES, THE LOAD SHALL INCLUDE ALL MAINS WITHIN THE ZONE OF INFLUENCE OF THE BRACE.

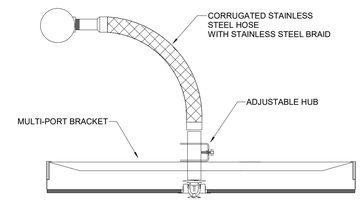
F. HORIZONTAL LOADS
1. FOR INDIVIDUAL BRACES, THE SLENDERNESS RATIO (L/R) SHALL NOT EXCEED 300 WHERE L IS THE LENGTH OF THE BRACE AND R IS THE LEAST RADIUS OF GYRATION.
2. WHERE THREADED PIPE IS USED AS PART OF A SWAY BRACE ASSEMBLY, IT SHALL NOT BE LESS THAN SCHEDULE 30.
3. ALL PARTS AND FITTINGS OF A BRACE SHALL LIE IN A STRAIGHT LINE TO AVOID ECCENTRIC LOADINGS ON FITTINGS AND FASTENERS.
4. FOR TENSION-ONLY BRACES, TWO TENSION-ONLY BRACE COMPONENTS OPPOSING EACH OTHER MUST BE INSTALLED AT EACH LATERAL OR LONGITUDINAL BRACE LOCATION.
5. FOR ALL BRACES, WHETHER OR NOT LISTED, THE MAXIMUM ALLOWABLE HORIZONTAL LOAD SHALL BE BASED ON THE WEAKEST COMPONENT OF THE BRACE WITH SAFETY FACTORS.

G. CODES
1. BRACING NOTES AND REQUIREMENTS DERIVED FROM NFPA 2002 EDITION
2. ADDITIONAL REQUIREMENTS PER NFPA, FIRE CODE, AND BUILDING CODE ARE REQUIRED.

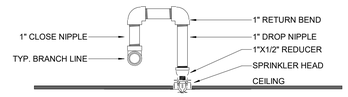
SEISMIC BRACING REQUIREMENT | 4



A/S DRAIN AND TEST CONNECTION | 2

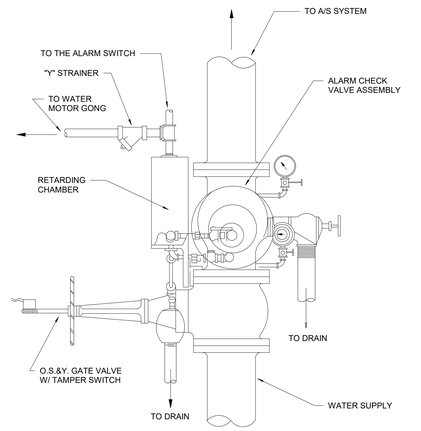


FLEX-HEAD DETAIL (OPTIONAL)
SCALE: NONE



RETURN BEND DETAIL
SCALE: NONE

SPRINKLER HEADS | 3



WET PIPE SPRINKLER SERVICE ENTRANCE | 1

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FIRE PROTECTION DETAILS

RECEPTACLES

Symbol	Description
11 XX	DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT 11 = CIRCUIT NUMBER (TYPICAL) XX= RECEPTACLE DESIGNATOR (TYPICAL)
	DUPLEX RECEPTACLE - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT
	DOUBLE-DUPLEX RECEPTACLE
	DOUBLE-DUPLEX RECEPTACLE - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT
	DUPLEX GFCI RECEPTACLE
	DUPLEX GFCI RECEPTACLE - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT
	SWITCHED DUPLEX RECEPTACLE - STANDARD MOUNTING HEIGHT
	DUPLEX RECEPTACLE, BACKUP POWER - STANDARD MOUNTING HEIGHT
	DUPLEX RECEPTACLE, BACKUP POWER - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT
	DOUBLE-DUPLEX RECEPTACLE, BACKUP POWER - STANDARD MOUNTING HEIGHT
	DOUBLE-DUPLEX RECEPTACLE, BACKUP POWER - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT
	DUPLEX GFCI RECEPTACLE, BACKUP POWER - STANDARD MOUNTING HEIGHT
	DUPLEX GFCI RECEPTACLE, BACKUP POWER - ABOVE COUNTER OR SPECIAL MOUNTING HEIGHT
	SPECIAL CONFIGURATION RECEPTACLE (TYPE AS NOTED)
	SPECIAL CONFIGURATION RECEPTACLE, BACKUP POWER (TYPE AS NOTED)
XX	FLOOR BOX / POKE-THRU XX - DEVICE TYPE
XX	FLOOR BOX / POKE-THRU, BACKUP POWER XX - DEVICE TYPE
	SURFACE WIREWAY OR RACEWAY WITH RECEPTACLES AS NOTED

LIGHTING

Symbol	Description
XX 1 [x]	LIGHTING FIXTURE ANNOTATIONS (LOCATION OF DESIGNATORS MAY VARY) FIXTURE TYPE: **XX** CIRCUIT NUMBER: 1 CONTROL DESIGNATION: [x]
	SURFACE, SUSPENDED, OR RECESSED LUMINAIRES (TYPE DETERMINES MOUNTING)
	RECESSED OR SURFACE DOWNLIGHT LUMINAIRE
	PENDANT MOUNTED LUMINAIRE
	WALLWASH LUMINAIRE
	WALL MOUNTED LUMINAIRES
	NO SHADING INDICATES CONNECTION TO NORMAL BRANCH CIRCUIT
	ILLUMINATED EXIT SIGNS, PROVIDE DIRECTIONAL ARROWS AND MOUNTING AS INDICATED ON PLANS
	BATTERY POWERED EMERGENCY LIGHT
	POLE MOUNTED SITE LIGHTING LUMINAIRES
	GROUND OR POLE MOUNTED FLOODLIGHT

SWITCHES AND LIGHTING CONTROLS

NORMAL	
S	SINGLE POLE SWITCH
S_2	DOUBLE POLE, SINGLE THROW SWITCH
S_3	THREE-WAY SWITCH
S_4	FOUR-WAY SWITCH
S_K	SINGLE POLE SWITCH - KEY OPERATED
S_D	DIMMER SWITCH
S_{LV}	LOW VOLTAGE SWITCH
S_P	SINGLE POLE SWITCH WITH PILOT LIGHT
S_{OC}	OCCUPANCY SENSOR SWITCH, WALL MOUNT
S_{VD}	VACANCY DIMMER
S_{VC}	VACANCY SENSOR SWITCH
S_M	MOTOR RATED SWITCH WITH THERMAL OVERLOAD
S_T	TIMER SWITCH
S_V	VARIABLE INTENSITY SWITCH
S_J	JOG SWITCH
PC	PHOTOCELL - CEILING / WALL MOUNT
OC	OCCUPANCY SENSOR - CEILING / WALL MOUNT
DS	DAYLIGHT SENSOR - CEILING / WALL MOUNT
VC	VACANCY SENSOR - CEILING / WALL MOUNT
XX	LIGHTING CONTROL DESIGNATION - REFER TO LIGHTING CONTROL SCHEDULE

CIRCUITS AND RACEWAYS

Symbol	Description
	CIRCUIT OR RACEWAY CONCEALED OR EXPOSED
	CIRCUIT OR RACEWAY BELOW OR IN FLOOR SLAB OR BELOW GRADE
	CONDUIT OR RACEWAY TURNING UP
	CONDUIT OR RACEWAY TURNING DOWN
	CAPPED CONDUIT OR RACEWAY
	CIRCUIT OR CONDUIT CONTINUATION
	HOMERUN TO PANELBOARD - REFER TO SPECIFICATIONS FOR MINIMUM CONDUIT SIZES.

FIRE ALARM

Symbol	Description
	FIRE ALARM VISUAL DEVICE - STROBE ONLY
	FIRE ALARM CEILING MOUNT VISUAL DEVICE - STROBE ONLY
	FIRE ALARM AUDIO DEVICE
	FIRE ALARM AUDIO DEVICE WITH STROBE
	FIRE ALARM HORN
	FIRE ALARM HORN WITH STROBE
	FIRE ALARM CEILING MOUNT HORN WITH STROBE
	FIRE ALARM CEILING MOUNT AUDIO DEVICE WITH STROBE
FS	FIRE ALARM CEILING MOUNT SPEAKER
F	FIRE ALARM MANUAL PULL STATION
2 XX	FIRE ALARM SMOKE DETECTOR NO SUBSCRIPT= IONIZATION TYPE; P= PHOTOELECTRIC; SS= SINGLE STATION SMOKE ALARM
H	FIRE ALARM HEAT DETECTOR SUBSCRIPT AS FOLLOWS: R=RATE OF RISE; T=FIXED TEMPERATURE
SD	FIRE ALARM DUCT SMOKE DETECTOR
	GAS DETECTOR
	FLAME DETECTOR
BD X	BEAM DETECTOR SUBSCRIPT AS FOLLOWS: T=TRANSMITTER; R=RECEIVER
CM	FIRE ALARM CONTROL MODULE
MM	FIRE ALARM MONITOR MODULE
RM	FIRE ALARM RELAY MODULE
FS	FLOW SWITCH
TS	TAMPER SWITCH
F	FIREFIGHTER'S TELEPHONE JACK
	MAGNETIC DOOR HOLDER
R	SMOKE DETECTOR REMOTE INDICATOR / TEST SWITCH
FACU	FIRE ALARM CONTROL UNIT
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FEP	FIRE ALARM EXTENDER PANEL
SCPP	SMOKE CONTROL AND PRESSURE PANEL

MISCELLANEOUS

Symbol	Description
	NON-FUSED SAFETY SWITCH, SIZE AS NOTED (AMP RATING/POLES)
	FUSED/CIRCUIT BREAKER SAFETY SWITCH, SIZE AS NOTED (AMP RATING/POLES/FUSE SIZE)
	COMBINATION MOTOR STARTER
	FACTORY WIRED CONTROLLER OR EQUIPMENT
X	MOTOR CONNECTION
	DUCT HEATER CONNECTION
J	JUNCTION BOX - WALL MOUNTED UNLESS OTHERWISE NOTED
	PANELBOARD
RX	X-RAY ISOLATION PANEL LINE ISOLATION MONITOR
R	ISOLATION PANEL LINE ISOLATION MONITOR
C	CLOCK, SINGLE FACE - CLOCK AND RECEPTACLE AS SPECIFIED
C2	CLOCK, DOUBLE FACE - CLOCK AND RECEPTACLE AS SPECIFIED
C ET	ELAPSED TIMER - DIGITAL TYPE
ET	ELAPSED TIMER CONTROL - DIGITAL TYPE
AAP	MEDICAL GAS AREA ALARM PANEL
BAS	BUILDING AUTOMATION SYSTEM CONTROL PANEL
CAP	MEDICAL GAS COMPRESSED AIR CONTROL PANEL
GRA	GENERATOR REMOTE ANNUNCIATOR PANEL
MAP	MEDICAL GAS MASTER ALARM PANEL
NCP	MEDICAL GAS NITROGEN CONTROL PANEL
SP	SECURITY SYSTEM CONTROL PANEL
DC	DOOR SWITCH MOUNTED IN DOOR JAMB
DR	DOOR RELEASE PUSH BUTTON
CR	CARD READER
KP	ELECTRONIC KEY PAD
	PUSH BUTTON STATION
VFD	VARIABLE FREQUENCY DRIVE
P	PUSH PLATE (DOOR OPERATOR)
J X-###	SPECIALTY/MECHANICAL EQUIPMENT TAG
	COMMUNICATIONS OUTLET - STANDARD MOUNTING HEIGHT, SPECIAL MOUNTING HEIGHT, CEILING
	WALL PHONE
TV	CATV OUTLET

ABBREVIATIONS

AD	AUTO DOOR
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
CLG	CEILING
CR	CONTROLLED RECEPTACLE
CS	CONTROLLED RECEPTACLE - SPLIT WIRED
DC	DIGITAL CLOCK
E	EMERGENCY POWER
EPO	EMERGENCY POWER OFF
ETR	EXISTING TO REMAIN
FBO	FURNISHED BY OTHERS
FLR	FLOOR MOUNTED
FSD	FIRE/SMOKE DAMPER
GFCI	GROUND FAULT CIRCUIT INTURRUPTER
IG	ISOLATED GROUND
MECH	MECHANICAL CONTROL POWER
NEX	REMOVE EXISTING ELECTRICAL DEVICE AND INSTALL NEW ELECTRICAL DEVICE IN EXISTING OUTLET BOX. REFER TO NEW FLOOR PLANS FOR NEW DEVICE TYPE AND WIRING REQUIREMENTS. PROVIDE NEW COVERPLATE
RD	NEW LOCATION OF RELOCATED DEVICE
REX	REMOVE EXISTING ELECTRICAL DEVICE ALONG WITH RELATED CONDUIT AND WIRING, UON
RR	REMOVE AND RELOCATE EXISTING ELECTRICAL DEVICE AS INDICATED OR AS NOTED ON DRAWINGS
STRIKE	ELECTRONIC STRIKE
TR	TAMPER RESISTANT
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF

GENERAL NOTES

ELECTRICAL GENERAL NOTES:

A. WORK SHALL CONFORM TO LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE INDUSTRY STANDARDS. EQUIPMENT SHALL BE LISTED/LABELED BY NATIONALLY RECOGNIZED TESTING AGENCY FOR THE INTENDED USE.

B. COORDINATE FINAL LOCATIONS AND INSTALLATION REQUIREMENTS OF LIGHT FIXTURES, EQUIPMENT AND DEVICES WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS, AND OTHER TRADES PRIOR TO ROUGH-IN. PROVIDE NECESSARY ACCESSORIES FOR COMPLETE AND PROPER OPERATION IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.

C. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND REPRESENT GENERAL SCOPE OF WORK. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW EVERY ITEM/DETAIL REQUIRED FOR COMPLETED INSTALLATION.

D. NOTES ON FLOOR PLANS AND SITE PLAN APPLY ONLY TO THE WORK SCOPE WITHIN THE BOUNDARY OF THE SHEET ON WHICH THEY APPEAR, UNLESS INDICATED OTHERWISE.

E. WHERE EQUIPMENT GROUND BUS BARS ARE SPECIFIED OR INDICATED ON DRAWINGS, INSTALL IN LOCATION WHICH WILL ALLOW ADEQUATE ACCESS FOR FUTURE CONNECTIONS.

F. WHERE WIRING DEVICES ARE INDICATED BACK-TO-BACK ON A COMMON WALL, INSTALL SUCH THAT A 12" HORIZONTAL SPACING IS PROVIDED BETWEEN THEM TO REDUCE NOISE TRANSMISSION.

G. PROVIDE FIRE PROOFING AT PENETRATIONS THROUGH RATED WALLS TO MEET OR EXCEED WALL RATING USING UL LISTED PRODUCTS IN ACCORDANCE WITH MANUFACTURE INSTRUCTION/UL PENETRATION DETAILS.

H. RACEWAYS SHALL BE CONCEALED FROM VIEW WHEREVER POSSIBLE. WHERE EXPOSED, RACEWAYS MUST BE INSTALLED IN NEAT AND WORKMANLIKE MANNER AND PARALLEL/PERPENDICULAR TO WALLS IN ASSOCIATED SPACE.

I. NUMBER OF BENDS SHALL NOT EXCEED THE EQUIVALENT OF FOUR 90 DEGREE BENDS (360 DEGREES TOTAL) BETWEEN PULL POINTS IN ACCORDANCE WITH NEC ARTICLES 342, 344, 358. WHERE REQUIRED, PULL POINTS SHALL BE SIZED IN ACCORDANCE WITH NEC ARTICLE 314.

J. CONDUIT ROUTING, AND WIRE COUNTS ARE NOT INDICATED ON FLOOR PLANS. CONTRACTOR TO PROVIDE RACEWAYS IN ACCORDANCE WITH SPECIFICATIONS AND WIRE COUNTS AS REQUIRED TO ACHIEVE CIRCUITING AND CONTROL OPERATION AS INDICATED.

K. WHERE DEVICES ARE INDICATED IN CAST-IN-PLACE CONCRETE OR PRECAST, COORDINATE LOCATIONS OF DEVICES AND ROUTING OF RACEWAYS AND PENETRATIONS WITH ARCHITECT AND WALL SUPPLIER AND REMAINING TRADES TO ENSURE RACEWAYS ARE CONCEALED AND DEVICES ARE PROPERLY PLACED.

L. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH CIRCUIT REQUIRING NEUTRAL CONNECTION. NEUTRAL CONDUCTOR SHALL BE CONSIDERED CURRENT-CARRYING FOR THE PURPOSES OF DERATING AND RACEWAY FILL CALCULATIONS. MULTI-WIRE BRANCH CIRCUITS ARE NOT PERMITTED UNLESS SPECIFICALLY INDICATED.

M. RACEWAYS SHALL BE LIMITED TO A MAXIMUM OF SIX CURRENT CARRYING CONDUCTORS (I.E. THREE 120V OR 277V BRANCH CIRCUITS), UNLESS OTHERWISE NOTED. WHERE THE NUMBER OF CURRENT CARRYING CONDUCTORS EXCEEDS THREE (INCLUDING NEUTRAL CONDUCTORS PER NEC 310.15), THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED PER THE "ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT-CARRYING CONDUCTORS" TABLE IN NEC 310.15.

N. COORDINATE EXACT DIMENSIONS FOR LOCATIONS OF FLOOR MOUNTED BOXES AND FIRE-RATED POKE-THRU ASSEMBLIES WITH ARCHITECT PRIOR TO ROUGH-IN.

O. INSTALL ELECTRICAL EQUIPMENT SUCH THAT MANUFACTURER'S VENTILATION REQUIREMENTS AND NEC REQUIRED CLEARANCES ARE MAINTAINED.

P. MAINTAIN 2 FEET SEPARATION BETWEEN LIGHTING/POWER CIRCUITS AND A/V CIRCUITS WHERE ROUTED IN PARALLEL. CROSSINGS SHALL BE AS CLOSE TO 90 DEGREES AS POSSIBLE.

Q. FLEXIBLE CONDUIT IS PERMITTED ONLY WHERE SPECIFICALLY ALLOWED BY SPECIFICATIONS, IN LENGTHS 6' OR LESS AND WHERE CONCEALED FROM VIEW.

R. WHERE DIMENSIONS ARE SHOWN ADJACENT TO A DEVICE (I.E. +6"), THE DEVICE SHALL BE INSTALLED WITH CENTERLINE MEASURED TO THE FINISHED FLOOR.

S. PROVIDE PULL LINE OR TAPE IN EACH EMPTY CONDUIT LEFT FOR FUTURE USE OR FOR OTHER DISCIPLINE USE.

T. PROVIDE GFCI PROTECTION FOR OUTLETS WHERE INDICATED AND WHERE REQUIRED BY CODE. WHERE DEVICES ARE MOUNTED BEHIND FIXED EQUIPMENT, GFCI BREAKERS SHALL BE PROVIDED WHERE COMMERCIALLY AVAILABLE. WHERE BOTH GFCI PROTECTION AND SHUNT TRIP FUNCTION ARE REQUIRED, OR, WHERE GFCI BREAKERS ARE NOT AVAILABLE, PROVIDE IN-LINE GFCI MODULE IN FLUSH OUTLET BOX OR FLUSH MOUNTED HINGED ENCLOSURE MOUNTED ADJACENT TO PANEL CONTAINING SHUNT TRIP BREAKER FOR THE ASSOCIATED CIRCUIT/OUTLET. LABEL ASSOCIATED RECEPTACLES AS 'GROUND FAULT PROTECTED'.

U. CONTRACTOR SHALL PAY PARTICULAR ATTENTION DURING ROUGH-IN TO PLACEMENT OF BOXES FOR SWITCHES, RECEPTACLES, TELECOM OUTLETS, ETC., TO ENSURE BOXES ARE GANGED AND GROUPED TOGETHER AND ALIGNED. CONTRACTOR SHALL SPAN BETWEEN FRAMING CHANNELS AS NECESSARY TO ACCOMPLISH POSITIONING OF DEVICES AS DESCRIBED. DEVICES SHOWN ADJACENT SHALL BE MOUNTED UNDER A COMMON PLATE, UNLESS OTHERWISE NOTED. FOR HIGH FINISH AREAS, DEFER TO ARCHITECTURAL ELEVATIONS FOR DEVICE PLACEMENT, WHERE INDICATED.

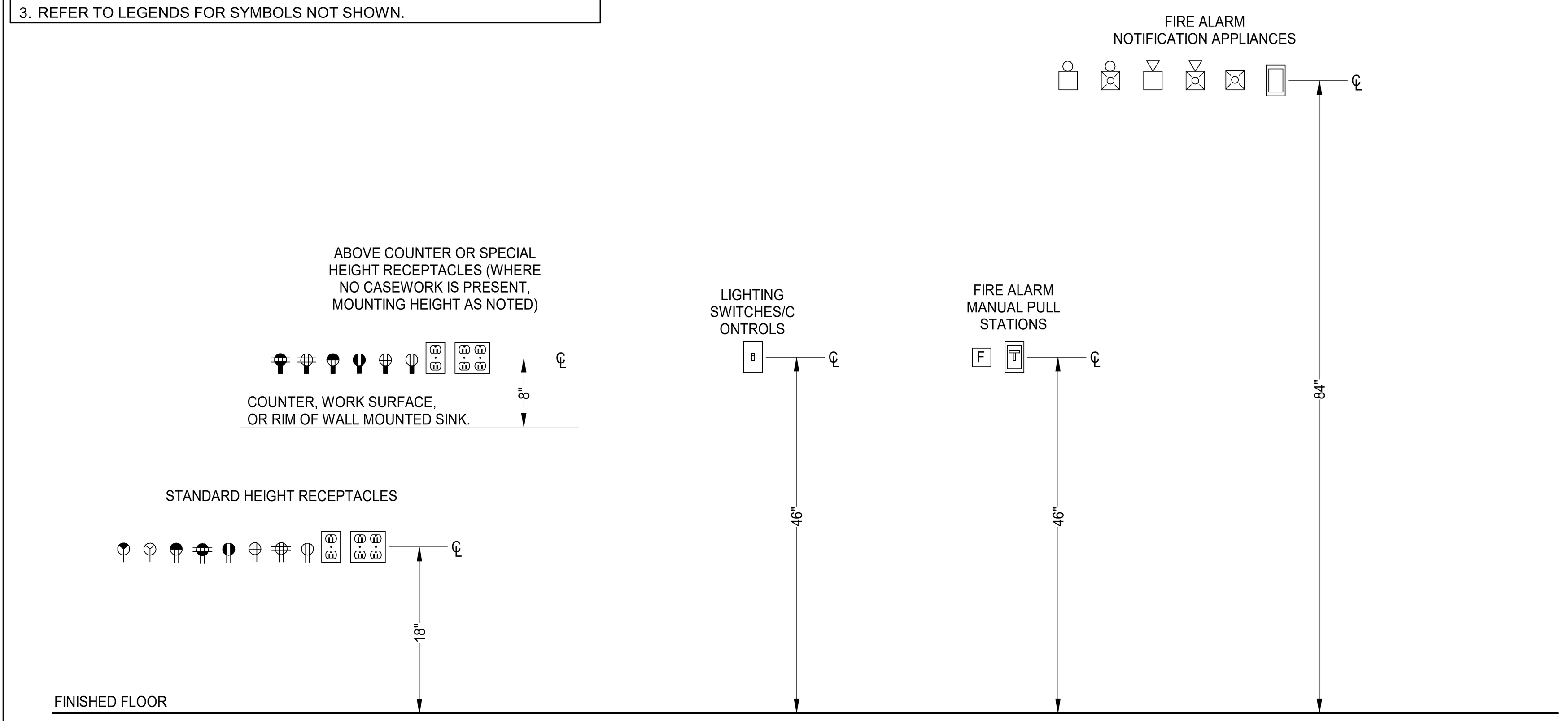
V. WHERE WIRE AND CONDUITS SIZES ARE SHOWN ON ONE PART OF A FEEDER OR BRANCH CIRCUIT, USE THE SAME WIRE AND RACEWAY FOR THE ENTIRE FEEDER OR BRANCH CIRCUIT UNLESS OTHERWISE NOTED ON THE DRAWINGS.

FIRE ALARM GENERAL NOTES:

A. REFER TO MECHANICAL DRAWINGS FOR QUANTITIES AND LOCATIONS OF DAMPERS, DUCT SMOKE DETECTORS AND UNIT MOUNTED DETECTORS

B. REFER TO FIRE PROTECTION DRAWINGS FOR QUANTITIES AND LOCATIONS OF FLOW AND TAMPER SWITCHES.

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND ADDITIONAL INFORMATION. ARCHITECTURAL ELEVATIONS SHALL GOVERN FOR SPECIAL MOUNTING HEIGHT RECEPTACLES AND SWITCHES.
2. COORDINATE ALL SPECIAL HEIGHT RECEPTACLES FOR TELEVISIONS WITH MOUNTING BRACKET AND CATV OUTLET.
3. REFER TO LEGENDS FOR SYMBOLS NOT SHOWN.



ELECTRICAL DEVICE MOUNTING HEIGHT DETAIL 1

SHEET INDEX - FITOUT

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Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

HERBERT M. JENKINS STATE OF INDIANA PROFESSIONAL ENGINEER
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ELECTRICAL LEGENDS, INDEX, AND NOTES - BUILDOUT

CONSTRUCTION DRAWINGS

LUMINAIRE SCHEDULE

GENERAL NOTES:

1. REFER TO AND COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR FINAL FIXTURE LOCATIONS, CEILING TYPES, MOUNTING TYPES, ETC. PROVIDE REQUIRED MOUNTING KITS (I.E. FLANGE KITS, FLANGELESS FRAMES, ETC.) AS REQUIRED FOR CEILING COMPATIBILITY. VERIFY AND COORDINATE ALL FIXTURE FINISHES WITH ARCHITECT PRIOR TO ORDERING.
2. WHERE EXIT SIGNS ARE CIRCUITED WITH OTHER FIXTURES, THEY SHALL BE CONNECTED TO THE UNSWITCHED PORTION OF THE CIRCUIT.
3. WHERE FIXTURES EQUIPPED WITH BATTERY PACKS, OR 'BUG-EYE' UNITS, ARE INDICATED, THE BATTERY UNIT SHALL BE CONNECTED TO THE UNSWITCHED PORTION OF THE CIRCUIT.
4. CONFIRM LED DRIVER DIMMING COMPATIBILITY (E.G. 0-10V, ELV, ETC.) FOR ALL FIXTURES PRIOR TO ORDERING. REFER TO LIGHTING PLANS, LIGHTING CONTROLS SPECIFICATIONS, AND LIGHTING CONTROL DIAGRAMS FOR ADDITIONAL INFORMATION.
5. REFER TO ELECTRICAL SITE PLANS FOR QUANTITY AND ORIENTATION OF FIXTURE HEADS FOR EACH POLE LOCATION. PROVIDE CORRESPONDING MOUNTING ARMS AND ADAPTERS AS NEEDED.
6. WHERE SUSPENDED OR PENDANT MOUNTED FIXTURES ARE SPECIFIED, REFER TO ARCHITECTURAL DRAWINGS FOR OVERALL SUSPENSION LENGTHS AND MOUNTING HEIGHTS. PROVIDE ALL NECESSARY HARDWARE, ADAPTERS, ETC., FOR A COMPLETE INSTALLATION.
7. WHERE FIXTURES ARE SHOWN IN CONTINUOUS RUNS (E.G. COVES, SUSPENDED LINEAR, RECESSED LINEAR, UNDER CABINET, ETC.) PROVIDE STANDARD LENGTH SECTIONS WHERE POSSIBLE TO ACHIEVE ROW LENGTHS AS INDICATED ON THE DRAWINGS. PROVIDE ALL NECESSARY CONNECTORS, HARDWARE, ADAPTERS, END CAPS, ETC., FOR A COMPLETE INSTALLATION. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR STANDARD SECTION LENGTHS AND MINIMUM SECTION LENGTHS.
8. CONFIRM LED COLOR TEMPERATURE (WHERE APPLICABLE) FOR ALL LUMINAIRE TYPES WITH ARCHITECT AND OWNER PRIOR TO ORDERING.
9. COORDINATE DIRECTIONAL ARROWS FOR EXIT SIGNAGE WITH LIFE SAFETY EXITING PLANS.
10. PROVIDE NEUTRAL CONDUCTOR TO WALL MOUNTED LINE VOLTAGE SWITCHES/DIMMERS AS REQUIRED PER NEC.
11. WHERE OCCUPANCY/VACANCY SENSING IS REQUIRED PER OPERATIONAL SEQUENCE, SENSORS SHALL CONTROL ALL FIXTURES IN THE SPACE UNLESS OTHERWISE INDICATED.
12. WALL MOUNTED EXIT SIGNS SHALL BE MOUNTED WITH BOTTOM OF SIGN 12" ABOVE THE FRAME AND CENTERED ON THE DOOR, UNLESS INDICATED OTHERWISE. WHERE PENDANT MOUNTING IS REQUIRED DUE TO EXPOSED STRUCTURE OR HIGH CEILING, MOUNT FIXTURE SUCH THAT BOTTOM OF FIXTURE IS 12' AFF.

TYPE	DESCRIPTION	MANUFACTURER/SERIES	LAMPS				VOLTAGE	BALLAST/DRIVER	MOUNTING	REMARKS
			LAMPS	MIN. LUMENS	COLOR	INPUT WATTS				
CV1	1-1/2"x1-1/2"x1' LONG COVE FIXTURE WITH ALUMINUM HOUSING, SELF-LOCKING BRACKET, AND POLYCARBONET LENS. COORDINATE AIMING OF LIGHT IN FIELD WITH ARCHITECT AFTER INSTALLATION.	MODALIGHT MMCI-S-S-0-35H-4 INSIGHT PILOT PCM ECOSENSE TROC SLIM	LED	728	3500K	6	UNIV	0-10V	COVE	--
CV4	1-1/2"x1-1/2"x4' LONG COVE FIXTURE WITH ALUMINUM HOUSING, SELF-LOCKING BRACKET, AND POLYCARBONET LENS. COORDINATE AIMING OF LIGHT IN FIELD WITH ARCHITECT AFTER INSTALLATION.	MODALIGHT MMCI-S-S-0-35H-4 INSIGHT PILOT PCM ECOSENSE TROC SLIM	LED	2800	3500K	20	UNIV	0-10V	COVE	--
D6M	6" DIAMETER, 9" DEEP DOWNLIGHT WITH SELF-FLANGED, SEMI-DIFFUSE (HAZE) CLEAR, LOW IRIDESCENT ALUMINUM REFLECTOR, MEDIUM BEAM DISTRIBUTION, AND WHITE PAINTED FLANGE.	PORTFOLIO LD6C-15-90-35-D010-M-2-H GOTHAM ICO LIGHTOLIER C6R	LED	1500	3500K	17	UNIV	0-10V	RECESSED	--
EM	SELF-POWERED TWO-HEAD EMERGENCY LIGHT, ADJUSTABLE HEADS, THERMOPLASTIC HOUSING, WHITE FINISH, 6 VOLT/10.8W/90 MINUTE SEALED NICKEL-CADMIUM BATTERY, TEST SWITCH AND POWER INDICATOR LIGHT, UL 924 LISTING.	SURE-LITES AP2SQLED DUAL LITE EZ-2	LED	N/A	N/A	2	UNIV	N/A	SURFACE	--
IC	4'-0" LENSED STRIP LIGHT, ROLLED STEEL HOUSING, BAKED WHITE ENAMEL FINISH, FROSTED LENS.	METALUX 4SNLED-LD5-25SL-LW-UNV-L835-CD-1 LITHONIA ZL1D	LED	2500	3500K	21	UNIV	0-10V	SUSPENDED	
R34	2'x4'x3-1/4" DEEP LUMINAIRE WITH STEEL HOUSING, 0.125" THICK FROSTED ACRYLIC LENS, AND REFLECTIVE WHITE ENAMEL FINISH.	METALUX 24GR-LD5-34-F125-UNV-L835-CD-1-PAF LITHONIA 2GTL COLUMBIA LLT24	LED	3400	3500K	28	UNIV	0-10V	RECESSED	--
R34E	2'x4'x4-1/4" DEEP LUMINAIRE WITH STEEL HOUSING, 0.125" THICK FROSTED ACRYLIC LENS, REFLECTIVE WHITE ENAMEL FINISH, AND 10W EMERGENCY BATTERY PACK WITH SELF DIAGNOSTICS.	METALUX 24GR-LD5-34-F125-UNV-EL10WSD-L835-CD-1-PAF LITHONIA 2GTL COLUMBIA LLT24	LED	3400	3500K	28	UNIV	0-10V	RECESSED	--
R48	2'x4'x3-1/4" DEEP LUMINAIRE WITH STEEL HOUSING, 0.125" THICK FROSTED ACRYLIC LENS, AND REFLECTIVE WHITE ENAMEL FINISH.	METALUX 24GR-LD5-48-F125-UNV-L835-CD-1-PAF LITHONIA 2GTL COLUMBIA LLT24	LED	4800	3500K	38	UNIV	0-10V	RECESSED	--
SM8	3"Wx4"Hx8' LONG SURFACE MOUNTED FIXTURE WITH ALUMINUM HOUSING, IP44 RATED, GASKETED, END FEED, AND WHITE FINISH.	LUMENWERX V3SEAL-D-WET-EPDO-SW-80-500-40-8-UNV-D1-1C-E F-GSM-W-NA	LED	4000	4000K	40	UNIV	0-10V	SURFACE MOUNTED	--
UC	5-5/16"Wx1-3/8"Dx2' LONG LUMINAIRE WITH STEEL HOUSING, 0.125" THICK ACRYLIC LENS, AND WHITE ANTIMICROBIAL FINISH.	FAIL-SAFE UCL-2-LD4-35-A12125-EDC1-UNV KENALL MAUCLED HE WILLIAMS 1SF	LED	800	3500K	20	UNIV	LED DRIVER	SURFACE MOUNTED	--
WM	1'-4"L X 10-1/2"H X 10" DEEP WALL PACK LIGHT WITH ALUMINUM HOUSING, TYPE IV FORWARD THROW DISTRIBUTION, STEP DIMMING, INTEGRAL PHOTOCELL, AND BRONZE FINISH.	MCGRAW EDISON IST-SA1-B-735-U-T4FT-BZ-CBP-CEC-AHD245-BPC	LED	3400	3500K	30	UNIV	--	WALL	--
X	EXIT SIGN WITH 6" HIGH GREEN LETTERS, WHITE POLYCARBONATE HOUSING, NICKEL-CADMIUM BATTERY, BATTERY CHARGER, TEST SWITCH, AND INDICATOR LIGHT. FACES, ARROWS AND MOUNTING AS INDICATED ON DRAWINGS.	SURE-LITES LPX7-SD-WGS11 LITHONIA LQM DUAL-LITE EVE	LED	N/A	N/A	3	UNIV	LED DRIVER	CEILING	--

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

GENERAL NOTES:

1. REFER TO MOTOR CONNECTION SCHEDULE IN THIS DRAWING SET WHEN ALPHA CHARACTERS (E.G. "AA") ARE USED IN DISCONNECT, WIRE SIZE, AND CONDUIT SIZE COLUMNS.

REMARKS:

NONE.

ABBREVIATIONS:

CSD = COMBINATION MOTOR STARTER/DISCONNECT SWITCH
DC = DIRECT CONNECTION - EQUIPMENT PROVIDED WITH INTEGRAL MEANS OF DISCONNECT, PROVIDE JUNCTION BOX AND SEALTITE CONNECTION
DS = NON-FUSED DISCONNECT SWITCH
FDS = FUSED DISCONNECT SWITCH
MMS = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
VFD = VARIABLE FREQUENCY DRIVE FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR
TG = MOTOR RATED TOGGLE SWITCH
WPDS = WEATHERPROOF NON-FUSED DISCONNECT SWITCH - DISCONNECT SWITCH SHALL BE UNISTRUT MOUNTED ADJACENT TO EQUIPMENT

TAG	DESCRIPTION	VOLTAGE	PHASE	H.P.	FLA	PANEL	CKT.	DISCONNECT		WIRE SIZE	REMARKS
								DISC. TYPE	AMP RATING / FUSE SIZE		
ATU-1-01	AIR TERMINAL UNIT	208 V	3	--	20.8 A	MECH-A	9,11,13	DC	--	3#10, 1#10GND, 3/4"C	BASE BID
ATU-1-02	AIR TERMINAL UNIT	208 V	3	--	13.84 A	MECH-A	15,17,19	DC	--	3#12, 1#12GND, 3/4"C	BASE BID
ATU-1-03	AIR TERMINAL UNIT	208 V	1	--	12 A	MECH-A	21,23	DC	--	2#12, 1#12GND, 3/4"C	BASE BID
ATU-1-04	AIR TERMINAL UNIT	208 V	1	--	12 A	MECH-A	25,27	DC	--	2#12, 1#12GND, 3/4"C	BASE BID
ATU-1-05	AIR TERMINAL UNIT	208 V	1	--	14.4 A	MECH-A	29,31	DC	--	2#12, 1#12GND, 3/4"C	BASE BID
ATU-1-06	AIR TERMINAL UNIT	208 V	3	--	16.6 A	MECH-A	33,35,37	DC	--	3#10, 1#10GND, 3/4"C	BASE BID
ATU-1-07	AIR TERMINAL UNIT	208 V	3	--	13.84 A	MECH-A	39,41,43	DC	--	3#12, 1#12GND, 3/4"C	BASE BID
ATU-1-08	AIR TERMINAL UNIT	208 V	1	--	12 A	MECH-A	45,47	DC	--	2#12, 1#12GND, 3/4"C	BASE BID
ATU-1-09	AIR TERMINAL UNIT	208 V	3	--	13.84 A	MECH-A	2,4,6	DC	--	3#12, 1#12GND, 3/4"C	BASE BID
ATU-1-10	AIR TERMINAL UNIT	208 V	3	--	13.84 A	MECH-A	8,10,12	DC	--	3#12, 1#12GND, 3/4"C	BASE BID
ATU-1-11	AIR TERMINAL UNIT	208 V	3	--	12.48 A	MECH-A	14,16,18	DC	--	3#12, 1#12GND, 3/4"C	BASE BID
ATU-1-12	AIR TERMINAL UNIT	208 V	3	--	16.64 A	MECH-A	20,22,24	DC	--	3#10, 1#10GND, 3/4"C	BASE BID
ATU-1-13	AIR TERMINAL UNIT	208 V	3	--	11.12 A	MECH-A	26,28,30	DC	--	3#12, 1#12GND, 3/4"C	BASE BID
ATU-1-14	AIR TERMINAL UNIT	208 V	1	--	4.8 A	MECH-A	32,34	DC	--	2#12, 1#12GND, 3/4"C	BASE BID
ATU-1-15	AIR TERMINAL UNIT	208 V	3	--	13.84 A	MECH-A	36,38,40	DC	--	3#12, 1#12GND, 3/4"C	BASE BID
ATU-1-16	AIR TERMINAL UNIT	208 V	3	--	15.28 A	MECH B	1,3,5	DC	--	3#12, 1#12GND, 3/4"C	ALTERNATE
ATU-1-17	AIR TERMINAL UNIT	208 V	1	--	12 A	MECH B	7,9	DC	--	2#12, 1#12GND, 3/4"C	ALTERNATE
ATU-1-18	AIR TERMINAL UNIT	208 V	1	--	12 A	MECH B	11,13	DC	--	2#12, 1#12GND, 3/4"C	ALTERNATE
ATU-1-19	AIR TERMINAL UNIT	208 V	3	--	15.28 A	MECH B	15,17,19	DC	--	3#12, 1#12GND, 3/4"C	ALTERNATE
ATU-1-20	AIR TERMINAL UNIT	208 V	3	--	9.68 A	MECH B	21,23,25	DC	--	3#12, 1#12GND, 3/4"C	ALTERNATE
ATU-1-21	AIR TERMINAL UNIT	208 V	1	--	14.4 A	MECH B	27,29	DC	--	2#12, 1#12GND, 3/4"C	ALTERNATE
ATU-1-22	AIR TERMINAL UNIT	208 V	3	--	19.44 A	MECH B	31,33,35	DC	--	3#10, 1#10GND, 3/4"C	ALTERNATE
ATU-1-24	AIR TERMINAL UNIT	24 V	1	--	0 A			DC	--	--	BASE BID
ATU-1-25	AIR TERMINAL UNIT	24 V	1	--	0 A			DC	--	--	BASE BID
ATU-1-26	AIR TERMINAL UNIT	208 V	3	--	8.32 A	MECH B	37,39,41	DC	--	3#12, 1#12GND, 3/4"C	ALTERNATE
ATU-1-27	AIR TERMINAL UNIT	208 V	1	--	12 A	MECH B	43,45	DC	--	2#12, 1#12GND, 3/4"C	BASE BID
ATU-1-29	AIR TERMINAL UNIT	208 V	3	--	20.8 A	MECH B	47,49,51	DC	--	3#10, 1#10GND, 3/4"C	BASE BID
ATU-1-31	AIR TERMINAL UNIT	208 V	1	--	7.2 A	MECH B	53,55	DC	--	2#12, 1#12GND, 3/4"C	BASE BID
ATU-1-32	AIR TERMINAL UNIT	208 V	1	--	19.2 A	MECH B	61,63	DC	--	2#10, 1#10GND, 3/4"C	BASE BID
ATU-1-33	AIR TERMINAL UNIT	208 V	1	--	19.2 A	MECH B	57,59	DC	--	2#10, 1#10GND, 3/4"C	BASE BID
ATU-2-01	AIR TERMINAL UNIT	208 V	1	--	24 A	MECH B	2,4	DC	--	2#8, 1#10GND, 1"C	BASE BID
ATU-2-02	AIR TERMINAL UNIT	208 V	3	--	15.28 A	MECH B	6,8,10	DC	--	3#12, 1#12GND, 3/4"C	BASE BID
ATU-2-03	AIR TERMINAL UNIT	208 V	1	--	21.6 A	MECH B	12,14	DC	--	2#10, 1#10GND, 3/4"C	BASE BID
ATU-2-04	AIR TERMINAL UNIT	208 V	1	--	16.8 A	MECH B	16,18	DC	--	2#10, 1#10GND, 3/4"C	BASE BID
ATU-2-05	AIR TERMINAL UNIT	208 V	1	--	19.25 A	MECH B	20,22	DC	--	2#10, 1#10GND, 3/4"C	BASE BID
ATU-2-06	AIR TERMINAL UNIT	208 V	1	--	24 A	MECH B	24,26	DC	--	2#8, 1#10GND, 1"C	BASE BID
ATU-2-07	AIR TERMINAL UNIT	208 V	3	--	15.28 A	MECH B	28,30,32	DC	--	3#12, 1#12GND, 3/4"C	BASE BID
ATU-2-08	AIR TERMINAL UNIT	208 V	3	--	20.8 A	MECH B	34,36,38	DC	--	3#10, 1#10GND, 3/4"C	BASE BID
ATU-2-09	AIR TERMINAL UNIT	208 V	1	--	21.6 A	MECH B	40,42	DC	--	2#10, 1#10GND, 3/4"C	BASE BID
ATU-2-11	AIR TERMINAL UNIT	208 V	3	--	20.8 A	MECH B	44,46,48	DC	--	3#10, 1#10GND, 3/4"C	BASE BID
ATU-2-12	AIR TERMINAL UNIT	208 V	3	--	20.8 A	MECH B	50,52,54	DC	--	3#10, 1#10GND, 3/4"C	BASE BID
DAC-1	AIR CURTAIN	208 V	3	--	43.2 A	MECH-A	55,57,59	DC	--	3#6, 1#10GND, 1"C	BASE BID
DWBP-1	DOMESTIC WATER BOOSTER PUMP	208 V	3	--	33.4 A	MECH-A	49,51,53	DC	--	3#6, 1#10GND, 1"C	BASE BID
HWRP-1	HOT WATER RETURN PUMP	120 V	1	1/25	2 A	MECH-A	74	TG	--	2#12, 1#12GND, 3/4"C	BASE BID
WH-1	WATER HEATER	208 V	3	--	100 A	MSB	9	DS	200AS NEMA 4X	3#1/0, 1#6GND, 2"C	BASE BID
WH-2	WATER HEATER	208 V	3	--	100 A	MSB	10	DS	200AS NEMA 4X	3#1/0, 1#6GND, 2"C	BASE BID

ELECTRICAL FLOOR BOX AND POKE-THRU SCHEDULE

GENERAL NOTES (FLOOR BOX):

1. WHERE MAXIMUM CONDUIT SIZE WITHIN ELEVATED SLABS IS DEFINED BY STRUCTURAL AS SMALLER THAN INDICATED IN SCHEDULE, PROVIDE THE MAXIMUM SIZE ALLOWED AND INCREASE QUANTITY BY 1, OBSERVING REQUIRED SPACING.
2. WHERE MINIMUM CONCRETE DEPTH BENEATH BOX AS REQUIRED TO MAINTAIN FLOOR RATING CANNOT BE ACHIEVED, PROVIDE FIRE RATED POUR PAN
3. WHERE BOXES ARE INSTALLED IN SLAB ON GRADE, THEY SHALL BE CAST IRON OR EPOXY COATED STEEL HOUSINGS.
4. COORDINATE ALL LOCATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO CORE DRILL.

GENERAL NOTES (POKE THRU):

1. COORDINATE ALL LOCATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO CORE DRILL.
2. COORDINATE CONFIGURATION WITH TELECOM PLANS PRIOR TO INSTALLATION.
3. VERIFY ALL FLOOR OUTLET LOCATIONS WITH TENANT/OWNER PRIOR TO ROUGH IN/ORDER.

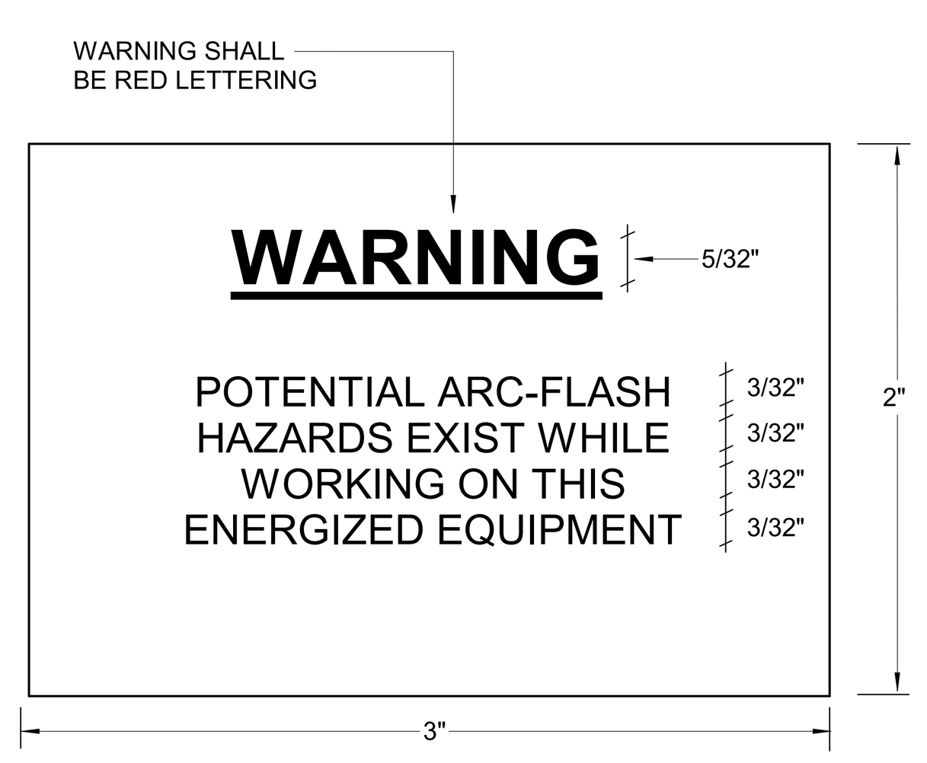
GENERAL NOTES (GROUND BOXES):

1. LABEL "COVER MUST BE CLOSED WHILE IN USE"
2. PROTECT INDICATED ASSOCIATED CIRCUITS VIA GROUND FAULT CIRCUIT INTERRUPTER BREAKER.
3. COORDINATE LOCATION WITH HARDSCAPE / LANDSCAPE - DO NOT LOCATE AT LOW POINT, PRONE TO STANDING WATER.
4. ACCEPTABLE GRADE CONDITIONS: 1% FOR SOFTSCAPE, 2% FOR SIDEWALKS (MAXIMUM IN ALL DIRECTIONS).
5. DO NOT INSTALL IN UNACCEPTABLE SOIL CONDITIONS (ORGANIC SILTS, ORGANIC CLAYS, PEAT, PERMAFROST AREAS, OR WHERE BEDROCK IS LESS THAN 3' BELOW FINISHED GRADE).

REMARKS:

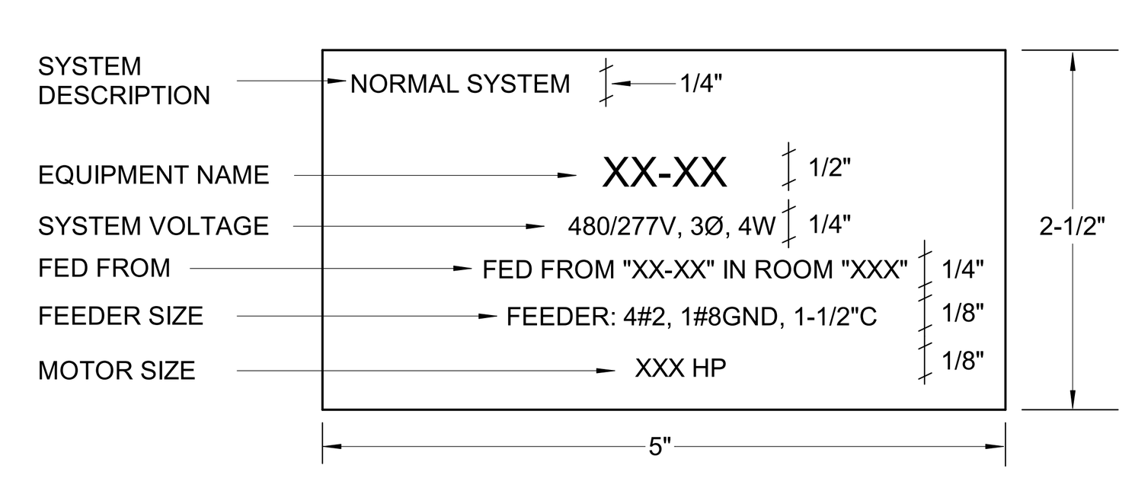
NONE.

TAG	DESCRIPTION	BASIS OF DESIGN	ELECTRICAL FACEPLATE CAPACITY	ELECTRICAL DEVICES	ELECTRICAL CONDUITS REQUIRED	LOW VOLTAGE FACEPLATE CAPACITY	LOW VOLTAGE DEVICES	LOW VOLTAGE CONDUITS REQUIRED	OTHER CONDUITS REQUIRED	FACEPLATE FINISH	FIRE RATING	REMARKS
F2C	SIX GANG, MULTI-SERVICE, FLOOR BOX WITH FLUSH, RECTANGULAR COVER AND LOW VOLTAGE SERVICE FITTINGS	LEGRAND / WIREMOLD EVOLUTION	3 GANG	3 DUPLEX RECEPTACLES	(3) 1"	3 GANG	REFER TO DIV 27 DRAWINGS	(3) 1 1/4"	--	--	NOTE 2	--



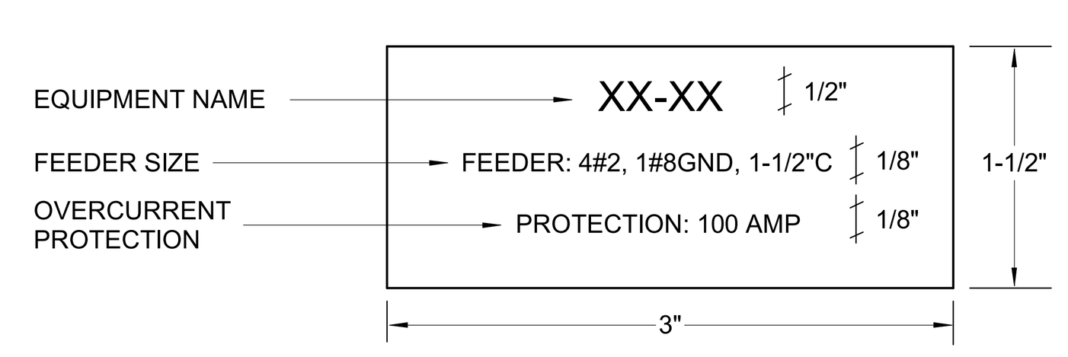
ARC FLASH LABEL

NOTES:
1. ELECTRICAL CONTRACTOR SHALL PROVIDE FLASH PROTECTION MARKING ON ALL PANELS, SWITCHBOARDS, INDIVIDUAL CONTROL PANELS, AND MOTOR CONTROL CENTERS PER NEC 110.16.
2. WARNING LABEL SHALL BE PRE-ASSEMBLED BY A LABEL MANUFACTURER AND SHALL CONFORM TO ANSI STANDARDS.



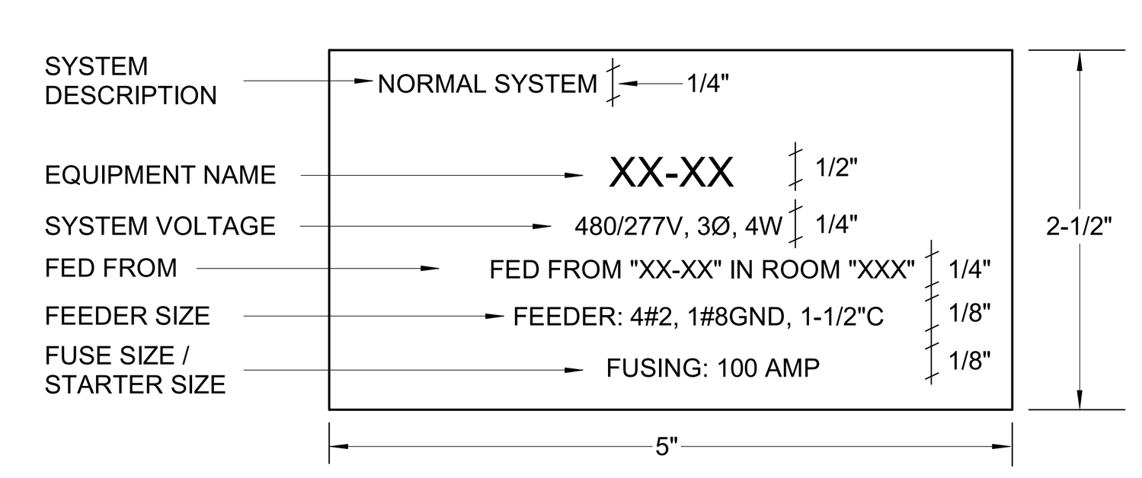
EQUIPMENT NAMEPLATE

THIS NAMEPLATE SHALL BE USED FOR THE FOLLOWING:
- MOTORS



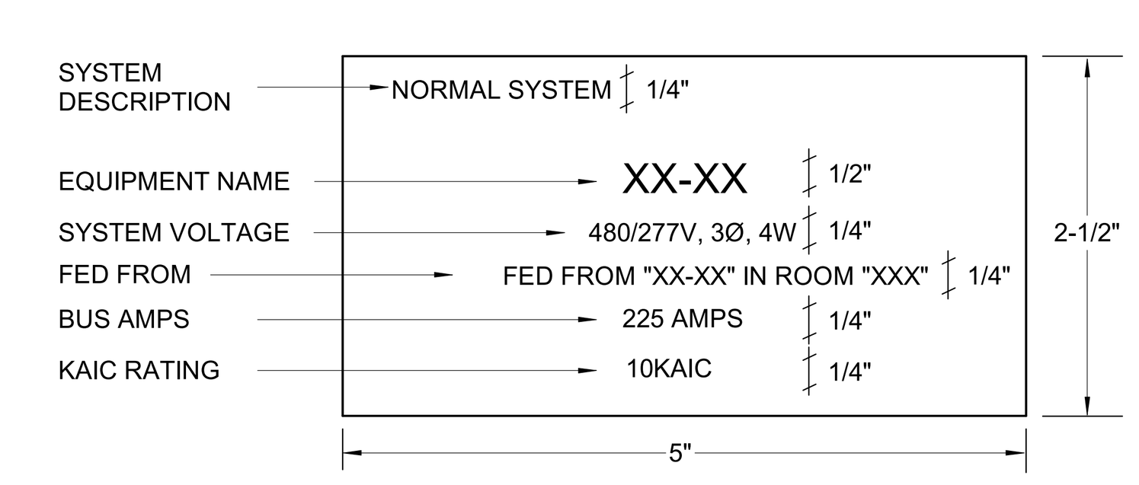
TYPICAL FEEDER OVERCURRENT DEVICE NAMEPLATE

NOTES:
- PROVIDE ARC FLASH WARNING LABEL WITH NAMEPLATE
- REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS



EQUIPMENT NAMEPLATE

THIS NAMEPLATE SHALL BE USED FOR THE FOLLOWING:
- NON-FUSED DISCONNECTS
- FUSED DISCONNECTS
- MOTOR STARTERS
- COMBINATION MOTOR STARTERS/DISCONNECTS
- VARIABLE FREQUENCY DRIVES



EQUIPMENT NAMEPLATE

THIS NAMEPLATE SHALL BE USED FOR THE FOLLOWING:
- LIGHTING/APPLIANCE PANELBOARDS
- DISTRIBUTION PANELBOARDS
- FIRE ALARM PANELS
- PULLBOXES/JUNCTION BOXES
- NURSE CALL PANELS
- BAS PANELS

EQUIPMENT NAMEPLATE DETAILS 1

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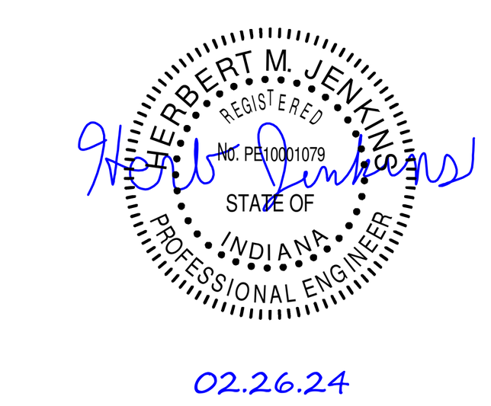
Sullivan, Indiana



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E0.4
ELECTRICAL SCHEDULES AND DETAILS - BUILDOUT

CONSTRUCTION DRAWINGS

COM*check* Software Version 4.1.5.5

Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2007) Standard
Project Title:
Project Type: New Construction

Construction Site:
2200 North Section Street
Sullivan, IN 47882

Owner/Agent:

Designer/Contractor:
Kevin Smith
Smith Seckman Reid, Inc.
2995 Sidco Drive
Nashville, TN 37204
615-460-0588
kmsmith@ssr-inc.com

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Floor Area (Health Care-Clinic)	26351	1.00	26351
		Total Allowed Watts =	26351

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Floor Area (Health Care-Clinic)				
LED 1: CV1: 1' cove fixture: LED Linear 8W:	1	2	6	12
LED 2: CV4: 4' cove fixture: LED Linear 20W:	1	26	20	520
LED 3: D6M: 6" downlight: LED Other Fixture Unit 16W:	1	15	17	255
LED 4: IC: 4' industrial fixture: LED Other Fixture Unit 25W:	1	37	21	777
LED 5: R34: 2'x4' recessed: LED Panel 33W:	1	134	28	3752
LED 6: R34E: 2'x4' recessed - battery backup: LED Panel 33W:	1	55	28	1540
LED 7: R48: 2'x4' recessed: LED Panel 38W:	1	36	38	1368
LED 8: SM8: 8' surface mount fixture: LED Other Fixture Unit 40W:	1	4	40	160
LED 9: UC: undercabinet fixture: LED Undercabinet Unit 24W:	1	41	20	820
LED 10: WM: wall mount fixture: LED Other Fixture Unit 36W:	1	4	30	120
LED 11: X: exit sign: LED Other Fixture Unit 6.5W:	1	39	3	117
			Total Proposed Watts =	9441

Interior Lighting PASSES: Design 64% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2007) Standard requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Adam Butauski - Electrical designer — Name - Title
Adam Butauski — Signature
2/28/2024 — Date

COM*check* Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2007) Standard
Project Title:
Project Type: New Construction

Construction Site:
2200 North Section Street
Sullivan, IN 47882

Owner/Agent:

Designer/Contractor:
Kevin Smith
Smith Seckman Reid, Inc.
2995 Sidco Drive
Nashville, TN 37204
615-460-0588
kmsmith@ssr-inc.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
parking lot (Parking area(s))	51181 ft2	0.15	Yes	7677
			Total Tradable Watts (a) =	7677
			Total Allowed Watts =	7677
			Total Allowed Supplemental Watts (b) =	384

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 384 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
parking lot (Parking area 51181 ft2): Tradable Wattage				
LED 1: SLP1: pole light: LED Roadway-Parking Unit 106W:	1	8	96	768
LED 2: SLP2: pole light: LED Roadway-Parking Unit 220W:	1	4	192	768
			Total Tradable Proposed Watts =	1536

Exterior Lighting PASSES: Design 81% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2007) Standard requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Adam Butauski - Electrical designer — Name - Title
Adam Butauski — Signature
2/28/2024 — Date

COM*check* Software Version 4.1.5.5

Inspection Checklist

Energy Code: 90.1 (2007) Standard

Requirements: 14.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
8.4.1.1, 8.4.1.2 [PR6][2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)

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Johnson Johnson Crabtree Architects P.C.

Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

HERBERT M. JENKINS
STATE OF INDIANA
PROFESSIONAL ENGINEER
02.26.24

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E0.5
COMCHECK

CONSTRUCTION DRAWINGS

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
9.4.1.1 [EL1][2]	Automatic controls to shut off all building lighting installed in buildings >5,000 ft2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.2 [EL2][2]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.3 [EL3][3]	Automatic lighting controls for exterior lighting installed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.1.4 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.2 [EL5][3]	Ballasted one and three lamp fixtures with >30 W/lamp have two lamp tandem wired ballasts when >=2 fixtures in same space on same control.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.4.4 [EL7][1]	Exterior grounds lighting over 100 W provides >60 lm/W unless on motion sensor or fixture is exempt from scope of code or from external LPD.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.6.2 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16][3]	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
8.7.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
9.2.2.3 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
9.4.5 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

CONSTRUCTION DRAWINGS

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Sullivan, Indiana

HERBERT M. JENKINS
REGISTERED ARCHITECT
STATE OF INDIANA
PROFESSIONAL ENGINEER

02.26.24

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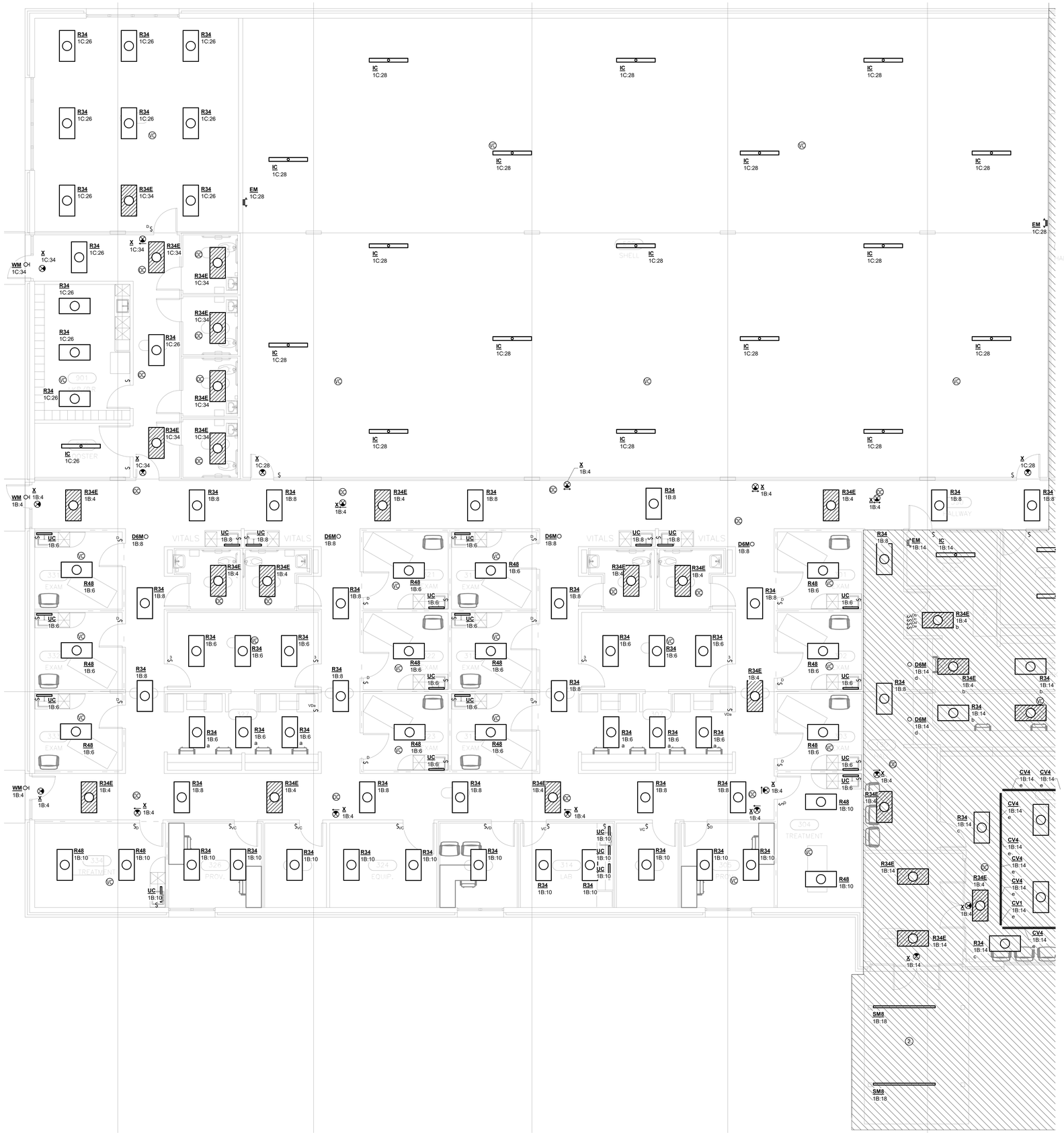
E0.6
COMCHECK

SHEET GENERAL NOTES

A. CORRIDOR LIGHTING SHALL BE CONTROLLED BY OCCUPANCY SENSORS, REFER TO FLOOR PLANS FOR OCCUPANCY SENSOR LOCATIONS.



1 LIGHTING PLAN - EAST
3/16" = 1'-0"

CONSTRUCTION DRAWINGS

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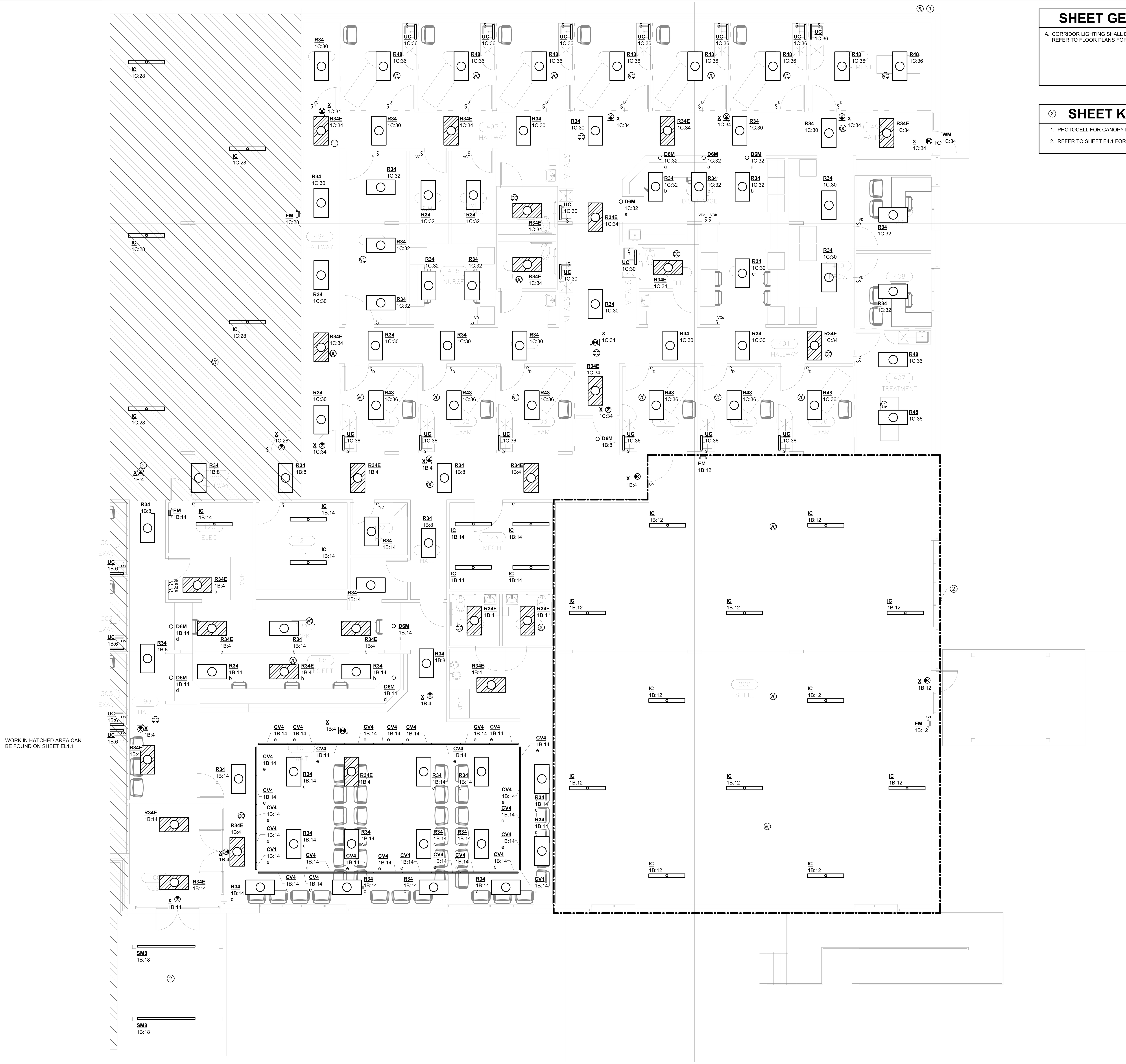
EL1.1

LIGHTING PLAN - EAST - BUILDOUT



1 LIGHTING PLAN - WEST
3/16" = 1'-0"

SHEET GENERAL NOTES

A. CORRIDOR LIGHTING SHALL BE CONTROLLED BY OCCUPANCY SENSORS, REFER TO FLOOR PLANS FOR OCCUPANCY SENSOR LOCATIONS.

Ⓧ SHEET KEYED NOTES

1. PHOTOCELL FOR CANOPY LIGHT CONTROL MOUNTED ON ROOF.
2. REFER TO SHEET E4.1 FOR ALTERNATE E1.

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JJCA Johnson Johnson Crabtree Architects P.C.

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Sullivan, Indiana

HERBERT M. JENKINS — REGISTERED PROFESSIONAL ENGINEER — STATE OF INDIANA
02.26.24

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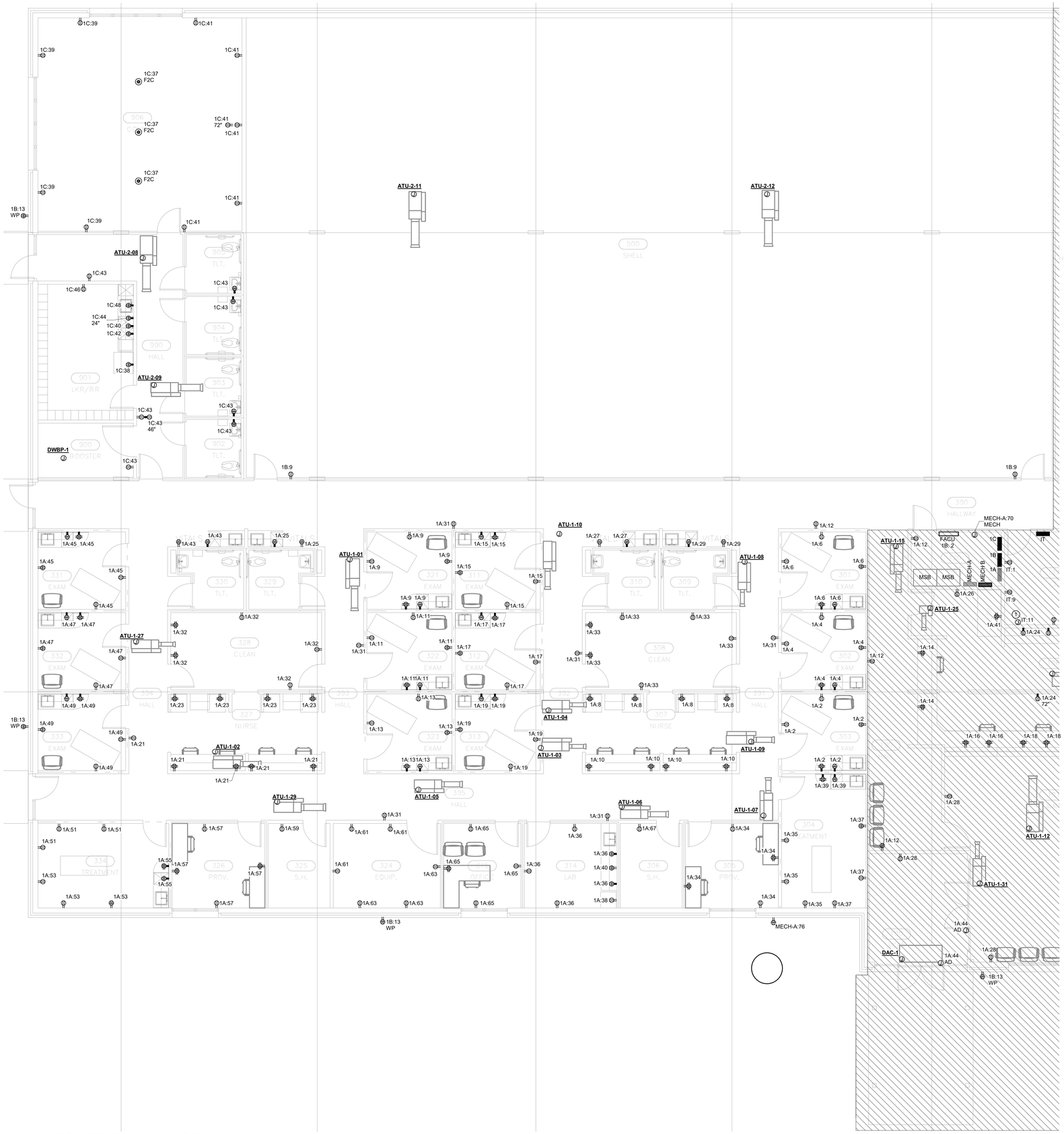
EL1.2
LIGHTING PLAN -WEST - BUILDOUT

CONSTRUCTION DRAWINGS

SHEET GENERAL NOTES

A. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E0.2 FOR ADDITIONAL INFORMATION.

B. DOUBLE DUPLEX RECEPTACLES WITHIN 6' OF EDGE OF SINK SHALL BE GFCI TYPE.



1 POWER PLAN - EAST
3/16" = 1'-0"

CONSTRUCTION DRAWINGS

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Sullivan County Community Hospital

Sullivan, Indiana

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STATE OF INDIANA
02.26.24

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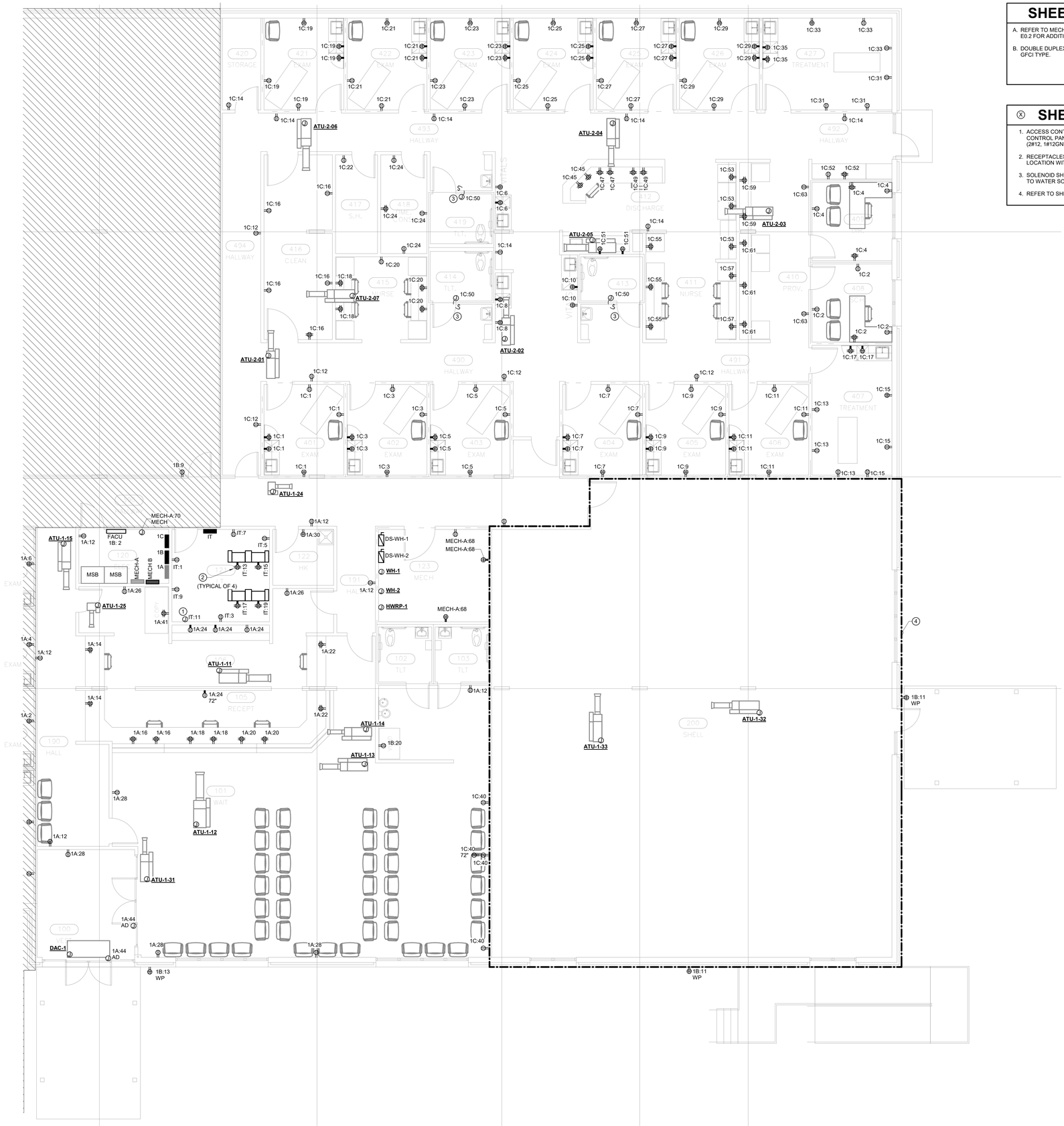
EP1.1

POWER PLAN - EAST - BUILDOUT



1 POWER PLAN - WEST
3/16" = 1'-0"

SHEET GENERAL NOTES

A. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E0.2 FOR ADDITIONAL INFORMATION.

B. DOUBLE DUPLEX RECEPTACLES WITHIN 6' OF EDGE OF SINK SHALL BE GFCI TYPE.

SHEET KEYED NOTES

1. ACCESS CONTROL PANEL - 120V, 1.0KW. HARDWIRE DIRECTLY TO CONTROL PANEL. (2#12, 1#12GND, 3/4"C)
2. RECEPTACLES SHALL BE RACK MOUNTED. COORDINATE MOUNTING LOCATION WITH OWNER PRIOR TO ROUGH-IN.
3. SOLENOID SHUT OFF VALVE - SWITCH SHALL ENABLE/DISABLE POWER TO WATER SOLENOID.
4. REFER TO SHEET E4.1 FOR ALTERNATE E1.

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EP1.2

POWER PLAN - WEST - BUILDOUT

CONSTRUCTION DRAWINGS

SHEET KEYED NOTES

1. DUCT SMOKE DEDTECTOR LOCATED IN RTU.
2. REFER TO SHEET E4.1 FOR ALTERNATE E1.

1 SYSTEMS PLAN
1/8" = 1'-0"

Smith Seckman Reid, Inc.
4551 Trousdale Drive
Nashville, TN 37204
tel 615.837.0656
fax 615.837.0657

JJCA
Johnson Johnson Crabtree Architects P.C.

Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

ROBERT M. JENKINS
LICENSED ARCHITECT
STATE OF INDIANA
PROFESSIONAL ENGINEER

02.26.24

Sheet Re-Issue Log
(Individual revisions clouded and labeled within each sheet)

Project Number
23987.02

DATE
February 28, 2024

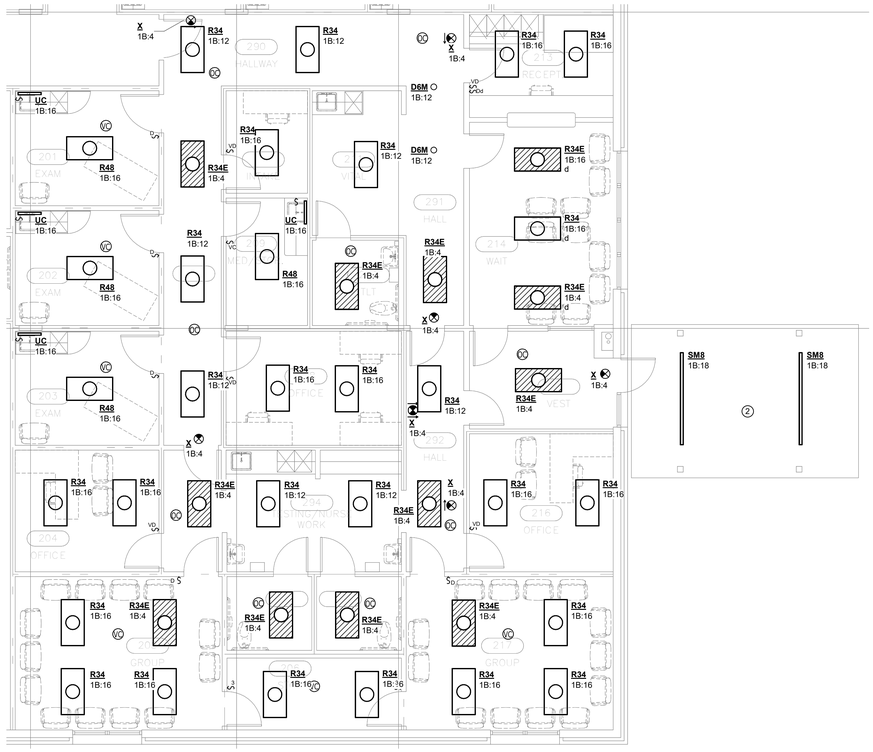
EY1.1

SYSTEMS PLAN - BUILDOUT

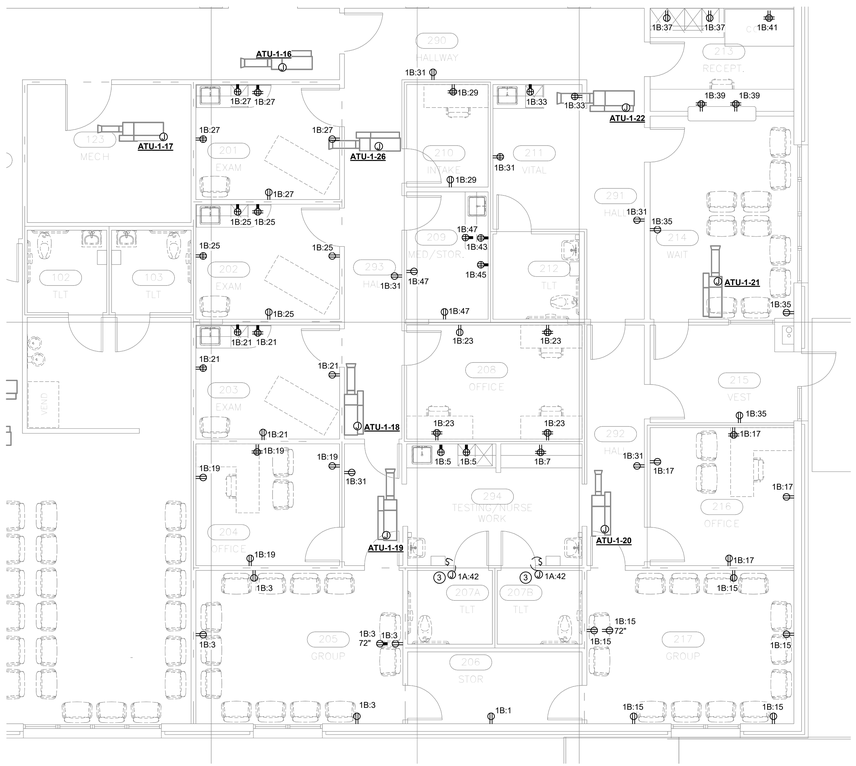
CONSTRUCTION DRAWINGS

SHEET GENERAL NOTES

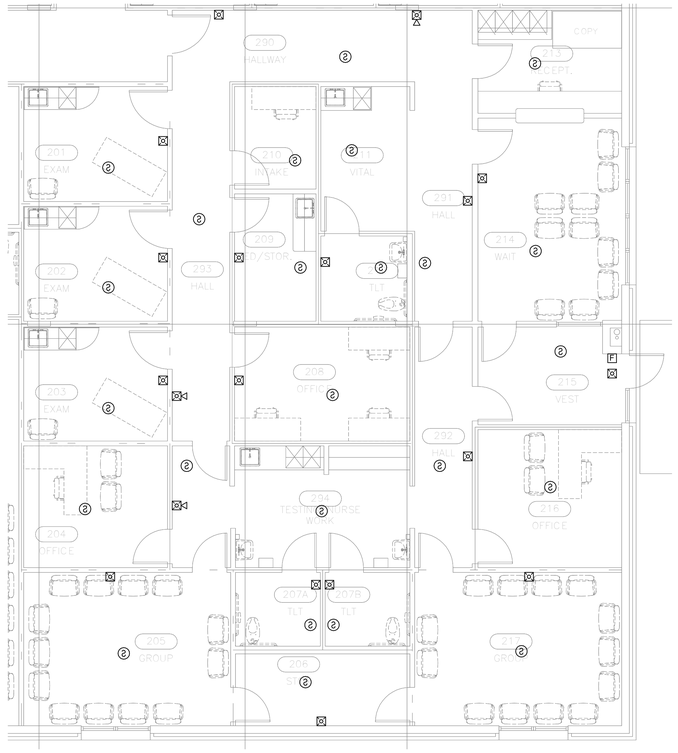
A. DOUBLE DUPLEX RECEPTACLES WITHIN 6' OF EDGE OF SINK SHALL BE GFCI TYPE.



1 LIGHTING PLAN - ALTERNATE E1
3/16" = 1'-0"



2 POWER PLAN - ALTERNATE E1
3/16" = 1'-0"



3 SYSTEMS PLAN - ALTERNATE E1
3/16" = 1'-0"

CONSTRUCTION DRAWINGS

Smith Seckman Reid, Inc.
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JJCA
Johnson Johnson Crabtree Architects P.C.

Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

ROBERT M. JENNINGS — STATE OF INDIANA — PROFESSIONAL ENGINEER
02.26.24

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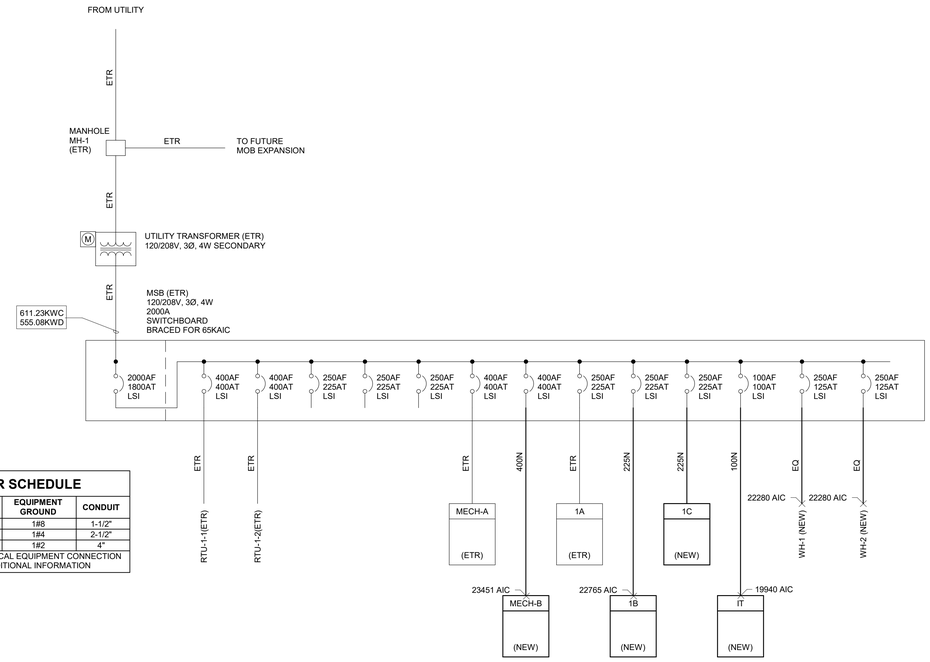
Project Number
23987.02
DATE
February 28, 2024

E4.1
ELECTRICAL ALTERNATE E1 PLANS



1 ONE LINE DIAGRAM

COPPER FEEDER SCHEDULE

DESIGNATION	CONDUCTORS AWG/KCMIL	EQUIPMENT GROUND	CONDUIT
100N	4#2	1#8	1-1/2"
225N	4# 4/0	1#4	2-1/2"
400N	4#500	1#2	4"
EQ	REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION		

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Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

GILBERT M. JENNINGS
LICENSED
STATE OF INDIANA
PROFESSIONAL ENGINEER

02.26.24

Sheet Re-Issue Log
(Individual revisions clouded and labeled within each sheet)

Project Number
23987.02

DATE
February 28, 2024

E6.2

ONE LINE DIAGRAM - BUILDOUT

(ETR)

Name: 1A
Location:
Supply From: MSB
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Thru Lugs: No
A.I.C. Rating: 42 kA
Mains Type: MLO
Bus Rating: 225 A
MCB Rating: --
Notes:

CKT	Circuit Description	Notes	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Notes	Circuit Description	CKT
1	SITE LIGHTING		20	2	769	1200					1	20		RM 303; REC	2
3							769	1200			1	20		RM 302; REC	4
5	POLE RECEPTACLE		20	1					1200	1200	1	20		RM 301; REC	6
7	POLE RECEPTACLE		20	1	1200	1600					1	20		RM 307; REC	8
9	RM 321; REC		20	1			1200	1600			1	20		RM 307; REC	10
11	RM 322; REC		20	1					1200	1600	1	20		RM 101, 120; REC	12
13	RM 323; REC		20	1	1200	800					1	20		RM 105; REC	14
15	RM 311; REC		20	1			1200	800			1	20		RM 105; REC	16
17	RM 312; REC		20	1					1200	800	1	20		RM 105; REC	18
19	RM 313; REC		20	1	1200	800					1	20		RM 105; REC	20
21	RM 327; REC		20	1			1800	800			1	20		RM 105; REC	22
23	RM 327; REC		20	1					1600	900	1	20		RM 106; REC	24
25	HALL VITALS; REC		20	1	400	400					1	20		RM 106; REC	26
27	HALL VITALS; REC		20	1			400	800			1	20		RM 101; REC	28
29	HALL VITALS; REC		20	1					400	200	1	20		RM 108; REC	30
31	HALL; REC		20	1	1200	1400					1	20		RM 321; REC	32
33	RM 308; REC		20	1			1600	1200			1	20		RM 305; REC	34
35	RM 304; REC		20	1					600	1000	1	20		RM 314; REC	36
37	RM 304; REC		20	1	600	1000					1	20		RM 314; REFRIGERATOR	38
39	RM 304; REC		20	1			400	600			1	20		RM 114; UC FRIDGE	40
41	RM 106; COPIER		20	1					1000	240	1	20		RM 207A,-B; SOLENOID	42
43	HALL VITALS; REC		20	1	400	1200					1	20		AUTO DOOR	44
45	RM 331; REC		20	1			1200	0			1	20		SPARE	46
47	RM 332; REC		20	1					1200	0	1	20		SPARE	48
49	RM 333; REC		20	1	1200	0					1	20		SPARE	50
51	RM 334; REC		20	1			600	0			1	20		SPARE	52
53	RM 334; REC		20	1					600	0	1	20		SPARE	54
55	RM 334; REC		20	1	400	0					1	20		SPARE	56
57	RM 326; REC		20	1			1200	0			1	20		SPARE	58
59	RM 325; REC		20	1					200	0	1	20		SPARE	60
61	RM 324; REC		20	1	600	0					1	20		SPARE	62
63	RM 324; REC		20	1			600	0			1	20		SPARE	64
65	RM 315; REC		20	1					1000	0	1	20		SPARE	66
67	RM 306; REC		20	1	200	0					1	20		SPARE	68
69	SPARE		20	1			0	0			1	20		SPARE	70
71	SPARE		20	1					0	0	1	20		SPARE	72
73	SPARE		20	1	0	0					1	20		SPARE	74
75	SPARE		20	1			0	0			1	20		SPARE	76
77	SPARE		20	1					0	0	1	20		SPARE	78
79	SPARE		20	1	0	0					1	20		SPARE	80
81	SPARE		20	1			0	0			1	20		SPARE	82
83	SPARE		20	1					0	0	1	20		SPARE	84
				Total Load:	17769 VA		17969 VA		16140 VA						
				Total Amps:	150 A		152 A		135 A						

Load Classification	Connected Load	Demand Factor	Demand Load	Panel Totals	
Ltg-Site	1537 VA	100.00%	1537 VA		
Rec	48900 VA	60.22%	29450 VA	Total Conn. Load:	51877 VA
MISC	1440 VA	70.00%	1008 VA	Total Demand:	31995 VA
				Total Conn. Current:	144 A
				Total Demand Current:	89 A

Notes:

(NEW)

Name: 1B
Location:
Supply From: MSB
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Thru Lugs: No
A.I.C. Rating: 42 kA
Mains Type: MLO
Bus Rating: 225 A
MCB Rating: --
Notes:

CKT	Circuit Description	Notes	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Notes	Circuit Description	CKT
1	RM 206; REC		20	1	200	500					1	20	1	FACU	2
3	RM 205; REC		20	1			1000	1084			1	20		EXIT SIGNS/EGRESS LTG	4
5	RM 207; REC		20	1					400	1052	1	20		EAST ROOMS; LIGHTING	6
7	RM 207; REC		20	1	400	809					1	20		EAST HALL; LIGHTING	8
9	SHELL; REC		20	1			400	540			1	20		EAST ROOMS; LIGHTING	10
11	RM 111; REC		20	1					400	513	1	20		WEST HALL; LIGHTING	12
13	EXTERIOR; REC		20	1	800	1338					1	20		WEST ROOMS; LIGHTING	14
15	RM 217; REC		20	1			1200	764			1	20		WEST ROOMS; LIGHTING	16
17	RM 216; REC		20	1					1000	160	1	20		CANOPY LIGHTING	18
19	RM 204; REC		20	1	1000	1000					1	20		RM 101; VENDING	20
21	RM 203; REC		20	1			1200	0			1	20		SPARE	22
23	RM 208; REC		20	1					1400	0	1	20		SPARE	24
25	RM 202; REC		20	1	1200	0					1	20		SPARE	26
27	RM 201; REC		20	1			1200	0			1	20		SPARE	28
29	RM 210; REC		20	1					600	0	1	20		SPARE	30
31	HALL ,211; REC		20	1	1200	0					1	20		SPARE	32
33	RM 211; REC		20	1			400	0			1	20		SPARE	34
35	RM 214; REC		20	1					600	0	1	20		SPARE	36
37	RM 213; REC		20	1	400	0					1	20		SPARE	38
39	RM 213; REC		20	1			800	0			1	20		SPARE	40
41	RM 213; COPIER		20	1					1000	0	1	20		SPARE	42
43	RM 209; REC		20	1	1000	0					1	20		SPARE	44
45	RM 209; REC		20	1			1000	0			1	20		SPARE	46
47	RM 209; REC		20	1					1000	0	1	20		SPARE	48
49	SPARE		20	1	0	0					1	20		SPARE	50
51	SPARE		20	1			0	0			1	20		SPARE	52
53	SPARE		20	1					0	0	1	20		SPARE	54
55	SPARE		20	1	0	0					1	20		SPARE	56
57	SPARE		20	1			0	0			1	20		SPARE	58
59	SPARE		20	1					0	0	1	20		SPARE	60
61	SPARE		20	1	0	0					1	20		SPARE	62
63	SPARE		20	1			0	0			1	20		SPARE	64
65	SPARE		20	1					0	0	1	20		SPARE	66
67	SPARE		20	1	0	0					1	20		SPARE	68
69	SPARE		20	1			0	0			1	20		SPARE	70
71	SPARE		20	1					0	0	1	20		SPARE	72
73	SPARE		40	2	0	0					2	40		SPARE	74
75							0	0							76
77	SPARE		40	2					0	0	2	40		SPARE	78
79					0	0									80
81	SPARE		40	2			0	0			2	40		SPARE	82
83									0	0					84
				Total Load:	9847 VA		9588 VA		8125 VA						
				Total Amps:	84 A		82 A		68 A						

Load Classification	Connected Load	Demand Factor	Demand Load	Panel Totals	
Ltg	6260 VA	100.00%	6260 VA		
Rec	20800 VA	74.04%	15400 VA	Total Conn. Load:	27560 VA
Other	0 VA	0.00%	0 VA	Total Demand:	22010 VA
MISC	500 VA	70.00%	350 VA	Total Conn. Current:	76 A
				Total Demand Current:	61 A

Notes:

(NEW)

Name: 1C
Location:
Supply From: MSB
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Thru Lugs: No
A.I.C. Rating: 42 kA
Mains Type: MLO
Bus Rating: 225 A
MCB Rating: --
Notes:

CKT	Circuit Description	Notes	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Notes	Circuit Description	CKT
1	RM 401; REC		20	1	1200	1000					1	20		RM 408; REC	2
3	RM 402; REC		20	1			1200	1200			1	20		RM 409; REC	4
5	RM 403; REC		20	1					1200	400	1	20		HALL VITALS; REC	6
7	RM 404; REC		20	1	1200	400					1	20		HALL VITALS; REC	8
9	RM 405; REC		20	1			1200	400			1	20		HALL VITALS; REC	10
11	RM 406; REC		20	1					1200	1000	1	20		HALL; REC	12
13	RM 407; REC		20	1	600	1400					1	20		HALL;REC	14
15	RM 407; REC		20	1			600	1200			1	20		RM 416; REC	16
17	RM 407; REC		20	1					400	800	1	20		RM 415; REC	18
19	RM 421; REC		20	1	1200	1000					1	20		RM 415; REC	20
21	RM 422; REC		20	1			1200	200			1	20		RM 417; REC	22
23	RM 423; REC		20	1					1200	1000	1	20		RM 418; REC	24
25	RM 424; REC		20	1	1200	385					1	20		SOUTH EAST; LIGHTING	26
27	RM 425; REC		20	1			1200	363			1	20		SHELL; LIGHTING	28
29	RM 426; REC		20	1					1200	536	1	20		SW HALL; LIGHTING	30
31	RM 427; REC		20	1	600	432					1	20		SW ROOMS; LTG	32
33	RM 427; REC		20	1			600	597			1	20		EXIT SIGNS/EGRESS LTG	34
35	RM 427; REC		20	1					400	868	1	20		SW EXAM ROOMS; LTG	36
37	RM 906; FLOORBOX		20	1	540	1000					1	20		RM 901; REFRIGERATOR	38
39	RM 906; REC		20	1			800	1100			1	20		RM 901; MICRO	40
41	RM 906; REC		20	1					1300	1500	1	20		RM 901; COFFEE	42
43	HALL; REC		20	1	1600	1500					1	20		RM 901; MICRO	44
45	RM 412; REC		20	1			800	200			1	20		RM 901; REC	46
47	RM 412; REC		20	1					800	1200	1	20		RM 901; ICE MACHINE	48
49	RM 412; REC		20	1	800	360					1	20		RM 413,414,419;...	50
51	RM 412; REC		20	1			400	1000			1	20		Rec	52
53	RM 412; REC		20	1					1200	0	1	20		SPARE	54
55	RM 411; REC		20	1	1200	0					1	20		SPARE	56
57	RM 411; REC		20	1			800	0			1	20		SPARE	58
59	RM 410; REC		20	1					800	0	1	20		SPARE	60
61	RM 410; REC		20	1	1200	0					1	20		SPARE	62
63	RM 410; REC		20	1			400	0			1	20		SPARE	64
65	SPARE		20	1					0	0	1	20		SPARE	66
67	SPARE		20	1	0	0					1	20		SPARE	68
69	SPARE		20	1			0	0			1	20		SPARE	70
71	SPARE		20	1					0	0	1	20		SPARE	72
73	SPARE		20	1	0	0					1	20		SPARE	74
75	SPARE		20	1			0	0			1	20		SPARE	76
77	SPARE		20	1					0	0	1	20		SPARE	78
79	SPARE		20	1	0	0					1	20		SPARE	80
81	SPARE		20	1			0	0			1	20		SPARE	82
83	SPARE		20	1					0	0	1	20		SPARE	84
				Total Load:	18817 VA		15460 VA		17004 VA						
				Total Amps:	159 A		129 A		144 A						

Load Classification	Connected Load	Demand Factor	Demand Load	Panel Totals	
Ltg	3181 VA	100.00%	3181 VA		
Rec	47740 VA	60.47%	28870 VA	Total Conn. Load:	51281 VA
Other	0 VA	0.00%	0 VA	Total Demand:	32303 VA
MISC	360 VA	70.00%	252 VA	Total Conn. Current:	142 A
				Total Demand Current:	90 A

Notes:

(ETR)

Name: MECH-A
Location:
Supply From: MSB
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Thru Lugs: No
A.I.C. Rating: 42 kA
Mains Type: MLO
Bus Rating: 400 A
MCB Rating: --
Notes:

CKT	Circuit Description	Notes	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Notes	Circuit Description	CKT
1	EF-1-1		20	1	1176	1662					3	20		ATU-1-09	2
3	EF-1-2		20	1			696	1662							4
5	EF-2-1		20	1					1176	1662					6
7	EF-2-2		20	1	696	1662					3	20		ATU-1-10	8
9	ATU-1-01		30	3			2498	1662							10
11									2498	1662					12
13					2498	1499					3	20		ATU-1-11	14
15	ATU-1-02		20	3			1662	1499							16
17									1662	1499					18
19					1662	1998					3	25		ATU-1-12	20
21	ATU-1-03		20	2			1248	1998							22
23									1248	1998					24
25	ATU-1-04		20	2	1248	1335					3	15		ATU-1-13	26
27							1248	1335							28
29	ATU-1-05		20	2					1498	1335					30
31					1498	499					2	15		ATU-1-14	32
33	ATU-1-06		25	3			1993	499							34
35									1993	1662	3	20		ATU-1-15	36
37					1993	1662									38
39	ATU-1-07		20	3			1662	1662							40
41									1662	0	3	20		SPARE	42
43					1662	0									44
45	ATU-1-08		20	2			1248	0							46
47									1248	0	3	20		SPARE	48
49	DWBP-1		60	3	4011	0									50
51							4011	0							52
53									4011	0	3	20		SPARE	54
55	DAC-1		60	3	5188	0									56
57							5188	0							58
59									5188	0	2	20		SPARE	60
61	SPARE		20	2	0	0									62
63							0	0			2	20		SPARE	64
65	SPARE		20	1					0	0					66
67	SPARE		20	1	0	600					1	20		RM 107; REC	68
69	SPARE		20	1			0	0			1	20		MECH CNTRL POWER	70
71	SPARE		20	1					0	0	1	20		SPARE	72
73	SPARE		20	1	0	240					1	20		HWRP-1	74
75	SPARE		20	1			0	200			1	20		WATER VAULT; REC	76
77	SPARE		20	1					0	0	1	20		SPARE	78
79	SPARE		20	1	0	0					1	20		SPARE	80
81	SPARE		20	1			0	1920			1	20		FIRE VAULT; SP-FV	82
83	SPARE		20	1					0	1200	1	20		ROOF; REC	84
				Total Load:	32789 VA		33892 VA		33202 VA						
				Total Amps:	273 A		283 A		277 A						

Load Classification	Connected Load	Demand Factor	Demand Load	Panel Totals	
HVAC	95964 VA	100.00%	95964 VA		
Rec	2000 VA	100.00%	2000 VA	Total Conn. Load:	99884 VA
MISC	1920 VA	70.00%	1344 VA	Total Demand:	99308 VA
				Total Conn. Current:	277 A
				Total Demand Current:	276 A

Notes:

(NEW)

Name: MECH B
Location:
Supply From: MSB
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Thru Lugs: No
A.I.C. Rating: 42 kA
Mains Type: MLO
Bus Rating: 400 A
MCB Rating: --
Notes:

CKT	Circuit Description	Notes	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Notes	Circuit Description	CKT
1	ATU-1-16		20	3	1835	2496					2	35		ATU-2-01	2
3							1835	2496							4
5									1835	1835	3	20		ATU-2-02	6
7	ATU-1-17		20	2	1248	1835									8
9							1248	1835							10
11	ATU-1-18		20	2					1248	2246	2	30		ATU-2-03	12
13					1248	2246									14
15	ATU-1-19		20	3			1835	1747			2	25		ATU-2-04	16
17									1835	1747					18
19					1835	2002					2	25		ATU-2-05	20
21	ATU-1-20		15	3			1162	2002							22
23									1162	2496	2	35		ATU-2-06	24
25					1162	2496									26
27	ATU-1-21		20	2			1498	1835			3	20		ATU-2-07	28
29									1498	1835					30
31	ATU-1-22		25	3	2335	1835									32
33							2335	2498			3	30		ATU-2-08	34
35									2335	2498					36
37	ATU-1-26		15	3	999	2498									38
39							999	2246			2	30		ATU-2-09	40
41									999	2246					42
43	ATU-1-27		20	2	1248	2498					3	30		ATU-2-11	44
45							1248	2498							46
47	ATU-1-29		30	3					2498	2498					48
49					2498	2498					3	30		ATU-2-12	50
51							2498	2498							52
53	ATU-1-31		15	2					749	2498					54
55					749	0					3	20		SPARE	56
57	ATU-1-33		30	2			1997	0							58
59									1997	0					60
61	ATU-1-32		30	2	1997	0					2	20		SPARE	62
63							1997	0							64
65	SPARE		20	2					0	0	1	20		SPARE	66
67					0	0					1	20		SPARE	68
69	SPARE		20	1			0	0			1	20		SPARE	70
71	SPARE		20	1					0	0	1	20		SPARE	72
73	SPARE		20	1	0	0					1	20		SPARE	74
75	SPARE		20	1			0	0			1	20		SPARE	76
77	SPARE		20	1					0	0	1	20		SPARE	78
79	SPARE		20	1	0	0					1	20		SPARE	80
81	SPARE		20	1			0	0			1	20		SPARE	82
83	SPARE		20	1					0	0	1	20		SPARE	84
				Total Load:	37557 VA		38306 VA		36055 VA						
				Total Amps:	315 A		321 A		300 A						

Load Classification	Connected Load	Demand Factor	Demand Load	Panel Totals	
HVAC	111918 VA	100.00%	111918 VA		
				Total Conn. Load:	111918 VA
				Total Demand:	111918 VA
				Total Conn. Current:	311 A
				Total Demand Current:	311 A

Notes:

(NEW)

Name: IT
Location:
Supply From: MSB
Mounting: SURFACE
Enclosure: NEMA 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
Feed Thru Lugs: No
A.I.C. Rating: 22 kA
Mains Type: MLO
Bus Rating: 100 A
MCB Rating: --
Notes:

CKT	Circuit Description	Notes	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Notes	Circuit Description	CKT
1	WALL; REC		20	1	200	0					2	20		SPARE	2
3	WALL; REC		20	1			200	0							4
5	WALL; REC		20	1					200	0	2	20		SPARE	6
7	WALL; REC		20	1	200	0									8
9	WALL; REC		20	1			200	0			2	20		SPARE	10
11	ACCESS CONTROL PANEL		20	1					0	0					12
13	RACK; REC		20	1	1000	0					2	20		SPARE	14
15	RACK; REC		20	1			1000	0							16
17	RACK; REC		20	1					1000	0	2	30		SPARE	18
19	RACK; REC		20	1	1000	0									20
21	SPARE		20	1			0	0			2	30		SPARE	22
23	SPARE		20	1					0	0					24
25	SPARE		20	1	0	0					2	30		SPARE	26
27	SPARE		20	1			0	0							28
29	SPARE		20	1					0	0	2	30		SPARE	30
31	SPARE		20	1	0	0									32
33	SPARE		20	1			0	0			1	20		SPARE	34
35	SPARE		20	1					0	0	1	20		SPARE	36
37	SPARE		20	1	0	0					1	20		SPARE	38
39	SPARE		20	1			0	0			1	20		SPARE	40
41	SPARE		20	1					0	0	1	20		SPARE	42
				Total Load:	2400 VA		1400 VA		1200 VA						
				Total Amps:	20 A		12 A		10 A						

Load Classification	Connected Load	Demand Factor	Demand Load	Panel Totals	
DATA	5000 VA	70.00%	3500 VA		
				Total Conn. Load:	5000 VA
				Total Demand:	3500 VA
				Total Conn. Current:	14 A
				Total Demand Current:	10 A

Notes:

PANEL SCHEDULE NOTES

1. PROVIDE RED HANDLED, LOCK-ON CIRCUIT BREAKER.
2. PROVIDE GFCI CIRCUIT BREAKER FOR EQUIPMENT PROTECTION.

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PANEL SCHEDULES - BUILDOUT

CONSTRUCTION DRAWINGS

LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO CENTER LINE	BACK BOX AND PLASTER RING SIZE	CONDUIT SIZE
STRUCTURED CABLING / PAGING				
◁X	DATA OUTLET (SUB-SCRIPT DENOTES NUMBER OF OUTLETS IN FACEPLATE)	18" AFF OR MATCH POWER OUTLET	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING	1"
◁X	DATA OUTLET (SPECIAL MOUNTING HEIGHT) (SUB-SCRIPT DENOTES NUMBER OF OUTLETS IN FACEPLATE)	SMH AS NOTED, OR PER ARCH. ELEVATIONS	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING	1"
▣X	DATA OUTLET (FLOOR OR BELOW FLOOR) (SUB-SCRIPT DENOTES NUMBER OF OUTLETS IN FACEPLATE)	FLUSH IN FLOOR	POKE THRU OR CAST IN PLACE BY DIVISION 26	1"
◀W	WALL PHONE VOICE OUTLET	44" AFF OR PER ARCH. WALL ELEVATIONS	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING	1"
◁TC	TIME CLOCK	44" AFF OR PER ARCH. WALL ELEVATIONS	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING	1"
⊛X	WIRELESS ACCESS POINT CONNECTION (SUB-SCRIPT REPRESENTS NUMBER OF CABLES)	FLUSH IN CEILING OR ABOVE CEILING (AC)	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING (FOR HARD CEILING ONLY)	1" IF HARD CEILING
TBB	TELECOMMUNICATIONS GROUNDING BAR (ELEVATION VIEW) PROVIDED BY DIVISION 26.	WALL MOUNTED OR AS VENDOR SPECIFIED	N/A	N/A
TELEVISION				
TV XX	WALL MOUNTED TV OUTLET. REFER TO FACEPLATE DETAIL FOR CABLING INFORMATION AND JACK LAYOUT.	AS NOTED OR PER ARCH ELEVATIONS	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING	1"
SECURITY				
DR	SECURITY CARD READER	46" AFF OR PER ARCH. WALL ELEVATIONS	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING	3/4"
DR	SECURITY DOOR RELEASE BUTTON	48" AFF OR CASEWORK, OWNER DIRECTION	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING	3/4"
VIDEO SURVEILLANCE				
C FIX	SECURITY CAMERA - FIXED	CEILING MOUNTED	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING (FOR HARD CEILING ONLY)	1" IF HARD CEILING
C FE	SECURITY CAMERA - FISHEYE	CEILING MOUNTED	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING (FOR HARD CEILING ONLY)	1" IF HARD CEILING
C MS 180	SECURITY CAMERA - MULTI-SENSOR - 180 DEGREES	REFER TO ARCH DWGS	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING ONLY WHEN WALL MOUNTED	1"
C MS 270	SECURITY CAMERA - MULTI-SENSOR - 270 DEGREES	REFER TO ARCH DWGS	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING ONLY WHEN WALL MOUNTED	1"
NURSE CALL				
EP	EMERGENCY PULL CORD STATION	48" AFF OR PER ARCH. WALL ELEVATIONS	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING	1"
◇	AUDIBLE AND VISUAL DOME LIGHT	CEILING MOUNTED	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING	1" IF HARD CEILING

GENERAL CONSTRUCTION NOTES

A. COORDINATE LOCATION AND MOUNTING REQUIREMENTS OF ALL CEILING MOUNTED OR ABOVE CEILING MOUNTED DEVICES WITH REFLECTED CEILING PLAN, LIGHTING LAYOUT, AND OTHER CEILING OR ABOVE CEILING MOUNTED EQUIPMENT.

B. ALL ABOVE CEILING WORK IN EXISTING FACILITY IS TO BE CONDUCTED IN ACCORDANCE WITH FACILITY I.C.R.A. POLICIES.

C. DEVICES MOUNTED IN/ADJACENT TO CASEWORK - PRIOR TO ROUGH-IN, COORDINATE EXACT DEVICE LOCATIONS WITH ARCHITECTURAL CASEWORK ELEVATIONS. COORDINATE WITH CASEWORK SHOP DRAWINGS FOR CABLING PATHWAY AND ROUGH-IN REQUIREMENTS.

D. DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT DRAWN TO SCALE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES AND DISTANCES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.

E. CONDUITS ARE TO HAVE A MAXIMUM 40% FILL RATIO.

F. IN THE INSTALLATION OF THIS WORK, THE CONTRACTOR IS TO COMPLY WITH THE REQUIREMENTS OF LOCAL LAWS AND ORDINANCES, APPLICABLE STATE LAWS, THE NATIONAL BOARD OF FIRE UNDERWRITERS, AND THE NATIONAL ELECTRIC CODE.

G. CAREFULLY EXAMINE THE PREMISES TO DETERMINE THE EXTENT OF WORK AND THE CONDITION UNDER WHICH IT MUST BE DONE. IF THERE ARE ANY QUESTIONS REGARDING THE PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ENGINEER OR DESIGNATED REPRESENTATIVE BEFORE PROCEEDING WITH WORK OR RELATED WORK IN QUESTION.

H. ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER OR DESIGNATED REPRESENTATIVE FOR CLARIFICATION.

I. ALL WORK IS TO BE DONE IN A THOROUGH AND PROFESSIONAL MANNER ACCORDING TO INDUSTRY AND MANUFACTURERS' STANDARDS AND WILL BE SUBJECT TO INSPECTION AND ACCEPTANCE. WORK THAT IS DEEMED SUB-STANDARD WILL BE SUBJECT TO REPLACEMENT OR REPAIR AT NO ADDITIONAL COST TO THE OWNER OR GENERAL CONTRACTOR.

J. THE CONTRACTOR IS REQUIRED TO PROPERLY FIRE-STOP ANY WALL OR FLOOR PENETRATIONS UTILIZED FOR THE PLACEMENT OF COMMUNICATIONS CABLING WITH APPROVED FIRE-STOPPING COMPOUND AND ACCORDING TO LOCAL AND NATIONAL CODES.

K. ALL PENETRATED STRUCTURES ARE TO BE RETURNED TO ORIGINAL CONDITION AND FIRE RATING.

L. REPRESENTATION OF OUTSIDE PLANT CABLE, PATHWAY, AND FACILITIES IS APPROXIMATE AND SCHEMATIC IN NATURE. DO NOT RELY ON PLANS FOR DETERMINATION AND COORDINATION OF EXACT LOCATIONS. VERIFY ALL PERTINENT CONDITIONS AND LOCATIONS WITH THE CIVIL ENGINEER AND UTILITY LOCATION SERVICES PRIOR TO PERFORMING WORK.

M. WIRELESS ACCESS POINT LOCATIONS ARE DIAGRAMMATIC ONLY FOR BUDGETARY PURPOSES. FINAL LOCATION TO BE DETERMINED BY OWNER.

N. A PULL BOX SHALL BE PLACED IN A CONDUIT RUN WHEN ANY OF THE FOLLOWING CONDITIONS EXIST:
1. THE LENGTH OF THE CONDUIT RUN IS OVER 100 FEET.
2. THERE ARE MORE THAN TWO 90 DEGREE BENDS IN THE CONDUIT RUN.
3. THERE IS A REVERSE BEND IN THE CONDUIT RUN.

O. PULL BOXES AND JUNCTION BOXES SHALL BE PLACED IN EASILY ACCESSIBLE LOCATIONS. PULL BOX SIZES SHALL BE AS DEFINED BY THE NATIONAL ELECTRICAL CODE.

P. PULL BOXES SHALL BE PLACED IN STRAIGHT SECTION OF CONDUIT AND NOT USED TO REPLACE A BEND. CONDUITS ENTERING AND EXITING PULL BOXES SHALL BE ALIGNED WITH ONE ANOTHER TO ALLOW FOR EASE OF CABLE INSTALLATION.

ABBREVIATIONS

ABC	ABOVE COUNTER
AC	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
ATC	ACOUSTIC TILE CEILING
C	CONDUIT
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
DAS	DISTRIBUTED ANTENNA SYSTEM
EF	ENTRANCE FACILITY
ER	EQUIPMENT ROOM
ERRCS	EMERGENCY RESPONDER RADIO COMMUNCATION SYSTEM
JB	JUNCTION BOX
MM	MULTI MODE
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
PACS	PICTURE ARCHIVE AND COMMUNICATION SYSTEM
POE	POWER OVER ETHERNET
RIO	ROUGH IN ONLY
RTL	REFER TO HOST DEVICE LEGEND
RTLS	REAL TIME LOCATION SYSTEM
RU	RACK UNIT
SM	SINGLE MODE
SMH	SPECIAL MOUNTING HEIGHT
TGB	TELECOM GROUNDING BUSBAR
TMGB	TELECOM MAIN GROUNDING BUSBAR
TR	TELECOM ROOM
TYP	TYPICAL
WAP	WIRELESS ACCESS POINT
WP	WEATHER PROOF (EXTERIOR APPLICATION)
+72"	NUMBER DENOTES MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER LINE
(X)Y"	"X" DENOTES NUMBER OF CONDUITS, "Y" DENOTES TRADE SIZE OF CONDUIT

PATHWAY

J	COMMUNICATIONS JUNCTION BOX	ABOVE CEILING (AC), OR AS NOTED	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING (FOR HARD CEILING ONLY)	1" IF HARD CEILING
J	COMMUNICATIONS JUNCTION BOX - WALL MOUNTED	18" OR AS NOTED	4" x 4" x 2 1/2" WITH SINGLE GANG MUD RING	1"
J	COMMUNICATIONS JUNCTION BOX - FLOOR MOUNTED	FLUSH IN FLOOR	POKE THRU OR CAST IN PLACE BY DIVISION 26	1"
X"	X" CONDUIT SLEEVE	N/A	N/A	N/A
X"	SLEEVE/CONDUIT	N/A	N/A	N/A
	CABLE TRAY	AS NOTED OR SEE SPECIFICATIONS	N/A	N/A
	LADDER RACK	AS NOTED OR SEE SPECIFICATIONS	N/A	N/A
	CONDUIT UP	N/A	N/A	N/A
	CONDUIT DOWN	N/A	N/A	N/A
	CONDUIT IN WALL OR CEILING	N/A	N/A	N/A
	CONDUIT IN SLAB OR BELOW GRADE	N/A	N/A	N/A
	J-HOOKS	N/A	N/A	N/A

SHEET INDEX

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Freestanding Medical Office Building Buildout for:
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Sullivan, Indiana

ROBERT M. JENNINGS
STATE OF INDIANA
PROFESSIONAL ENGINEER
02.26.24

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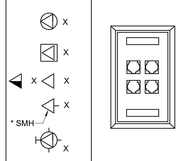
TECHNOLOGY LEGENDS, INDEX, AND NOTES - BUILDOUT

CONSTRUCTION DRAWINGS

FACE PLATE REQUIREMENTS



INITIAL CAPACITY: X CONNECTIONS
MAXIMUM CAPACITY: 4 CONNECTIONS

QTY	DESCRIPTION
1-4	HORIZONTAL COMMUNICATION CABLE(S)**
1	4 PORT FACEPLATE

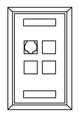
1 UL LISTED HORIZONTAL COMMUNICATION CABLE PULLED TO EACH DATA JACK. INSTALL BLANKS IN UNUSED JACKS.

DATA

TV D
TV D
TV D

TRACKING BOARD

TV TB



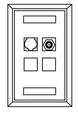
INITIAL CAPACITY: 1 CONNECTIONS
MAXIMUM CAPACITY: 4 CONNECTIONS

QTY	DESCRIPTION
1	HORIZONTAL COMMUNICATION CABLE(S)**
1	4 PORT FACEPLATE

1 UL LISTED HORIZONTAL COMMUNICATION CABLE PULLED TO EACH DATA JACK. INSTALL BLANKS IN UNUSED JACKS.

COAX+DATA

TV CD
TV CD
TV CD



INITIAL CAPACITY: 2 CONNECTIONS
MAXIMUM CAPACITY: 4 CONNECTIONS

QTY	DESCRIPTION
1	COAX CONNECTION**
1	HORIZONTAL COMMUNICATION CABLE**
1	4 PORT FACEPLATE

1 UL LISTED HORIZONTAL COMMUNICATION CABLE PULLED TO EACH DATA JACK. INSTALL BLANKS IN UNUSED JACKS.

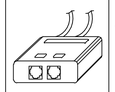
1 UL LISTED COAX CABLE PULLED TO EACH COAX OUTLET.

* COORDINATE ALL VOICE/DATA LOCATIONS, SPECIAL MOUNTING HEIGHT (SMH) DEVICES WITH ARCHITECTURAL WALL ELEVATIONS AND/OR MOUNTING HEIGHTS OF POWER DEVICES ON ELECTRICAL DRAWINGS.

** REFER TO SPECIFICATIONS FOR JACK AND CABLING REQUIREMENTS.

JACK REQUIREMENTS

X



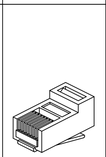
INITIAL CAPACITY: X CONNECTIONS
MAXIMUM CAPACITY: 2 CONNECTIONS

QTY	DESCRIPTION
1-2	HORIZONTAL COMMUNICATION CABLE(S)**
1	SURFACE MOUNT HOUSING ABOVE CEILING

1 UL LISTED HORIZONTAL COMMUNICATION CABLE PULLED TO EACH DATA JACK. INSTALL BLANKS IN UNUSED JACKS.

LEAVE 35' OF SLACK COILED IN CEILING.

FIX
PTZ
DUAL
FOUR
FISH
270
OBS
X



INITIAL CAPACITY: 1 CONNECTION
MAXIMUM CAPACITY: 1 CONNECTION

QTY	DESCRIPTION
1	HORIZONTAL COMMUNICATION CABLE**

1 UL LISTED HORIZONTAL COMMUNICATION CABLE PULLED TO EACH PLUG.

IM X
IS X
FIX
PTZ
DUAL
FOUR
FISH
270
CRN
X
RS 1
C OBS

INITIAL CAPACITY: 1 CONNECTION
MAXIMUM CAPACITY: 1 CONNECTION

QTY	DESCRIPTION
1	HORIZONTAL COMMUNICATION CABLE**

1 UL LISTED HORIZONTAL COMMUNICATION CABLE PULLED TO DATA PLUG.

* COORDINATE ALL VOICE/DATA LOCATIONS, SPECIAL MOUNTING HEIGHT (SMH) DEVICES WITH ARCHITECTURAL WALL ELEVATIONS AND/OR MOUNTING HEIGHTS OF POWER DEVICES ON ELECTRICAL DRAWINGS.

** REFER TO SPECIFICATIONS FOR JACK AND CABLING REQUIREMENTS.

LOW VOLTAGE RESPONSIBILITY MATRIX

DESCRIPTION	DIVISION 26	DIVISION 27	DIVISION 28	OWNER
VOICE/DATA OUTLETS AND FACE PLATES		X		
VOICE/DATA CABLE TERMINATIONS		X		
VOICE/DATA CABLE MANAGEMENT		X		
EQUIPMENT RACKS, LADDER RACK		X		
CONDUIT, BACKBOXES AND PLYWOOD BACKBOARDS (ALL LOW VOLTAGE SYSTEMS)	X			
PERIPHERALS (COMPUTERS, TELEPHONES, FAX, TV'S, PRINTERS, ETC.)				X
COMMUNICATIONS GROUNDING AND BONDING RISER AND RACEWAY	X			
GROUNDING AND BONDING TELCO SYSTEMS AND EQUIPMENT		X		
MASTER ANTENNA TV, WIRING, AND TERMINATIONS		X		
NURSE CALL SYSTEM EQUIPMENT, WIRING, AND TERMINATIONS		X		
A/V, WIRING, AND TERMINATIONS (EXCLUDES O.R.'S A/V SYSTEM)				X
A/V MULTIMEDIA EQUIPMENT				X
WIRELESS ACCESS POINT INSTALLATION				X
WIRELESS ACCESS POINT PURCHASE				X
CARD ACCESS, INTRUSION DETECTION AND CCTV			X	
J-HOOKS		X		
TELEVISION INSTALLATION				X
TELEVISION BRACKET INSTALLATION				X
WIRELESS ACCESS POINT HEATMAP				X
TELEPHONE SYSTEM				X
RACK MOUNTED UPS (EXCLUDES ANY UPS ON DIVISION 26 DRAWINGS/SPECS)				X
SECURITY SYSTEM (CCTV, ACCESS CONTROL) FIBER OPTIC CABLE AND DATA CABLE TO CAMERAS SHALL BE INSTALLED, TERMINATED, LABELED AND TESTED		X		

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Freestanding Medical Office Building Buildout for:

Sullivan County Community Hospital

Sullivan, Indiana

ROBERT M. JENNINGS
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STATE OF INDIANA
PROFESSIONAL ENGINEER

02.26.24

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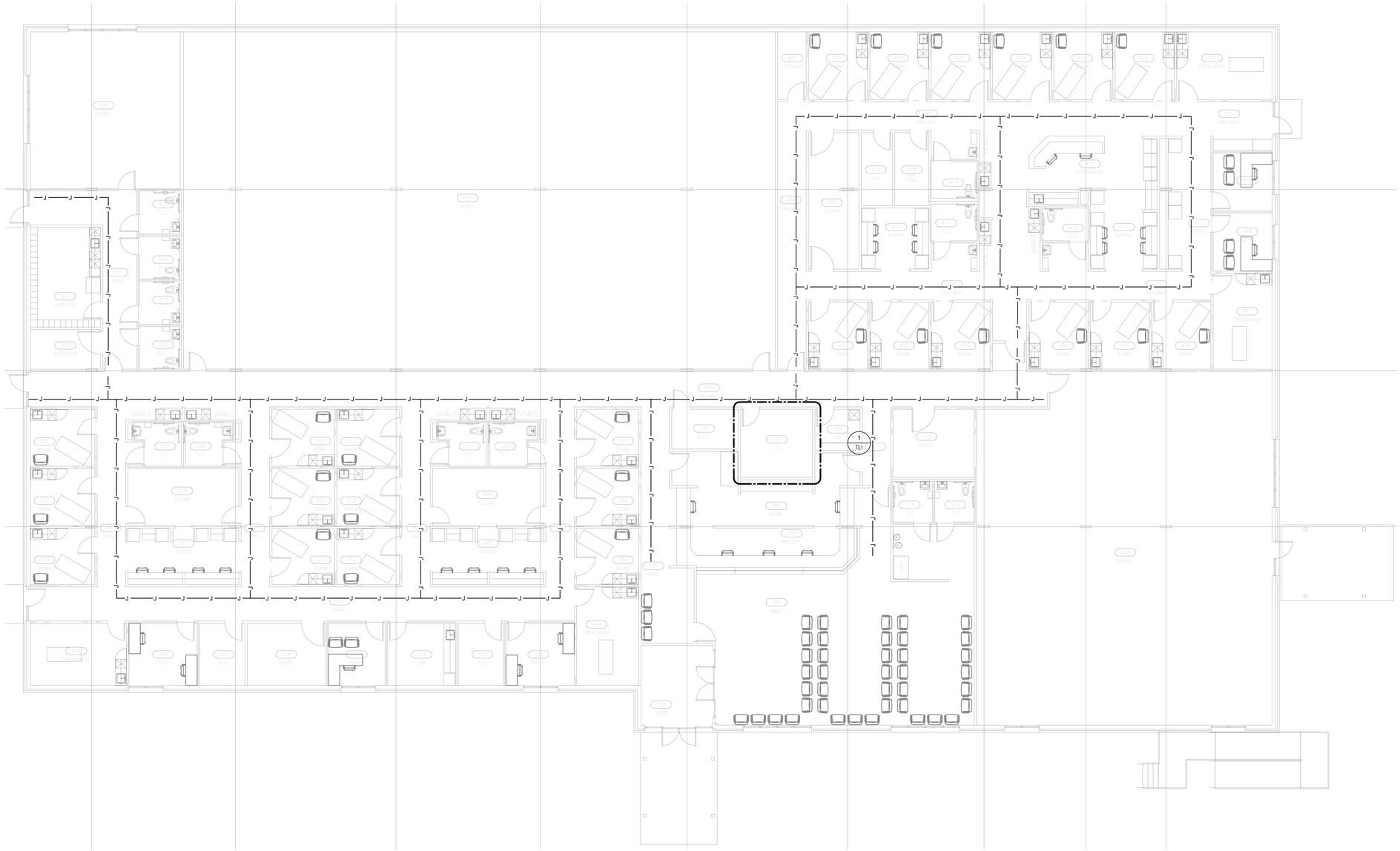
TECHNOLOGY FACEPLATE AND MATRIX - BUILDOUT

CONSTRUCTION DRAWINGS



1 TECHNOLOGY PATHWAYS PLAN - BASE - BUILDOUT
1/8" = 1'-0"

CONSTRUCTION DRAWINGS

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Freestanding Medical Office Building Buildout for:
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Sullivan, Indiana

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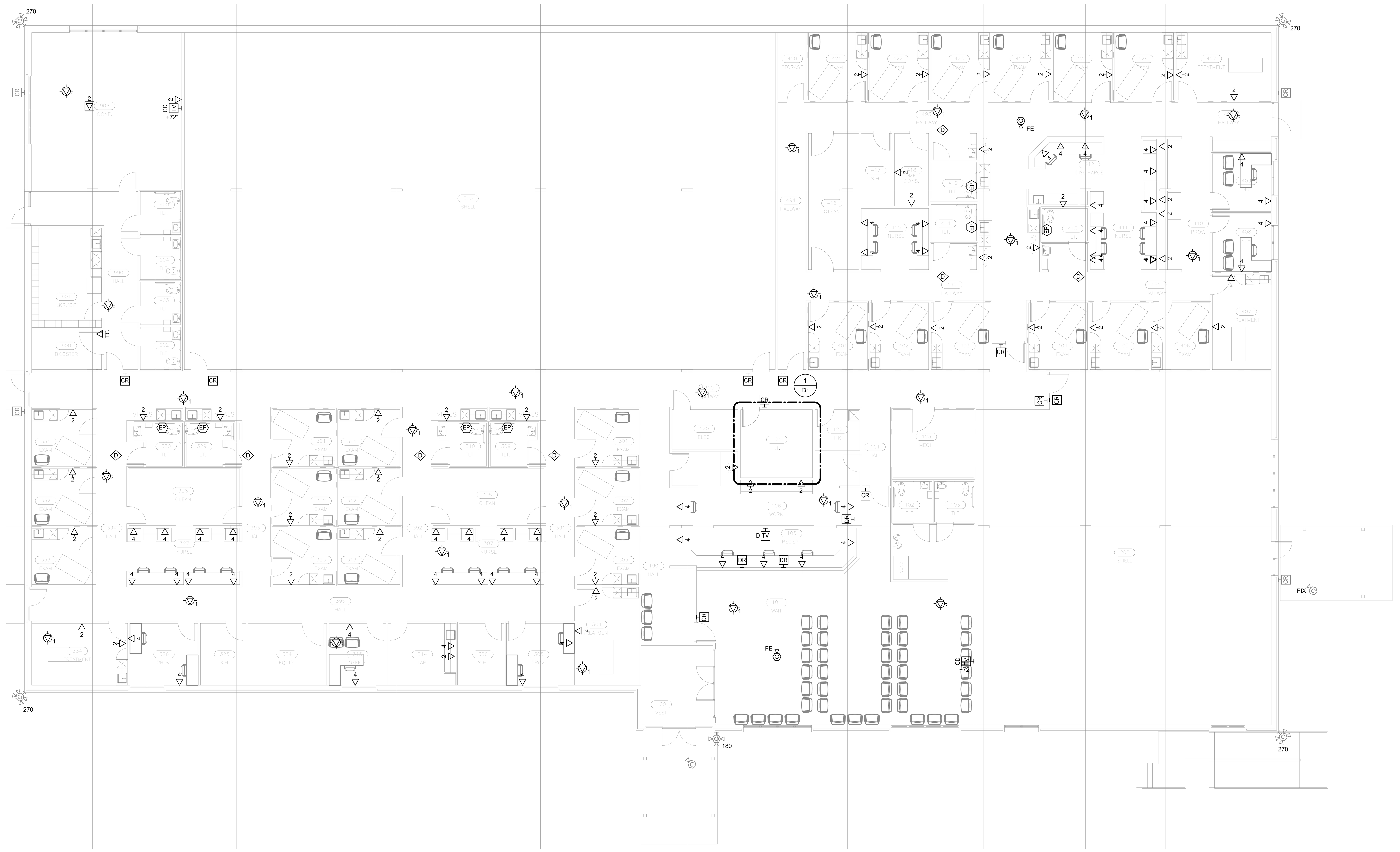
TECHNOLOGY PATHWAYS PLAN - BASE - BUILDOUT



1 TECHNOLOGY PLAN - BASE - BUILDOUT

1/8" = 1'-0"

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TECHNOLOGY PLAN - BASE - BUILDOUT

CONSTRUCTION DRAWINGS

1 TECHNOLOGY PATHWAYS PLAN - ALTERNATE A1 - BUILDOUT
1/8" = 1'-0"

CONSTRUCTION DRAWINGS

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PROFESSIONAL ENGINEER
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T1.3
TECHNOLOGY PATHWAYS PLAN - ALTERNATE A1 - BUILDOUT

1 TECHNOLOGY PLAN - ALTERNATE A1 - BUILDOUT

1/8" = 1'-0"

CONSTRUCTION DRAWINGS

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Freestanding Medical Office Building Buildout for:

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Sullivan, Indiana

HERBERT M. JENKINS REGISTERED No. PE10001079 STATE OF INDIANA PROFESSIONAL ENGINEER

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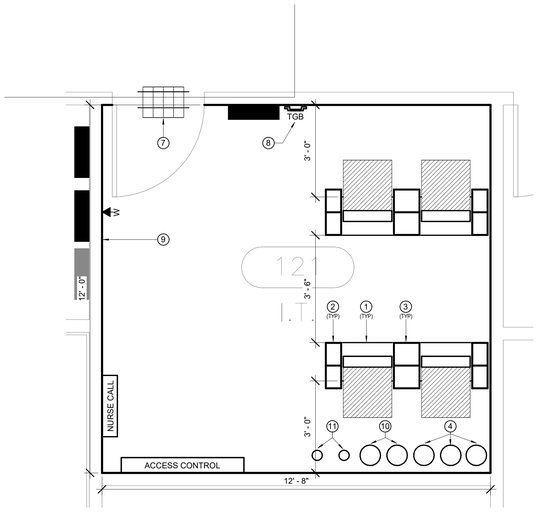
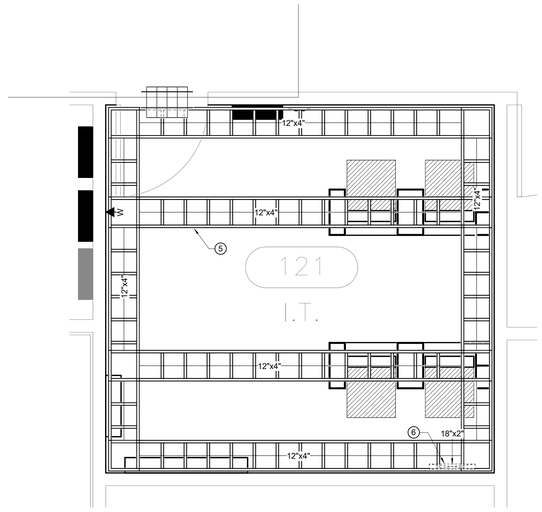
TECHNOLOGY PLAN - ALTERNATE A1 - BUILDOUT



1 IT ROOM - 106 - EQUIPMENT VIEW
1/2" = 1'-0"



2 IT ROOM - 106 - OVERHEAD VIEW
1/2" = 1'-0"

SHEET GENERAL NOTES

A. TELECOMMUNICATIONS ROOM LAYOUTS ARE SHOWN AS CONCEPTUAL IN NATURE. VIEW IS INTENDED TO INDICATE DESIRED ROOM LAYOUT AND EQUIPMENT LOCATIONS.

B. LABEL RACKS AND PATCH PANELS. COORDINATE WITH OWNERS IT FOR LABELING REQUIREMENTS.

C. CABLE TRAY DEPTH REFERS TO TRAY'S LOADING DEPTH.

D. PROPERLY FIRE SEAL CONDUIT AND RACEWAY PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS TO MAINTAIN THE FIRE SEPARATION RATING. PROVIDE FIRE STOPPING SYSTEMS THAT ARE UL LISTED FOR THE APPLICATION. COORDINATE REQUIREMENTS WITH LOCAL FIRE MARSHAL PRIOR TO INSPECTION. DO NOT MIX PRODUCTS BETWEEN MANUFACTURED ASSEMBLIES.

E. PROVIDE PLASTIC BUSHINGS ON EXPOSED ENDS OF CONDUITS AND SLEEVES, WHETHER VISIBLE OR NOT.

Ⓧ SHEET KEYED NOTES

1. 2-POST 19" W x 7' H EQUIPMENT RACK.
2. 6" W VERTICAL WIRE MANAGER.
3. 10" W VERTICAL WIRE MANAGER.
4. (3) 4" CONDUITS FOR ISP. REFER TO SHELL PACKAGE.
5. CABLE RUNWAY MOUNTED AT 7'-6" AFF. REFER TO LAYOUT FOR SIZE.
6. VERTICAL LADDER-STYLE CABLE TRAY FOR VERTICAL CABLING. REFER TO LAYOUT FOR SIZE.
7. (4) 4" EZ-PATH SERIES 44 FIRE RATED PATHWAYS WITH MULTI-GANG INSTALLATION BRACKET. PROVIDE RADIUS CONTROL MODULES ON TR SIDE OF PATHWAY. REFER TO DETAIL 5 ON T5.1.
8. GROUNDING BUSBAR MOUNTED AT 7'-0"
9. PROVIDE 3/4" FIRE-RATED PLYWOOD BACKBOARD ON ALL WALLS OF ROOM AS SHOWN. STARTING AT 6" AFF TO 8'-6" AFF. MASK FIRE RATING STAMP PRIOR TO PAINTING PLYWOOD GREY WITH FIRE-RATED PAINT. USE FLUSH FASTENERS FOR MOUNTING PLYWOOD.
10. (2) 4" CONDUITS FOR SITE SECURITY. REFER TO SHELL PACKAGE.
11. (2) 2" CONDUITS FOR FUTURE EV CHARGING STATIONS. REFER TO SHELL PACKAGE.

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Johnson Johnson Crabtree Architects P.C.

Freestanding Medical Office Building Buildout for:
Sullivan County Community Hospital
Sullivan, Indiana

ROBERT M. JENKINS
STATE OF INDIANA
PROFESSIONAL ENGINEER
02.26.24

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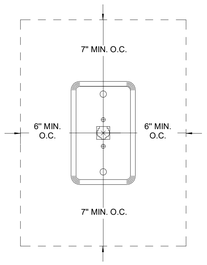
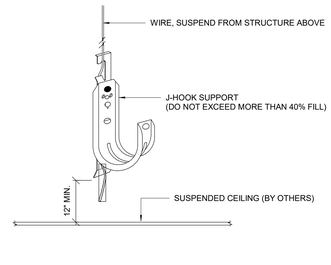
T3.1

TECHNOLOGY
LARGE SCALE
PLANS - BUILDOUT



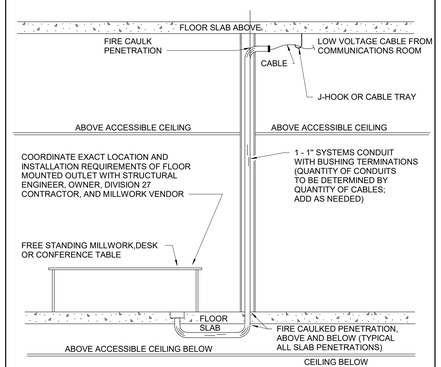
GENERAL NOTE:
G1. ANY DEVICE MOUNTED ADJACENT TO, ABOVE, OR BELOW WALL PHONE OUTLET, IS NOT TO INFRINGE WITHIN THE BORDERS OF THE DASHED LINES NOTED ABOVE. COORDINATE WITH ARCHITECTURAL ELEVATIONS AND OTHER WALL MOUNTED DEVICES.

WALL PHONE CLEARANCE REQUIREMENTS 9



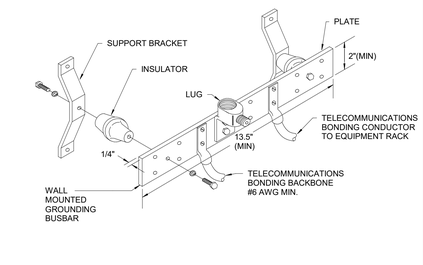
NOTES:
1) CABLE HANGERS SHALL BE SPACED AT A MAXIMUM 5'-0" ON CENTER AS SHOWN ON FLOOR PLANS.
2) CABLE HANGERS SHALL BE SECURED TO DECK UTILIZING APPROPRIATE FASTENERS WHICH SHALL MEET LOCAL SEISMIC CODES.
3) REFER TO ARCHITECTURAL DRAWINGS FOR DECK AND SUSPENDED CEILING TYPE. DETAILS SHOWN FOR CLARITY ONLY.

J-HOOK DETAIL 8



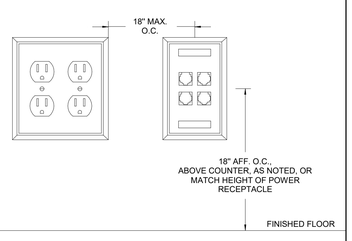
GENERAL NOTES:
G1. ALL CONDUITS AND BACKBOXES TO BE INSTALLED BY DIVISION 26 CONTRACTOR.
G2. ALL CONDUITS IN PATIENT CARE AREAS ARE TO TERMINATE IN CORRIDOR WITH BUSHING TERMINATION.

UNDER SLAB TO FLUSH MOUNTED FLOOR BOX 7



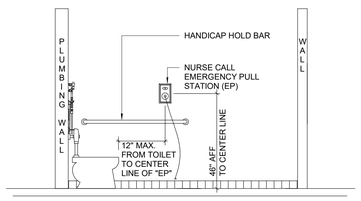
GENERAL NOTE:
G1. MINIMUM 2" STAND-OFF FROM WALL TO BACK SIDE OF PLATE

TELECOMMUNICATIONS GROUNDING BUS BAR (TGB) 6



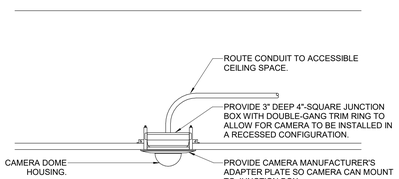
GENERAL NOTE:
G1. VOICE/DATA OUTLETS TO BE MOUNTED ADJACENT TO POWER OUTLETS WHERE APPLICABLE. COORDINATE ALL MOUNTING HEIGHTS WITH ARCHITECTURAL WALL ELEVATIONS, ELECTRICAL DRAWINGS, AND EQUIPMENT VENDOR DRAWINGS.

POWER OUTLET COORDINATION REQUIREMENTS 5

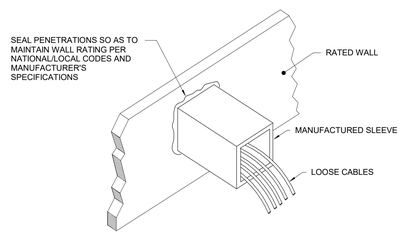


GENERAL NOTES:
G1. COORDINATE LOCATION OF THE EMERGENCY PULL STATION (EP) AND PULL CORD SO AS NOT TO BE IN CONFLICT WITH THE HANDICAP HOLD BAR AND THE TOILET PAPER DISPENSER.
G2. EMERGENCY PULL STATION (EP) IS NOT TO BE INSTALLED WHERE THE DEVICE IS LOCATED BEHIND THE HANDICAP HOLD BAR.
G3. EMERGENCY PULL STATION (EP) CORD IS NOT TO BE INSTALLED WHERE THE PULL CORD IS HANGING OVER THE TOILET PAPER DISPENSER.
G4. EMERGENCY PULL STATION CORD IS TO HANG 4" ABOVE FINISHED FLOOR. PULL CORD HANGING OVER THE HANDICAP HOLD BAR SHOULD BE TAKEN INTO ACCOUNT FOR THE REQUIRED 4" DISTANCE REQUIREMENT.

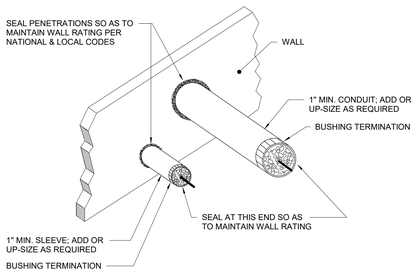
EMERGENCY PULL STATION DETAIL 4



EXTERIOR FIXED CAMERA - HARD CEILING 3



MANUFACTURED SLEEVE WALL PENETRATION 2



WALL CONDUIT AND SLEEVE PENETRATIONS 1

CONSTRUCTION DRAWINGS

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ROBERT M. JENKINS II
REGISTERED ARCHITECT
STATE OF INDIANA
PROFESSIONAL ENGINEER
02.26.24

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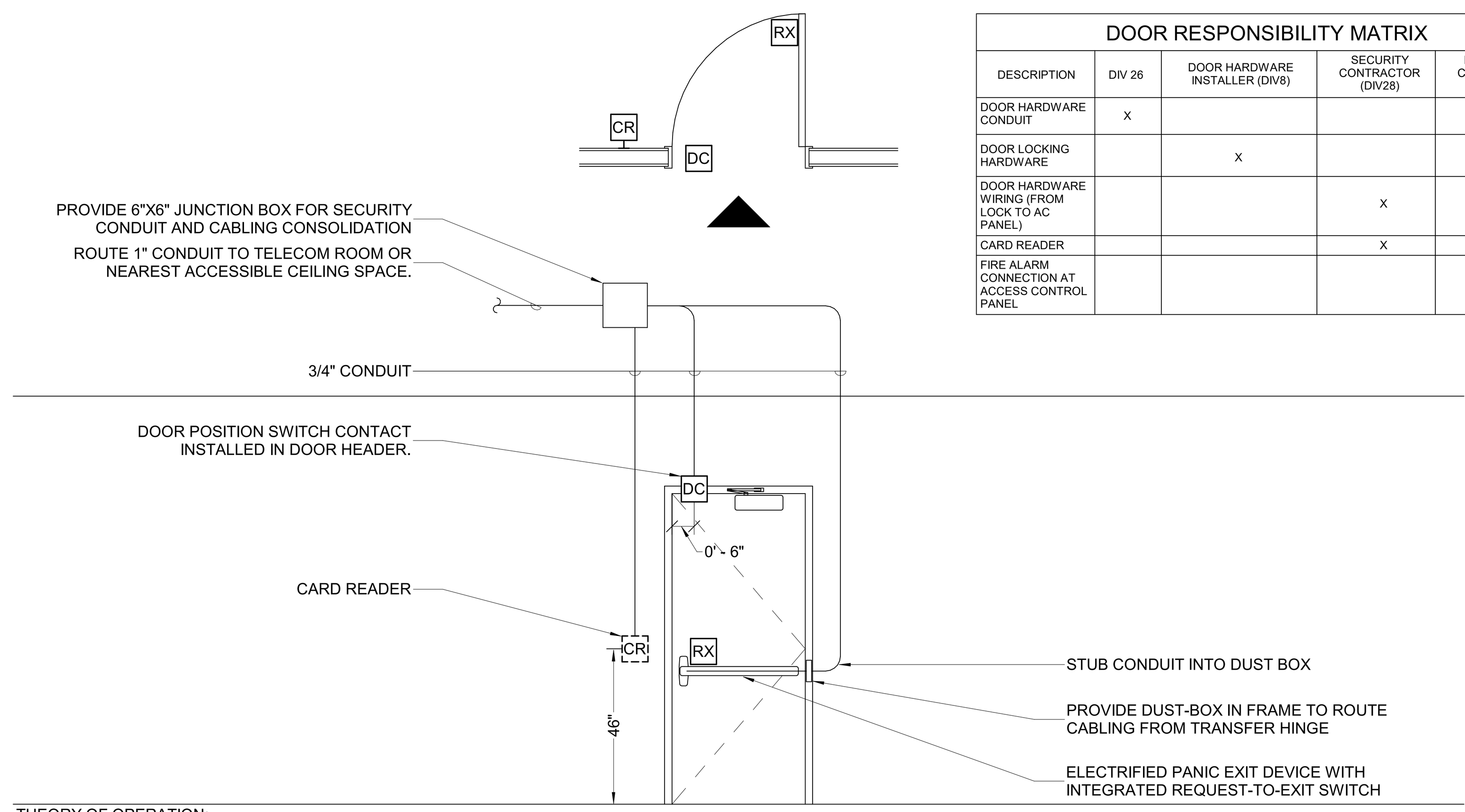
T5.1
TECHNOLOGY DETAILS - BUILDOUT

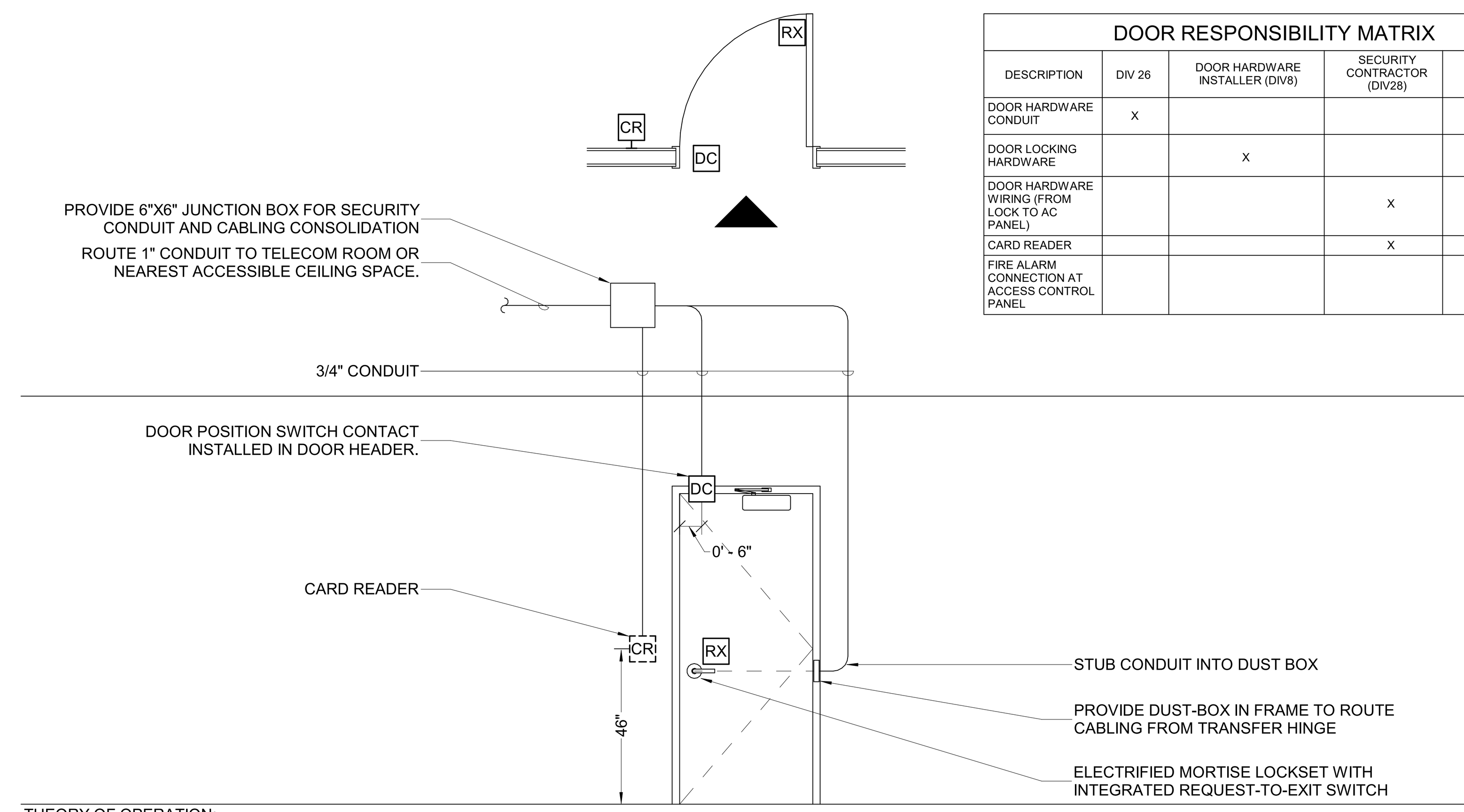


DOOR RESPONSIBILITY MATRIX

DESCRIPTION	DIV 26	DOOR HARDWARE INSTALLER (DIV8)	SECURITY CONTRACTOR (DIV28)	FIRE ALARM CONTRACTOR (DIV28)
DOOR HARDWARE CONDUIT	X			
DOOR LOCKING HARDWARE		X		
DOOR HARDWARE WIRING (FROM LOCK TO AC PANEL)			X	
CARD READER			X	
FIRE ALARM CONNECTION AT ACCESS CONTROL PANEL				X

THEORY OF OPERATION:
1. NORMAL STATE OF DOOR IS CLOSED AND ELECTRONICALLY LOCKED WITH FREE EGRESS AT ALL TIMES.
2. A VALID ID BADGE PRESENTED TO CARD READER WILL UNLOCK DOOR.
3. POSITION SWITCH MONITORS DOOR STATUS AT ALL TIMES. REQUEST-TO-EXIT (RX) SENSORS WITHIN DOOR HARDWARE WILL SHUNT DOOR STATUS ALARM.
4. DOOR HARDWARE WILL INCLUDE MECHANICAL KEY OVERRIDE.

ELECTRIC EXIT DEVICE - SINGLE DOOR - CARD READER IN — 4

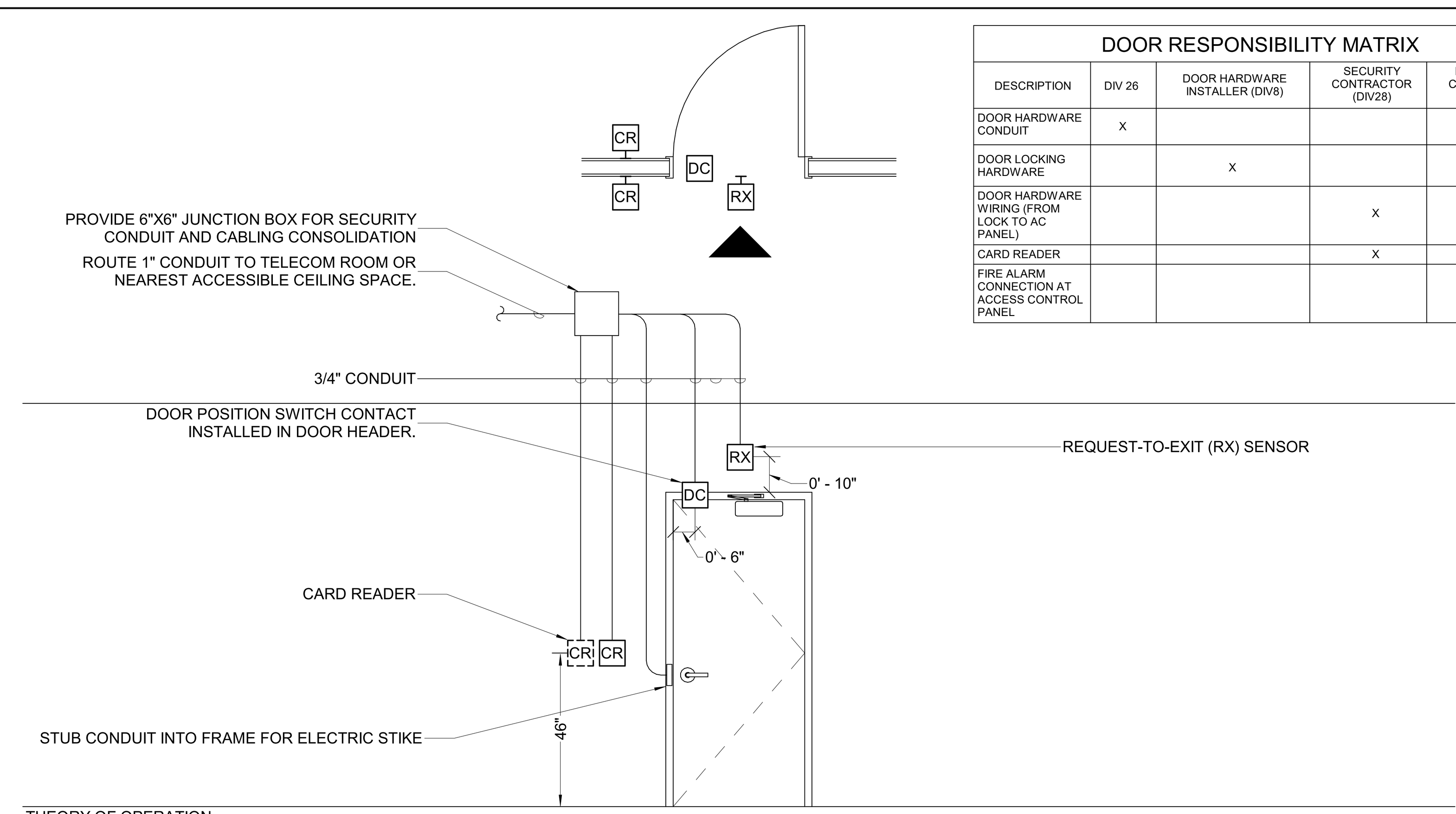


DOOR RESPONSIBILITY MATRIX

DESCRIPTION	DIV 26	DOOR HARDWARE INSTALLER (DIV8)	SECURITY CONTRACTOR (DIV28)	FIRE ALARM CONTRACTOR (DIV28)
DOOR HARDWARE CONDUIT	X			
DOOR LOCKING HARDWARE		X		
DOOR HARDWARE WIRING (FROM LOCK TO AC PANEL)			X	
CARD READER			X	
FIRE ALARM CONNECTION AT ACCESS CONTROL PANEL				X

THEORY OF OPERATION:
1. NORMAL STATE OF DOOR IS CLOSED AND ELECTRONICALLY LOCKED WITH FREE EGRESS AT ALL TIMES.
2. A VALID ID BADGE PRESENTED TO CARD READER WILL UNLOCK DOOR.
3. POSITION SWITCH MONITORS DOOR STATUS AT ALL TIMES. REQUEST-TO-EXIT (RX) SENSORS WITHIN DOOR HARDWARE WILL SHUNT DOOR STATUS ALARM.
4. DOOR HARDWARE WILL INCLUDE MECHANICAL KEY OVERRIDE.

ELECTRIC LOCKSET - SINGLE DOOR - CARD READER IN — 3

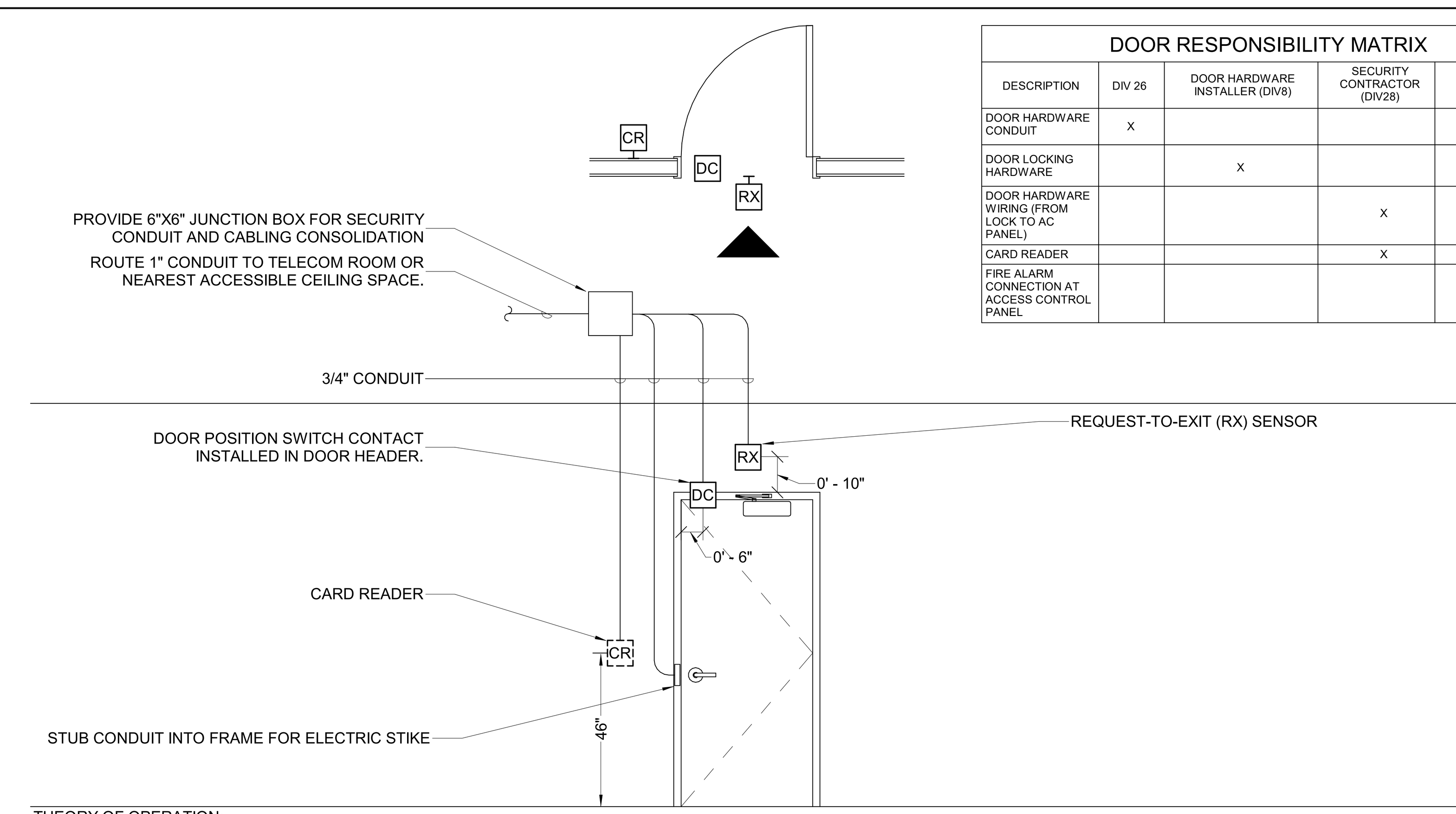


DOOR RESPONSIBILITY MATRIX

DESCRIPTION	DIV 26	DOOR HARDWARE INSTALLER (DIV8)	SECURITY CONTRACTOR (DIV28)	FIRE ALARM CONTRACTOR (DIV28)
DOOR HARDWARE CONDUIT	X			
DOOR LOCKING HARDWARE		X		
DOOR HARDWARE WIRING (FROM LOCK TO AC PANEL)			X	
CARD READER			X	
FIRE ALARM CONNECTION AT ACCESS CONTROL PANEL				X

THEORY OF OPERATION:
1. NORMAL STATE OF DOOR IS CLOSED AND ELECTRONICALLY LOCKED IN BOTH DIRECTIONS.
2. A VALID ID BADGE PRESENTED TO CARD READER WILL UNLOCK DOOR.
3. POSITION SWITCH MONITORS DOOR STATUS AT ALL TIMES. REQUEST-TO-EXIT (RX) SENSOR ABOVE DOOR WILL SHUNT DOOR STATUS ALARM.
4. DOOR HARDWARE WILL INCLUDE MECHANICAL KEY OVERRIDE.
5. 120V CONNECTION FOR AUTO OPERATOR PROVIDED BY ELECTRICAL CONTRACTOR.

ELECTRIC STRIKE - SINGLE DOOR - CARD READER IN/OUT — 2



DOOR RESPONSIBILITY MATRIX

DESCRIPTION	DIV 26	DOOR HARDWARE INSTALLER (DIV8)	SECURITY CONTRACTOR (DIV28)	FIRE ALARM CONTRACTOR (DIV28)
DOOR HARDWARE CONDUIT	X			
DOOR LOCKING HARDWARE		X		
DOOR HARDWARE WIRING (FROM LOCK TO AC PANEL)			X	
CARD READER			X	
FIRE ALARM CONNECTION AT ACCESS CONTROL PANEL				X

THEORY OF OPERATION:
1. NORMAL STATE OF DOOR IS CLOSED AND ELECTRONICALLY LOCKED WITH FREE EGRESS AT ALL TIMES.
2. A VALID ID BADGE PRESENTED TO CARD READER WILL UNLOCK DOOR.
3. POSITION SWITCH MONITORS DOOR STATUS AT ALL TIMES. REQUEST-TO-EXIT (RX) SENSOR ABOVE DOOR WILL SHUNT DOOR STATUS ALARM.
4. DOOR HARDWARE WILL INCLUDE MECHANICAL KEY OVERRIDE.

ELECTRIC STRIKE - SINGLE DOOR - CARD READER IN — 1

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