INDIAN HEALTH SERVICE - BILLINGS AREA WIDE AIRBORNE INFECTION ISOLATION ROOM RENOVATION AND MODERNIZATION



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE DIVISION OF FACILITIES ENGINEERING BILLINGS AREA



CONSULTANTS

MECHANICAL / PLUMBING/ ELECTRICAL Adams & Associates 6422 East Speedway Blvd., #130 Tucson, AZ 85710 Phone: 520.323.3858

FORT BELKNAP SERVICE UNIT

CONSTRUCTION DOCUMENTS

STRUCTURAL Turner Structural Engineering Company 2806 N. Alvernon Way #400 Tucson, AZ 85712 Phone: 520.323.3422

IHS Project No.:BI20A0200Z6 MONTANA & WYOMING

E - BILLINGS NFECTION ISOLATION MODERNIZATION SERVICE **NIDE AIRBORNE IN Renovation and** 300 1818. & WYOMING **BWS Project 10NTANA** MOOM

CONSTRUCTION DOCUMENTS

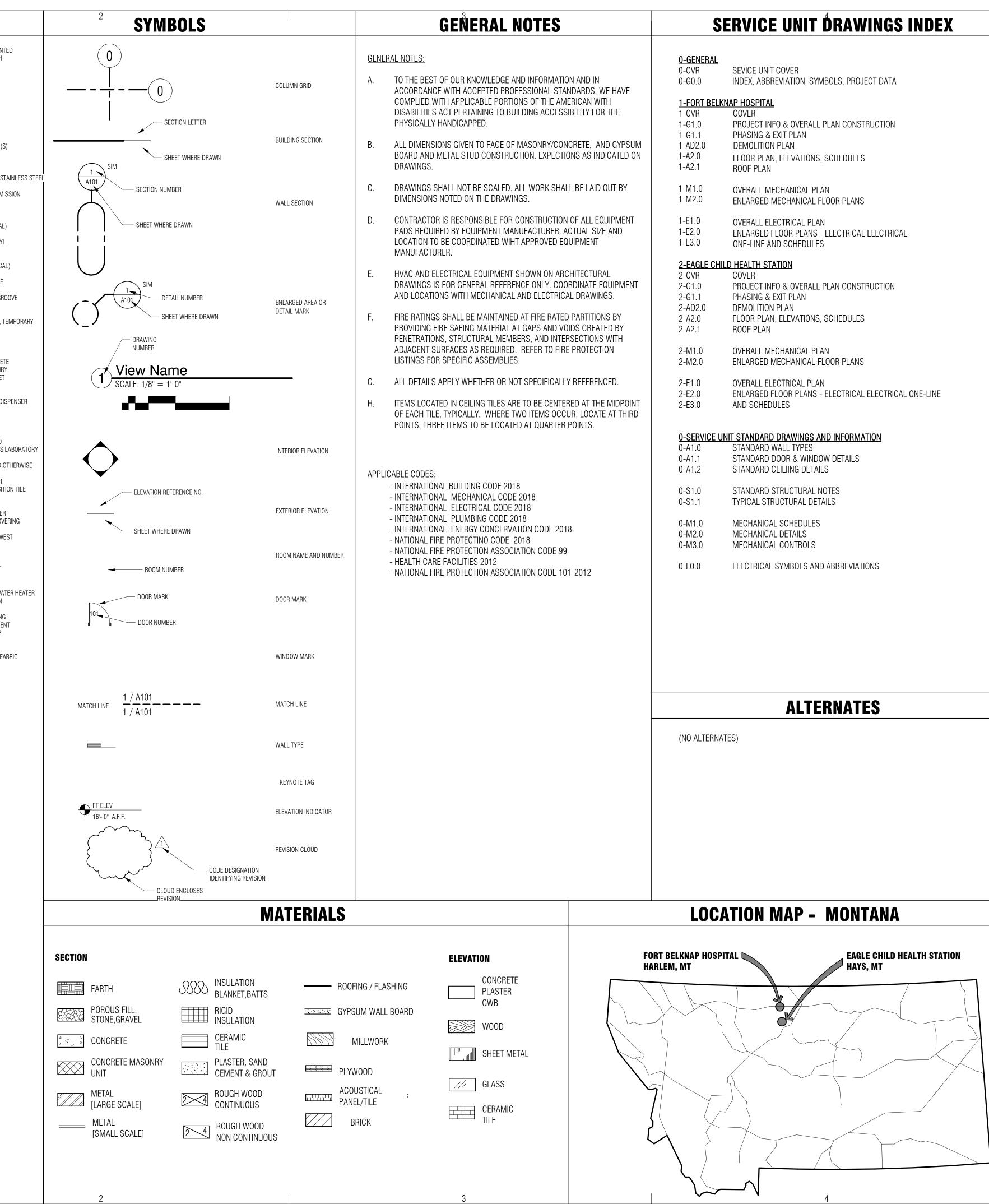
05/26/2021



BURNS WALD-HOPKINS SHAMBACH ARCHITECTS 261 North Court Avenue

Tucson, Arizona 85701 520.795.2705 Fax 520.795.6171 www.bwsarchs.com

	@ A/C AB	AT AIR CONDITIONING ANCHOR BOLT	ID IE IN	INSIDE DIAMETER INVERT ELEVATION INCH(ES)	(S) S SC	SURFACE MOUN SEALED, SOUTH SOLID CORE
	ABC AC	AGGREGATE BASE COURSE ACOUSTICAL CEILING	INCL INSUL	INCLUDING INSULAT(ED)(ION)	SCHED SECT	SCHEDULE SECTION
	ADJ AFF	ADJACENT ABOVE FINISH FLOOR	INT	INTERIOR	SD SDG	STORM DRAIN SIDING
	AGG ALT	AGGREGATE ALTERNATE	JC JST	JANITOR'S CLOSET JOIST	SF SHWR	SQUARE FEET SHOWER
	ALUM ANCH	ALUMINUM ANCHOR	JT	JOINT	SIM SM	SIMILAR SHEET METAL
	ANOD AESS	ANODIZED ARCHITECTURALLY EXPOSED	KD KIT	KNOCKED DOWN KITCHEN	SP SPEC(S)	SOUNDPROOF SPECIFICATION(
		STRUCTURAL STEEL	KO KP	KNOCK OUT KICK PLATE	SPKR SPL	SPEAKER SPECIAL
	BD BFF	BOARD BELOW FINISH FLOOR	L	LENGTH, LONG	SQ SS	SQUARE SERVICE SINK, S
	BLDG BLK(G)	BUILDING BLOCK(ING)	LAB LAM	LABORATORY LAMINATE	ST STC	STEEL, STREET SOUND TRANSM
0	BM BO	BENCHMARK BOTTOM OF	LAV LF	LAVATORY LINEAR FOOT, FEET	STD	COEFFICIENT
С	BOT BRG	BOTTOM BEARING	LH	LEFT HAND LIVE LOAD	STOR STRUC	STORAGE STRUCTUR(E)(AL
	BRK	BRICK	LLH	LONG LEG HORIZONTAL	SUSP	SUSPENDED
	BSMT BUR	BASEMENT BUILT-UP ROOFING	LLV LP	LONG LEG VERTICAL LOW POINT	SV SW	SEAMLESS VINYI SWITCH
	C O /O	CHANNEL	LT LTWT	LIGHT LIGHTWEIGHT	SWR SYM	SEWER SYMMETR(Y)(ICA
	C/C CAB	CENTER TO CENTER CABINET	LVR	LOUVER	T	THICKNESS, TEE
	CB CEM	CHALKBOARD, CATCH BASIN CEMENT	MAS MAX	MASONRY MAXIMUM	TD T&G	TRENCH DRAIN TONGUE AND GR
	CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	MATL MED	MATERIAL MEDIUM	TB TEL	TACKBOARD TELEPHONE
	CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED	MECH MET	MECHANICAL METAL	TEMP TERR	TEMPERATURE, 1 TERRAZZO
	CG CI	CORNER GUARD CAST IRON	MEZZ MFR	MEZZANINE MANUFACTURER	THK TLT	THINK(NESS) TOILET
	CIP CJ	CAST IN PLACE CONTROL JOINT	MH MIN	MANHOLE MINIMUM	TO TOC	TOP OF
	CLR CMP	CLEAR(ANCE)	MIN MISC MO	MISCELLANEOUS	TOM TOP	TOP OF CONCRE TOP OF MASONR TOP OF PARAPET
	CMTS	CORRUGATED METAL PIPE COMMENTS CONCRETE MASONRY UNIT	MOD	MASONRY OPENING MODULAR MOVABLE	TOS	TOP OF STEEL
	CMU CMWP	CONCRETE MASONRY UNIT COMPOSITE METAL	MOV MTD	MOVABLE MOUNTED	TOW TPD	TOP OF WALL TOILET PAPER DI
	CO	WALL PANEL CLEAN OUT	MTL MWP	METAL METAL WALL PANEL	TV TYP	TELEVISION TYPICAL
	COL COMB	COLUMN COMBINATION		(SYSTEM)	U	URINAL
	CONC CONST	CONCRETE CONSTRUCTION	N NA	NORTH NOT APPLICABLE	UG UL	UNDERGROUND UNDERWRITER'S
	CONN CONT	CONNECTION CONTINUOUS, CONTINUE	NIC	NOT IN CONTRACT, (OFOI) NOMINAL	UNF UNO	UNFINISHED UNLESS NOTED (
	CORR	CORRIDOR, CORRUGATED CARPET	NRC	NOISE REDUCTION COEFFICIENTS NUMBER	VB	VAPOR BARRIER
	CSK CT	COUNTERSINK CERAMIC TILE	0A	OVERALL	VD VCT VERT	VAPOR BARRIER VINYL COMPOSIT VERTICAL
	CU	CUBIC	00	ON CENTER(S)	VNR	VENEER
	CU FT CW	CUBIT FOOT (FEET) COLD WATER	OD OFCI	OUTSIDE DIAMETER OWNER FURNISHED,	VPL VWC	VENEER PLASTER VINYL WALL COV
	D	DEPTH	OFF	CONTRACTOR INSTALLED OFFICE	W	WIDE, WIDTH, WE
	DEMO DF	DEMOLISH, DEMOLITION DRINKING FOUNTAIN	OFOI	OWNER FURNISHED, CONTRACTOR INSTALLED	W/ W/O	WITH WITHOUT
	DIA DIAG	DIAMETER DIAGONAL	OH OPG	OVERHEAD, OPPOSITE HAND OPENING	W/W WC	WALL TO WALL WATER CLOSET
	DIM DISP	DIMENSION DISPENSER	OPP ORD	OPPOSITE OVERFLOW ROOF DRAIN	WD WDW	WOOD WINDOW
	DM D0	DOWN DITTO	P	PAINT(ED)	WH WI	WALL HUNG, WA WROUGHT IRON
В	DP DR	DAMPPROOFING DOOR	PAR PART	PARALLEL PARTITION	WM WP	WIRE MESH WATERPROOFING
	DS	DOWNSPOUT	PART BD	PARTICLE BOARD	WR	WATER REPELLEN
	DTL DWG	DETAIL DRAWING	PC PCC	PIECE PRECAST CONCRETE	WS WSCT	WEATHERSTRIP WAINSCOT
	DWC	DRYWALL CHANNELS (HAT)	PCF PERF	POUNDS PER CUBIC FOOT PERFORATED	WT WWF	WEIGHT WELDED WIRE FA
	E EA	EAST EACH	PREFAB PERIM	PREFABRICATED PERIMETER	YD	YARD
	EF FJ	EACH FACE EXPANSION JOINT	PERP PF	PERPENDICULAR PREFABRICATED		
	ELEC ELEV	ELECTRIC(AL) ELEVATION, ELEVATOR	PJ PL	PANEL JOINT PLASTER, PLATE, PROPERTY LINE		
	EMER EP	EMERGENCY EPOXY PAINT	PLBG PLAM	PLUMBING PLASTIC LAMINATE		
	EQ EQUIP	EQUAL EQUIPMENT	PLF PNL	POUNDS PER LINEAR FOOT PANEL		
	ES	EXPOSED STRUCTURE	PO	POWER OPERATED		
	EST EW	ESTIMATE(D) EACH WAY	PR PSF	PAIR POUNDS PER SQUARE FOOT		
	EWC EXC	ELECTRIC WATER COOLER EXCAVAT(ED)(ION)	PSI PT	POUNDS PER SQUARE FOOT POINT		
	EXH EXST	EXHAUST EXISTING	PTD PTR	PAPER TOWEL DISPENSER PAPER TOWEL RECEPTOR		
	EXP EXT	EXPANSION EXTERIOR	PVC PVMT	POLYVINYL CHLORIDE PAVEMENT		
	EIFS	EXTERIOR INSULATION FINISH SYSTEM	PWD	PLYWOOD		
	EFS	EXTERIOR FINISH SYSTEM	QT QTR	QUARRY TILE QUARTER		
	F		QTY	QUARTER QUANTITY		
	FA FAB	FIRE ALARM FABRICATE	(R)	RECESSED		
	FD FDN	FLOOR DRAIN FOUNDATION	R RA	RADIUS, RISER, ROUND RETURN AIR		
	FE FEC	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	RB RCP	RESILIENT BASE REINFORCED CONCRETE PIPE,		
	FF FIN	FINISH FLOOR FINISH(ED)	RD	REFLECTED CEILING PLAN ROOF DRAIN		
	FLA FLEX	FLASHING FLEXIBLE	RE(F) RELO	REFERENCE RELOCATION		
	FLUOR	FLUORESCENT	REPL	REPLACE		
	FO FP	FACE OF FIREPROOF	RES REV	RESILIENT REVIS(ED)(ION)		
	FR FRP	FIRE RETARDANT FIBER REINFORCED PLASTIC	RF RFG	RIGID FIBERGLASS ROOFING		
	FT FTG	FOOT, FEET FOOTING	RH RM	RIGHT HAND ROOM		
A	FUR FUT	FURR(ED)(ING) FUTURE	RO ROW	ROUGH OPENING RIGHT OF WAY		
	GA	GAGE, GAUGE	REQ'D RWL	REQUIRED RAINWATER LEADER		
	GALV GC	GALVANIZED GENERAL CONTRACT(OR)	=			
	GD	GRADE				
	GL GWB	GLASS, GLAZING GYPSUM WALL BOARD				
	GYP	GYPSUM				
	H(T) HB	HEIGHT HOSE BIB				
	HC	HOLLOW CORE HEAVY DUTY				
		HEAVY DUTY HARDBOARD				
	HD HDBD					
	HD HDBD HDWD HDWR	HARDWOOD HARDWARE				
	HD HDBD HDWD	HARDWOOD				
	HD HDBD HDWD HDWR HIW HM HORZ	HARDWOOD HARDWARE HIGH IMPACT WOOD FIBER PANEL HOLLOW METAL HORIZONTAL				
	HD HDBD HDWD HDWR HIW HM	HARDWOOD HARDWARE HIGH IMPACT WOOD FIBER PANEL HOLLOW METAL				



<u>O-GENERAL</u> O-CVR O-G0.0	SEVICE UNIT COVER INDEX, ABBREVIATION, SYMBOLS, PROJECT DATA	BURN 261 Nort Tucson, 520.795 www.bw
<u>1-FORT BELKN</u> 1-CVR	AP HOSPITAL COVER	CONS
1-G1.0 1-G1.1 1-AD2.0 1-A2.0 1-A2.1	PROJECT INFO & OVERALL PLAN CONSTRUCTION PHASING & EXIT PLAN DEMOLITION PLAN FLOOR PLAN, ELEVATIONS, SCHEDULES ROOF PLAN	MECH/ Adams 6422 E Tucsor Phone:
1-M1.0 1-M2.0	OVERALL MECHANICAL PLAN ENLARGED MECHANICAL FLOOR PLANS	STRUC
1-E1.0 1-E2.0 1-E3.0	C OVERALL ELECTRICAL PLAN ENLARGED FLOOR PLANS - ELECTRICAL ELECTRICAL ONE-LINE AND SCHEDULES	Turner 2806 I Tucsor Phone
2-EAGLE CHILI 2-CVR 2-G1.0 2-G1.1 2-AD2.0 2-A2.0 2-A2.1	D HEALTH STATION COVER PROJECT INFO & OVERALL PLAN CONSTRUCTION PHASING & EXIT PLAN DEMOLITION PLAN FLOOR PLAN, ELEVATIONS, SCHEDULES ROOF PLAN	Fair
2-M1.0 2-M2.0	OVERALL MECHANICAL PLAN ENLARGED MECHANICAL FLOOR PLANS	EXPI
2-E1.0 2-E2.0 2-E3.0	OVERALL ELECTRICAL PLAN ENLARGED FLOOR PLANS - ELECTRICAL ELECTRICAL ONE-LINE AND SCHEDULES	
<u>0-SERVICE UN</u> 0-A1.0 0-A1.1 0-A1.2	IT STANDARD DRAWINGS AND INFORMATION STANDARD WALL TYPES STANDARD DOOR & WINDOW DETAILS STANDARD CEILIING DETAILS	A
0-S1.0 0-S1.1	STANDARD STRUCTURAL NOTES TYPICAL STRUCTURAL DETAILS	R
0-M1.0	MECHANICAL SCHEDULES	

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INDIAN HEALTH **SERVICE - BILLINGS** AREA WIDE AIRBORNE INFECTION ISOLATION **OOM RENOVATION AND** MODERNIZATION

MONTANA & WYOMING IHS PROJECT NO. BI20A0200Z6

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

INDIAN HEALTH SERVICE DIVISION OF FACILITIES ENGINEERING BILLINGS AREA



DATE

DATE

DFE ENGINEER/PROJECT MANAGER

APPROVED:

REVIEWED:

DFE BRANCH CHIEF CONCURRENCE:

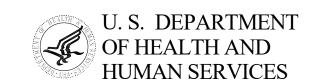
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SHEET TITLE

INDEX, ABBREVIATIONS, **SYMBOLS & PROJECT** DATA

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INDIAN HEALTH SERVICE DIVISION OF FACILITIES ENGINEERING BILLINGS AREA

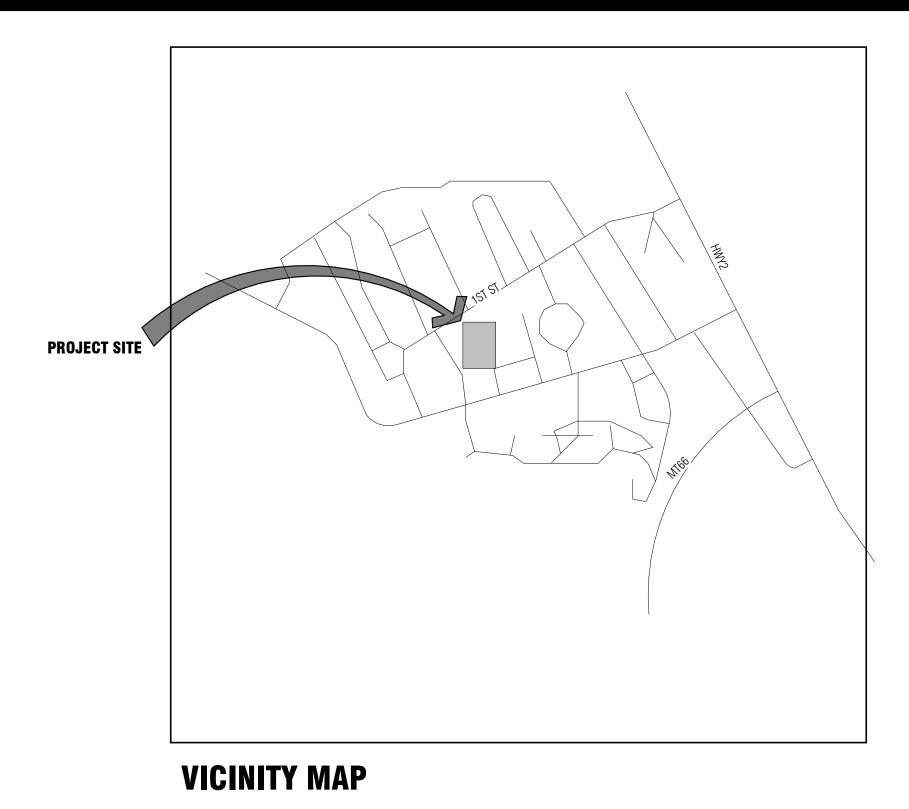


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FORT BELKNAP HOSPITAL 669 Agency Main St, Harlem, Montana 59526 IHS Project No.:BI20A0200Z6

CONSTRUCTION DOCUMENTS



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05/26/2021

1-FORT BELKNAP HOSPITAL DRAWINGS INDEX

SHEET TITLE SHEEI # INFORMATION & OVERALL PLAN 1 - G1.0CONSTRUCTION PHASING & FXITING PLAN DEMOLITION PLAN 1-A2.0 PLANS, ELEVATIONS, SCHEDULES 1-A2.1 ROOF PLAN 1-M1 0 OVERALL MECHANICAL PLAN 1-M2.0 ENLARGED MECHANICAL FLOOR PLANS OVERALL ELECTRICAL PLAN ENLARGED 1-E1.0 1-E2.0 FLOOR PLANS - ELECTRICAL ELECTRICAL ONE-LINE AND SCHEDULES 1-E3.0 TOTAL: 11

DISCIPLINE GENERAL GENERAL GENERAL

ARCHITECTURA ARCHITECTURA ARCHITECTURA MECHANICAL MECHANICAL ELECTRICAL ELECTRICAL

CONSTRUCTION DOCUMENTS

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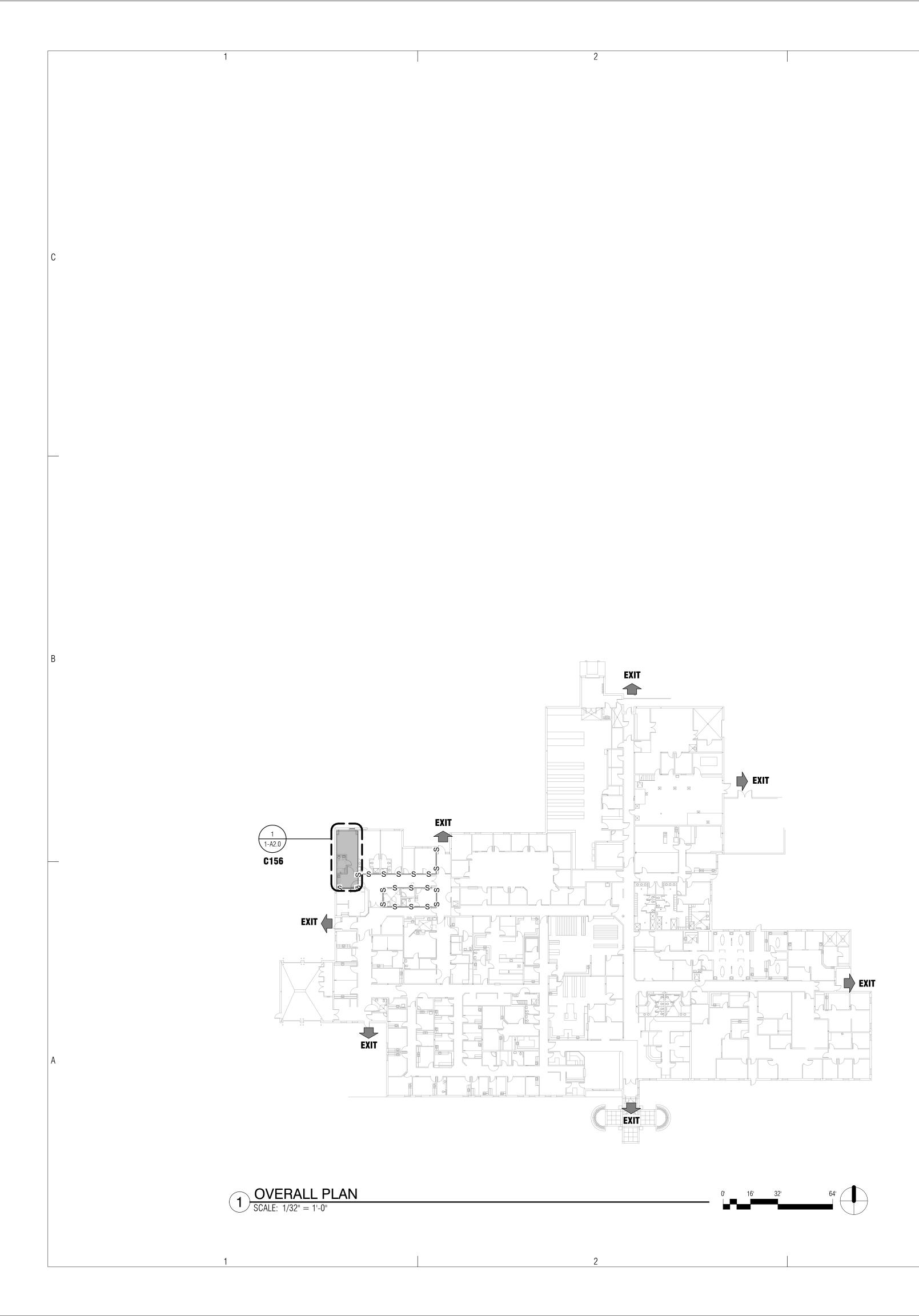
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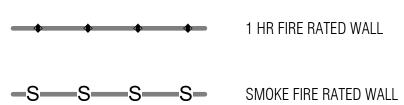
PROJECT INFO	RMATION
Scope of work:	Approxir
Applicable Codes:	2018 Int
Existing Building Description	
Number of Stories: Year Constructed: Construction Type: Fire Protection System: Occupancy Type: Use:	(Unchanged) 1998 Type: II-B Fully Sprinklered (Unchanged Business & Healthcare(Uncha Unchanged
Building Area:	
Level 1: Corridors:	Unchanged
Exit Corridors : Walls and Doors:	Unchanged
Roof:	Existing unchanged
Occupancy Separation Walls:	Existing to remain unchanged
Smoke Compartments:	Unchanged

proximately 40	O sf of renovation to Fort Belknap Hospita	ıl in Harlem, Montana.
18 International	Building Code (IBC) and 2012 NFPA	
	2018 IBC	2012 NFPA
anged) Jnchanged)	Table 601 Section 304 & 308.	NFPA 220: Type II(000) NFPA 101-Ch: 6.1.5, 6.1.6 & 6.1.11 AMBULATORY CARE: Ch 21.
	Table 503	
	407.2, 407.3, and 407.5	19.3.6.2, & 38.3.6

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FIRE RATED WALL TYPES



bws	ARCHITECTS
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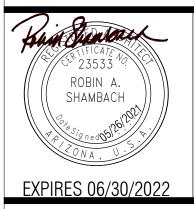
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669 Agency Main St, Harlem, Montana 59526 IHS PROJECT NO. BI20A0200Z6

U. S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

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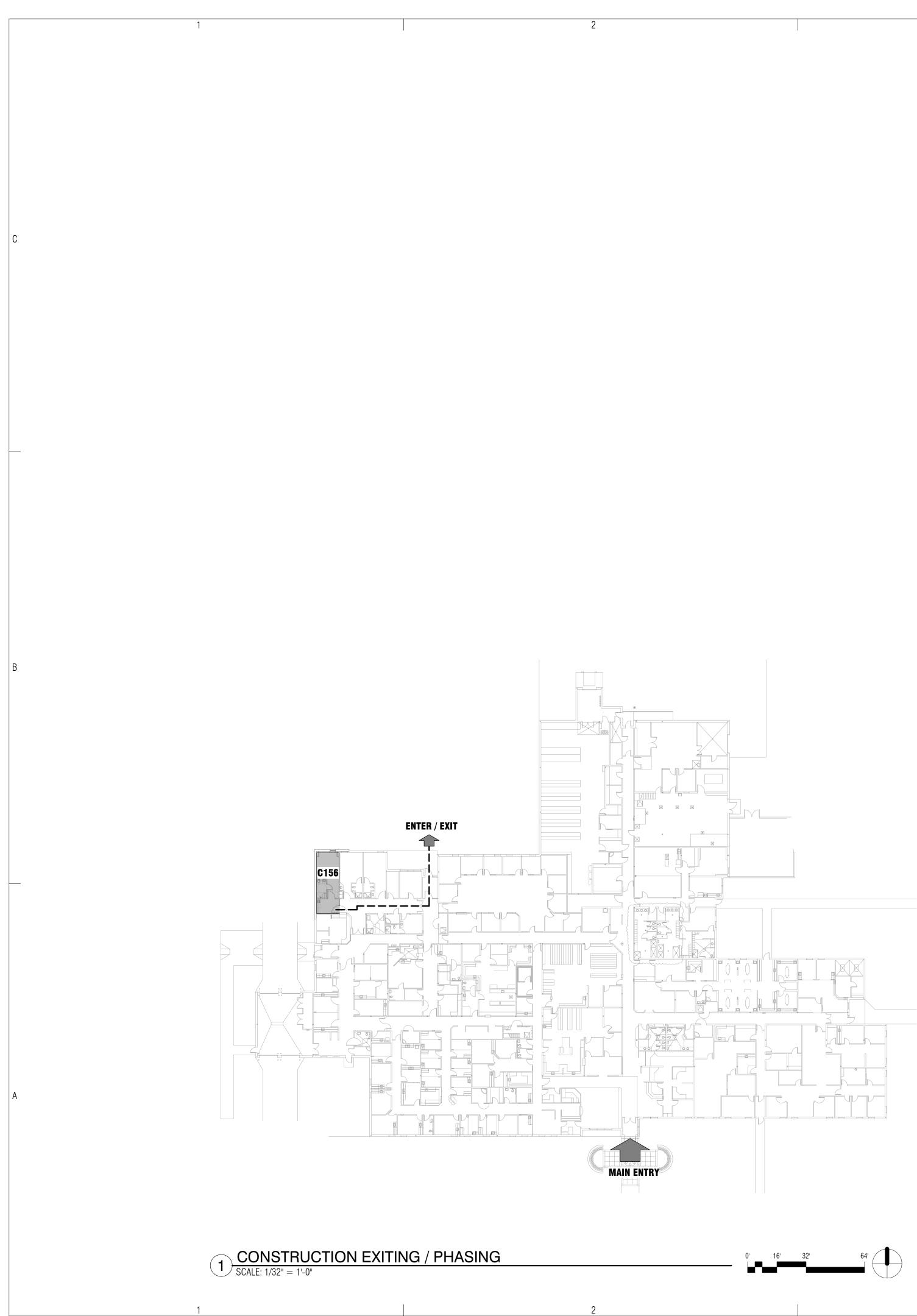
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SHEET TITLE

INFORMATION & OVERALL PLAN

1-G1.0

SHEET 4 OF 33





CONSTRUCTION PHASING GENERAL NOTES

1. G.C. TO CONFIRM SITE ACCESS PRIOR TO START OF CONSTRUCTION 2. G.C. TO CONFIRM ONSITE STORAGE PRIOR TO START OF CONSTRUCTION

bws

ARCHITECTS

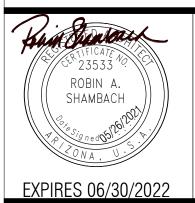
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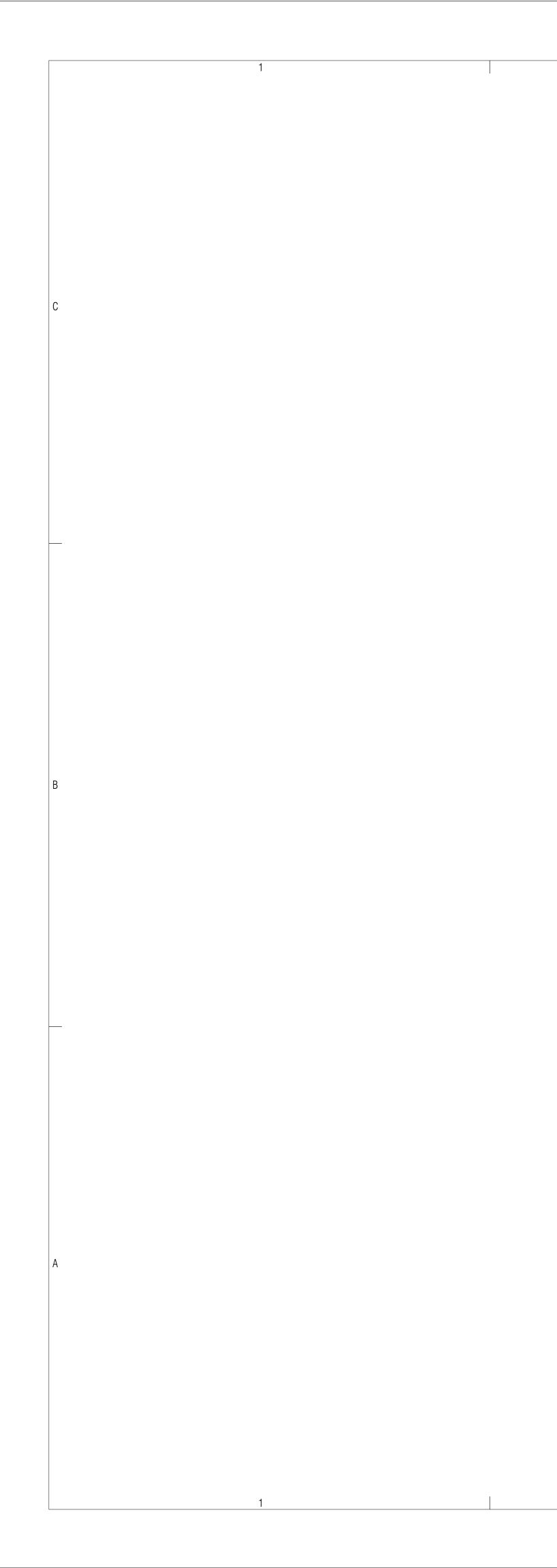
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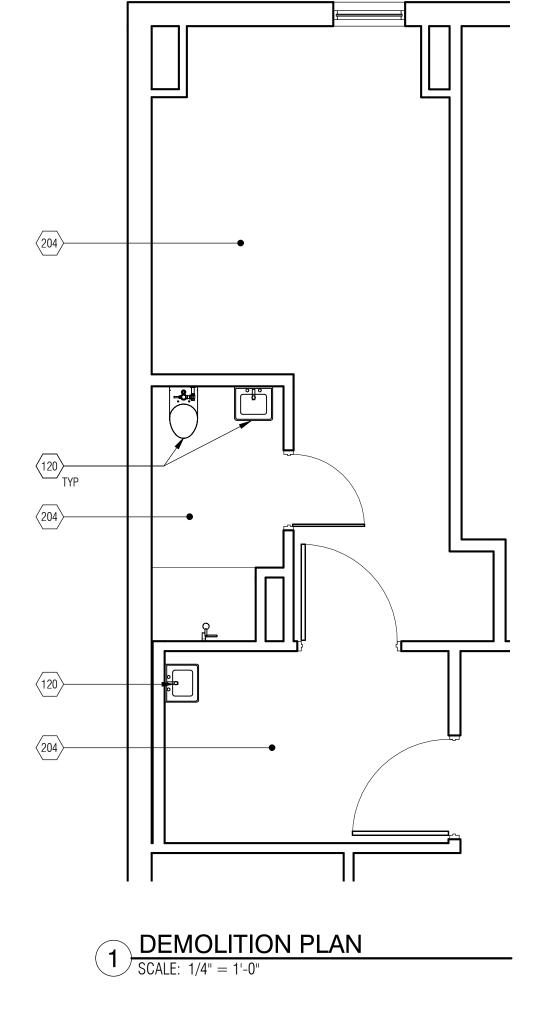
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CONSTRUCTION PHASING & EXITING PLAN

1-G1.1

SHEET 5 OF 33





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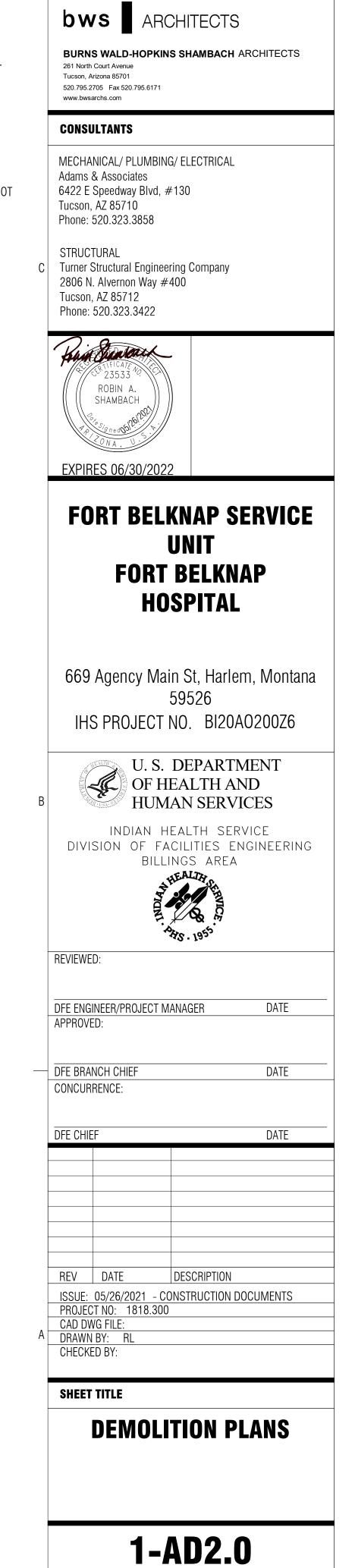
- THE CONTRACTOR IS TO VERIFY CONSTRUCTION ACCESS AND TEMPORARY 1 EXITING PLANS WITH FACILITY MANAGER PRIOR TO BEGINNING CONSTRUCTION MEASURES AS REQUIRED 3
- 2 THE CONTRACTOR IS TO PROVIDE TEMPORARY CONSTRUCTION DUST CONTROL THE CONTRACTOR IS TO COORDINATE ANY DISRUPTION OF UTILITIES WITH THE FACILITY MANAGER PRIOR TO THE BEGINNING OF CONSTRUCTION AND AT LEAST 72 HOURS PRIOR TO THE ACTUAL DISRUPTION OF UTILITIES OR SERVICES THE CONTRACTOR IS REQUIRED TO PROVIDE SHORING AND ANY TEMPORARY OR 4 PERMANENT UTILITY CAPPING OR REROUTING AS NEEDED WHETHER SPECIFIED OR NOT THE CONTRACTOR WILL PROVIDE ANY AND ALL SAFETY TEMPORARY, EQUIPMENT SIGNAGE, BARRIERS OR PROTECTION THROUGHOUT THE CONSTRUCTION

DEMOLITION PLAN GENERAL NOTES

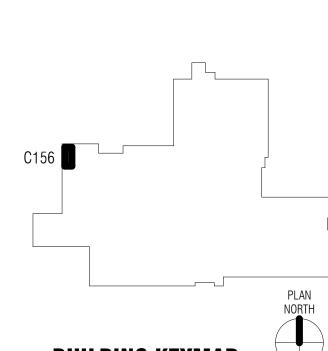
PROCESS SEE HVAC, PLUMBING AND ELECTRICAL DRAWINGS FOR SPECIFIC DEMOLITION REQUIREMENTS OF THESE SYSTEMS

DEMOLITION KEYNOTES

- 120 EXISTING PLUMBING FIXTURE TO REMAIN
- 204 REMOVE EXISTING CEILING AS REQUIRED TO INSTALL NEW REGISTERES



SHEET 6 OF 33



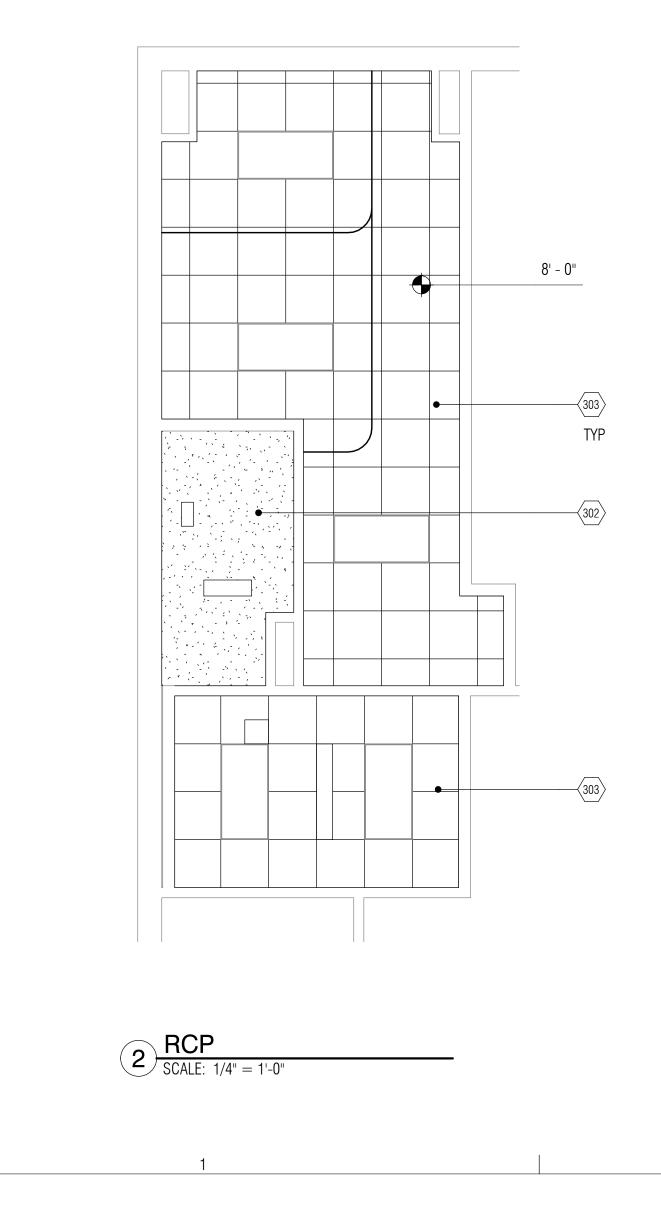
BUILDING KEYMAP

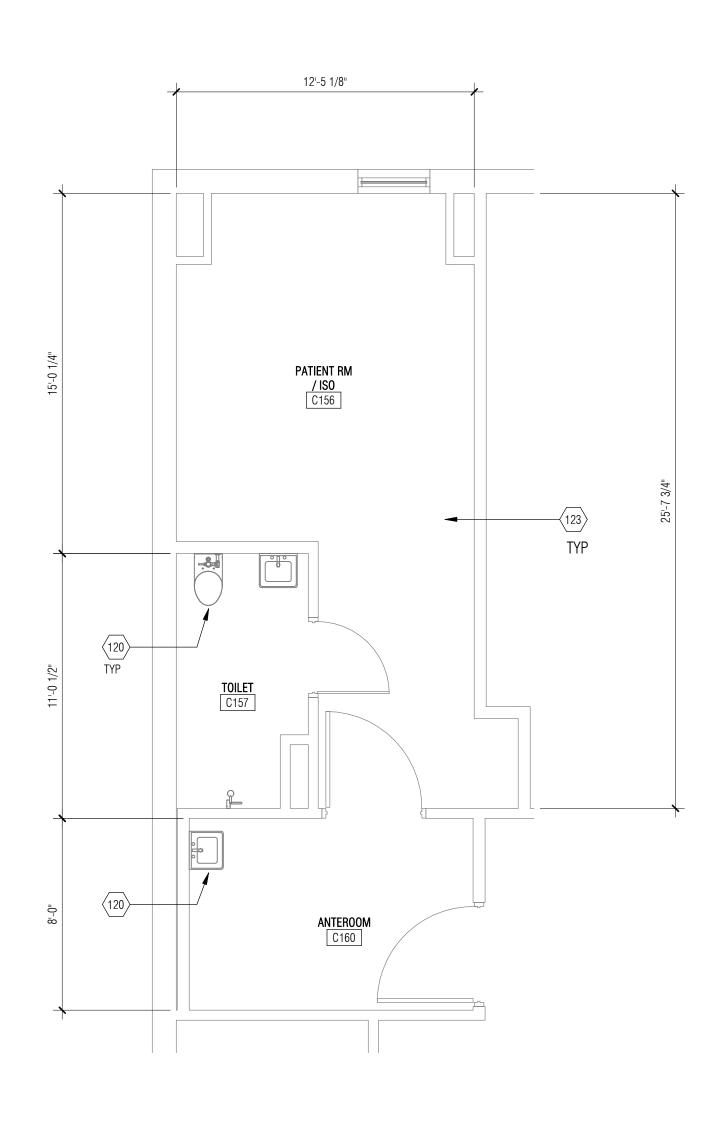
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								DO	DR SCHEDU	LE			1	
ROOMS		DOO	DOOR			FRAME								
OPENING					PANEL SI	ZE							FIRE	
NO.	FROM	TO	TYPE	PR	WIDTH	HEIGHT	MATERIAL	FINISH	GLASS	TYPE	MATERIAL	FINISH	LABEL	REMARKS
1-190AA	C160	C156			4' - 0"	7' - 0"								EXISTING TO REMAIN
1-190BB	C157	C156			3' - 0"	7' - 0"								EXISTING TO REMAIN

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L	J		

								ROOM FI	NISH SCHE	DULE					
	FLOOR WALLS CEILING														
		NORTH EAST SOUTH WEST													
WT	ROOM NAME	FINISH	BASE	SURFACE	FINISH	SURFACE	FINISH	SURFACE	FINISH	SURFACE	FINISH	SURFACE	FINISH		REMARKS
C156	PATIENT RM / ISO	(E)	(E)	(E)	Р	(E)	Р	(E)	Р	(E)	Р	ACT		EXISTING TO REMAIN	
C157	TOILET	(E)	(E)	(E)	Р	(E)	Р	(E)	Р	(E)	Р	BWB	Р	EXISTING TO REMAIN	
C160	ANTEROOM	(E)	(E)	(E)	Р	(E)	Р	(E)	Р	(E)	Р	ACT		EXISTING TO REMAIN	





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

FLOOR PLAN GENERAL NOTES

- 1. THE CONTRACTOR IS TO CONFIRM EXISTING CONDITIONS PRIOR TO
- BEGINNING CONSTRUCTION2. THE CONTRACTOR IS TO PROVIDE NEW FINISHES AS INDICATED ON FINISH
 - SCHEDULE THE CONTRACTOR IS TO PROVIDE NEW DOORS AND HARDWARE AS
 - INDICATED ON DOOR SCHEDULE
- 4. THE CONTRACTOR IS TO PROVIDE SUPPORT BLOCKING AT ALL NEW OR REINSTALLED WALL SUPPORTED EQUIPMENT, PLUMBING FIXTURES, ACCESSORIES AND CABINETS
 - SEE SHEET 0-A1.0 FOR WALL TYPES
 - SEE SHEET 0-A1.1 FOR DOOR AND WINDOW DETAILS
 - SEE SHEET 0-A1.2 FOR STANDARD CEILING AND FRAMING DETAILS ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE SIGNAGE IS TO MATCH THE FACILITY'S EXISTING SIGNAGE. NEW
 - SIGNAGE SHOULD BE HANDLED BY IHS

KEYNOTES

3.

5.

- 120 EXISTING PLUMBING FIXTURE TO REMAIN
- 123 EXISTING FLOORING TO REMAIN
- 302 NEW GYPSUM WALL BOARD CEILING303 NEW ACT SUSPENDED CEILING SYSTEMS AS SHOWN

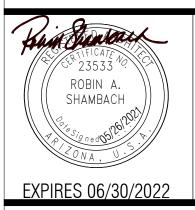
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bws Architects

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HS PROJECT NO.	BI20A0200Z6

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INDIAN HEALTH SERVICE DIVISION OF FACILITIES ENGINEERING BILLINGS AREA



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DFE CHIE	F	DATE
REV	DATE	DESCRIPTION
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	T NO: 1818.300	

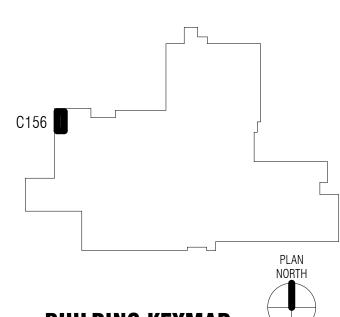
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SHEET TITLE

PLANS, ELEVATIONS, SCHEDULES

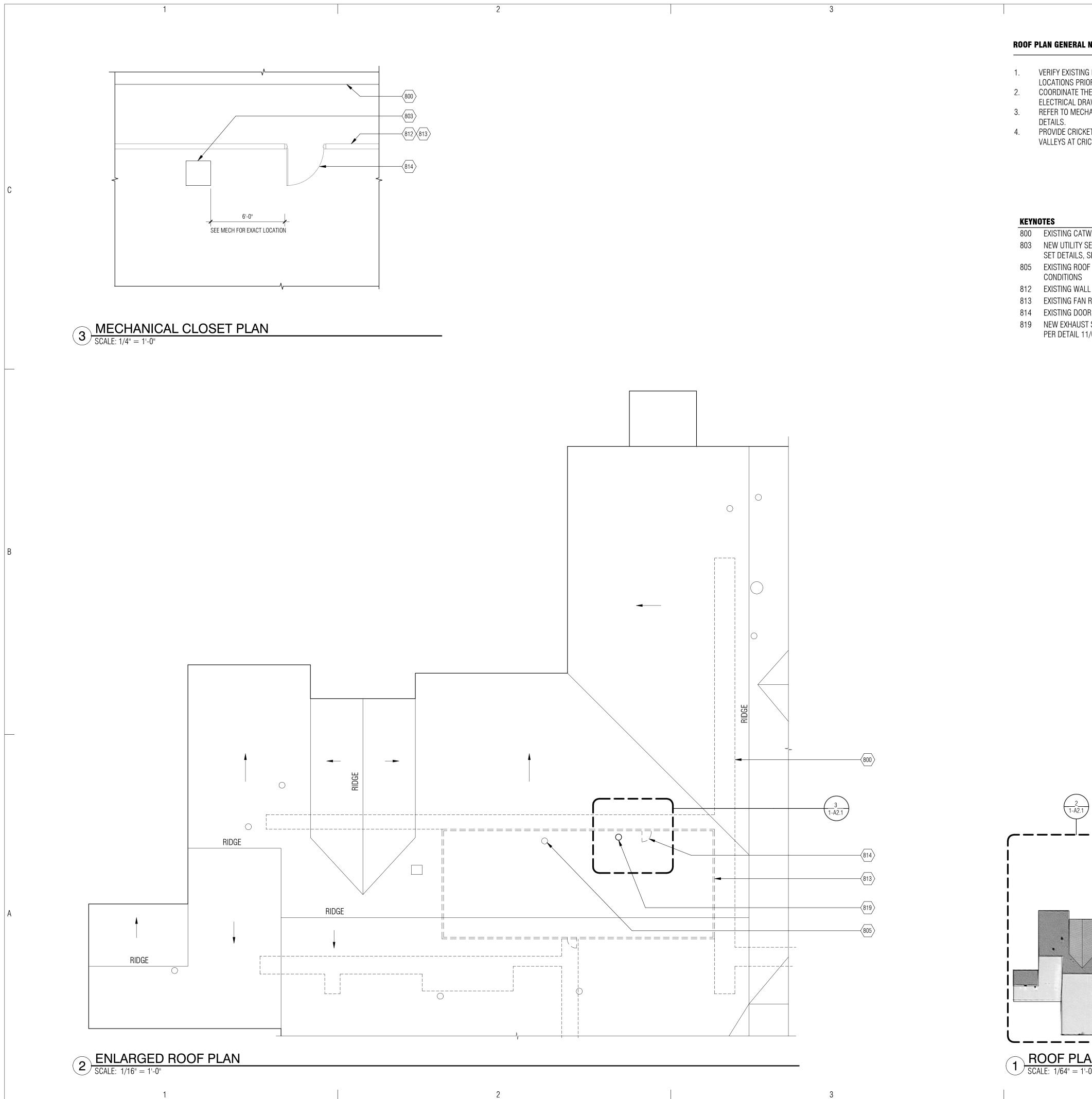


SHEET 7 OF 33



BUILDING KEYMAP

4



ROOF PLAN GENERAL NOTES

- 1. VERIFY EXISTING ROOF CONDITIONS AND EXISTING EQUIPMENT
 - LOCATIONS PRIOR TO STARTING WORK. COORDINATE THE ROOF PLAN WITH PLUMBING, MECHANICAL AND
 - ELECTRICAL DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR VENT STACK PENETRATION DETAILS.
 - PROVIDE CRICKETS AND FLASHINGS AS REQUIRED AT NEW WORK. VALLEYS AT CRICKETS SHALL BE A MINIMUM OF 1/4" PER FOOT.

KEYNOTES

- 800 EXISTING CATWALK IN ATTIC
- 803 NEW UTILITY SET EXHAUST FAN ON ROOF, SEE MECH SHEETS FOR UTILITY SET DETAILS, SEE SHEET 0-S1.1 FOR ROOF PENETRATION SUPPORT DETAILS 805 EXISTING ROOF EQUIPMENT, CONTRACTOR TO CONFIRM EXISTING
 - CONDITIONS
- 813 EXISTING FAN ROOM IN ATTIC
- 814 EXISTING DOOR
- 819 NEW EXHAUST STACK THRU ROOF, REFER TO MECH, BRACE STACK TO ROOF PER DETAIL 11/0-S1.1

2 1-A2.1	
ROOF PLAN SCALE: 1/64" = 1'-0"	

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ARCHITECTS

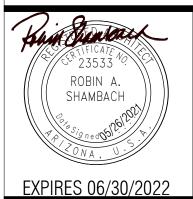
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520.795.2705 Fax 520.795.6171 www.bwsarchs.com

CONSULTANTS

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STRUCTURAL C Turner Structural Engineering Company 2806 N. Alvernon Way #400 Tucson, AZ 85712 Phone: 520.323.3422



FORT BELKNAP SERVICE UNIT FORT BELKNAP HOSPITAL

669 Agency Main St, Harlem, Montana 59526 IHS PROJECT NO. BI20A0200Z6

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

INDIAN HEALTH SERVICE

DIVISION OF FACILITIES ENGINEERING BILLINGS AREA SEALTS

REVIEWED:

DFE ENGINEER/PROJECT MANAGER APPROVED: DATE DFE BRANCH CHIEF DATE

CONCURRENCE:

DFE CHIE	F	DATE
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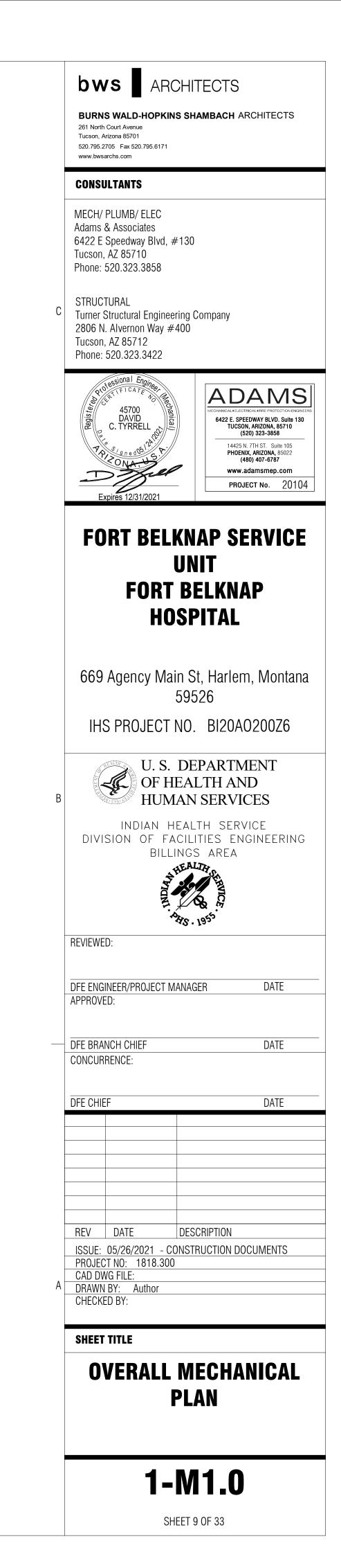
ROOF PLAN

1-A2.1

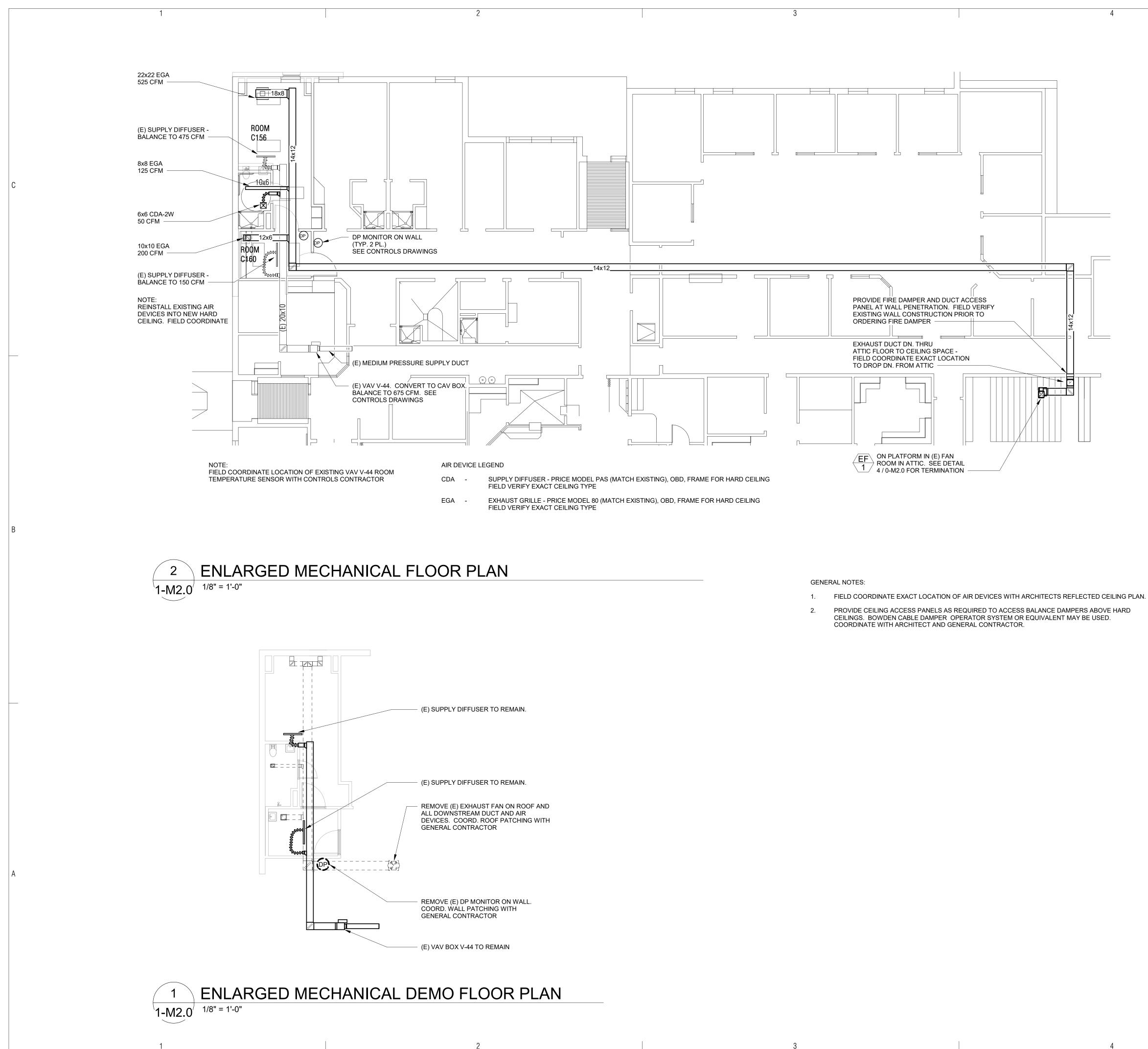
SHEET 8 OF 33



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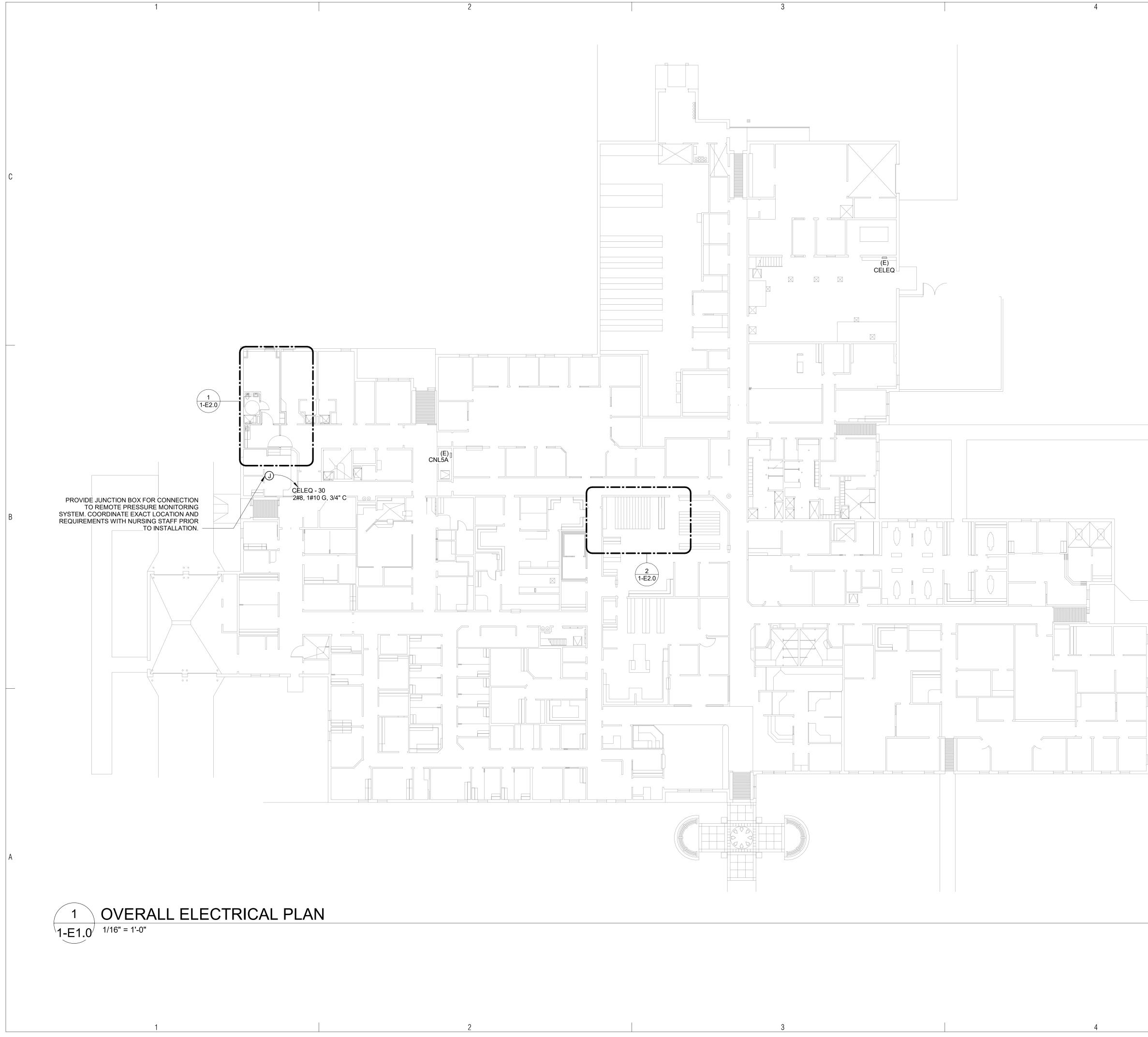
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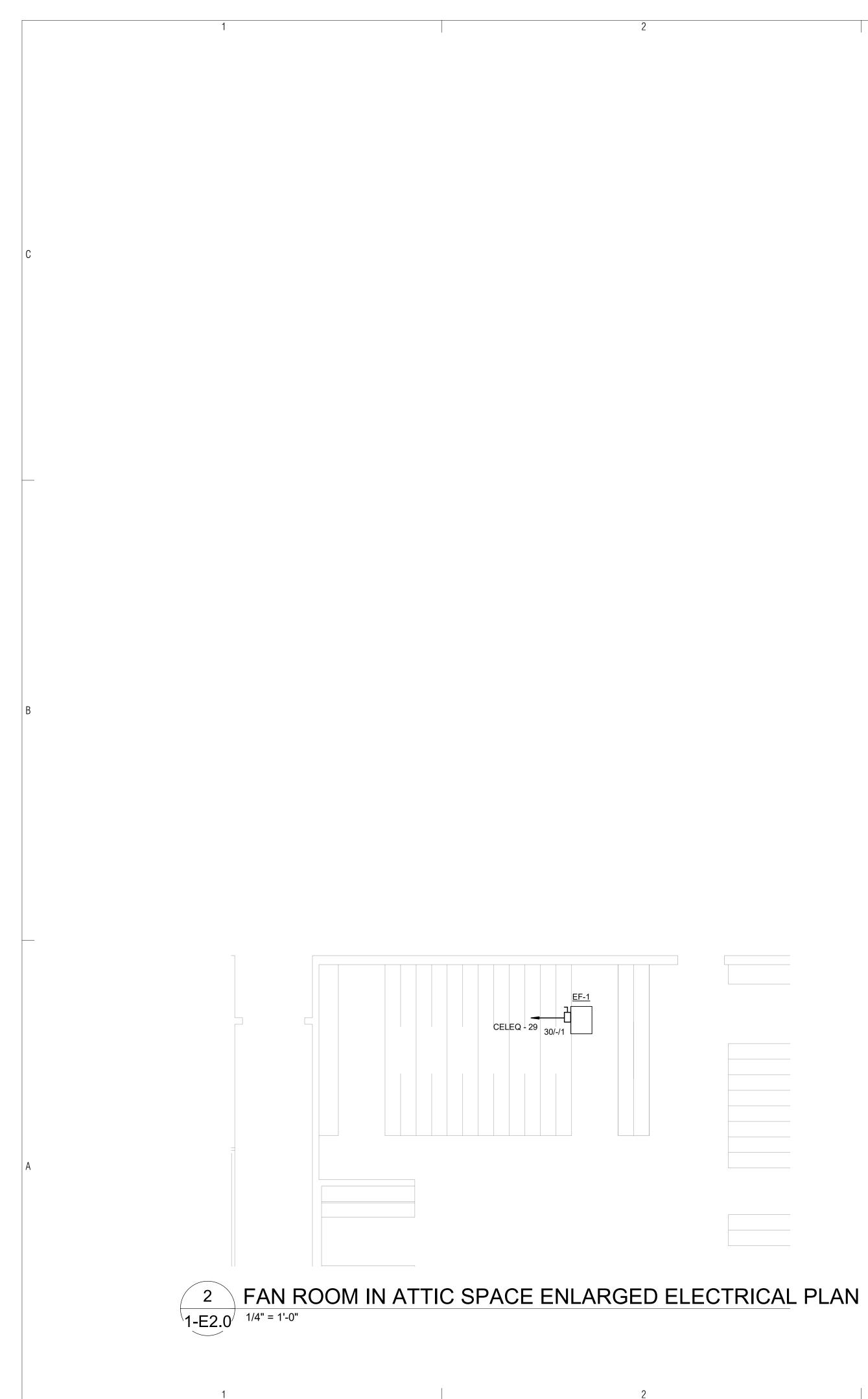
	BURNS WALD-HOPKINS SHAMBACH ARCHITECTS 261 North Court Avenue Tucson, Arizona 85701 520.795.2705 Fax 520.795.6171 www.bwsarchs.com
	CONSULTANTS
	MECH/ PLUMB/ ELEC Adams & Associates 6422 E Speedway Blvd, #130 Tucson, AZ 85710 Phone: 520.323.3858
С	STRUCTURAL Turner Structural Engineering Company 2806 N. Alvernon Way #400 Tucson, AZ 85712 Phone: 520.323.3422
	ASTON BAVID C. TYRRELL DAVID C. TYRRELL
	FORT BELKNAP SERVICE UNIT FORT BELKNAP HOSPITAL
	669 Agency Main St, Harlem, Montana 59526 IHS PROJECT NO. BI20A0200Z6
В	U. S. DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE DIVISION OF FACILITIES ENGINEERING BILLINGS AREA
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	SHEET TITLE
	ENLARGED MECHANCIAL Floor plans
	1-M2.0

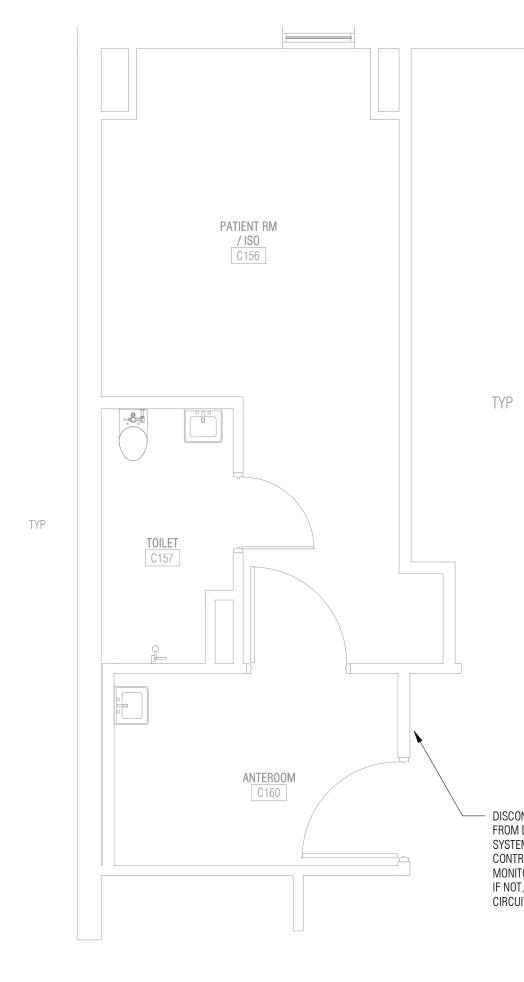
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	FORT BELKNAP SERVICE UNIT FORT BELKNAP HOSPITAL
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В	U. S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
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	DFE CHIEF DATE
	REV DATE DESCRIPTION ISSUE: 05/26/2021 - CONSTRUCTION DOCUMENTS PROJECT NO: 1818.300 CAD DWG FILE:
А	DRAWN BY: AZ CHECKED BY:
	SHEET TITLE OVERALL ELECTRICAL PLAN
	1-E1.0
	SHEET 11 OF 33











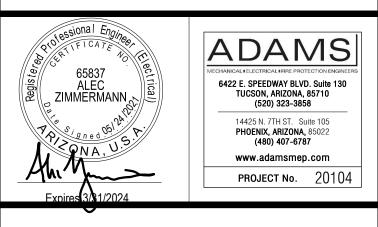
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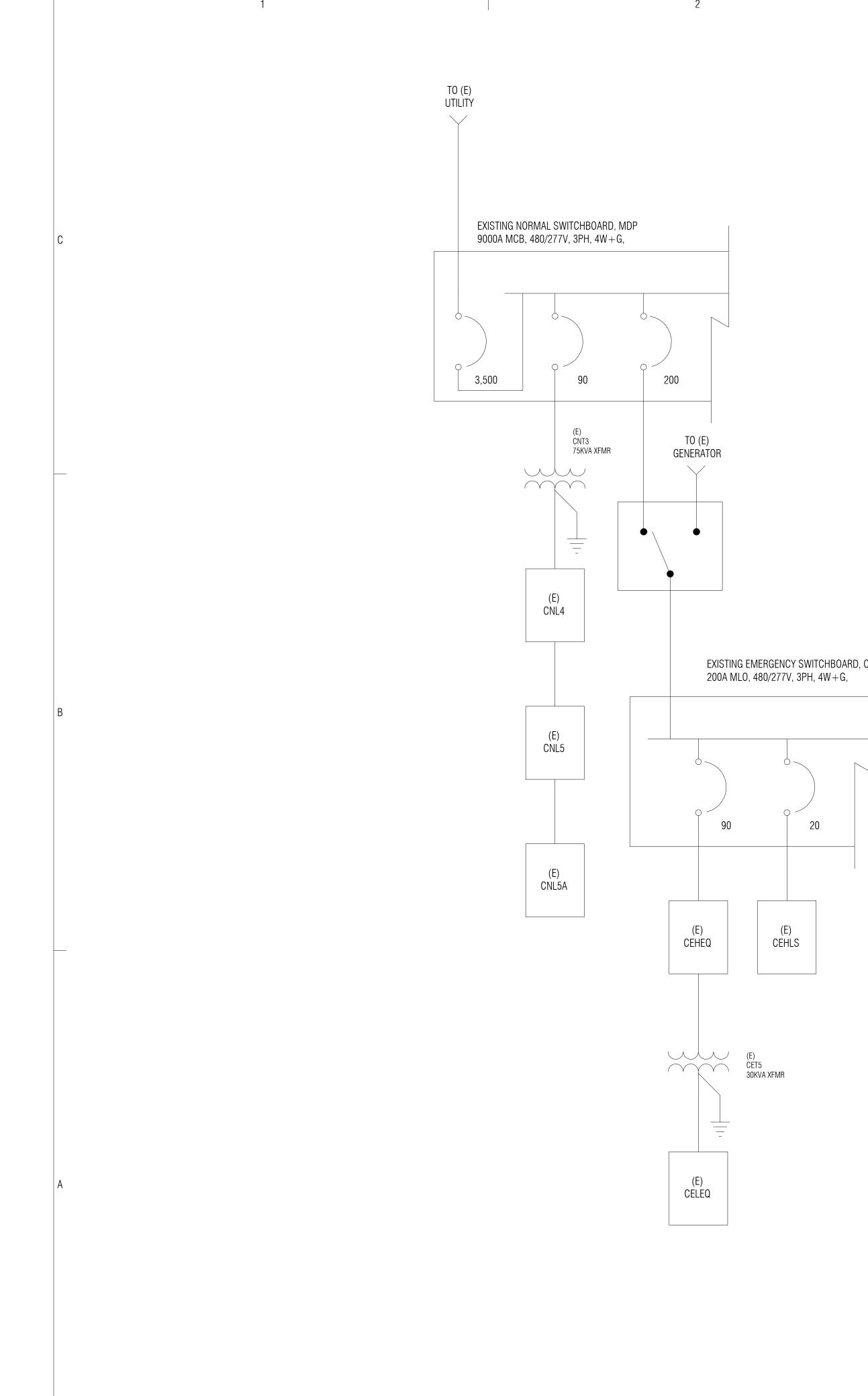
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U. S. DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE DIVISION OF FACILITIES ENGINEERING BILLINGS AREA SEALTH REVIEWED: DFE ENGINEER/PROJECT MANAGER APPROVED: DATE DFE BRANCH CHIEF DATE CONCURRENCE: DFE CHIEF DATE REV DATE DESCRIPTION ISSUE: 05/26/2021 - CONSTRUCTION DOCUMENTS PROJECT NO: 1818.300 CAD DWG FILE: DRAWN BY: AZ CHECKED BY: SHEET TITLE ENLARGED FLOOR PLANS

- ELECTRICAL

1-E2.0 SHEET 12 OF 33

 DISCONNECT EXISTING ELECTRICAL CONNECTION FROM DEMOLISHED PRESSURE MONITORING SYSTEM AND RECONNECT TO NEW SYSTEM AS NEEDED. CONTRACTOR TO VERIFY (E) PRESSURE MONITOR CIRCUIT IS ON EMERGENCY POWER. IF NOT, CONNECT TO NEXT AVAILABLE 20A/1P CIRCUIT IN PANEL CELEQ.



(E) Branch Panel: CELEQ Location: (E) Mech Room Voltage: 1								100/000	14/1/0						
		. ,					Voltage:		vvye				A.I.C. Rating: 10KAIC		
		(E) CEHEQ VIA XF	FMR				Phases:						AFC Value:		
	Mounting:					Neur	Wires:						Main Bus: 100 A		
	Enclosure: Feed Thru Lugs:						ral Bus: nd Bus:						MCB: 90 A		
otes:	reed miru Lugs.	T				Grou	nu bus.	r					Bus Type: Existing		
PROV	IDE NEW CIRCUIT BREAKER IN E	XISTING SPACE.	MATCH	H EXIST	ING TYP	E AND A		NG.							
скт	Circuit Descriptio	n	Trip	Poles		4	E	3	c	:	Poles	Trip	Circuit D	escription	ск
1	Existing Load		20 A	1	852 VA			-			3	40 A	Existing Load		2
3	Existing Load		20 A	1			500 VA	2300							4
5	Existing Load		20 A	1					500 VA	2300					6
7	Existing Load		20 A	1	900 VA	500 VA					1	20 A	Existing Load		8
9	Existing Load		20 A	1			500 VA	500 VA			1	20 A	Existing Load		10
11	Existing Load		20 A	1					400 VA	500 VA	1	20 A	Existing Load		12
13	Existing Load		20 A	1	500 VA	1200					2	20 A	Existing Load		14
15	Existing Load		20 A	1			450 VA	1200							16
17	Existing Load		20 A	1					700 VA	1200	2	20 A	Existing Load		18
19	Existing Load		20 A	1	450 VA	1200									20
21	Existing Load		20 A	1			500 VA	1100			2	20 A	Existing Load		22
23	Existing Load		20 A	1					550 VA	1100					24
25	Existing Load		20 A	1	700 VA	1300					2	20 A	Existing Load		26
27	Existing Load		20 A	1			800 VA	1300							28
29	*EF-1		20 A	1					1127		1	20 A	*REMOTE PRESSURE	MONITORING	30
				al Load:			9150 77		8577 71						
egenc	:		Tota	I Amps:	83			Λ		~					
oad C	lassification		Con	nected	load	Dei	mand Fa	ctor	Fstim	ated De	mand		Panel	Totals	
ITRS			Connected LoadDemand Fa1327 VA121.23%							1609 VA					
				26302 V			100.00%			26302 VA			Total Conn. Load:	27629 VA	
pare	share												Total Est. Demand:		
pare													Total Conn. Current:		
pare												Tot	al Est. Demand Current:		
												100	ai Est. Demanu Current.	77 A	
pare												100	ai Est. Demand Current.	77 A	

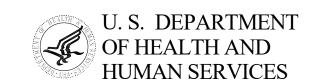
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(E) Branch Panel: CELEQ												Branch: EQUIP	MEN I	
Location: (E) Mech Room				Voltage: 120/208 Wye								A.I.C. Rating: 10KAIC		
		(E) CEHEQ VIA XFMR				Phases:						AFC Value:		
	Mounting:					Wires:						Main Bus: 100 A		
	Enclosure:	•				ral Bus:						MCB: 90 A		
	Feed Thru Lugs:	Υ			Grou	nd Bus:	Y					Bus Type: Existing		
lotes: PROV	IDE NEW CIRCUIT BREAKER IN E	XISTING SPACE. MAT	CH EXIS	TING TYP	'E AND A	AIC RATII	NG.							
СКТ	Circuit Descriptio	n Trip	Poles		A	E	2			Poles	Trip	Circuit D	escription	ск
1	Existing Load	20 A	1	852 VA		•				3	40 A	Existing Load	escription	2
3	Existing Load	20 A	1			500 VA	2300							4
5	Existing Load	20 A	1					500 VA	2300					6
7	Existing Load	20 A	1	900 VA	500 VA					1	20 A	Existing Load		8
9	Existing Load	20 A	1			500 VA	500 VA			1	20 A	Existing Load		10
11	Existing Load	20 A	1					400 VA	500 VA	1	20 A	Existing Load		12
13	Existing Load	20 A	1	500 VA	1200					2	20 A	Existing Load		14
15	Existing Load	20 A	1			450 VA	1200							16
17	Existing Load	20 A	1					700 VA	1200	2	20 A	Existing Load		18
19	Existing Load	20 A	1	450 VA	1200									20
21	Existing Load	20 A	1			500 VA	1100			2	20 A	Existing Load		22
23	Existing Load	20 A	1					550 VA	1100					24
25	Existing Load	20 A	1	700 VA	1300					2	20 A	Existing Load		26
27	Existing Load	20 A	1			800 VA	1300		000 1/1					28
29	*EF-1	20 A	1	000		0450			200 VA	1	20 A	*REMOTE PRESSURE	MONITORING	30
			tal Load al Amps		2 VA 3 A	9150 77		857	A A					
egenc	lassification	Cc	nnected	Load	Der	nand Fa	ctor	Estim	ated De	mand		Panel	Totals	
ITRS			1327 V		121.23%									
Spare		26302				100.00%		-	26302 VA			Total Conn. Load:	27629 VA	
												Total Est. Demand:	27911 VA	
pure												Total Conn. Current:	77 A	
											Tot	al Est. Demand Current:	77 A	

EXISTING EMERGENCY SWITCHBOARD, CEHDP

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BUILDESSIONAL Engines BUILDESSIONAL ENGINES BUILDESSIONAL ELECTRICAL FIRE PROTECTION ENGINEERS ALEC ZIMMERMANN COMMERMANN
FORT BELKNAP SERVICE UNIT FORT BELKNAP HOSPITAL
669 Agency Main St, Harlem, Montana 59526
IHS PROJECT NO. BI20A0200Z6
U. S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
INDIAN HEALTH SERVICE DIVISION OF FACILITIES ENGINEERING BILLINGS AREA
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DFE CHIEF DATE
REVDATEDESCRIPTIONISSUE:05/26/2021 - CONSTRUCTION DOCUMENTSPROJECT NO:1818.300CAD DWG FILE:DRAWN BY:AZCHECKED BY:
SHEET TITLE
ELECTRICAL ONE-LINE AND SCHEDULES
1-E3.0
SHEET 13 OF 33

OWNER



INDIAN HEALTH SERVICE DIVISION OF FACILITIES ENGINEERING BILLINGS AREA



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EAGLE CHILD HEALTH STATION 453 Pine Grove Rd, Hays, Montana 59527 IHS Project No.:BI20A0200Z6 🛓

PROJECT HAYS SCHOOL RD

VICINITY MAP

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CONSTRUCTION DOCUMENTS 05/26/2021

2-EAGLE CHILD DRAWINGS INDEX

SHEET #	SHEET TITLE
2-CVR	COVER
2-G1.0	INFORMATION & OVERALL PLAN
2-G1.1	CONSTRUCTION PHASING & EXITING PLAN
2-AD2.0	DEMOLITION PLANS
2-A2.0	PLANS, ELEVATIONS, SCHEDULES
2-A2.1	ROOF PLAN
2-M1.0	OVERALL MECHANICAL PLAN
2-M2.0	ENLARGED MECHANICAL FLOOR PLANS
2-E1.0	OVERALL ELECTRICAL PLAN
2-E2.0	ENLARGED FLOOR PLANS - ELECTRICAL
2-E3.0	ELECTRICAL ONE-LINE AND SCHEDULES
FOTAL: 11	

DATE ISSUED GENERAL GENERAL GENERAL ARCHITECTURA ARCHITECTURA ARCHITECTURAL

MECHANICAL MECHANICAL ELECTRICAL ELECTRICAL ELECTRICAL

> **CONSTRUCTION DOCUMENTS** 2021

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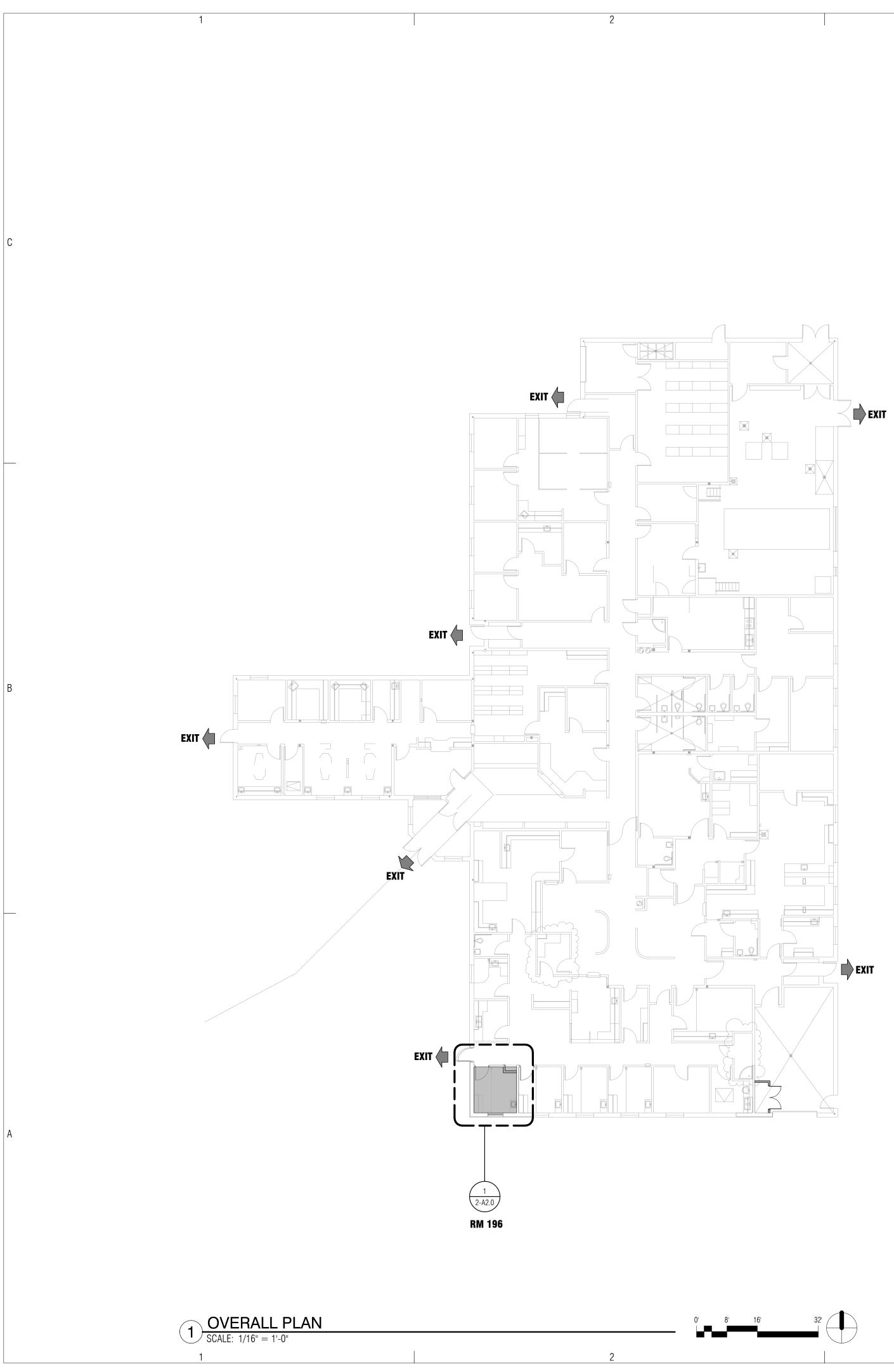
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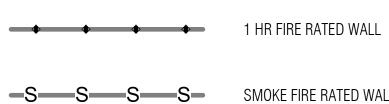
Coore of works	Annexin
Scope of work:	Approxir
Applicable Codes:	2018 Int
Existing Building Description	
Number of Stories: Year Constructed: Construction Type: Fire Protection System: Occupancy Type: Use:	(Unchanged) 1998 Type: II-B Fully Sprinklered (Unchanged Business & Healthcare(Uncha Unchanged
Building Area:	
Level 1:	Unchanged
Corridors:	
Exit Corridors : Walls and Doors:	Unchanged
Roof:	Existing unchanged
Occupancy Separation Walls:	Existing to remain unchanged
Smoke Compartments:	Unchanged

kimately 300	0 sf of renovation to Eagle Child Health S	tation in Hays, Montana.
nternational	Building Code (IBC) and 2012 NFPA	
	2018 IBC	2018 NFPA
ed) hanged)	Table 601 Section 304 & 308.	NFPA 220: Type II(000) NFPA 101-Ch: 6.1.5, 6.1.6 & 6.1.11 AMBULATORY CARE: Ch 21.
	Table 503	
	407.2, 407.3, and 407.5	19.3.6.2, & 38.3.6

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nged

FIRE RATED WALL TYPES



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SMOKE FIRE RATED WALL

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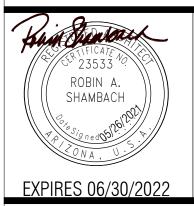
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FORT BELKNAP SERVICE UNIT EAGLE CHILD HEALTH **STATION**

453 Pine Grove Rd, Hays, Montana 59527

IHS PROJECT NO. BI20A0200Z6

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

INDIAN HEALTH SERVICE DIVISION OF FACILITIES ENGINEERING BILLINGS AREA

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PROJECT NO: 1818.300							
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SHEET TITLE

INFORMATION & OVERALL PLAN

2-G1.0

SHEET 15 OF 33



CONSTRUCTION PHASING GENERAL NOTES

1. G.C. TO CONFIRM SITE ACCESS PRIOR TO START OF CONSTRUCTION 2. G.C. TO CONFIRM ONSITE STORAGE PRIOR TO START OF CONSTRUCTION

b	ws	
V		

ARCHITECTS

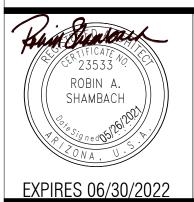
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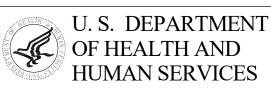
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453 Pine Grove Rd, Hays, Montana 59527

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INDIAN HEALTH SERVICE DIVISION OF FACILITIES ENGINEERING BILLINGS AREA



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PROJECT NO: 1818.300							
CAD	DV	VG FILE:					

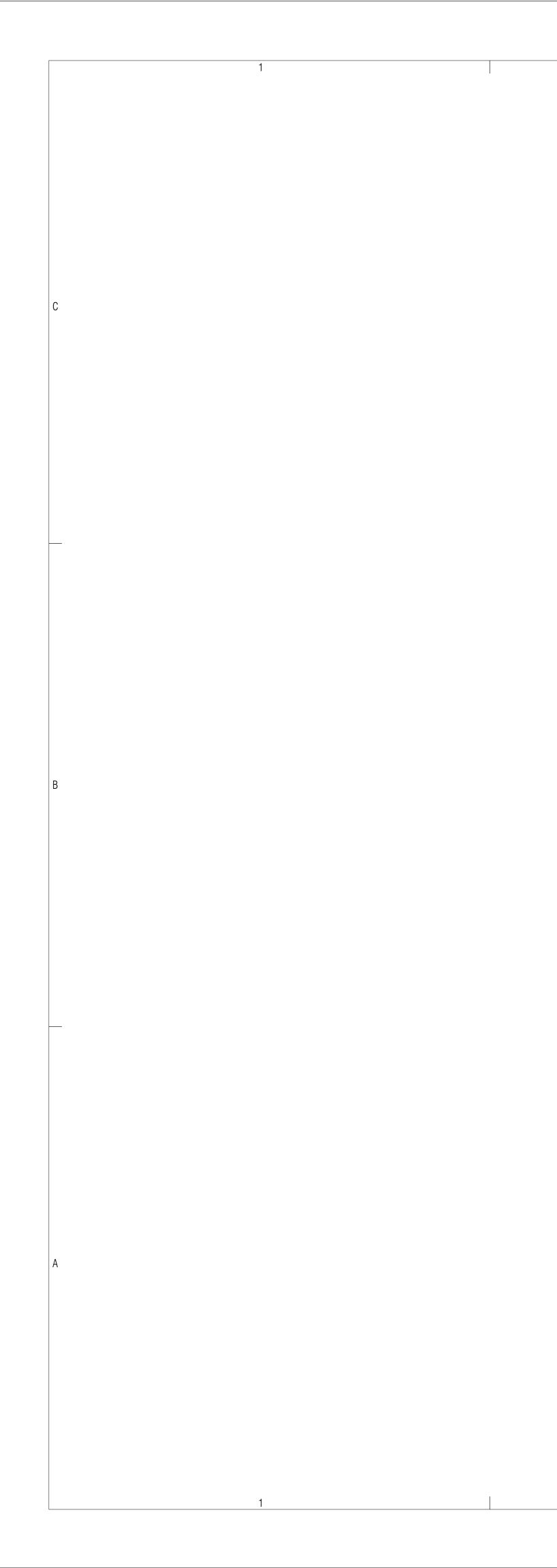
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SHEET TITLE

CONSTRUCTION PHASING & EXITING PLAN



SHEET 16 OF 33



DEN 1

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5

6

- DEMOLITION PLAN
 0'
 2'
 4'
 8'

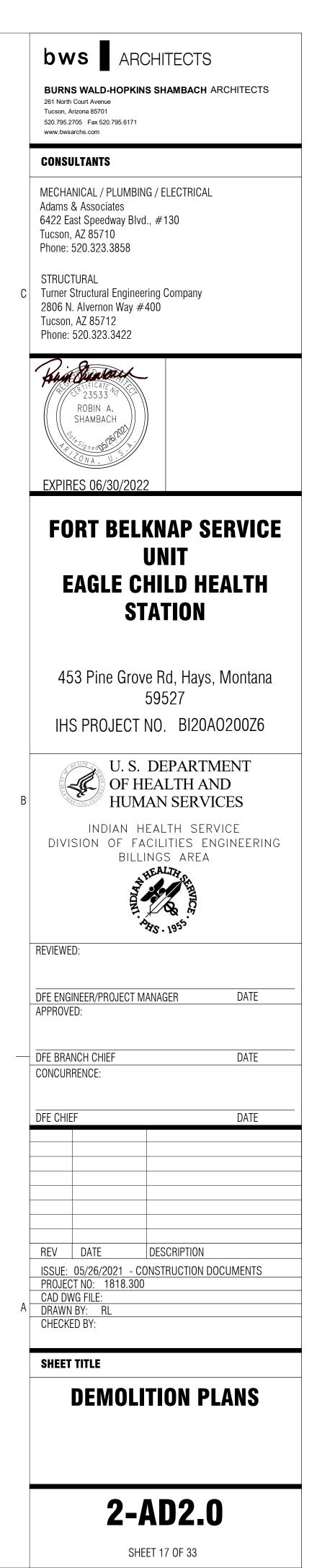
 SCALE: 1/4" = 1'-0"
 0'
 2'
 4'
 8'

DEMOLITION PLAN GENERAL NOTES

- THE CONTRACTOR IS TO VERIFY CONSTRUCTION ACCESS AND TEMPORARY EXITING PLANS WITH FACILITY MANAGER PRIOR TO BEGINNING CONSTRUCTION
 THE CONTRACTOR IS TO PROVIDE TEMPORARY CONSTRUCTION DUST CONTROL MEASURES AS REQUIRED
 - THE CONTRACTOR IS TO COORDINATE ANY DISRUPTION OF UTILITIES WITH THE FACILITY MANAGER PRIOR TO THE BEGINNING OF CONSTRUCTION AND AT LEAST 72 HOURS PRIOR TO THE ACTUAL DISRUPTION OF UTILITIES OR SERVICES THE CONTRACTOR IS REQUIRED TO PROVIDE SHORING AND ANY TEMPORARY OR PERMANENT UTILITY CAPPING OR REROUTING AS NEEDED WHETHER SPECIFIED
 - OR NOT THE CONTRACTOR WILL PROVIDE ANY AND ALL SAFETY TEMPORARY, EQUIPMENT SIGNAGE, BARRIERS OR PROTECTION THROUGHOUT THE CONSTRUCTION PROCESS
 - SEE HVAC, PLUMBING AND ELECTRICAL DRAWINGS FOR SPECIFIC DEMOLITION REQUIREMENTS OF THESE SYSTEMS

DEMOLITION KEYNOTES

- 201 REMOVE PORTION OF EXISTING WALL
- 213 EXISTING TO REMAIN, TYPICAL





PLAN NORTH

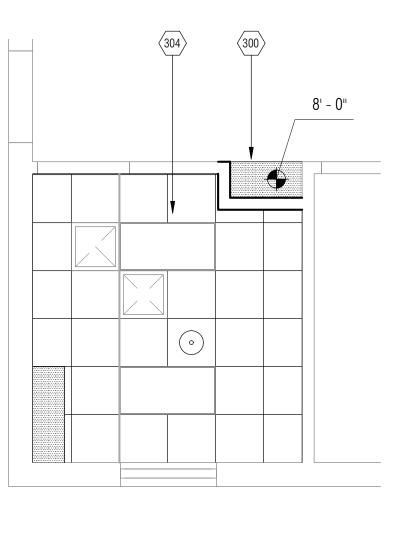
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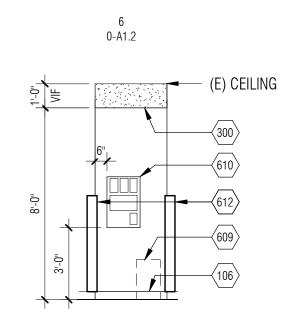
	DOOR SCHEDULE													
ROOMS DOOR F						FRAME								
OPENING PANEL SIZE			FIRE											
NO.	FROM	TO	TYPE	PR	WIDTH	HEIGHT	MATERIAL	FINISH	GLASS	ТҮРЕ	MATERIAL	FINISH	LABEL	REMARKS
196		196			3' - 6"	7' - 0"	(E)			(E)				EXISTING TO REMAIN

	FINISH ROOM SCHEDULE													
		FLOOR			WALLS						CEIL	ING		
		NORTH EAST SOUTI		UTH	WEST									
WT	ROOM NAME	FINISH	BASE	SURFACE	FINISH	REMARKS								
000	PPE ALCOVE	SF	RB			GWB	Р	GWB	Р	GWB	Р	GWB	Р	
196	EXAM 4	(E)	(E)	(E)	Р									

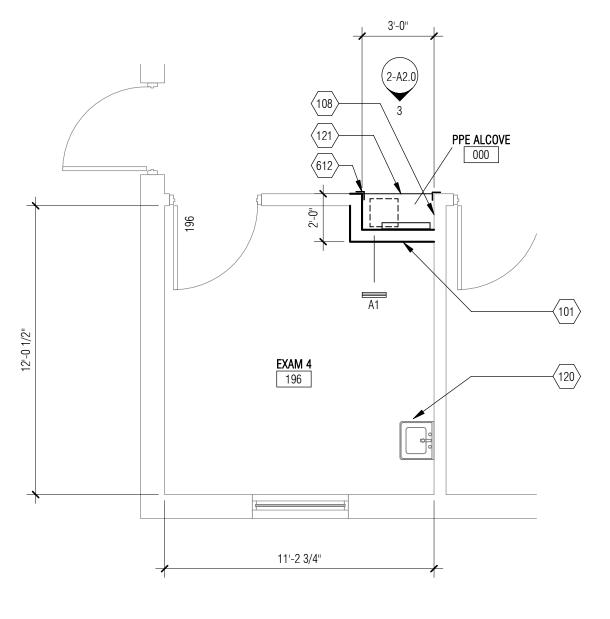








3 ELEVATION - PPE ALCOVE SCALE: 1/4" = 1'-0"



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

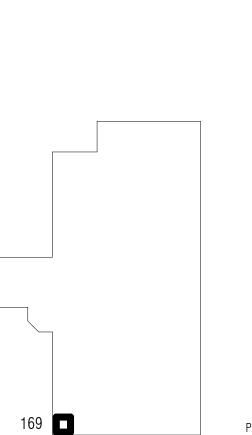
3.

KEYNOTES

FLOOR PLAN GENERAL NOTES

- 1. THE CONTRACTOR IS TO CONFIRM EXISTING CONDITIONS PRIOR TO
- BEGINNING CONSTRUCTION 2. THE CONTRACTOR IS TO PROVIDE NEW FINISHES AS INDICATED ON FINISH
 - SCHEDULE THE CONTRACTOR IS TO PROVIDE NEW DOORS AND HARDWARE AS
 - INDICATED ON DOOR SCHEDULE
- 4. THE CONTRACTOR IS TO PROVIDE SUPPORT BLOCKING AT ALL NEW OR REINSTALLED WALL SUPPORTED EQUIPMENT, PLUMBING FIXTURES, ACCESSORIES AND CABINETS
 - SEE SHEET 0-A1.0 FOR WALL TYPES
 - SEE SHEET 0-A1.1 FOR DOOR AND WINDOW DETAILS
 - SEE SHEET 0-A1.2 FOR STANDARD CEILING AND FRAMING DETAILS ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE SIGNAGE IS TO MATCH THE FACILITY'S EXISTING SIGNAGE. NEW
 - SIGNAGE SHOULD BE HANDLED BY IHS

- 101 NEW WALL PER NOTED WALL TYPE
- 106 4" RUBBER BASE 108 NEW WALL FINISH PER SCHEDULE
- 120 EXISTING PLUMBING FIXTURE TO REMAIN
- 121 NEW FLOORING
- 300 GYPSUM WALL BOARD BULKHEAD
- 304 REPLACE DAMAGED CEILING GRID AND TILES IMPACTED BY MECHANICAL DEMOLITION AND NEW CONSTRUCTION
- 609 BIOWASTE BIN, OWNER PROVIDED
- 610 PPE STORAGE
- 612 WALL CORNER GUARD



BUILDING KEYMAP

4



bws

ARCHITECTS

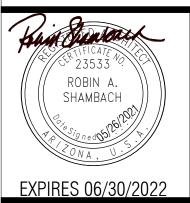
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CONSULTANTS

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STRUCTURAL C Turner Structural Engineering Company 2806 N. Alvernon Way #400 Tucson, AZ 85712 Phone: 520.323.3422



FORT BELKNAP SERVICE UNIT EAGLE CHILD HEALTH STATION

453 Pine Grove Rd, Hays, Montana 59527

IHS PROJECT NO. BI20A0200Z6

U.S. DEPARTMENT OF HEALTH AND

HUMAN SERVICES INDIAN HEALTH SERVICE

DIVISION OF FACILITIES ENGINEERING BILLINGS AREA



REVIEWED:

DFE ENGINEER/PROJECT MANAGER APPROVED: DATE

DATE

DFE BRANCH CHIEF CONCURRENCE:

DFE CH	HEF	DATE						
REV	DATE	DESCRIPTION						
	ISSUE: 05/26/2021 - CONSTRUCTION DOCUMENTS							
PROJ	ECT NO: 1818.	300						

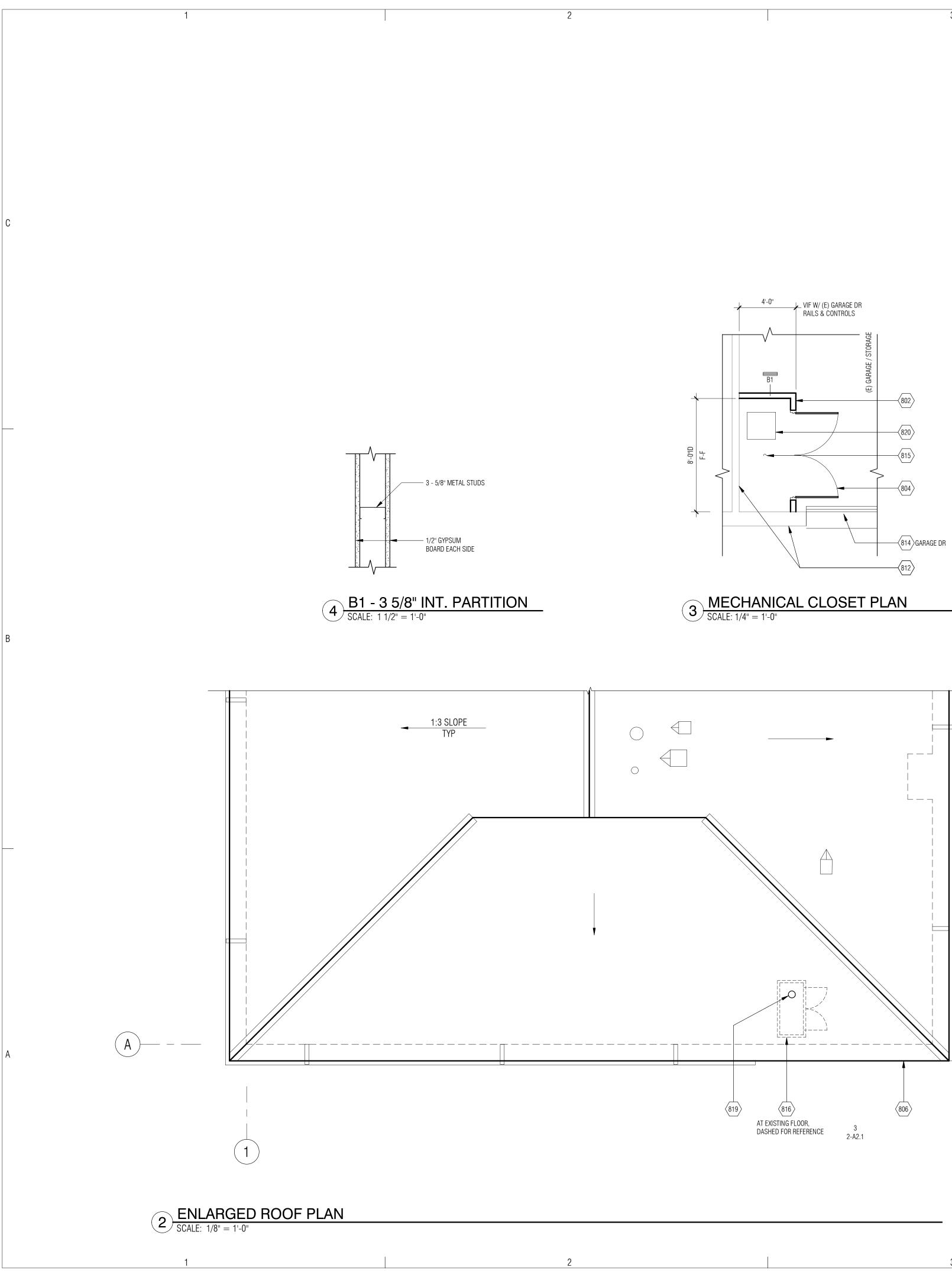
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SHEET TITLE

PLANS, ELEVATIONS, **SCHEDULES**



SHEET 18 OF 33





- 1
- 2.
- ELECTRICAL DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR VENT STACK PENETRATION 3. DETAILS.
- 4.

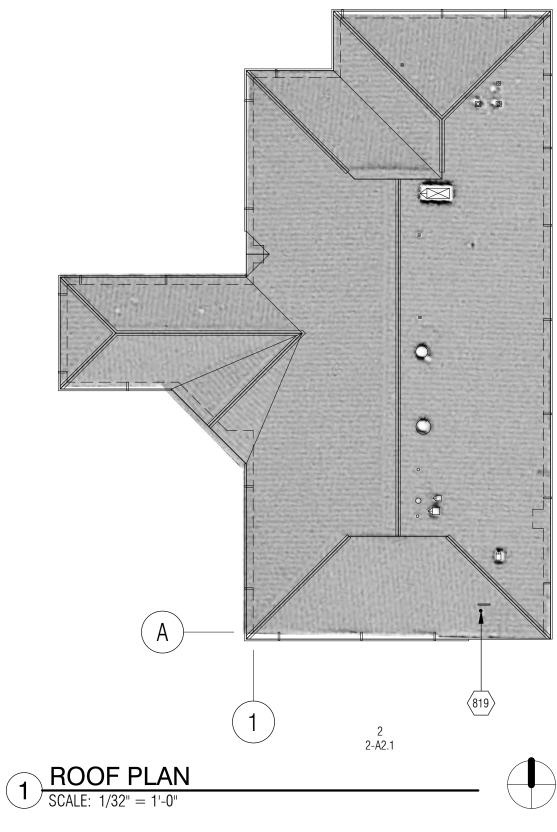
 - 814 816
 - 819
 - 820

ROOF PLAN GENERAL NOTES

- VERIFY EXISTING ROOF CONDITIONS AND EXISTING EQUIPMENT
- LOCATIONS PRIOR TO STARTING WORK. COORDINATE THE ROOF PLAN WITH PLUMBING, MECHANICAL AND
- PROVIDE CRICKETS AND FLASHINGS AS REQUIRED AT NEW WORK. VALLEYS AT CRICKETS SHALL BE A MINIMUM OF 1/4" PER FOOT.

KEYNOTES

- 802 NEW WALL, FROM MECHANICAL CLOSET FLOOR TO BOTTOM OF STRUCTURE ABOVE, CAP W/ 1/2" PLYWOOD AS REQUIRED 804 NEW HM DOOR AND HM FRAME, 3'-0" WIDE, HEIGHT TO BE CONFIRMED IN
 - FIELD -HARDWARE: TWO HINGES PER DOOR, FLUSH BOLT, LATCH SET,
 - PERIMETER GASKET SEALS REFER TO SPEC
- 806 EDGE OF EXISTING ROOF
- 812 EXISTING WALL
 - EXISTING DOOR
- 815 NEW FIRE SUPPRESSION SPRINKLER OVERHEAD MECHANICAL ROOM IN STORAGE/GARAGE
 - NEW EXHAUST STACK THRU ROOF, REFER TO MECH, BRACE STACK TO ROOF PER DETAIL 11/0-S1.1
 - NEW UTILITY SET EXHAUST FAN ON EXISTING CONCRETE FLOOR, SEE MECH SHEETS FOR UTILITY SET DETAILS



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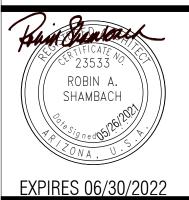
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453 Pine Grove Rd, Hays, Montana 59527

IHS PROJECT NO. BI20A0200Z6



OF HEALTH AND HUMAN SERVICES

INDIAN HEALTH SERVICE DIVISION OF FACILITIES ENGINEERING BILLINGS AREA



REVIEWED:

DFE ENGINEER/PROJECT MANAGER DATE APPROVED: DFE BRANCH CHIEF DATE CONCURRENCE: DATE DFE CHIEF

REV	DATE	DESCRIPTION						
ISSUE:	05/26/2021 - C0	DNSTRUCTION DOCUMENTS						
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ROOF PLAN

2-A2.1

SHEET 19 OF 33



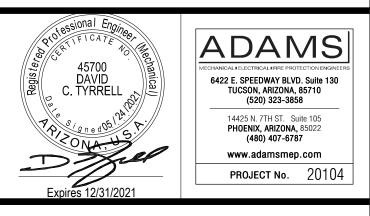
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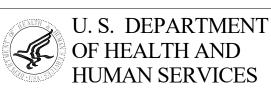
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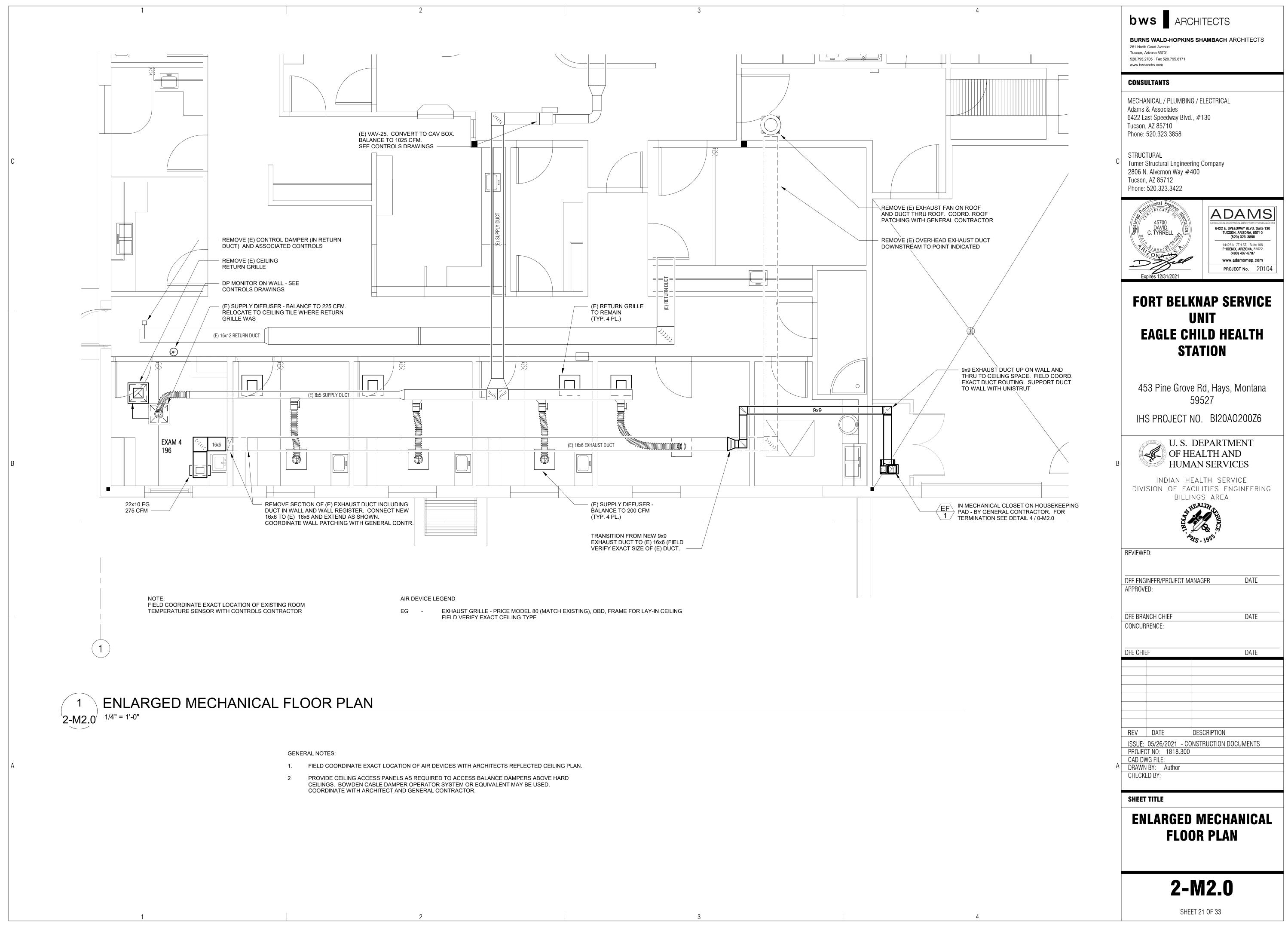
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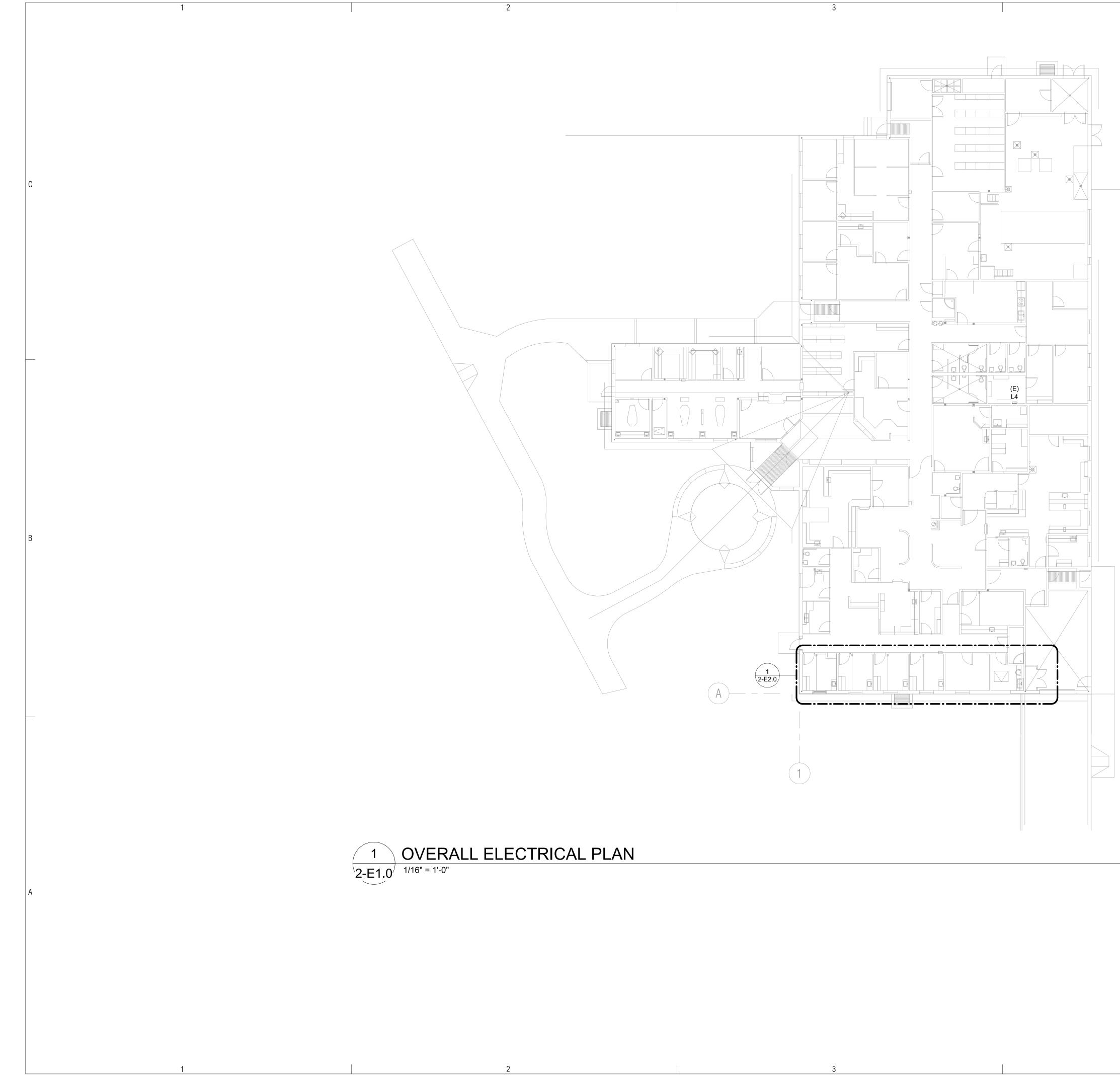
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OVERALL MECHANICAL PLAN



SHEET 20 OF 33





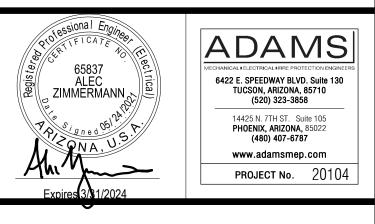
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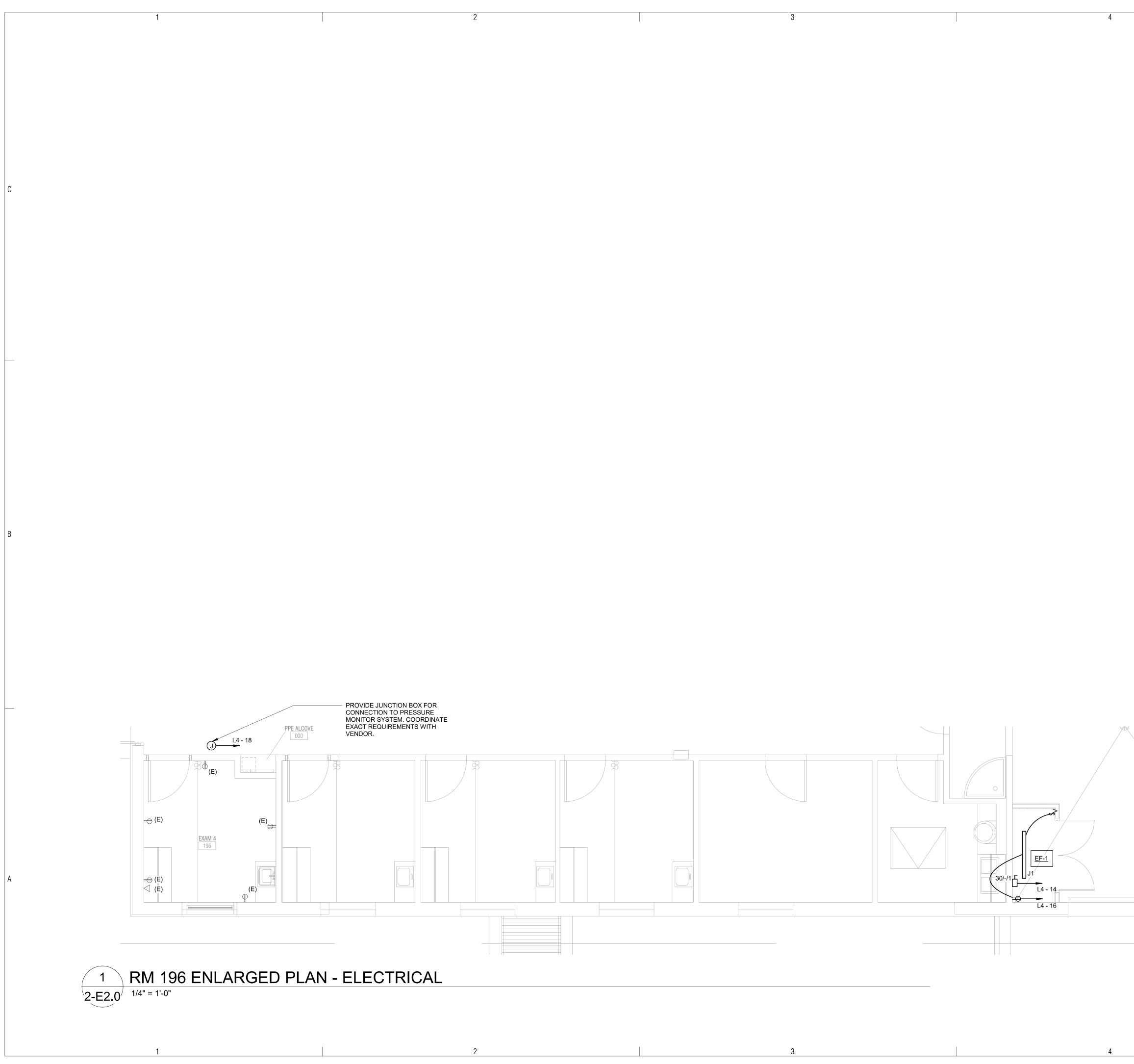
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OVERALL ELECTRICAL PLAN

2-E1.0

SHEET 22 OF 33



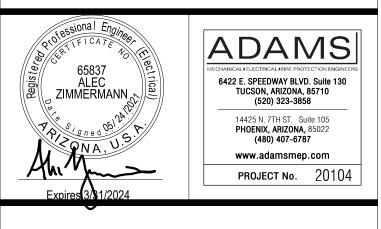
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ENLARGED FLOOR PLANS - ELECTRICAL

2-E2.0 SHEET 23 OF 33

	1	
С		
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В		
A		
/ ·		
	1	

3						
(E) Branch Panel:	L4			Branch:	NORMAL	
Location:	(E) Elec Room	Voltage:	120/208 Wye	A.I.C. Rating:	10KAIC	
Fed From:	(E) SDP	Phases:	3	AFC Value:		
Mounting:	Surface	Wires:	4	Main Bus:	100 A	
Enclosure:	Туре 1	Neutral Bus:	Y	MCB:	N/A	
Feed Thru Lugs:	Y	Ground Bus:	Y	Bus Type:	Existing	
Nataa						

Notes:

СКТ	Circuit Description	Trip	Poles	Д	`	E	3		2	Poles	Trip	Circuit Description	скт
1	Existing Load	20 A	1	720 VA	0 VA					2		Spare	2
3	Existing Load	20 A	1			540 VA	0 VA						4
5	Existing Load	20 A	1					540 VA	720 VA	1	20 A	Existing Load	6
7	Existing Load	20 A	1	540 VA	0 VA					1	20 A	Spare	8
9	Existing Load	20 A	1			900 VA	0 VA			1	20 A	Spare	10
11	Existing Load	20 A	1					900 VA	900 VA	1	20 A	Existing Load	12
13	Existing Load	20 A	1	900 VA	1127					1	20 A	*EF-1	14
15	Existing Load	20 A	1			720 VA	180 VA			1	20 A	*ROOF TOP - RCPT	16
17	Existing Load	20 A	1					720 VA	500 VA	1	20 A	*PRESSURE MON EXAM 4	18
19	Existing Load	20 A	1	720 VA	0 VA					1	20 A	Spare	20
21	Existing Load	20 A	1			720 VA	0 VA			1	20 A	Spare	22
23	Existing Load	20 A	1					1080	540 VA	1	20 A	Existing Load	24
25	Existing Load	20 A	1	540 VA	1500					2	30 A	Existing Load	26
27	Existing Load	20 A	1			540 VA	1500						28
29	Existing Load	20 A	1					900 VA		1		Space	30
31	Existing Load	20 A	1	360 VA						1		Space	32
33	Existing Load	20 A	1			900 VA				1		Space	34
35	Existing Load	20 A	1					540 VA		1		Space	36
37	Space		1							1		Space	38
39	Space		1							1		Space	40
41	Space		1							1		Space	42
		Tota	I Load:	6407	' VA	6000) VA	7340	AV C				

Demand Factor

100.00%

125.00%

100.00%

100.00%

Legend: *REUSE EXISTING SPARE CIRCUIT BREAKER.

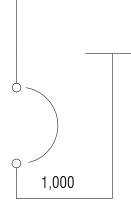
Load Classification Connected Load MISC 500 VA MTRS RCPTS

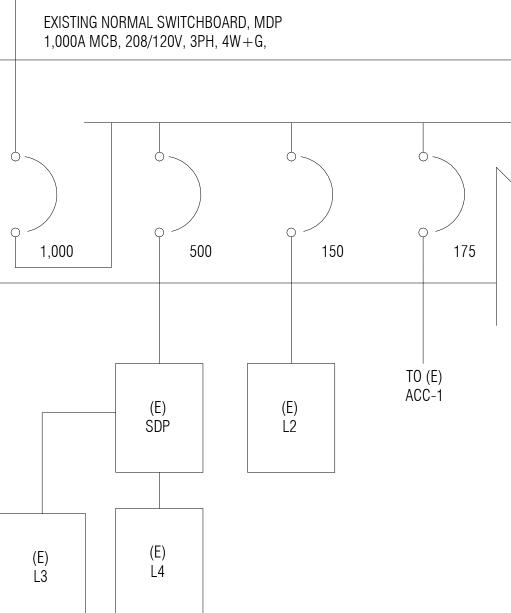
2

500 VA	
1127 VA	
180 VA	
17940 VA	

Spare

to (e) Utility \searrow





4

Estimated Demand 500 VA 1409 VA 180 VA 17940 VA

Panel Totals

Total Conn. Load: 19747 VA Total Est. Demand: 20029 VA Total Conn. Current: 55 A Total Est. Demand Current: 56 A

	ST	ATION
45		e Rd, Hays, Montana 59527
IHS	S PROJECT I	NO. BI20A0200Z6
	J OF HI	DEPARTMENT EALTH AND AN SERVICES
DIVI	SION OF FA	EALTH SERVICE CILITIES ENGINEERING NGS AREA
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DFE BRA CONCUR	NCH CHIEF RENCE:	DATE
DFE CHIE	F	DATE
REV	DATE	DESCRIPTION
PROJEC	T NO: 1818.300	DINSTRUCTION DOCUMENTS
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E	LECTRIC	AL ONE-LINE

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UNIT

EAGLE CHILD HEALTH

ADAMS

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14425 N. 7TH ST. Suite 105 PHOENIX, ARIZONA, 85022 (480) 407-6787 www.adamsmep.com project №. 20104

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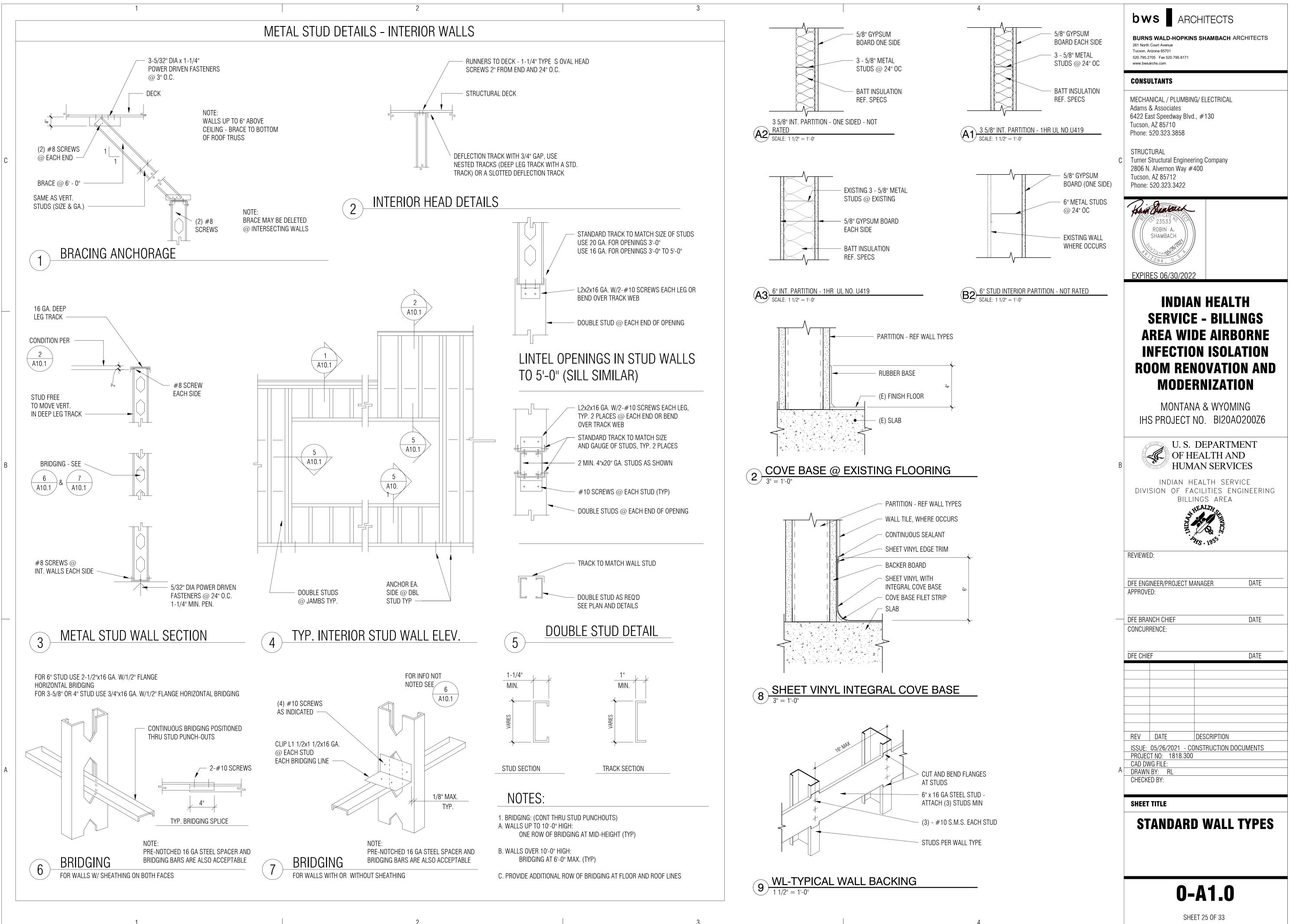
65837 ALEC ZIMMERMANN

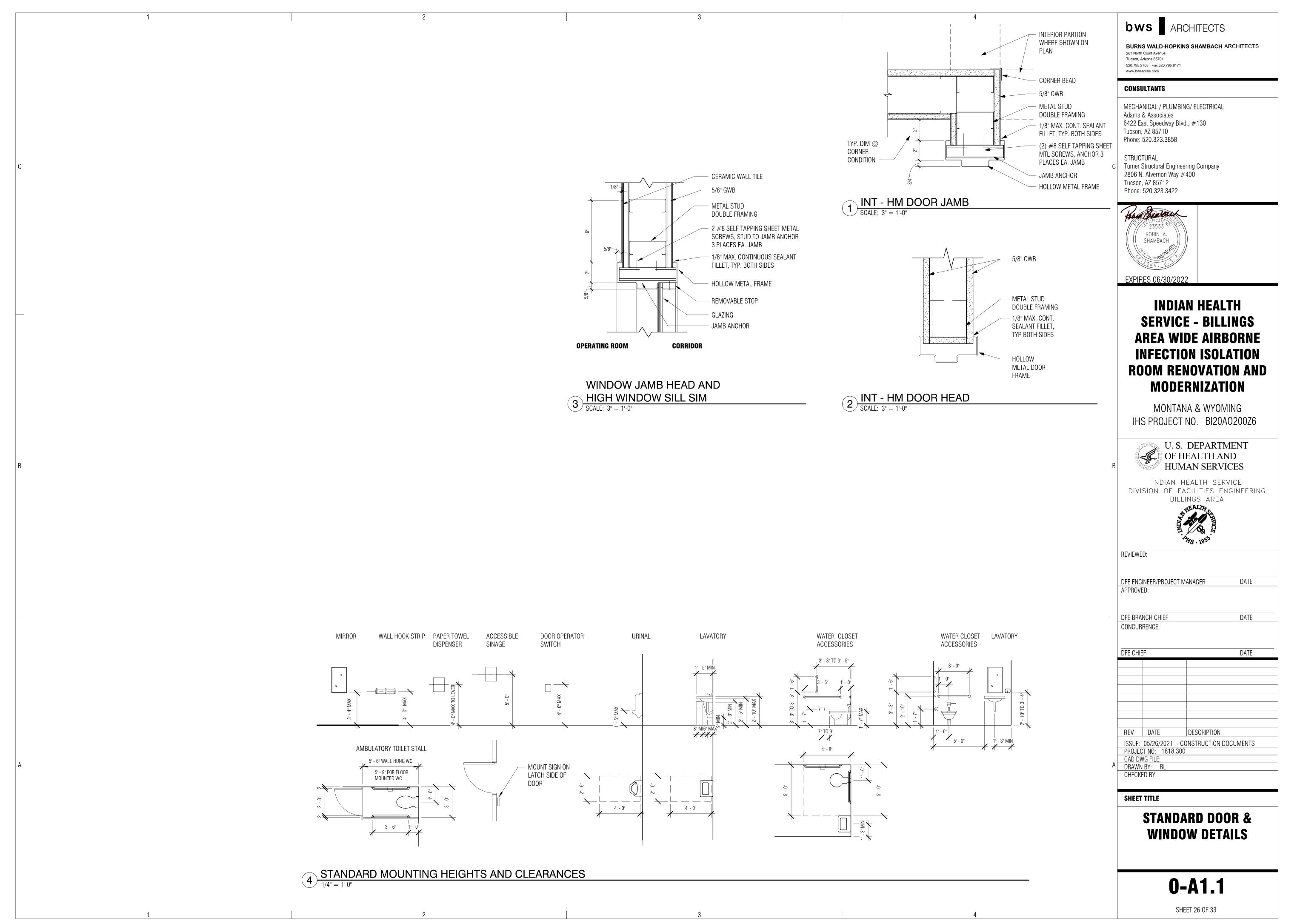
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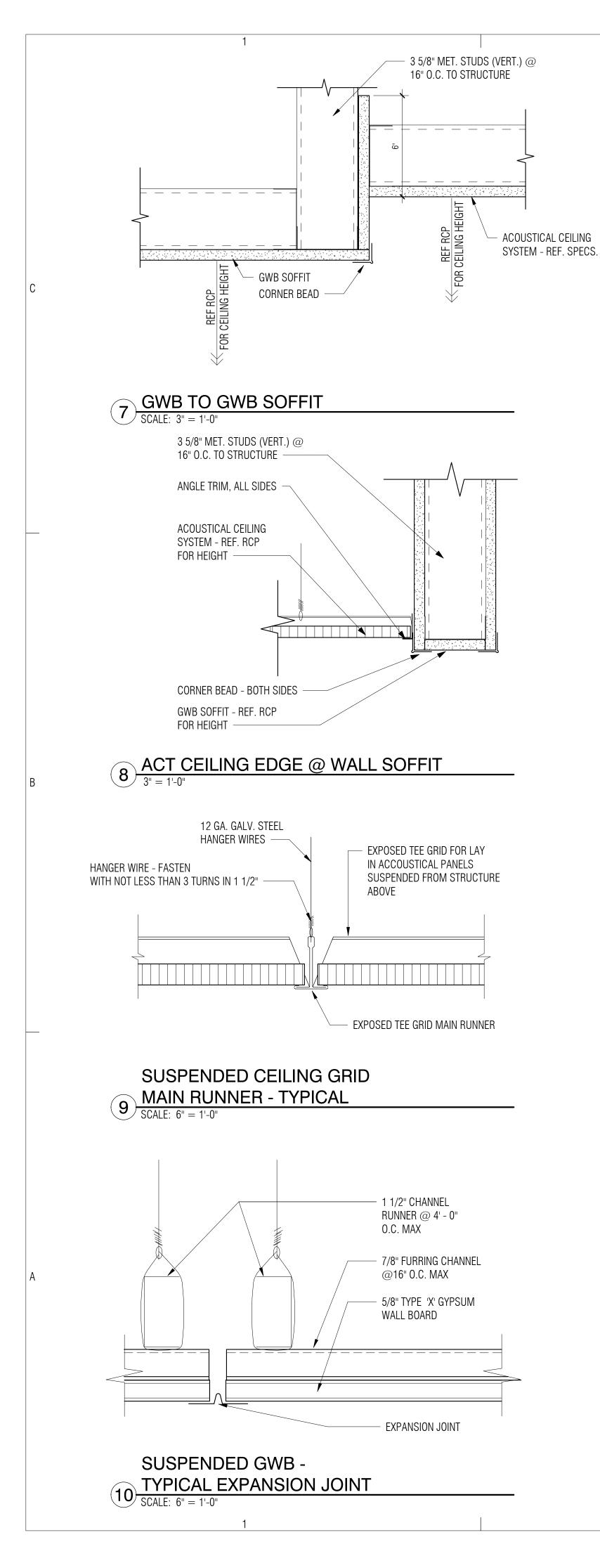
ELECTRICAL UNE-LINE AND SCHEDULES

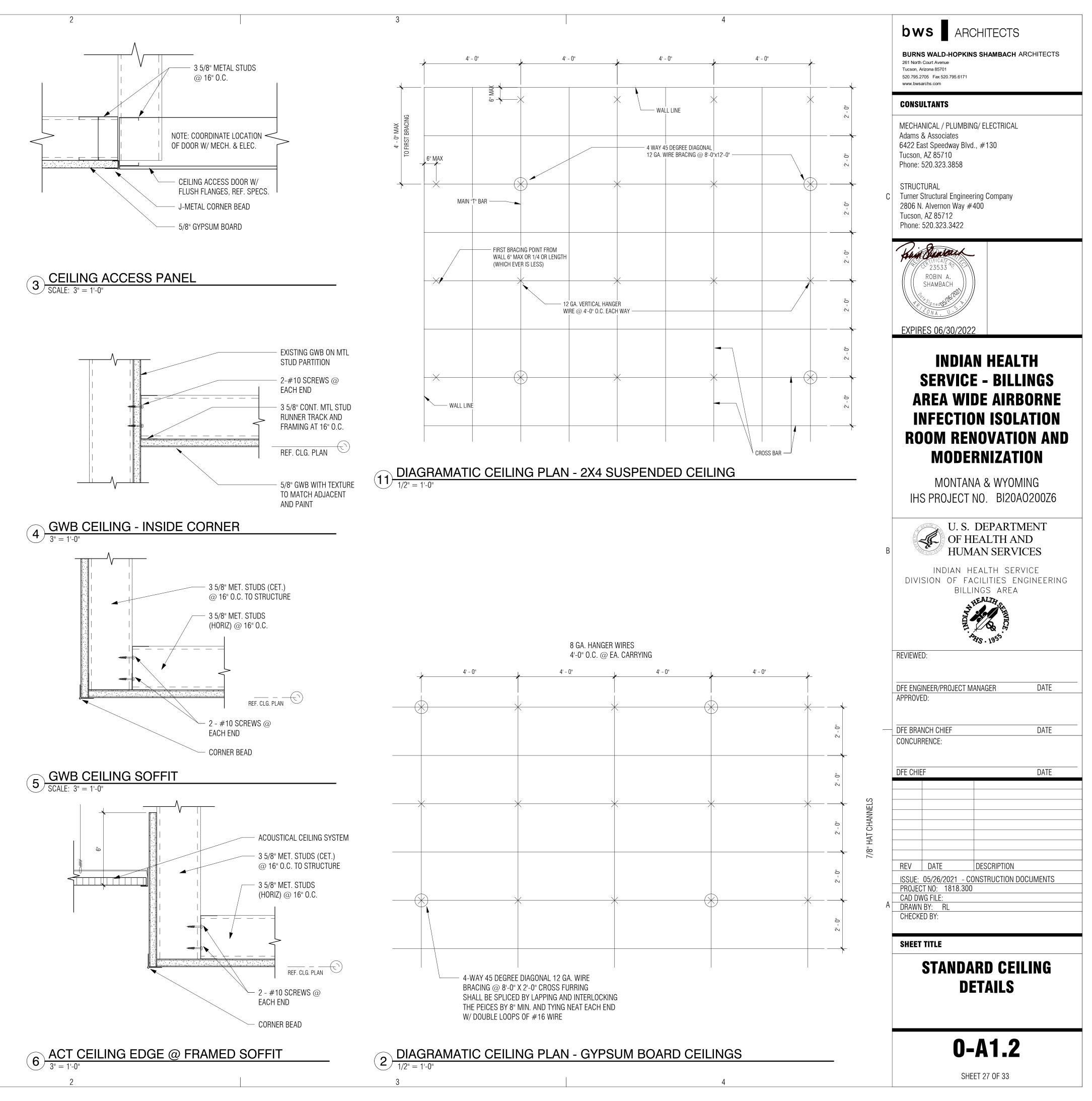


SHEET 24 OF 33









	Α	BBREVIATIONS	SYMBOLS and I	LEGENDS	STANDARD STRU	JĊTURA
	A.B. A.C.I.	ANCHOR BOLT AMERICAN CONCRETE INSTITUTE	******	C.M.U.	I. GENERAL: 1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL	V. META
	A.E. A.I.A.	ARCHITECT ENGINEER AMERICAN INSTITUTE OF ARCHITECTS			BUILDING CODE, 2018 EDITION WITH LOCAL MODIFICATIONS.	1. J
	ALT.	ALTERNATE		GRANULAR	2. DESIGN LOADS: (AT NEW CONSTRUCTION) A. WIND LOAD:	
	ARCH. @	ARCHITECT (URAL) AT		BASE	RISK CATEGORY IV EXPOSURE C	
	BOT. BD.	BOTTOM BOARD		COURSE	B. EARTHQUAKE DESIGN DATA: SEISMIC DESIGN CATEGORY VARIES	
	BTWN.	BETWEEN		PLYWOOD	SITE CLASS: D (ASSUMED) C. ALLOWABLE SOIL BEARING = 1,500 PSF PER IBC TABLE 1806.2	
	BLDG. BLK.	BUILDING BLOCK		SHEATHING	(NO SOILS REPORT).	
	BLKG. BM.	BLOCKING BEAM			3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF ANY	
	B.O.F.	BOTTOM OF FOOTING BEARING	- <u>n n n n n</u>	STEEL	DISCREPANCIES OR INCONSISTENCIES. 4. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON	
C	BRG. BSMT.	BASEMENT			DRAWINGS. 5. ALL DETAILS SHOWN APPLY WHETHER SPECIFICALLY REFERENCED OR NOT.	
	CHAN. CEM.	CHANNEL CEMENT			6. ALL STRUCTURAL CALCULATIONS SUBMITTED TO THE ARCHITECT/ENGINEER	
	C.I.P. C.J.	CAST IN PLACE CONTROL/CONSTRUCTION JOINT	DETAIL NUMBER		FOR REVIEW, SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER (STRUCTURAL) REGISTERED IN THE STATE OF ARIZONA.	
	CLR.	CLEAR	SHEET NUMBER	SECTION CUT		
	C.M.U. COL.	CONCRETE MASONRY UNIT COLUMN			II. FOUNDATION AND EARTHWORK 1. ALL FOOTINGS SHALL BE FOUNDED AT THE DEPTHS INDICATED ON CONSTRUCTION	
	CONC. CONN.	CONCRETE CONNECT (ION)	-		DRAWINGS, OR 18 INCHES MINIMUM BELOW LOWEST ADJACENT GRADE.	
	CONST.	CONSTRUCT (ION)	KEYNOTE NUMBER	KEYNOTE	 SCARIFY SOILS TO A DEPTH OF 12 INCHES BELOW BOTTOM OF FOOTINGS, MOISTURE CONDITION, AND COMPACT TO 95% OF MAXIMUM DENSITY. 	
	CONT. ©	CONTINUOUS CENTER LINE			 SCARIFY, MOISTURE CONDITION, AND COMPACT SUBGRADE SOILS TO A DEPTH OF 8 INCHES BELOW BOTTOM OF SLAB. 	
	DBL. DEMO.	DOUBLE DEMOLITION	\downarrow		 PROVIDE 4" THICK GRANULAR BASE COURSE BELOW ALL SLABS ON GRADE. EXTERIOR FINISHED GRADES SHALL SLOPE TO DRAIN AWAY FROM BUILDING 	
	DET. DIA., Ø	DETAIL DIAMETER	WALL NUMBER	SHEAR WALL	WALLS TO ELIMINATE WATER POCKETS ADJACENT TO BUILDING FOUNDATIONS.	
	DIM.	DIMENSION				
	DN. DO.	DOWN DITTO		DETAIL TITLE	III. CONCRETE: 1. ALL CONCRETE SHALL CONFORM WITH ASTM C-94 AND ATTAIN THE	·
	DWG. EA.	DRAWING EACH	DETAIL NUMBER		FOLLOWING MINIMUM STRENGTHS AT 28 DAYS:	
	EL.	ELEVATION			A. FOOTINGS, SLAB ON GRADE, EQUIP. PADS	
	ELEC. ENG.	ELECTRICAL ENGINEER		ELEVATION	2. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE PROVISIONS FOR THE FOLLOWING LATEST ACI STANDARDS.	
	EQ. EQUIP.	EQUAL EQUIPMENT		TARGET	A. ACI 301 – SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS	
	EW. EXTG.	EACH WAY EXISTING	$\frown \Delta$		 B. ACI 318 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE 3. CONCRETE FOOTINGS AND PADS MAY BE POURED AGAINST NEAT 	
	EXP.	EXPANSION	{ 5	REVISION	EXCAVATIONS, PROVIDED PLAN DIMENSIONS ARE ADHERED TO. 4. MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE AS	
	EXT. FDN.	EXTERIOR FOUNDATION			FOLLOWS:	
	F.F. FIN.	FINISH FLOOR FINISH			A. CONCRETE POURED DIRECTLY AGAINST EARTH	
	FRMG. FT.	FRAMING FOOT	. 0.	step in Footing	5. ALL REINFORCING BARS, ANCHOR BOLTS, AND CONCRETE INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING CONCRETE.	
в	FTG.	FOOTING			6. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE	
	GA. GALV.	GAUGE GALVANIZED	¢		BEFORE PLACING CONCRETE. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CONSULT ARCHITECT/ENGINEER OF SUCH CONFLICTS.	
	G.L. GYP.	GLU-LAM GYPSUM		CENTER LINE	7. NO CONSTRUCTION JOINTS (OTHER THAN THOSE SHOWN ON DRAWINGS) SHALL BE INSTALLED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER. PROVIDE	Tł
	HORIZ.	HORIZONTAL	C.		1/4" BULLNOSE AT SLAB JOINTS. CHAMFER CORNER ON VERTICAL ONLY.	– 1. Ti
	H.S.A. HT.	HEADED STUD ANCHOR HEIGHT		COLUMN MARK	8. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER TO OBSERVE COMPLETED FOOTING EXCAVATION AND ALL REINFORCING BAR	U IN
	H.V.A.C. IN.	HEATING/VENTILATING INCH			PLACEMENTS BEFORE ANY CONCRETE IS PLACED. 9. REINFORCING STEEL:	SI FI
	INT. JST.	INTERIOR JOIST			A. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO	TI
	JT.	JOINT	~	FOOTING MARK	ASTM A-615 GRADE 60. B. ALL REINFORCING IN CONCRETE SHALL BE CONTINUOUS OR LAPPED IN	2. TH
	к ко.	KIP (1000) KNOCK OUT			ACCORDANCE WITH ACI 318, AND NOT LESS THAN 48 BAR DIAMETERS.	C
	L.L. L.L.H.	LIVE LOAD LONG LEG HORIZONTAL				D SI
	L.L.V. MAT.	LONG LEG VERTICAL MATERIAL	- 4 "	SLAB DEPRESSION	IV. CARPENTRY: 1. ROUGH CARPENTRY:	Al
-	MAX.	MAXIMUM			A. ALL LUMBER SHALL BE DOUGLAS FIR-LARCH OF THE FOLLOWING GRADE:	3. TH
	M.B. MECH.	MACHINE BOLT MECHANICAL			STUDS & BLOCKING Fb = 900 PSI E = 1,600,000 PSI JOISTS & LINTELS Fb = 900 PSI E = 1,600,000 PSI	M
	MFR. MIN.	MANUFACTURER MINIMUM		OPENINGS	POSTS	A
	MISC.	MISCELLANEOUS			LEDGERS & PLATES Fb = 900 PSI E = 1,600,000 PSI B. ROOF AND WALL SHEATHING SHALL BE APA RATED SHEATHING PLYWOOD OR	4. Al
	N.I.C. N.T.S.	NOT IN CONTRACT NOT TO SCALE		COLUMN GRID	OSB, EXPOSURE I. C. ALL NAILING SHALL CONFORM TO THE 2018 IBC TABLE NO. 2304.10.1 AND AS	D F(
	0.C. OPNG.	ON CENTER OPENING			NOTED ON DRAWINGS. D. ALL LUMBER SHALL BEAR THE STAMP OF AN APPROVED GRADING AGENCY.	
	PT.	PLATE POINT				
	PWD.	PLYWOOD	\$tititititititititititititititititititi	DECK SPAN		
	reinf. Reqd.	REINFORCE (D) REQUIRED				
	SCHED. SECT.	SCHEDULE SECTION				
	SHT.	SHEET	C.J.	CONTROL/ CONSTRUCTION		
	SIM. SPEC.	SIMILAR SPECIFICATION		JOINT		
	SQ. ST.	SQUARE STEEL				
	SYM.	SYMMETRICAL	11 7/8" TJI/35P	PLYWOOD TRUS		
	T. & B. THK.	TOP AND BOTTOM THICKNESS		JOIST		
	T.O.B. T.O.F.	TOP OF BEAM TOP OF FOOTING	32 LH07	"LH" SERIES		
	T.O.J.	TOP OF JOIST		JOIST MARK		
	T.O.S. T.O.W.	TOP OF STEEL TOP OF WALL	W 0.40			
	TYP. U.N.O.	TYPICAL UNLESS NOTED OTHERWISE	W 8x10	STEEL BEAM SIZE		
	VERT. W/	VERTICAL WITH				
-		WITHOUT	12 K1	"K" SERIES		
	W/O W.W.M.	WELDED WIRE MESH		JOIST MARK		

RAL NOTES

VETALS: 1. STRUCTURAL STEEL:

- A. ALL STRUCTURAL STEEL CONSTRUCTION SHALL COMPLY WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AND AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" INCLUDING COMMENTARY, AND THE
- APPLICABLE PROVISIONS OF THE AWS, "STRUCTURAL WELDING CODE".
 B. ALL WIDE FLANGES SHALL BE A992. ALL PIPE COLUMNS SHALL BE ASTM A53, GRADE B. ALL TUBULAR STEEL SHALL BE ASTM A500, GRADE B. ALL OTHER SHAPES AND PLATES SHALL BE ASTM A36.
- C. ALL UNFINISHED BOLTS AND NUTS SHALL BE ASTM A325, GRADE A HIGH STRENGTH BOLTS.
- D. E70XX ELECTRODES SHALL BE USED FOR ALL WELDS.
- E. ALL ANCHOR BOLTS SHALL BE ASTM F-1554, GRADE 36.

GENERAL NOTES:

FOR COMPLETE DIMENSIONS SEE ARCHITECTURAL DRAWINGS

SPECIAL INSPECTION:

THE FOLLOWING PORTIONS OF THE WORK REQUIRE SPECIAL INSPECTION TO BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. (NOTE: SPECIAL INSPECTION OF CONCRETE FOOTINGS IS NOT REQUIRED. 3,000 PSI CONCRETE IS SPECIFIED FOR SERVICEABILITY, BUT IS DESIGNED FOR 2,500 PSI.)

• STRUCTURAL WELDING

THIS NOTE APPLIES TO ALL EXISTING BUILDING AREAS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CUTTING OF ALL REQUIRED OPENINGS THROUGH BUILDING FLOORS, WALLS, ROOFS, AND FOR THE INSTALLATION OF WALL STRUCTURAL SUPPORT MEMBERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL EQUIPMENT, FIXTURES, PIPING, AND CONDUIT INCLUDING SLEEVES, CONCRETE INSERTS, THREADED RODS AND HANGERS.

THIS PROJECT INVOLVES ADDITIONS AND ALTERATIONS TO EXISTING CONSTRUCTION, EVERY EFFORT HAS BEEN MADE TO DETAIL THE DRAWINGS TO CONFORM WITH EXISTING CONSTRUCTION IN ACCORDANCE WITH THE AS-BUILT DRAWINGS. IF CONDITIONS ARE UNCOVERED WHICH DIFFER FROM WHAT IS SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER FOR RECOMMENDATIONS PRIOR TO PROCEEDING WITH THE WORK.

THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, PLACEMENT, AND MAINTENANCE OF ALL SHORING AND BRACING OF EXISTING CONSTRUCTION THAT MAY BE REQUIRED TO INSURE THAT NO SETTLEMENT OR MOVEMENT OF ANY EXISTING CONSTRUCTION OCCURS.

ALL DIMENSIONS OF EXISTING CONSTRUCTION HAVE BEEN TAKEN FROM AS-BUILT DRAWINGS AND SITE SURVEY INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY

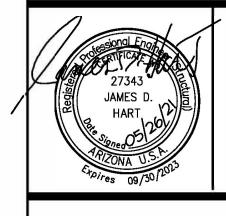
BURNS WALD-HOPKINS SHAMBACH ARCHITECTS 261 North Court Avenue Tucson, Arizona 85701 520.795.2705 Fax 520.795.6171

www.bwsarchs.com

CONSULTANTS

MECHANICAL / PLUMBING / ELECTRICAL Adams & Associates 6422 East Speedway Blvd., #130, Tucson, AZ, 85710 Phone: 520.323.3858 STRUCTURAL Turner Structural Engineering Company 2806 N. Alvernon Way #400 Tucson, AZ, 85712

Phone: 520.323.3422



INDIAN HEALTH SERVICE - BILLINGS AREA WIDE AIRBORNE INFECTION ISOLATION ROOM RENOVATION AND MODERNIZATION

MONTANA & WYOMING IHS PROJECT NO. BI20A0200Z6

U. S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

INDIAN HEALTH SERVICE DIVISION OF FACILITIES ENGINEERING BILLINGS AREA

DATE

DATE

DATE

Reviewed:

DFE ENGINEER/PROJECT MANAGER APPROVED:

DFE CHIEF

REVDATEDESCRIPTIONISSUE:05/26/2021- CONSTRUCTION DOCUMENTSPROJECT NO:1818.300

CAD DWG FILE: 21025 DRAWN BY: TG CHECKED BY: JH

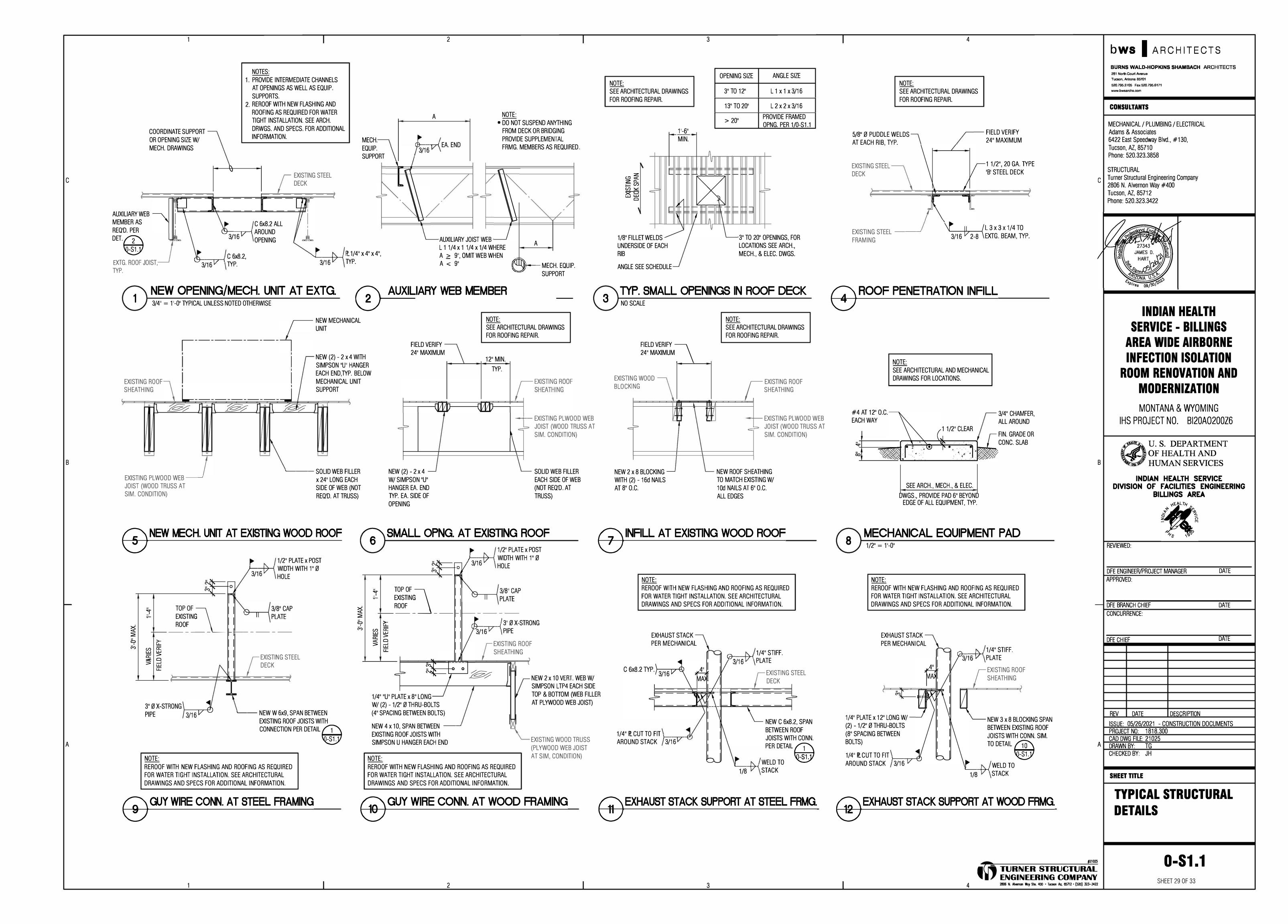
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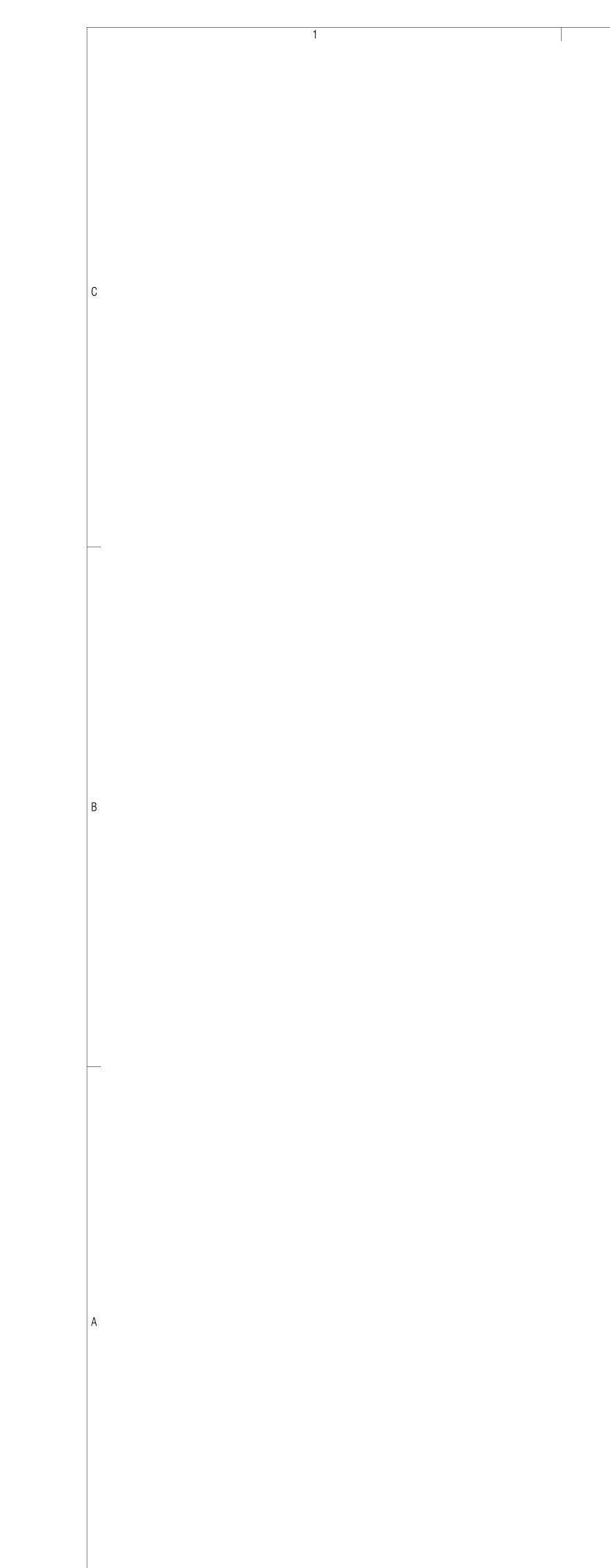
STANDARD STRUCTURAL NOTES



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ΕX	EXHAUST FAN SCHEDULE FORT BELKNAP HOSPITAL											
ESP	MAX. RPM	MAX. INLET dBA	UNIT ELECTRICA VOLTAGE	AL DATA	UNIT WEIGHT	AREA SERVED	REMARKS					
1.0"	2210	64	115/1/60	1/3	250 LBS.	FORT BELKNAP PATIENT ISOLATION ROOM 156	FAN TO BE CONTROLLED BY ISOLATION ROOM CONTROLLER - SEE CONTROLS DRAWINGS					

- 4

					E	XHA	AUS	ST FAN	1 SC	CHED	ULE	FORT BELKNAP HOSPITAL
	MANUFACTURER	T (DC		0.51.4	505	MAX.	MAX. INLET	UNIT ELECTRIC	AL DATA	UNIT		
MARK		TYPE	MODEL	CFM	ESP	RPM	dBA	VOLTAGE	HP	WEIGHT	AREA SERVED	REMARKS
EF 1	СООК	ROOFTOP UTILITY SET BELT DRIVE	CPV 100	850	1.0"	2210	64	115/1/60	1/3	250 LBS.	FORT BELKNAP PATIENT ISOLATION ROOM 156	FAN TO BE CONTROLLED BY ISOLATION ROC CONTROLLER - SEE CONTROLS DRAWINGS

NOTES: UNIT COMPLETE WITH ELECTRONICALLY COMMUTATED MOTOR (ECM), EXTENDED LIFE BEARINGS, OPTIONAL DRAIN (OPEN), WEATHER COVER WITH ACCESS DOOR, INLET/OUTLET COMPANION FLANGE, DISCHARGE STACK, AND ISOLATION RAIL.

	EXHAUST FAN SCHEDULE EAGLE CHILD HEALTH STATIO											
MARK	MANUFACTURER	TYPE	MODEL	CFM	ESP	MAX.	MAX. INLET	UNIT ELECTRIC	AL DATA	UNIT	AREA SERVED	REMARKS
	WANUFAUTUNEN		IVIODEL		EOF	RPM	dBA	VOLTAGE	HP	WEIGHT	ANEA SERVED	
EF 1	СООК	ROOFTOP UTILITY SET BELT DRIVE	CPV 70	275	1.0"	2100	64	115/1/60	1/3	250 LBS.	EAGLE CHILD EXAM ROOM 196	FAN TO BE CONTROLLED BY ISOLATION ROOM CONTROLLER - SEE CONTROLS DRAWINGS

NOTES: UNIT COMPLETE WITH ELECTRONICALLY COMMUTATED MOTOR (ECM), EXTENDED LIFE BEARINGS, OPTIONAL DRAIN (OPEN), WEATHER COVER WITH ACCESS DOOR, INLET/OUTLET COMPANION FLANGE, DISCHARGE STACK, AND ISOLATION RAIL.

				Ft. Belknap	Hospital						
Room Room Description		Plan Area (ft ²)	Clg. Height (ft)	Calc. Room Volume (ft ³)	Min. Vent Air per Hour	Min Ventilation Airflow (cfm)	Min. A/C per Hour	Min Exhaust Airflow (cfm)	Design Exhaust Airflow (cfm@ 15 A/C per hour)		
C156	Patient Isolation Room	253	8.2	2074.6	2	69.2	12	414.9	519		
C157	Toilet	55	8.2	451	0	0.0	12	90.2	113		
C160	Anteroom	95	8.2	779	0	0.0	10	129.8	195		
									827.0		
Eagle Child Health Station (Hays)											
Room	Room Description	Plan Area (ft ²)	Clg. Height (ft)	Calc. Room Volume (ft ³)	Min. Vent Air per Hour	Min Ventilation Airflow (cfm)	Min. A/C per Hour	Min Exhaust Airflow (cfm)	Design Exhaust Airflow (cfm@ 15 A/C per hour)		
196	Exam	129	8.5	1096.5	2	36.6	12	219.3	275		

NOTES:

1. TAB AGENCY SHALL BE A SUBCONTRACTOR TO THE GENERAL CONTRACTOR AND NOT BY THE GOVERNMENT.

THE SUBCONTRACTOR SHALL FINALIZE THE EXHAUST AIR FLOW FOR EACH ROOM TO ENSURE DESIGN EXHAUST AIRFLOW FOR EACH ROOM IS ACHIEVED.

TAB SUBCONTRACTOR SHALL ADJUST THE SUPPLY AIRFLOW FOR EACH ROOM TO MAINTAIN THE CASCDING MINIMUM DIFFERENTIAL PRESSURE (-0.03") ACROSS PRESSURE ZONES.

4

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STRUCTURAL Turner Structural Engineering Company 2806 N. Alvernon Way #400 Tucson, AZ 85712 Phone: 520.323.3422	
Projessional Enginee 45700 DAVID C. TYRRELL Barbon Contraction Barbon Contraction	
INDIAN HEALTH SERVICE - BILLINGS ARAA WIDE AIRBORNS INFECTION ISOLATION MONTANA & WYOMING INS PROJECT NO. BI20A020026	
U. S. DEPARTMENT OF HEALTH AND HUMAN SERVICES	
INDIAN HEALTH SERVICE DIVISION OF FACILITIES ENGINEERING BILLINGS AREA HEALTH HEALTH HEALTH HEALTH HEALTH HEALTH HEALTH HEALTH HEALTH HEALTH SERVICE	
REVIEWED:	
DFE ENGINEER/PROJECT MANAGER DATE APPROVED:	
	CONSULTANTSMECH/ PLUMB/ ELEC Adams & Associates 6422 E Speedway Blyd, #130 Tucson, AZ 85710 Phone: 520.323.3858STRUCTURAL Turner Structural Engineering Company 2806 N. Alvernon Way #400 Tucson, AZ 85712 Phone: 520.323.3422Image: Speedway Blyd, #130 Turner Structural Engineering Company 2806 N. Alvernon Way #400 Tucson, AZ 85712 Phone: 520.323.3422Image: Speedway Blyd, #130 Turner Structural Engineering Company 2806 N. Alvernon Way #400 Tucson, AZ 85712 Phone: 520.323.3422Image: Speedway Blyd, #130 Turner Structural Engineering Company 2806 N. Alvernon Way #400 Tucson, AZ 85712 Phone: 520.323.3422Image: Speedway Blyd, #120 Turner Structural Engineering Company 2806 N. Alvernon Way #400 Turner Turner T

DFE BRANCH CHIEF DATE CONCURRENCE:

DFE CHIE	F	DATE						
REV	DATE	DESCRIPTION						
ISSUE: 05/26/2021 - CONSTRUCTION DOCUMENTS								
PROJEC	TNO: 1818.30	0						

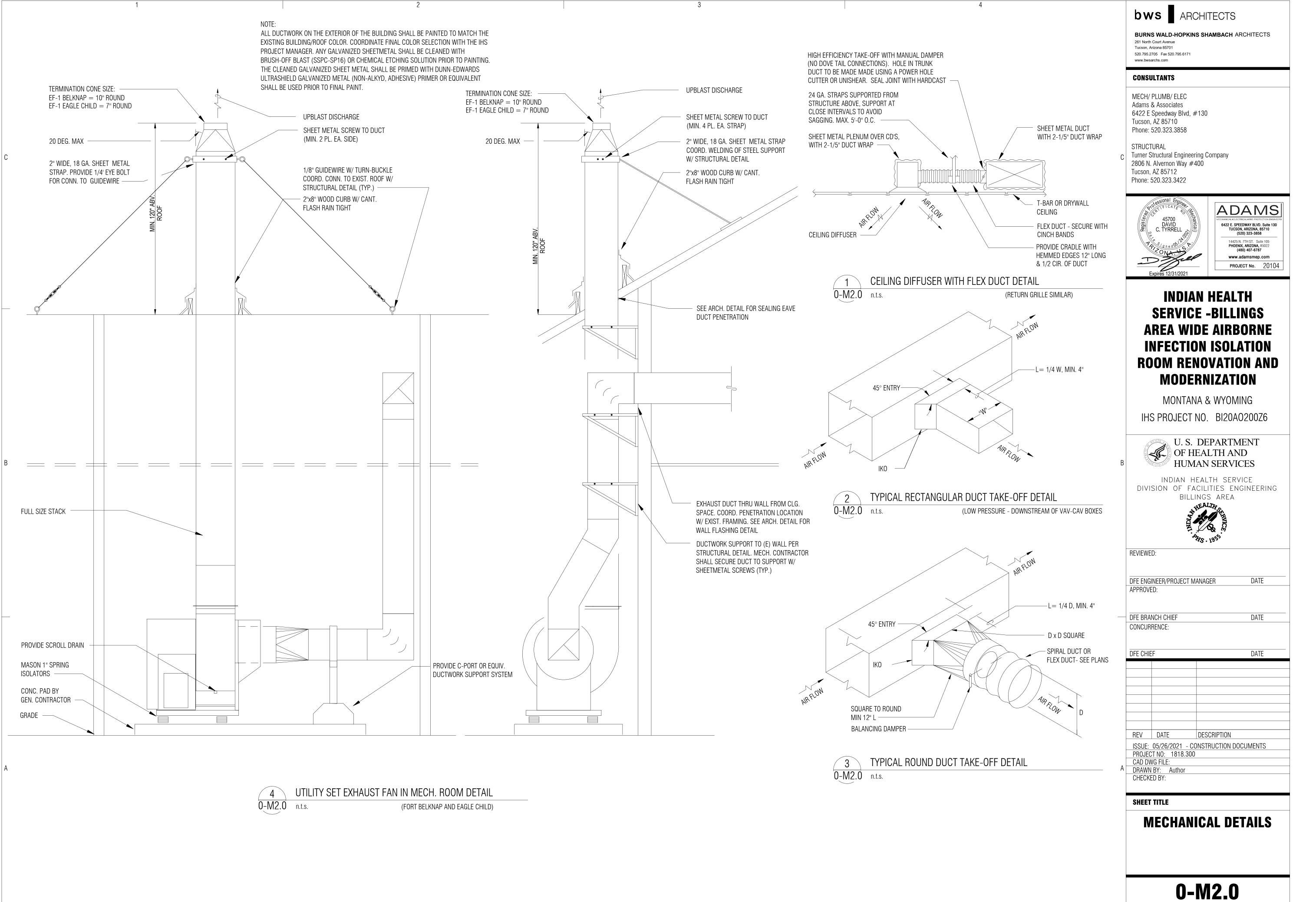
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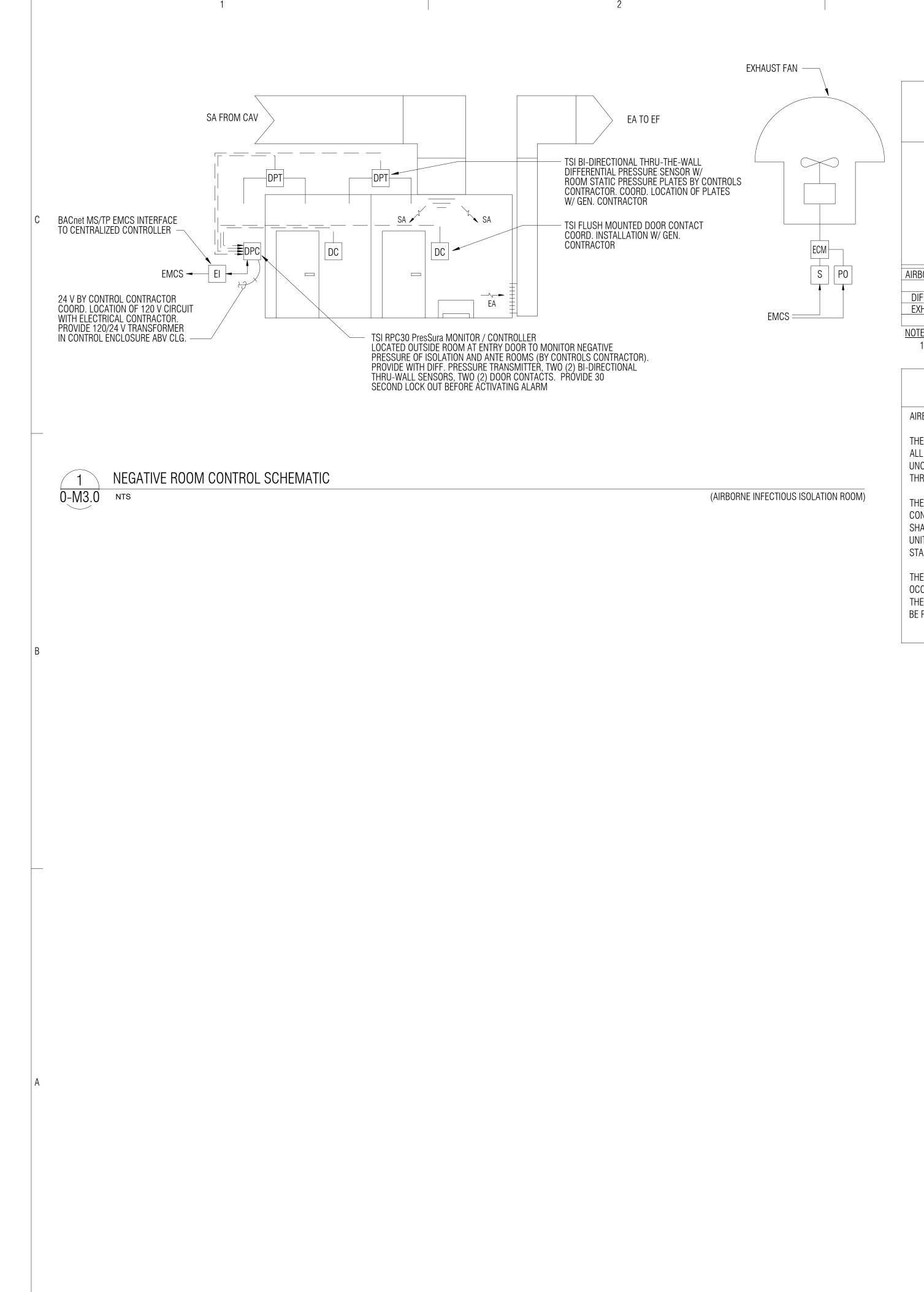
MECHANICAL SCEHDULES



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SHEET 31 OF 33



HARDWARE **EMCS POINTS LIST** OUTPUT ANALOG DGTL. ALL CONTRACTOR AIRBORNE INFECTIOUS ISOLATION ROOM DIFFERENTIAL PRESSURE MONITOR EXHAUST FAN NOTES:

1. DIFFERENTIAL PRESSURE MONITOR SHALL BE COMPLETE W/ BACNET/MSTP COMMUNICATION CARD FOR EMCS INTERFACE. SEE DIFFERENTIAL PRESSURE MONITOR INSTALLATION MANUAL FOR LIST OF SOFTWARE POINTS TO BE PASSED BETWEEN UNIT AND EMCS.

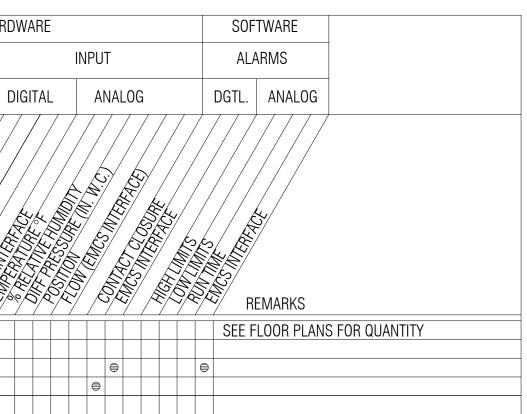
SEQUENCE OF OPERATIONS

AIRBORN INFECTION ISOLATION (AII) ROOM CONTROL

THE AII ROOM SHALL OPERATE AS A NEGATIVE PRESSURE ISOLATION ROOM AT ALL TIMES. FOOTNOTE U OF TABLE 7.1-ASHRAE 170-2017 REQUIRES THE ROOM PRESSURE T O ALL ADJACENT AREAS TO REMAIN UNCHANGED (NEGATIVE) DURING ALL UNOCCUPIED PERIODS. THE MIN. EXHAUST AIR CHANGES MAY BE REDUCED TO 6 AC/HR DURING UNOCCUPIED HOURS. EXHAUST FAN SHALL BE CONTROLLED BY THE EMCS AND MONITORING OF THE DIFFERENTIAL PRESSURE TRANSMITTER AND DOOR CONTACT SHALL BE THROUGH THE TSI RPC30 PresSura MONITOR / CONTROLLER.

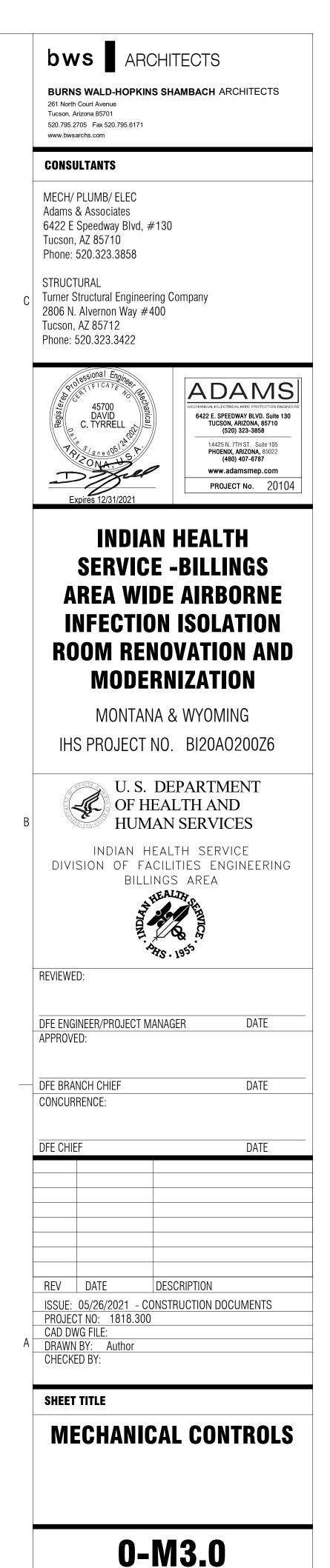
THE MONITOR/CONTROLLER SHALL BE PROVIDED WITH A BACnet MS/TP EMCS INTERFACE TO THE EMCS. THE ROOM PRESSURE CONTROLLER SHALL BE SET UP BY THE CONTROL CONTRACTOR FOR NEGATIVE ROOM PRESSURIZATION CONTROL. THE MIN. DIFFERENTIAL SET POINT SHALL BE -0.01" AND THE MAX. DIFFERENTIAL SET POINT SHALL BE -0.1". THE MAX. DIFFERENTIAL SET POINT ALARM SHALL BE VERIFIED WITH THE MEASURED DIFFERENTIAL PRESSURE OF THE ROOM WITH THE ASSOCIATED AC UNIT SUPPLY FAN DISABLED AND EXHAUST FAN ENABLED. ALARM DELAY SHALL BE SET FOR 30 SECONDS. THE ALARM DELAY SHALL BE VERIFIED WITH LOCAL SERVICE UNIT STAFF PRIOR TO FINAL PROGRAMMING.

THE EMCS SHALL MONITOR SHALL CONTROL THE CONSTANT AIR VOLUME (CAV) TERMINAL UNIT TO MAINTAIN A CONSTANT AIRFLOW THE THE AII ROOM DURING ALL OCCUPIED HOURS. THE CAV REHEAT VALVE SHALL BE MODULATED TO MAINTAIN SPACE TEMPERATURE CONTROL. ANYTIME THE ROOM DIFFERENTIAL PRESSURE IS OUTSIDE THE MIN. / MAX. SET POINTS FOR MORE THAT 30-SECONDS, THE TOUCH SCREEN PANEL SHALL PROVIDE AN AUDIBLE AND VISUAL ALARM TO STAFF AND AN ALARM SHALL BE PROVIDED TO THE OPERATOR'S WORKSTATION THROUGH BACnet MS/TP EMCS INTERFACE.



CONTROLS LEGEND EMCS - ENERGY MONITORING & CONTROL SYSTEM LCI - LOCAL CONTROL INTERLOCK LLC - LOCAL LOOP CONTROL SA - SUPPLY AIR RA – RETURN AIR OA - OUTSIDE AIR (S) - SPACE TEMPERATURE SENSOR EI – EMCS INTERFACE (BACNET/IP) DP - DIFFERENTIAL PRESSURE MONITOR S - START / STOP INTERFACE ECM - ELECTRONICALLY COMMUTATED MOTOR PO - POSITION ADJUSTMENT

Δ



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							3	4	bws Architects
	POWER SYMBOLS LEGEND			DATA SYMB	OLS LEG		-	LIGHT FIXTURE SCHEDULE	BURNS WALD-HOPKINS SHAMBACH ARCHITECTS
SYMBOLS		Mounting Height		DESCRIPTION	GLE GANG ΔΠΔΡΤΕΡ	MOUNTING HEIGHT	FIXTURE DESCRIPTION	WATTAGE LUMENS COLOR MOUNTING MANUFACTURER SPECIFICATION NUMBER ALTERNATE MANUFACTURER	261 North Court Avenue Tucson, Arizona 85701 520.795.2705 Fax 520.795.6171
+	DUPLEX RECEPTACLE (20A/125V/2P/3W/G NEMA 5-15R)	18" AFF		C TO ABOVE ACCESSIBLE CEILING FROM AND OR VIDEO CABLES.			J 4' LED STRIP	25 3,200 3500K CHAIN HUNG @9FT LITHONIA ZL1N-L48-SMR-3000LM- FST-35K*-80CRI COLUMBIA, PHILIPS	www.bwsarchs.com
₩	QUADRAPLEX RECEPTACLE (20A/125V/2P/3W/G NEMA 5-15R)	18" AFF		DATA OUTLET, IN COMBO DEVICE. REFER SPECIFICATIONS AND MOUNTING HEIGH			*PROVIDE FIXTURE WITH COLOR TEMPERATURE OF E		MECH/ PLUMB/ ELEC
e	ABOVE COUNTER DUPLEX RECEPTACLE (20A/125V/2P/3W/G NEMA 5-15R) DUPLEX RECEPTACLE GFCI PROTECTION. (20A/125V/2P/3W/G NEMA 5-15R)	42" AFF		AND OR VIDEO CABLES. VALL PHONE, 4" SQUARE BOX AND SING			ELECTRICAL GE		Adams & Associates 6422 E Speedway Blvd, #130 Tucson, AZ 85710
GFCI	DUPLEX RECEPTACLE ON ESSENTIAL SYSTEM (20A/125V/2P/3W/G NEMA 5-15R)	18" AFF		C TO ABOVE ACCESSIBLE CEILING FROM			A. DESIGNATION '(E)' REPRESENTS EXISTING EL	LECTRICAL DEVICE OR EQUIPMENT EXISTING TO REMAIN	Phone: 520.323.3858
	DUPLEX RECEPTACLE W/ WEATHER PROOF ENCLOSURE AND GFCI.			HALL HAVE NYLON PULLCORDS AND NY			AS CIRCUITED AND SWITCHED UNLESS NOT	TED OTHERWISE.	C STRUCTURAL Turner Structural Engineering Company 2806 N. Alvernon Way #400
€ _{WP}	(20A/125V/2P/3W/G NEMA 5-15R) SPECIAL NEMA CONFIGURATION RECEPTACLE. REFER TO FLOOR PLANS	18" AFF					IN SCOPE OF THIS PROJECT. DEMOLISH DEV POINT OF ORIGINATION. IF PANEL BOARD IS I	VICE(S), CONDUIT(S) AND CONDUCTOR(S) BACK TO POINT OF ORIGINATION, TURN OCPD OFF AND LABEL AS	Tucson, AZ 85712 Phone: 520.323.3422
● ●	FOR EXACT NEMA CONFIGURATION. JUNCTION BOX, SIZING AND MOUNTING AS REQUIRED BY SPECIFICATIONS			ONE-LINE SYM			SPARE'.	LECTRICAL DEVICE OR EQUIPMENT TO BE RELOCATED IN	tessional Engineer
0 0 0	AND NEC. HEAVY DUTY DISCONNECT, FRAME, FUSE AND POLES INDICATED ON FLOOR		SYMBOLS		SYMBC		SCOPE OF THIS PROJECT. RELOCATE AND EX NEED TO PROVIDE A CODE COMPLIANT FINAL	IXTEND DEVICE(S), CONDUIT(S) AND CONDUCTOR(S) AS AL INSTALLATION.	65837 ALEC ZIMMERMANN
	PLAN. COMBINATION MOTOR STARTER/DISCONNECT	AS REQUIRED	PANEL	BRANCH PANEL BOARD, REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION.			D. ELECTRICAL CONTRACTOR SHALL COORDINA GENERAL CONTRACTOR.	ATE ALL PATCHING AND REPAIRING WORK WITH THE	(520) 323-3858 (14425 NJ ZTH ST. Suite 105
X/X/X	208Y/120V BRANCH PANEL BOARD. REFER TO PANEL SCHEDULE FOR	AS REQUIRED	NAME				EQUIPMENT TO BE REMOVED AND/OR RELOC	TAND WIRING ASSOCIATED WITH DEVICES AND CATED UNLESS NOTED OTHERWISE. PROVIDE AND	PHOENIX, ARIZONA, 85022 (480) 407-6787 WWW.adamsmep.com PROJECT No. 20104
	ADDITIONAL INFORMATION. 480Y/277V BRANCH PANEL BOARD. REFER TO PANEL SCHEDULE FOR	-		CIRCUIT BREAKER		GROUNDING ELECTRODE		AND ACCESSORIES REQUIRED TO MAINTAIN SERVICE DEQUIPMENT THAT MAY BE INTERRUPTED DURING	Expires 3/31/2024
	ADDITIONAL INFORMATION. CIRCUIT HOMERUN TO PANEL BOARD VIA 2#12, 1#12 G, 3/4" C. AND	-	ا م <i>ر</i>	AT=TRIP			F. PROVIDE FOR ANY AND ALL DEMOLITION WO	ORK NECESSARY TO ACCOMMODATE ALL NEW	INDIAN HEALTH
	20A/1P CB UNO THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	-	0	LSIG = LONG TIME, SHORT TIME, INSTANTANEOUS AND GROUND FAULT		<u>-</u>	CONSTRUCTION, INCLUDING BUT NOT LIMITE ELECTRICAL WORK.	ED TO ARCHITECTURAL, MECHANICAL, PLUMBING OR	SERVICE -BILLINGS AREA WIDE AIRBORNE
PANEL-X,X,X	MULTI-POLE DEVICE CIRCUIT NUMBERS		A	I SETTINGS			EQUIPMENT SIZES AND CONNECTIONS ARE D	ONNECTIONS TO OWNER PROVIDED EQUIPMENT. IF DIFFERENT. PROVIDE MODIFIED CB, CONDUIT AND	INFECTION ISOLATION
PANEL-X,X,X				FUSED SWITCH		ELECTRICAL METER	 CONDUCTORS PER NEC REQUIREMENTS. H. PROVIDE UPDATED TYPE WRITTEN DIRECTOR 	RY OF ALL CORRECT CIRCUITS WITH LOAD DEFINITIONS	ROOM RENOVATION AND
	LIGHTING SYMBOLS LEGEND	MOUNTING		F AF = SWITCH FRAME RATING AT = FUSE TRIP RATING	М		FOR EACH PANEL BOARD. DIRECTORY SHALL	L BE LOCATED INSIDE PANEL DOOR.	MODERNIZATION
SYMBOLS	DESCRIPTION	HEIGHT SEE FIXTURE					THE SCOPE OF THE PROJECT.	XISTING/RELOCATED ELECTRICAL RECEPTACLES WITHIN	MONTANA & WYOMING IHS PROJECT NO. BI20A0200Z6
	2X4 FIXTURE	SCHEDULE SEE FIXTURE							
	2X2 FIXTURE	SEE FIXTURE							U.S. DEPARTMENT OF HEALTH AND
^B	WALL MOUNTED SCONCE FIXTURE	SCHEDULE SEE FIXTURE	ABBREVIATION	ABOVE FINISHED CEILING		LIGHTING			B HUMAN SERVICES
	WALL MOUNTED LINEAR FIXTURE	SCHEDULE SEE FIXTURE	AFF ARCH	ABOVE FINISHED FLOOR ARCHITECT	LTS LV	LIGHTS LOW VOLTAGE			DIVISION OF FACILITIES ENGINEERING BILLINGS AREA
	LINEAR FIXTURE	SCHEDULE SEE FIXTURE	ATS BFC CB, C/B	AUTOMATIC TRANSFER SWITCH BELOW FINISHED FLOOR CIRCUIT BREAKER	MCC	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MAN HOLE			HEALTH SERVICE
	DOWNLIGHT FIXTURE	SCHEDULE	CKT CLG	CIRCUIT CEILING	MLO N.C.	MAIN LUGS ONLY NORMALLY CLOSED			7. 1955 Ars. 1955
\$	WALL SWITCH	44" AFF 44" AFF	CR EC ELEC	CIRCUIT EMPTY CONDUIT ELECTRIC	(R)	NATIONAL ELECTRIC CODE RELOCATED RECEPTACLE			REVIEWED:
\$	3-WAY WALL SWITCH DIMMER WALL SWITCH (0-10V)	44 AT	EMS,BMS	ENERGY/BUILDING AUTOMATION SYSTEM	S.O. SPD	SPACE ONLY SURGE PROTECTION DEVICE			DFE ENGINEER/PROJECT MANAGER DATE
\$3D	3-WAY DIMMER WALL SWITCH (0-10V)	44" AFF	E EP EWC	EMERGENCY EXPLOSION PROOF ELECTRICAL WATER COOLER	TP	SHUNT TRIP TAMPER PROOF TRANSIENT VOLTAGE SURGE			APPROVED:
- (PC)	CEILING MOUNTED VARIABLE PHOTOCELL	-	(E) FA	EXISTING FIRE ALARM	UNO	SUPPRESSION UNLESS NOTED OTHERWISE			DFE BRANCH CHIEF DATE CONCURRENCE:
<u>(vs)</u>	CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR	-	FACP, FAP FLR FUT	FIRE ALARM CONTROL PANEL FLOOR FUTURE	VFD	VOLTAGE VARIABLE FREQUENCY DRIVE VAPOR PROOF			
	NURSE CALL SYMBOLS LEGEND		G GFI, GFCI	EQUIPMENT GROUND GROUND FAULT CIRCUIT	W W/	WIRE WITH			DFE CHIEF DATE
SYMBOLS	DESCRIPTION	Mounting Height	HP IG	INTERRUPTER HORSE POWER ISOLATED GROUND	XFMR	WEATHER PROOF TRANSFORMER DEMOLISHED			
	DOME LIGHT. REFER TO ARCHITECTURAL OR OWNER NURSECALL DRAWINGS FOR EXACT MOUNTING LOCATION. MAY BE CEILING OR WALL MOUNTED	-	[<u> </u>	. , ,				
SS	STAFF ASSIST STATION	48"							REV DATE DESCRIPTION
СВ	SINGLE PATIENT STATION WITH CODE BLUE	48"							ISSUE: 05/26/2021 - CONSTRUCTION DOCUMENTS PROJECT NO: 1818.300 CAD DWG FILE: A DRAWN BY: AZ
EP	EMERGENCY PULL STATION	48"							A DRAWN BY: AZ CHECKED BY:
NM	NURSE CALL CONSOLE	-							
PROVIDE 1" C VENDOR AND	ABOVE TO ABOVE ACCESSIBLE CEILING. CONFIRM ALL BACKBOX AND CONDUIT SIZE /OR OWNER GROUP PRIOR TO INSTALLATION. ALL CONDUITS SHALL HAVE NYLON PUI SUSHINGS AT EACH END.								ELECTRICAL SYMBOLS AND ABBREVIATIONS
									0-E0.0
	1			2			3	4	SHEET 33 OF 33