

COTTAGE #1, BALTIMORE CAMPUS 3300 GAITHER RD, WINDSOR MILL, MD 21244

ARCHITECT HORD COPLAN MACHT, INC. 700 E. PRATT STREET SUITE 1200 BALTIMORE, MD 21202 TEL. 410.837.7311 FAX 410.837.6530

MEP

SRBR ENGINEERS, INC. 757 FREDERICK RD, SUITE 300 CATONSVILLE, MD 21228 TEL. 410. 869. 7282 FAX

В

BOARD OF CHILD CARE

PROJECT SITE





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A	@ ACT ADJ AFF ALUM ALT	AT ACOUSTICAL CEILING TILES ADJACENT ABOVE FINISHED FLOOR ALUMINUM ALTERNATE	G	GA GALV. GEN. GL. GWB GYP BD	GAUGE GALVANIZED GENERAL GLASS GYPSUM WALL BOARD GYPSUM BOARD	Q R	Q.T. R R.A. RAD. RCP	QUARRY TILE RISER RETURN AIR RADIUS REFLECTED CEILING PLAN
В	BARR. BLDG BLK/BLKG BIT. BM.	BARRIER BUILDING BLOCKING BITUMINOUS BEAM	Н	HM HB HC HORIZ. H.P. HR	HOLLOW METAL HOSE BIB HANDICAPPED HORIZONTAL HIGH POINT HOUR		R.D. REF REINF. RM R.O. RQD.	ROOF DRAIN REFERENCE, REFRIGERATOR REINFORCING ROOM ROUGH OPENING REQUIRED
	BOT. B.U.	BOTTOM BUILT-UP	I	HT INSUL.		S	SCHED. SECT. SHT	SCHEDULE SECTION SHEET
	CAB CIP CL	CABINET CAST-IN-PLACE CENTERLINE	J	J.C. J.O.	JANITOR'S CLOSET JAMB OPENING		SIN SPECS SQ.	STANDPIPE SPECIFICATIONS SQUARE
	CLG CMU COL. CONC.	CEILING CONCRETE MASONRY UNITS COLUMN CONCRETE	K	JT KIT.	JOINT KITCHEN		SS STL ST./STOR/ STRUCT.	STAINLESS STEEL STEEL STORAGE STRUCTURAL
	CONST. C.J. CONT. CORR	CONSTRUCTION CONTROL JOINT CONTINUOUS CORRIDOR	L	LAM. LAV. L.F. L P	LAMINATE LAVATORY LINEAR FEET LOW POINT	т	SUSP. SW T	SUSPENDED STORM WATER
	CPT CT	CARPET CERAMIC TILE	Μ	M. MACH.	MEN'S TOILET MACHINE	I	TEL. TH THK.	TELEPHONE THRESHOLD THICKNESS
U	D, D DET. DIA.	DEEP DETAIL DIAMETER		MAINT. MAS. MANF. MAX	MAINTENANCE MASONRY MANUFACTURER MAXIMUM		T&B T&G TS	TOP AND BOTTOM TONGUE AND GROOVE TRANSITION STRIP
	DISP. DIM. DN D.S.	DISPENSER DIMENSION DOWN DOWNSPOUT		MECH. M.H. MIN M.R.	MECHANICAL MANHOLE MINIMUM MOISTURE RESISTANT	U	TYP U.L. U.N.O.	TYPICAL UNDERWRITER'S LABORATORY UNLESS NOTED OTHERWISE
F	DTLS. DWGS FA	DETAILS DRAWINGS EACH		M.O. MISC. MTG MTI	MASONRY OPENING MISCELLANEOUS MOUNTING METAI	۷	VCT V.B. VERT	VINYL COMPOSITION TILE VAPOR BARRIER VERTICAL
L	E.F. ELEC. ELEV.	EXHAUST FAN ELECTRICAL ELEVATOR	N	MULL.			VEST. V.R.	VESTIBULE VAPOR RETARDER
	EQ EQUIP. E.T.R.	EQUAL EQUIPMENT EXISTING TO REMAIN		NO. NOM. NTS	NOMINAL NOT TO SCALE	v	WD W/ W/O	WOOD WITH WITHOUT
F	EXIST. EXP. EXP. JT. EXT. F.D.	EXISTING EXPOSED EXPANSION JOINT. EXTERIOR FLOOR DRAIN	0	O.C. O.D. OPER. OPG. OPP.	ON CENTER OUTSIDE DIAMETER OPERATING OPENING OPPOSITE		W.C. W.P. WWF WWM	WATER CLOSET WATERPROFFING WELDED WIRE FABRIC WELDED WIRE MESH
	FE FEC FEC02 FHC	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER CARBON DIOXIDE FIRE HOSE CABINET	Ρ	PART. PASS. PERIM. PL	PARTITION PASSAGE PERIMETER PLATE, PROPERTY LINE			
	FIN. FIXT. FL. FOS	FINISHED FIXTURE FLOOR FACE OF STUD		PLAS. PLAM POLY. PREFAB	PLASTER PLASTIC LAMINATE POLYETHELYNE PREFABRICATED			
	FP FTG FURR.	FIREPROOFING FOOTING FURRING		PREP. P.T. PTD	PREPARATION PRESSURE TREATED PAINTED			
N	ΛΑΤΕ	RIALS LEGEND			GE	NE	RAL S	SYMBOLS
		BRICK					SECT	ION MARKER
							CUTS SECT	CONSTRUCTION
		CMU					SHEE	T WHERE SECTION APPEARS
		CONCRETE					DETA DETA	IL IL IDENTIFICATION
		METAL (IN SECTION)				A1.1	SHEE	T WHERE DETAIL APPEARS
		EARTH				A4.2	Shee Elev	T WHERE ELEVATION APPEARS ATION IDENTIFICATION
		POROUS FILL/GRAVEL			2	3 A4.2 4	INTEF	RIOR ELEVATION MARKER T WHERE ELEVATION APPEARS ATION IDENTIFICATION
		GYPSUM BOARD				<u>ROOM</u> 100	<u>ROON</u> 	<u>/ MARKER</u> / NAME / NUMBER
		MORTAR, GROUT, SAND				101 +		R MARKER
		ROUGH LUMBER OR BLC (CONTINUOUS)	CKIN	3		1 -	<u>WIND</u> WIND	OW, STOREFRONT, LOUVER MARK
		ROUGH LUMBER OR BLC (DISCONTINUOUS)	CKIN	3		– A1 –	<u>PART</u> PART	ITION MARKER ITION TYPE
		FINISH CARPENTRY			<u>_LEVEL</u> 0'-0"	•	<u>Heig</u> i —— Heigi	<u>HT, ELEVATION MARKER</u> HT/ELEVATION
		PLYWOOD				}	<u>REVIS</u> —— AREA —— REVIS	SION MARKER OF REVISION SION IDENTIFICATION
		BATT INSULATION				0	<u>BUILC</u> BUILC	DING LINE DING LINE IDENTIFICATION
		RIGID INSULATION					—— <u>Keyn</u>	OTE MARKER
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						3ED-01 -	EQUIF	PMENT NUMBER
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GENERAL NOTES

1. ALL WORK SHALL BE DONE IN WORKMANLIKE MANNER AND IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS. 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL AUTHORITIES, RULES AND REGULATIONS. 3. SURVEY THE AREA OF CONSTRUCTION AND MAKE ALL NOTATIONS NECESSARY FOR SUBMITTING A FIRM BID.

- 4. FIELD-VERIFY ALL DIMENSIONS. 5. DIMENSIONS ARE INDICATED ON DRAWINGS WHERE APPROPRIATE. IF A
- SPECIFIC DIMENSION IS NEEDED AND IS NOT INDICATED, SUBMIT AN RFI TO ARCHITECT. DO NOT SCALE DRAWINGS TO OBTAIN A MISSING DIMENSION. 6. REPORT UNFORESEEN OR UNCLEAR CONDITIONS TO ARCHITECT AND
- OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK. 7. PAY FOR REQUIRED PERMITS AND INSPECTIONS.
- 8. ADJACENT AREA WILL REMAIN OPEN AND CONTINUE TO FUNCTION UNINTERRUPTED DURING CONSTRUCTION. PRIOR TO START OF WORK EACH DAY, COORDINATE CONSTRUCTION ACTIVITY WITH OWNER. 9. GUARANTEE THE WORK AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. CORRECT ALL
- WORK DEEMED UNSATISFACTORY BY THE OWNER, INCLUDING DAMAGE TO EXISTING FINISHES, AT NO COST TO THE OWNER. 10. MATERIAL SHALL BE NEW AND OF FIRST QUALITY UNLESS RECYCLED CONTENT IS REQUIRED OR ALLOWED IN THE PRODUCT SPECIFICATION. THE QUALITY OF WORKMANSHIP SHALL BE FINEST AND HIGHEST OBTAINABLE IN EACH PARTICULAR TRADE. THE WORKMANSHIP SHALL BE SATISFACTORY TO THE OWNER, AND THEIR DECISION AS TO ACCEPTABLE QUALITY IS FINAL.
- 11. COORDINATE WITH OWNER AND PROVIDE VEHICULAR AND PEDESTRIAN PROTECTION/ BARRICADES AS REQUIRED TO MAINTAIN PUBLIC SAFETY. 12. COORDINATE WORK AND COOPERATE WITH SEPARATE CONTRACTORS ON THE
- SITE TO FACILITATE EXECUTION OF WORK. 13. PRIOR TO DEMOLITION, MEET WITH THE OWNER FOR THE PURPOSE OF DETERMINING MATERIALS THAT ARE TO BE SALVAGED AND RETURNED TO THE
- OWNER. 14. TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING ELEMENTS TO REMAIN.
- 15. TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EQUIPMENT AND BUILDING COMPONENTS FROM DUST AND WATER DAMAGE. 16. PROVIDE TEMPORARY PROTECTION FROM CLIMATIC CONDITIONS FOR
- EXISTING CONSTRUCTION THAT IS EXPOSED TO THE ELEMENTS DUE TO DEMOLITION.
- 17. TAKE PRECAUTIONS NECESSARY WHEN OPEN FLAME OR TORCHES ARE BEING USED DURING CONSTRUCTION. (A BURNING PERMIT IS REQUIRED). 18. PROVIDE MSDS SPECIFICATIONS TO COMPLY WITH OSHA, AS PART OF
- SUBMITTAL PROCESS. 19. KEEP FLOOR DRAINS FREE AND CLEAR OF DEBRIS.
- 20. FLASH PATCH HOLES AND DEPRESSED AREAS IN FLOOR. REMOVE HIGH AREAS BY GRINDING PRIOR TO INSTALLATION OF NEW FINISHES. 21. PROVIDE APPROPRIATE BLOCKING IN WALLS FOR WALL HUNG ITEMS NOT
- ALREADY BACKED IN WALL. 22. REPAIR DAMAGED AREAS IN EXISTING WALLS, CEILINGS, AND FLOORS TO REMAIN TO ORIGINAL CONDITION WITH NEW MATERIALS AND FINISHES TO
- MATCH EXISTING. 23. INSPECT WALL SURFACES FOR WATER DAMAGE OR LOOSE PAINT, AND MAKE
- REPAIRS NEEDED TO PROVIDE CONSISTENT FINISH. 24. PATCH OPENINGS IN EXISTING WALLS, FLOORS AND CEILINGS CAUSED BY NEW CONSTRUCTION. PATCHED-IN NEW MATERIAL AND FINISHES SHALL MATCH EXISTING UNLESS OTHERWISE NOTED.
- 25. PREPARE SURFACES DESIGNATED TO RECEIVE NEW FINISHES, INCLUDING FLOORS, WALLS, CEILINGS, TRIM, ETC., PRIOR TO THE FINISH APPLICATION. SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH THE
- RECOMMENDATIONS OF THE FINISH MANUFACTURER. 26. REMOVE SURFACE-MOUNTED EQUIPMENT PRIOR TO PREPARING WALLS FOR PAINT OR WALLCOVERING INSTALLATION. BOX EQUIPMENT FOR REINSTALLATION OR FOR TURNOVER TO OWNER.
- 27. SKIM-COAT WALLS THAT HAVE BEEN SCRAPED TO BARE PLASTER DURING DEMOLITION, AND ARE NOT DESIGNATED TO BE FURRED OR OVERLAID, TO
- PROVIDE A SMOOTH SURFACE FOR FINISH. 28. SAND WALLS TO PROVIDE FIRST QUALITY FINISH RESULTS. 29. AFTER SANDING HAS BEEN COMPLETED, SEAL WALLS WITH PRIMER SEALER
- SPECIFIED IN CONTRACT DOCUMENTS. 30. THE START OF PRIMING OR FINISHING OF WALL SURFACES REPRESENTS
- ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR PRIMING OR FINISHING. 31. INSTALL SEALANT AT TOILET FIXTURES AND CHANGE IN MATERIALS, AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
- 32. LOCATE EQUIPMENT TO FACILITATE OPERATION AND MAINTENANCE. EQUIPMENT WILL INCLUDE BUT NOT BE LIMITED TO, CONTROLLERS, DAMPERS, DRAINS, VALVES, ETC. REWORK EQUIPMENT DEEMED INACCESSIBLE BY THE OWNER OR ENGINEER AT NO ADDITIONAL EXPENSE TO THE OWNER.

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CODE INFO

PROJECT NAME: BOARD OF CHILD CARE COTTAGE #1 RENOVATION

PROJECT DESCRIPTION: RENOVATION OF AN EXISTING RESIDENTIAL COTTAGE TO ADDRESS INCREASED SAFETY MEASURES FOR HIGHER ACUITY RESIDENTS.

PROJECT SIZE: 4,700 SF

OCCUPANCY USE GROUP:

IBC - R-2 NFPA

CONSTRUCTION TYPE: EXISTING 3B

FIRE SUPPRESSION SYSTEM: EXISTING FULLY SPRINKLERED

APPLICABLE CODES & STANDARDS:

ACCESSIBILITY	COMAR 05.02.02 - MARYLAND ACCESSIBILITY CODE, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
BUILDING	2018 INTERNATIONAL BUILDING CODE
ELECTRICAL	2017 NATIONAL ELECTRICAL CODE
ENERGY	2018 INTERNATIONAL ENERGY CONSERVATION CODE
FIRE PREVENTION	2018 INTERNATIONAL FIRE CODE
FUEL GAS	2018 INTERNATIONAL FUEL GAS CODE
MECHANICAL	2018 INTERNATIONAL MECHANICAL CODE
PLUMBING	2018 INTERNATIONAL PLUMBING CODE
SUSTAINABILITY	2012 INTERNATIONAL GREEN CONSTRUCTION CODE AS ADOPTED AND AMENDED BY ORD. 15-0546
REHAB	COMAR 05.16.01 - MARYLAND BUILDNG REHABILITATION CODE/2018 INTERNATIONAL EXISTING BUILDING CODE
HEALTH CARE CODES	2018 FGI GUIDELINES FOR DESIGN & CONSTRUCTION FOR HEALTHCARE FACILITIES NFPA 99, 2005 EDITION NFPA 101 LIFE SAFETY CODE, [2018] EDITION, AS REQUIRED BY THE JOINT COMMISSION
LOCAL SUPPLEMENTS	BALTIMORE CITY, BUILDING, FIRE, & RELATED CODES, 2020 EDITION
OCCUPANCY LOAD:	PER IBC TABLE 1004.1.2 & LSC TABLE 7.3.1.2

<u>REQUIRED FIRE RESISTANCE RATINGS:</u> PER IBC TABLE 601, TABLE 1020.1, 705.5, 713, & LSC [18.3] [38.3]

STRUCTURAL FRAME	0HR
EXTERIOR BEARING WALLS	2HR
INTERIOR BEARING WALLS	0HR
INTERIOR NON-BEARING WALLS & PARTITIONS	0HR
FLOOR CONSTRUCTION	0HR
CORRIDOR WALLS	0HR
SHAFT ENCLOSURES	0HR
SHAFT ENCLOSURES	0HR

OCCUPANCY SEPARATION: PER IBC TABLE 508.4 & LSC TABLE 6.1.14.4.1

INCIDENTAL USE AREAS: PER IBC TABLE 509 & LSC [TABLE 18.4.5.1] N/A

N/A

 MEANS OF EGRESS:

 EXIT ACCESS TRAVEL DISTANCE (IBC TABLE 1017.2 & LSC [18.2.6] [38.2.6])
 250'

 MAXIMUM DEAD END CORRIDOR LENGTH (IBC 1020.4 & LSC [18.2.5.2] [38.2.5.2])
 50'

 MINIMUM CORRIDOR WIDTH (GUIDELINES 8.2.2.1 & IBC TABLE 1020.2)
 36"
 MINIMUM DOOR WIDTH (IBC 1010.1.1 & LSC 7.2.1.2.3) 32" COMMON PATH OF TRAVEL (IBC TABLE 1006.2.1 & IBC 407.4 & LSC [18.2.5.3] [38.2.5.3]**) 125'**

> LIFE SAFETY LEGEND ----- 2 HOUR FIRE RATED PARTITION ----- 1 HOUR RATED SMOKE BARRIER ••••••••••• NON-RATED PARTITION TO LIMIT THE TRANSFER OF SMOKE EXIT FEC FIRE EXTINGUISHER CABINET R OCCUPANCY DESIGNATION AREA OF FITOUT

TRAVEL DIS	TANCE	
	EXIT #1	EXIT #2
POINT "A"	89' - 0"	71' - 11"

INTERIM LIFE SAFETY MEASURES

ARCHITECT Hord Coplan Macht, Inc. 700 E. Pratt St, Suite 1200 Baltimore, MD 21202 p. 410. 837. 7311 f. 410. 837. 6530 MEP ENGINEERS SRBR Engineers, Inc. 757 Frederick Rd, Suite 300 Catonsville, MD 21228 p. 410.869.7282 MPUS 21244 ARE UNIT Ú MD CHILD RE ЧЧ Ч U MIL ОF E #1, BALTIN, WINDSOR I U BOARD 4 SUB Ū Ū N N COT 3300 hord | coplan | macht ARCHITECTURE LANDSCAPE ARCHITECTURE PLANNING INTERIOR DESIGN PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NUMBER: A-18031 EXPIRATION DATE: 04.22.2023 _____ _____ no. date revision Project Name SUB ACUTE CARE UNIT Project Number 221326.00 Date 05.11.2022 8 Scale As indicated Drawing LIFE SAFETY PLAN **CS.30** 9 CONSTRUCTION DOCUMENTS © Hord Coplan Macht, Inc.







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		DEMOL	ITION	PLANS	•
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	- - .	VARY WITH V.I.F. DIMENSIONS NOT SO NOTED ARE INTENDED TO BE HELD AS
		INDICATED. FIELD-VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OR
	_	INSTALLATION OF BUILDING COMPONENTS.
	5.	MECHANICAL, ELECTRICAL, AND PLUMBING (M.E.P.) ITEMS AND EQUIPMENT
		APPEARING ON ARCHITECTURAL DRAWINGS ARE SHOWN FOR CLARITY, AND
		ARE NOT MEANT TO BE ALL INCLUSIVE; SEE APPROPRIATE M.E.P. SHEETS FOR
	6	FOR PARTITION TYPES AND DOOR TYPES SEE SHEET A10.00
	7.	"WALL" AND "PARTITION" ARE USED IN DRAWING SET TO DENOTE EITHER
		WALLS OR PARTITIONS INTERCHANGEABLY. REFER TO FLOOR PLANS FOR
		LOCATION OF PARTITIONS AND LIFE SAFETY PLAN FOR FIRE RATINGS.
	8.	WALLS WITHOUT PARTITION TAGS TO BE TYPE A1 UNLESS ADJACENT
		PARTITION REQUIRES DIFFERENT FIRE RATING. TYPICAL DETAILS APPLY TO AL
		PARTITION TYPES U.N.O. [CONSTRUCT CORRIDOR WALLS TO LIMIT THE
	a	WHERE ROOMS WITH DIFFERENT PARTITION REQUIREMENTS ARE AD IACENT.
	3.	INSTALL A PARTITION WITH THE GREATER FIRE-RATING PRESSURE RATING
		AND STC RATING BETWEEN THEM.
	10.	AT INTERSECTION OF DISSIMILAR PARTITION TYPES, HIGHEST RATED
		PARTITION SHALL RUN THROUGH THE INTERSECTION TO MAINTAIN
		ENCLOSURE. MAINTAIN RATING OF RATED PARTITION AT INTERSECTION WITH
		COLUMN ENCLOSURES BY EXTENDING ENCLOSURE AROUND COLUMN.
	11.	WHERE TWO DIFFERENT PARTITION SYSTEMS ABUT, THE FINISH GYPSUM
	12	CONSTRUCT AD IACENT WALLS THAT APPEAR TO ALIGN IN PLAN TO ALIGN IN
	12.	PLAN.
	13.	HOLD NEW FURRED PARTITIONS TIGHT TO EXISTING STRUCTURE UNLESS
		NOTED OTHERWISE.
	14.	CONSTRUCT FIRE-RATED PARTITIONS ACCORDING TO THE FIRE TEST
		INDICATED. NO SUBSTITUTIONS OF MATERIALS OR DEVIATIONS FROM
		STUDS MAY BE USED, AND SOLIND ATTENUATION BLANKETS MAY BE ADDED, AS
		PERMITTED BY THE APPLICABLE FIRE TEST.
	15.	LOCATE STUDS SO AS NOT TO CONFLICT WITH FLUSH-MOUNTED ITEMS SUCH
		AS FIRE HOSE CABINETS, TOILET ACCESSORIES, AND SIMILAR ITEMS. PROVIDE
		BLOCKING, METAL SUPPORT STRAPS OR OTHER HARDWARE CAPABLE OF
	10	SUPPORTING THE LOAD SAFELY.
	16.	WHERE SPACE IS TOO TIGHT TO ALLOW STUDS TO BYPASS STRUCTURAL
		ELEMENTS SUCH AS COLUMINS ON STRUCTURAL BRACING, CONFIGURE
		WALLBOARD TO BYPASS THE INTERRUPTION. PROVIDE ADDITIONAL SUPPORT
		IF THE STUD OR TRACK SPACING EXCEEDS 16 INCHES.
	17.	WHERE A FIRE RATING IS INDICATED FOR AN EXISTING WALL OR FLOOR/CEILIN
		ASSBMBLY, FIRESTOP ALL PENETRATIONS (EXISTING AND NEW WITHIN THE
	40	DEFINED SCOPE OF WORK) PER THE WALL RATING REQUIREMENT.
	18.	CLOSE OFF AND PATCH OPENINGS AND VOIDS LEFT BY THE REMOVAL OF
		EXISTING CONSTRUCTION, EQUIPMENT, FIFING, DUCTS, ELECTRICAL DEVICES, ETC. TO MAINTAIN REQUIRED FIRE RATING IN A RATED ASSEMBLY PREPARE
		PATCHED AREAS TO RECEIVE NEW FINISHES TO MATCH EXISTING ADJACENT
		FINISHES.
	19.	WHERE GWB CONTROL JOINTS ARE NEEDED TO COMPLY WITH SPECIFIED
		REQUIREMENTS, LOCATE JOINT AT HINGE SIDE OF NEAREST DOOR AND ALIGN
		WITH THE INSIDE EDGE OF DOOR FRAME. WHERE CONFLICTS ARISE OR NO
		DOOKS ARE WITHIN SPECIFIED LIMITS, REQUEST LOCATION OF CONTROL JOIN
	20	
	20.	AND ACCESSORIES. COORDINATE SPECIFIC PLACEMENT OF BLOCKING WITH
	1	

GENERAL PLAN NOTES

DIMENSIONS SHOWN ARE TO FACE OF FINISHED GYPSUM BOARD.

PRIOR TO THE START OF NEW CONSTRUCTION.

CONDITIONS AND DRAWINGS.

- EQUIPMENT AND ACCESSORIES REQUIREMENTS. 21. PROTECT OPENINGS FOR ITEMS RECESSED INTO RATED PARTITIONS (SUCH AS OUTLET BOXES, PANEL BOXES, ETC.) WITH BACK-UP MATERIALS SO AS TO RETAIN THE INTEGRITY OF THE PARTITION RATING. 22. FIRESTOP PENETRATIONS IN FIRE RATED AND SMOKE PARTITIONS. IN NON-FIRE-RATED AND SMOKE PARTITIONS, SEAL PENETRATIONS WITH AN
- ACOUSTICAL SEALANT AND FILL WITH SOUND ATTENUATION BLANKETS. 23. REVIEW EXISTING WALLS TO REMAIN THAT ARE FIRE-RATED OR SMOKE-TIGHT, AND NOTIFY THE A/E TEAM OF ANY PENETRATIONS WITHOUT APPROPRIATE CLOSURE ASSEMBLIES OR DUCTS WITHOUT FIRE/SMOKE DAMPERS. 24. REPAIR SPRAY-ON FIREPROOFING DAMAGED DURING CONSTRUCTION. 25. CONFIRM EACH LOCATION FOR WALL MOUNTED ITEMS INCLUDING, BUT NOT
- 25. CONTINUE LACT LOCATION FOR WALL MOONTED THEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, ACCESSORIES, OUTLETS, CALL BUTTONS, ETC. WITH THE OWNER PRIOR TO INSTALLATION.
 26. COORDINATE WITH M&E REQUIREMENTS FOR CONDITIONS THAT WILL DISTURB EXISTING CONDITIONS AND WHICH WILL REQUIRE SELECTIVE DEMOLITION, OUTTING AND DATE WITH A AND FINISHING OUTSIDE OF THAT SHOWN ON THE CUTTING AND PATCHING, AND FINISHING OUTSIDE OF THAT SHOWN ON THE
- DRAWINGS. 27. PATCH EXISTING CONCRETE FLOOR SLAB AS NECESSARY TO PRODUCE A FLAT, LEVEL SURFACE FOR APPLICATIONS OF NEW FINISHES. WHERE GAPS IN SURFACE EXIST FOLLOWING REMOVAL OF PARTITIONS OR OTHER CONSTRUCTION, FILL WITH MATERIAL COMPATIBLE WITH EXISTING SLAB. CUT OUT AREAS TOO DAMAGED TO PROVIDE SMOOTH FINISH SUBSTRATE AND REPLACE WITH NEW CONSTRUCTION. PREPARE SLAB SURFACE TO RECEIVE
- NEW FINISHES: CONCRETE SLABS SHALL BE CLEAN, DRY, FREE OF CRACKS, MOISTURE, OIL, GREASE, DIRT AND ANY FOREIGN MATERIALS. 28. WHERE PATCHING OR RESURFACING OF EXISTING FLOOR IS REQUIRED, SLOPING OR RAMPING SHALL NOT EXCEED 1/8 INCH PER FOOT.

ΚΕΥΝΟΤΕς ΡΙ ΔΝ

P1	ALIGN FACE OF PARTITION WITH FACE OF EXISTING PARTITION
P2	REPLACE EXISTING INTERIOR WINDOW GLAZING WITH LEXAN/ POLYCARBONATE TO BE SURFACE MOUNTED ON EXISTING FRAME
P4	SLOPE RESINOUS POURED FLOORING TO FLOOR DRAINS.
P5	COORDINATE LOCATIONS OF THROUGH WALL TRANSFER GRILLS WIT MEP AND ELEVATIONS
P6	FURR OUT EXISTING PARTITION TO PROVIDE LEVEL SURFACE
P8	REMOVE EXISTING DOOR HARDWARE AND SEAL DOOR SHUT
P9	FIELD COORDINATE ELEVATION OF INTERIOR WITH EXTERIOR GRADE REPLACEMENT DOOR TO BE LOCATED IN EXISTING WINDOW OPENING MAINTAIN EXISTING BUILDING WRAP AND VAPOR BARIER. PROVIDE THRESHOLD AT DOOR SILL TO SPAN THICKNESS OF EXISTING EXTER PARTITION.
P10	PATCH AND REPAIR EXISTING CLOSET DOORS TO PROVIDE LOCKING MECHANISM
P11	COORDINATE INSTALLATION OF PLUMBING FIXTURES WITH ETR PLUM ROUGH-IN
P12	WALL MOUNTED AV MONITOR. COORDINATE LOCATIONS OF POWER, AND IN WALL BLOCKING WITH END USER
P13	OVERHEAD COILING DOOR TO BE SURFACE MOUNTED TO ETR CMU PARTITION. TRACK TO BE SURFACE MOUNTED TO EXISTING CMU.
P14	COORDINATE LOCATION OF MILLWORK WITH EXISTING AIR INTAKE DU AND MECHANICAL SCOPE OF WORK.
P15	COORDINATE LOCATION OF OPENING WITH EXISTING CMU MASONRY COURSING TO MINIMIZE CUTS TO EXISTING CMU. PROVIDE CMU LINTE PROPOSED OPENING
P16	REFER TO CONSTRUCTION ALTERNATES FOR SCOPE OF WORK ASSOCIATED WITH SPACE
P17	CONCRETE SLAB/ PAD ON GRADE FOR EXTERIOR ACCESS. COORIDN/ INSTALLATION OF FENCING FOR SECURITY WITH FENCING MFG/ INSTALLER
P18	INSTALL HORIZONTAL LOUVER BLINDS. COORDINATE DIMENSION WIT VIEW WINDOW/ WINDOW OPENING
P19	PATCH AND REPAIR EXISTING DOOR FRAME AT REMOVAL OF DOOR, HINGES AND LATCH TO PROVIDE SMOOTH METAL PANEL SURFACE
P20	WALL MOUNTED FIRE EXTINGUISHER. COORDINATE INSTALLATION W BOCC FIRE ALARM AND NOTIFICATION SYSTEM.
P21	PROVIDE TWO (2) 8" DIAMETER METAL COUNTERTOP PASS THROUGH WITH GROMMET SURROUND PER SPECIFICATION SECTION 06 40 00 TO FIELD COORDINATED IN COUNTERTOP.
P22	INSTALL OVERHEAD COILING DOOR WITH KEY-CONTROLLED AUTOMA TO SEPARTED STAFF AREA FROM RESIDENT AREA. COORIDNATE INSTALLATION ON ETR MASONRY PARTITION AND THE THROUGH WAL CONNECTIONS FOR THE KEY-CONTROL TO THE MOTOR OPERATION





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REFLECTED CEILING PLAN NOTES

- TYPICAL CEILING HEIGHT SHALL BE _______A.F.F. UNO.
 ALL BULKHEADS ARE AT ______A.F.F. UNO.
 COORDINATE CEILING WORK WITH DEMOLITION AND NEW CONSTRUCTION PLANS, INCLUDING, BUT NOT LIMITED TO MECHANICAL & ELECTRICAL WORK.
- 4. CENTER CEILING GRIDS IN ROOM OR IN THE MAJOR RECTANGULAR SPACE UNLESS SHOWN OTHERWISE. 5. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES.
- 6. REFER TO FINISH SCHEDULE FOR ACOUSTICAL PANEL TYPES AND GYPSUM BOARD CEILING FINISHES.
- LOCATE CEILING DEVICES, INCLUDING SPRINKLER HEADS, IN THE CENTER OF CEILING PANELS, UNO. FOR GYPSUM BOARD CEILINGS, LOCATE SPRINKLER HEADS IN A SYMMETRICAL PATTERN. 8. COORDINATE ALL TRADES INVOLVED IN ABOVE-CEILING WORK TO ENSURE CLEARANCE FOR FIXTURES, DUCTS, CEILING, ETC., NECESSARY TO MAINTAIN THE SPECIFIED CEILING HEIGHT ABOVE THE FINISHED FLOOR. NOTIFY

ARCHITECT OF ANY CONFLICTS.

	REFLECTED CEILING PI	AN LEGEN	ID
	2' x 4' RECESSED LIGHT		RETURN DIFFUSER
	2' x 2' RECESSED LIGHT		EXHAUST DIFFUSER
	WALL MOUNTED LIGHT FIXTURE		SUPPLY DIFFUSER
	WALL SCONCE		LINEAR DIFFUSER
0	RECESSED DOWN LIGHT		ACCESS PANEL
Ø	RECESSED WALL WASHER		CEILING PANEL TO BE FREE OF ALL DEVICES
D	DOME LIGHT		WINDOW SHADE
D	ZONE DOME LIGHT		CAMERA
⊗	EXIT SIGNS	\downarrow	2' x 2' CEILING GRID
	CUBICLE CURTAIN TRACK		GWB CEILING
			CEILING HEIGHT TAG

	KEYNOTES PLAN RCP
R1	EXISTING CEILING TO REMAIN
R2	REFER TO CONSTRUCTION ALTERNATES FOR SCOPE OF WORK WITH CEILING
R3	PATCH AND REPAIR EXISTING CEILING AS REQUIRED FOR ASSOCIATE MEP SCOPE OF WORK
R4	PATCH/ REPAIR EXISTING CEILING AT REMOVAL OF EXISTING PARTITI PROVIDE CONTINUOUS SURFACE
R5	PAINT EXISTING CEILING BULKHEAD TO UNDERSIDE OF SKYLIGHT WI PAINT AS INDICATED IN FINISH SCHEDULE
R6	EXPOSED CEILING
R7	PAINT EXISTING BULKHEAD AND PATCH/ REPAIR AT REMOVAL OF DEV
R8	REPLACE EXISTING CEILING TILE IN ETR GRID. REFER TO FINISH SCHEDULE FOR ADDITIONAL INFORMATION
R9	CEILING MOUNTED FAN
R10	BEHAVIORAL SAFE, COLOR TEMPERATURE LIGHT. COORDINATE LOCATION AT CENTER OF ROOM. REFER TO ELECTRICAL DRAWINGS.
R12	COORDINATE HEIGHT OF CEILING WITH ETR MECHANICAL DUCT







9G COMMUNAL SPACE - EAST A2.00 A7.00 1/4" = 1'-0"

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	OUTLET KEY	
☐ TE	LEPHONE OUTLET	SW
	TA OUTLET	PP PUSH PLATE
V/D VC	DICE & DATA OUTLET	CR CARD READER
DL	IPLEX OUTLET - NORMAL POWER	
DL	IPLEX OUTLET - EMERGENCY POWI	ER
	JAD OUTLET - NORMAL POWER	
	JAD OUTLET - EMERGENCY POWER	R
	IPLEX JUNCTION BOX	
	JAD JUNCTION BOX	
C C CA	BLE TELEVISION OUTLET	
	INTERIOR ELEVATIO	ON NOTES
SEE CASEW REFERENCE	ORK SCHEDULE ON SHEET FOR CA	ABINET LEGEND AND DETAIL
SEE MOUNT	ING HEIGHT SCHEDULE ON SHEET MENT MOUNTING HEIGHTS.	FOR TYPICAL DEVICE, ACCESS





				~		D	DOR			FRAME				
oor Jmber	ROOM NAME	WIDTH	HEIGHT	SINGLE/PAI	LYPE	MATERIAL	HSINI	THICKNESS	MATERIAL	HSINI	ГУРЕ	HARDWARE	REMARKS	DOOR
	COMMUNAL SPACE	3' - 0"	7' - 0"	S	A	НМ	PTD	1 3/4"	НМ	PTD	1	2	MODIFY EXISTING FRAME FOR PROPOSED DOOR/	1
	COMMUNAL SPACE	3' - 0"	7' - 0"	S	Δ	нм	PTD	1 3/4"	нм	PTD	1	2	FTR	2
		3' - 0"	7' - 0"	S	A	WD	STD	1 3/4"	HM	PTD	1	2	MODIEY EXISTING FRAME FOR PROPOSED DOOR/	3
		0 0		U	~			1 0/ 1			1.	2	HARDWARE	Ŭ
	COMMUNAL SPACE	3' - 0"	7' - 0"	S	А	WD	STD	1 3/4"	HM	PTD	1	2	MODIFY EXISTING FRAME FOR PROPOSED DOOR/ HARDWARE	4
	ACTIVITY ROOM	3' - 0"	7' - 0"	S	A	WD	STD	1 3/4"	НМ	PTD	1	5	REPLACE DOOR PANEL WITH PROTECTIVE GLAZING	5
	SENSORY ROOM	3' - 4"	7' - 0"	Р	FP	WD	STD	1 3/4"	НМ	PTD	1	6	ETR	5A
	ACTIVITY ROOM	3' - 0"	7' - 0"	S	A	НМ	PTD	1 3/4"	НМ	PTD	1	7	MODIFY EXISTING FRAME FOR PROPOSED DOOR/	6
	CLASSROOM AND SENSORY GARDEN	3' - 4"	7' - 0"	P	FP	WD	STD	1 3/4"	НМ	PTD	1	6	HARDWARE	6A
	ACTIVITY ROOM	3' - 0"	7' - 0"	S	А	НМ	PTD	1 3/4"	НМ	PTD	1	4A	ETR	7A
	ANTE ROOM	3' - 0"	7' - 0"	S	A	WD	STD	1 3/4"	НМ	PTD	4	8	COORDINATE HARDWARE AND FRAME DEPTH OF NEW DOORS IN EXISTING PARTITIONS	7B
	ANTE ROOM	3' - 4"	7' - 0"	Р	FP	WD	STD	1 3/4"	НМ	PTD	1	6	ETR	7C
	EXISTING LAUNDRY/ SUPPLY	3' - 0"	7' - 0"	S	A	НМ	PTD	1 3/4"	НМ	PTD	1	1	ETR	8
	ACTIVITY ROOM	3' - 0"	7' - 0"	S	A	НМ	PTD	1 3/4"	НМ	PTD	1	5	REPLACE DOOR PANEL WITH PROTECTIVE GLAZING	9
	SENSORY ROOM 1	3' - 4"	7' - 0"	Р	FP	WD	STD	1 3/4"	НМ	PTD	1	6	ETR	9A
	EXISTING JANITOR	3' - 0"	7' - 0"	S	A	НМ	PTD	1 3/4"	НМ	PTD	1	1	ETR	10
	SUPPLY/ STAFF WORK	3' - 0"	7' - 0"	S	A	НМ	PTD	1 3/4"	НМ	PTD	1	1	ETR	11
	SUPPLY/ STAFF WORK	3' - 4"	7' - 0"	Р	FP	WD	STD	1 3/4"	НМ	PTD	1	1	ETR	11A
	ANTE ROOM	3' - 0"	7' - 0"	S	A	НМ	PTD	1 3/4"	НМ	PTD	1	1	ETR	12
	DINING AND SECONDARY THERAPIST	3' - 0"	7' - 0"	S	A	НМ	PTD	1 3/4"	НМ	PTD	3	4	COORDINATE KEYWAY OF NEW DOORS IN NEW PARTITIONS	13A
	EXISTING SUPPLY	5' - 0"	7' - 0"	Р	FP	WD	STD	1 3/4"	НМ	PTD	1	1	ETR	13B
	STAFF WORK / MEDS SUPPLY	3' - 0"	7' - 0"	S	A	НМ	PTD	1 3/4"	НМ	PTD	2	4	COORDINATE HARDWARE AND FRAME DEPTH OF NEW DOORS IN EXISTING PARTITIONS	14A
	STAFF WORK / MEDS SUPPLY	3' - 0"	7' - 0"	S	A	НМ	PTD	1 3/4"	НМ	PTD	1	1	ETR	14B
	EXISTING STAFF TLT	3' - 0"	7' - 0"	S	A	НМ	PTD	1 3/4"	НМ	PTD	1	1	ETR	15
	ANTE	3' - 0"	7' - 0"	S	В	WD	STD	1 3/4"	НМ	PTD	2	4	COORDINATE HARDWARE AND FRAME DEPTH OF	17A
		4' 0"	7' 0"	<u> </u>	<u> </u>		OTD	1 2/4"	1.15.4		2	4	NEW DOORS IN EXISTING PARTITIONS	170
	THERAPIST	4 - 0	7 - 0	5	C		SID	1 3/4		PID	3	4	PARTITIONS	176
	ACTIVITY ROOM	4' - 0"	7' - 0"	S	С	WD	STD	1 3/4"	HM	PTD	3	4	COORDINATE KEYWAY OF NEW DOORS IN NEW PARTITIONS	18A
	ACTIVITY ROOM	4' - 0"	7' - 0"	S	С	WD	STD	1 3/4"	HM	PTD	3	4	COORDINATE KEYWAY OF NEW DOORS IN NEW PARTITIONS	18B
	ACTIVITY ROOM	3' - 0"	7' - 0"	S	A	WD	STD	1 3/4"	HM	PTD	3	4	COORDINATE KEYWAY OF NEW DOORS IN NEW PARTITIONS	19A
	ACTIVITY ROOM	3' - 0"	7' - 0"	S	A	WD	STD	1 3/4"	НМ	PTD	3	4	COORDINATE KEYWAY OF NEW DOORS IN NEW PARTITIONS	19B
	TOILET ROOM	3' - 0"	7' - 0"	S	A	HM	PTD	1 3/4"	НМ	PTD	3	3	COORDINATE KEYWAY OF NEW DOORS IN NEW PARTITIONS	20
	SHOWER ROOM	3' - 0"	7' - 0"	S	A	НМ	PTD	1 3/4"	НМ	PTD	3	3	COORDINATE KEYWAY OF NEW DOORS IN NEW PARTITIONS	21
	COMMUNAL SPACE	3' - 0"	7' - 0"	S	A	WD	STD	1 3/4"	НМ	PTD	1	1	ETR	22A
	TOILET ROOM	3' - 0"	7' - 0"	S	A	HM	PTD	1 3/4"	HM	PTD	3	3	COORDINATE KEYWAY OF NEW DOORS IN NEW PARTITIONS	23
	SHOWER ROOM	3' - 0"	7' - 0"	S	A	HM	PTD	1 3/4"	HM	PTD	3	3	COORDINATE KEYWAY OF NEW DOORS IN NEW PARTITIONS	24
	ADMIN/ FAMILY SUPPORT OFFICE	3' - 0"	7' - 0"	S	А	НМ	PTD	1 3/4"	НМ	PTD	1	1	ETR	31
	ANTE ROOM	3' - 0"	7' - 0"	S	A	НМ	PTD	1 3/4"	HM	PTD	1	1	ETR	33A
	DINING AND SECONDARY THERAPIST	3' - 0"	7' - 0"	S	A	HM	PTD	1 3/4"	НМ	PTD	1	1	ETR	33B
		<u> </u>		-	+.	1	-	1.0/48	+	-	+.	1.		

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- 1. FURNITURE & EQUIPMENT INDICATED AS OWNER FURNISHED OR INSTALLED ARE SHOWN ARE FOR REFERENCE ONLY. COORDINATE WITH THE OWNER AS TO THE
- INCLUDING POWER & DATA OUTLETS FOR ALL ITEMS REQUIRED. 2. SEE ELEVATIONS FOR ADDITIONAL EQUIPMENT/INFORMATION NOT SHOWN IN PLAN.
- SEE MOUNTING HEIGHT SCHEDULE (SHEET 9.01) FOR ADDITIONAL INFORMATION.
 PROVIDE BLOCKING FOR ALL WALL AND CEILING MOUNTED EQUIPMENT.

	EQUIPMEN	IT KEY	
ITEM	DESCRIPTION	FURNISHED BY	INSTALL BY
	BED	OWNER	OWNER
DSP-01	SOAP DISPENSER	OWNER	CONTRACT
DSP-02	PAPER TOWEL DISPENSER	OWNER	CONTRACT
DSP-03	HAND SANITIZER	OWNER	CONTRACT
DSP-08	TOILET PAPER LARGE ROLL	OWNER	CONTRACT
EQP-04	TRASH, 23 GALLON,	OWNER	OWNER
EQP-05	SHARPS ENCLOSURE	OWNER	CONTRACT
EQP-08	GLOVES DISPENSER	OWNER	CONTRACT
GB-1	SECURITY GRAB BAR- 42"	CONTRACTOR	CONTRACT
GB-2	SECURITY GRAB BAR - 36"	CONTRACTOR	CONTRACT
IT-05	TELEVISION, 26"	OWNER	CONTRACT
MR-01	MIRROR	CONTRACTOR	CONTRACT
OVN-01	MICROWAVE	OWNER	OWNER
PHN-01	WALL MOUNTED TELEPHONE	OWNER	CONTRACT
REF-01	REFRIGERATOR	OWNER	CONTRACT
SHF-1	RECESSED RESIDENT SAFE SHELF	CONTRACTOR	CONTRACT
TBL-01	OVERBED TABLE	OWNER	OWNER

				FINISH LEGEND		
TYPE FLOOR	CODE	MATERIAL	MANUFACTURER	PRODUCT	COLOR	REMARKS
	LVT-1	LUXURY VINYL TILE	MANNINGTON COMMERCIAL	AMTICO SIGNATURE; 9"x48" PLANK	SUGAR MAPLE AROW8020	INSTALL: RANDOM STAGGER
	RES-1	RESINOUS POURED FLOORING	STONHARD	STONTEC UTF	SMOKE MOUNTAINS - SMALL	
	RSF-1	RESILIENT SHEET FLOORING	ALTRO FLOORING	OPERETTA; 6'-7" ROLL; 2.0mm	IRIS OP-2174U	HEAT WELD ALL SEAMS
	RSF-2	RESILIENT SHEET FLOORING	ALTRO FLOORING	OPERETTA; 6'-7" ROLL; 2.0mm	HURDY GURDY OP-2173U	HEAT WELD ALL SEAMS
	SVT-1	SOLID VINYL TILE	AMERICAN BILTRITE	TEXAS GRANITE; 3MM, 36" SQUARE TILES	WHITE/BLUE VTG-90	HEAT WELD ALL SEAMS
	SVT-2		AMERICAN BILTRITE	TEXAS GRANITE; 3MM, 36" SQUARE TILES	SKY BLUE VTG-93	HEAT WELD ALL SEAMS
	SVT-3		AMERICAN BILTRITE	TEXAS GRANITE; 3MM, 36" SQUARE	HERB VTG-80	
	SVT-4		AMERICAN BILTRITE	TEXAS GRANITE; 3MM, 36" SQUARE	ANDROS BLUE VTG-94	
	SVT-5	SOLID VINYL TILE	AMERICAN BILTRITE	TEXAS GRANITE; 3MM, 36" SQUARE TILES	AMBER VTG-77	HEAT WELD ALL SEAMS
	TCF-1	TEXTILE COMPOSITE FLOORING	J+J FLOORING	KINETEX; SOUNDTRACK; 18"x36" MODULAR TILE	STEREO 3025	INSTALL: ASHLAR
	WOM-1	WALK OFF MAT	MANNINGTON COMMERCIAL	FRIXTION; INERTIA 18"x36" MODULAR TILE	STATIC 34365	INSTALL: MONOLITHIC
BASE						
	B-1	RESILIENT BASE	TARKETT	TRADITIONAL THERMOPLASTIC RUBBER COVE BASE, 4" HIGH	PEBBLE 32	
	B-2 IB-1	RESILIENT BASE	CUSTOM STONHARD	CUSTOM STONTEC UTF	TBD TO MATCH ADJACENT MATERIAL	SEE FINISH DETAIL FOR INFORMATION PROVIDE 6" INTEGRAL COVE BASE; SEE FINISH DETAILS
	IB-2	INTEGRAL BASE	ALTRO FLOORING	OPERETTA; 6'-7" ROLL; 2.0mm	TO MATCH ADJACENT MATERIAL	PROVIDE 6" INTEGRAL COVE BASE; SEE FINISH DETAILS
WALLS	AWP-1	ACOUSTIC WALL PANEL	NATIONAL SOLUTIONS	LEVEL DIGITAL WALLCOVERING; SUBSTRATE - ACOUSTIC FELT	PIXEL (WITH CUSTOM COLORS TO MATCH PAINT COLORS P-1,2,3,4,5,7)	DIGITAL IMAGE PRINTED ONTO ACOUSTICAL WALLCOVERING MATERIAL
	P-1	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	CREAMY SW7012	WHERE THE EP PREFIX IS INDICATED IN THE FINISH LEGEND, PROVIDE EPOXY PAINT
	P-2	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	LIQUID BLUE SW6779	WHERE THE EP PREFIX IS INDICATED IN THE FINISH LEGEND, PROVIDE EPOXY PAINT
	P-3	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	JACARANDA SW6802	WHERE THE EP PREFIX IS INDICATED IN THE FINISH LEGEND, PROVIDE EPOXY PAINT
	P-4	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	LIME RICKEY SW6717	WHERE THE EP PREFIX IS INDICATED IN THE FINISH LEGEND, PROVIDE EPOXY PAINT
	P-5	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	RIVULET SW6760	WHERE THE EP PREFIX IS INDICATED IN THE FINISH LEGEND, PROVIDE EPOXY PAINT
	P-6	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	DAFFODIL SW6901	WHERE THE EP PREFIX IS INDICATED IN THE FINISH LEGEND, PROVIDE EPOXY PAINT
	P-7	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	SUMMER DAY SW6662	WHERE THE EP PREFIX IS INDICATED IN THE FINISH LEGEND, PROVIDE EPOXY PAINT
	P-8	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	SILVERPLATE SW7649	WHERE THE EP PREFIX IS INDICATED IN THE FINISH LEGEND, PROVIDE EPOXY PAINT
	P-9	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	OPEN SEAS SW6500	WHERE THE EP PREFIX IS INDICATED IN THE FINISH LEGEND, PROVIDE EPOXY PAINT
	P-10	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	RECYCLED GLASS SW7747	WHERE THE EP PREFIX IS INDICATED IN THE FINISH LEGEND, PROVIDE EPOXY PAINT
	P-11	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	MOODY BLUE SW6221	WHERE THE EP PREFIX IS INDICATED IN THE FINISH LEGEND, PROVIDE EPOXY PAINT
	PT-1	PORCELAIN TILE	CROSSVILLE, INC.	SHADES 2.0; 12x24 TILE	VAPOR SHD42	SEE FINISH DETAILS FOR TRANSITION FROM TILE TO BASE
CEILING						
	ACP-1	ACOUSTICAL CEILING PANEL	ARMSTRONG	CALLA; 24"x24" SQUARE LAY-IN ACOUSTIC PANELS	WHITE	COORDINATE WITH PRELUDE XL 15/16" GRID IN WHITE
	GWB-1	GYPSUM WALL BOARD - PAINTED	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	CEILING BRIGHT WHITE SW7007	PROVIDE FLAT FINISH
DOOR FRAME	PS	PAINT - SEMI-GLOSS	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	TO MATCH ADJACENT WALL	PROVIDE SEMI-GLOSS FINISH
MISC						
	PL-1	PLASTIC LAMINATE	WILSONART	HIGH PRESSURE LAMINATE; HIGH WEAR	RAW CHESTNUT SW7975; HIGH WEAR FINISH	GRAIN TO RUN VERTICAL ON MILLWORK
	SSM-1	SOLID SURFACE MATERIAL	DUPONT	CORIAN	CAMEO WHITE	
	SSM-2	SOLID SURFACE MATERIAL	DUPONT	CORIAN	ASH CONCRETE	

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					ROOM FIN	NISH SCHEDUL	E		
ROOM					MILLW	ORK			
NUMBER	ROOM NAME	FLOOR	BASE	WALL FINISH	HORIZONTAL	VERTICAL	CEILING	MISCELLANEOUS	REMARKS
1	RESIDENT ROOM	RSF-1, 2	B-2	EP-8, 11	-	-	GWB-1		
2	RESIDENT ROOM	RSF-1, 2	B-2	EP-8, 11	-	-	GWB-1		
3	RESIDENT ROOM	RSF-1, 2	B-2	EP-8, 11	-	-	GWB-1		
4	RESIDENT ROOM	RSF-1, 2	B-2	EP-8, 11	-	-	GWB-1		
5	SENSORY ROOM	TCF-1	B-1	EP-1, 8, 9, 10, 11	SSM-1	PL-1	GWB-1		SEE ELEVATIONS FOR FEATURE WALL
6	CLASSROOM AND SENSORY GARDEN	TCF-1	B-1	EP-1, 8, 9, 10, 11	SSM-1	PL-1	ACP-1		SEE ELEVATIONS FOR FEATURE WALL
7	ANTE ROOM	WOM-1	B-1	P-1	PL-1	PL-1	ACP-1		
8	EXISTING LAUNDRY/ SUPPLY	SVT-1	B-1	P-1	-	-	ACP-1		
9	SENSORY ROOM 1	TCF-1	B-1	EP-1, 8, 9, 10, 11	SSM-1	PL-1	GWB-1		SEE ELEVATIONS FOR FEATURE WALL
10	EXISTING JANITOR	RES-1	IB-1	EP-1	-	-	ACP-1		
11	SUPPLY/ STAFF WORK	SVT-1	B-1	P-1	-	-	ACP-1		
12	INTAKE/ CONSULT AND EVALUATION	TCF-1	B-1	P-8, 9	SSM-2	PL-1	ACP-1		
13	STAFF WORK ROOM	SVT-1	B-1	P-1, 11	SSM-2	PL-1	GWB-1		
14	STAFF WORK / MEDS SUPPLY	SVT-1	B-1	P-1	SSM-2	PL-1	ACP-1		
15	EXISTING STAFF TLT	RSF-1	IB-2	PT-1	-	-	ACP-1		
16	EXISTING SUPPLY	SVT-1	B-1	P-1	-	-	ACP-1		
17	DINING AND SECONDARY THERAPIST	LVT-1	B-1	EP-1,2,3,4,5,6,7	-	-	ACP-1		SEE ELEVATIONS FOR FEATURE WALL
18	COMMUNAL SPACE	SVT-1, 2, 3, 4, 5	B-1	EP-1,3, AWP-1	SSM-1	PL-1	GWB-1, ACP-1		PROVIDE AWP ON DRYWALL AREA ABOVE DOORS
19	ACTIVITY ROOM	LVT-1	B-1	EP-1,3, AWP-1	SSM-1	PL-1	GWB-1, ACP-1		PROVIDE AWP ON DRYWALL AREA ABOVE DOORS
20	TOILET ROOM	RES-1	IB-1	PT-1	-	-	GWB-1		
21	SHOWER ROOM	RES-1	IB-1	PT-1	-	-	GWB-1		
22	ANTE	RES-1	IB-1	P-1, 3	SSM-1	PL-1	GWB-1		
23	TOILET ROOM	RES-1	IB-1	PT-1	-	-	GWB-1		
24	SHOWER ROOM	RES-1	IB-1	PT-1	-	-	GWB-1		
25	SINK/ WASHING	SVT-1	B-1	P-1, 3	SSM-1	PL-1	GWB-1		
31	ADMIN/ FAMILY SUPPORT OFFICE	TCF-1	B-1	P-1, 2	-	-	ACP-1		
32	KITCHENETTE	SVT-1	B-1	P-1	SSM-2	PL-1	ACP-1		
33	ANTE ROOM	SVT-1	B-1	P-1	-	-	GWB-1		
34	EXIST. MECHANICAL								

 8
 RESILIENT BASE DETAIL

 ID0.00
 6" = 1'-0"

5 RESINOU

ID0.00 6" = 1'-0"

TR INDICAT TRANS

REFER 1 NOTE: 1. CUT T 2. THRES VISIBLE 1 ID0.00 12" = 1'-0"

E

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Ιн

4 INTEGRAL SHEET COVE BASE - BUTTERFLY CORNER SEAMING DIAGRAM

5 RESINOUS FLOORING BASE DETAIL

REFER TO FLOOR TRANSITION NOTES FOR SPECIFIC TRANSITION USED

1. CUT TRANSITION STRIP SQUARE AND PLUMB WITH ADJACENT DOOR FRAME 2. THRESHOLD SHALL BE LOCATED UNDER THE DOOR WHERE THE THRESHOLD IS NOT VISIBLE OUTSIDE THE ROOM WHEN THE DOOR IS CLOSED.

1 TR-1 - TEXTILE COMPOSITE FLOOR TO RESILIENT FLOOR

ROOM FINISH GENERAL NOTES

- A. REFER TO FINISH LEGEND AND RESPECTIVE SPECIFICATION SECTIONS FOR DETAILED INFORMATION ON SELECTED FINISH MATERIALS.
- B. REFER TO FINISH PLANS FOR EXTENT AND LOCATIONS OF PAINT COLORS, WHERE MULTIPLE COLORS ARE INDICATED.
 C. REFER TO FINISH PLANS FOR EXTENT AND LOCATION OF FLOORING TYPES, WHERE MULTIPLE TYPES ARE INDICATED.
 D. REFER TO ELEVATIONS AND ENLARGED PLANS FOR ADDITIONAL FINISH
- INFORMATION.
 E. ALL WALLS NOT NOTED WITH A FINISH ARE TO BE PAINTED P-1, UNLESS OTHERWISE NOTED IN FINISH SCHEDULE.
- F. WALLS TO RECEIVE EGGSHELL SHEEN, UNLESS OTHERWISE NOTED.
 G. ALL HOLLOW METAL FRAMES AND HOLLOW METAL DOORS, WHERE SCHEDULED, TO BE PAINTED TO MATCH ADJACENT WALL COLOR IN A SEMI-GLOSS SHEEN, UNLESS OTHERWISE NOTED.
 H. FLOOR MATERIAL INDICATED GRAPHICALLY ONLY IN ROOMS WHERE PATTERN IS
- I. ALL SHEET FLOORING AND SOLID VINYL TILES SHALL HAVE HEAT WELDED SEAMS. MATCH WELD ROD TO FLOORING MATERIAL COLOR, UNLESS
- OTHERWISE NOTED. J. INSTALL SHEET FLOORING, WHERE SPECIFIED, SO THAT SEAMING IS MINIMIZED. PROVIDE SEAMING DIAGRAM TO ARCHITECT PRIOR TO INSTALLATION.
- K. MILLWORK SHOWN FOR REFERENCE PURPOSES. COORDINATE FLOORING INSTALLATION WITH MILLWORK INSTALLATION.
- ALL BULKHEADS TO RECEIVE FLAT FINISH PAINT.
 MILLWORK:

 a. MATERIALS SPECIFIED UNDER HORIZONTAL HEADING REFERS TO
- WORKSRUFACES, COUNTERTOPS, TRANSACTION TOPS, AND CLOSET SHELVING.
- MATERIALS SPECIFIED UNDER VERTICAL HEADING REFERES TO THE FINISH OF BASE CABINETS, WALL CABINETS, FULL HEIGHT CABINETS, AND OPEN WALL SHELVING.
- N. ALL INTEGRAL SOLID SURFACE BOWLS TO HAVE A FINISH OF SSM-1.
 O. PRIOR TO INSTALLATION OF ALL FINISHES CONFIRM APPROVAL WITH OWNER'S REPRESENTATIVE.

С

D

В

K

<u>M</u>	CHANICAL SYMBOL LIST
SYMBOL	DESCRIPTION
↓ D	DUCT DROP
R	DUCT RISE
$\mathbb{O}^{\mathbb{P}^{\mathbb{N}}}$	MOTOR OPERATED DAMPER
	SUPPLY AIR DEVICE. ARROWS INDICATE DIRECTION O AIRFLOW
	MANUAL VOLUME DAMPER - M.V.D.
	SMOKE DAMPER, S.D.
F.D.	FIRE DAMPER, F.D.
F.D. /S.D.	COMBINATION FIRE/ SMOKE DAMPER
	CONICAL TEE
	BRANCH DUCT WITH 45 CLINCH COLLAR CONNECTION
	RECTANGULAR TURN W/ TURNING VANES
	FLEXIBLE ROUND DUCT
	RIGID ROUND DUCT
(Ţ)	THERMOSTAT
EF	EXHAUST FAN
AHU	AIR HANDLING UNIT
CFM	CUBIC FEET PER MINUTE
EA	EXHAUST AIR
OA	OUTSIDE AIR
OED	OPEN END DUCT
RA	RETURN AIR
AFF	ABOVE FINISHED FLOOR
M1	PLAN NOTE REFERENCE SYMBOL
•	CONNECT TO EXISITNG
	LINE/DUCT BREAK
AKEA STA	
LETTER REPRES MANUFACTURI	ENTS
MODEL NO	
AREA ST	ATES CFM ———————————————————————————————————
	AIR DEVICE DESIGNATION
	STATES TYPE OF SYSTEM
<hr/>	
\	
	SCHEDULE
MEC	HANICAL EQUIPMENT DESIGNATION

<u>Key plan - Area of Work</u> NO SCALE

Table 1:	Summary Calculation Used to Deter	rmine Outdoor Air Ventilatio	n Rates - N	/lechanicall	y Ventilato	ed									
Referen	ce - 2018 IMC														
Board	l of Child Care Sub-Acute	Care Unit													
Zone Identification 2018 International Mechanical Code Compliance															
Room No.	Room Name	Occupancy Category	Area (sf)	People Outdoor Air Rate (cfm/ person)	Area Outdoor Air Rate (cfm/sf)	Occupant Load rate per Table 403.3 (#/1000sf)	Number of Occupants (#)	Breathing Zone Outdoor Air Flow Vbz (CFM)	Table 403.3.1.2 Zone Air Distribution Effectiveness Ez	Zone Outdoor Air Flow Voz (CFM)	Zone Primary Air Flow Vpz (CFM)	Primary Outdoor Air Fraction Zp=Voz/ Vpz	Actual Primary Outdoor Air Fraction	Actual Zone Outdoor Air Flow Rate (CFM)	Meets Standard?
	AHU-1														
12	Intake/Consult/Evaluation	Office Space	145	5.00	0.06	5.00	2	19	0.8	23	165	0.14	0.24	40	Y
13	Staff Work Room	Office Space	168	5.00	0.06	5.00	1	15	0.8	19	185	0.10	0.24	44	<u> </u>
14	Staff Work / Meds Supply	Office Space	155	5.00	0.06	5.00	1	14	0.8	18	180	0.10	0.24	43	Y
31	Admin / Family Support Office	85	5.00	0.06	50.00	5	30	0.8	38	170	0.22	0.24	41	Y	
32	Kitchenette	Coffee Station	69	5.00	0.06	20.00	2	14	0.8	18	80	0.22	0.24	19	Y
17	Dining and Secondary Therapist	Dining Room	507	7.50	0.18	70.00	8	151	0.8	189	800	0.24	0.24	192	Y
1	Resident Room	dormitory sleeping area	95	5.00	0.06	20.00	1	11	0.8	13	120	0.11	0.24	29	Y
2	Resident Room	dormitory sleeping area	95	5.00	0.06	20.00	1	11	0.8	13	120	0.11	0.24	29	Y
3	Resident Room	dormitory sleeping area	95	5.00	0.06	20.00	1	11	0.8	13	120	0.11	0.24	29	Y
4	Resident Room	dormitory sleeping area	95	5.00	0.06	20.00	1	11	0.8	13	130	0.10	0.24	31	Y
9	Sensory Room 1	Office Space	96	5.00	0.06	5.00	1	11	0.8	13	130	0.10	0.24	31	Y
5	Sensory Room 2	Office SPace	96	5.00	0.06	5.00	1	11	0.8	13	130	0.10	0.24	31	Y
6	Classroom and Senory Garden	Classroom	207	5.00	0.12	25.00	6	55	0.8	69	300	0.23	0.24	72	Y
11	Supply / Staff Work	Office Space	94	5.00	0.06	5.00	1	11	0.8	13	110	0.12	0.24	26	Y
19	Activity Room	Day Room	422	5.00	0.06	30.00	6	55	0.8	69	560	0.12	0.24	134	Y
18	Communal Space	Day Room	542	5.00	0.06	30.00	6	63	0.8	78	700	0.11	0.24	168	Y
											4000			960	
											4000			005	
Notes:															

GENERAL REQUIREMENTS

1. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS OF THIS PROJECT.

2. <u>BID PHASE:</u>

IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DOCUMENTS TO INCLUDE PLANS AND SPECIFICATIONS FOR THE ARCHITECTURAL AND OTHER WORK UNDER OTHER DIVISIONS THAT CAN AFFECT THE WORK OF THIS DIVISION. THE CONTRACTOR SHALL ISSUE A FORMAL REQUEST FOR INFORMATION FOR CLARIFICATIONS OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO FINAL BID SUBMISSION.

3. PRE-CONSTRUCTION:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL REVISED DOCUMENTS TO INCLUDE ARCHITECTURAL PLANS AND WORK UNDER OTHER DIVISIONS THAT CAN AFFECT THE WORK OF THIS DIVISION. THIS INCLUDES REVIEW OF ALL ADDENDUMS, REVISIONS AND SHOP DRAWINGS THAT AFFECT THE WORK OF THIS DIVISION. THE CONTRACTOR SHALL NOTIFY THE A/E TEAM OF ANY DISCREPANCIES PRIOR TO FINAL ROUGH-IN.

	MECHANICAL DRAWING LIST												
No.	No. Sheet No. Sheet Title												
1	M001	COVER SHEET MECHANICAL											
2	M002	FLOOR PLAN - DEMOLITION											
3	M101	FLOOR PLAN - MECHANICAL											
4	M201	BOILER ROOM PART PLANS											
5	M301	MECHANICAL SCHEDULES AND SPECIFICATIONS											
6													
7													
8													
9													
10													

PLAN NOTES

A EXISTING BATHROOM FAN TO BE REMOVED INCLUDING DUCT, CEILING GRILLE AND POWER/CONTROLS
B EXISTING RADON VENT AND FAN TO REMAIN
C EXISTING DRYER VENT TO REMAIN
D EXISTING AIR HANDLER TO BE REPLACED
E EXISTING RETURN AIR DUCT, RUN UNDER THE AIR HANDLER, TO REMAIN
F EXISTING SUPPLY AIR DUCTWORK ABOVE CEILING TO REMAIN.
G EXISTING TRANSFER DUCT AND GRILLES (2 PER ROOM) TO REMAIN
H EXISTING SIDEWALL SUPPLY REGISTER TO REMAIN
EXISTING RETURN GRILLE IN CEILING AND CONNECTED TO RETURN DUCT ABOVE TO REMAIN
J EXISTING BATHROOM FAN TO REMAIN
K REMOVE EXISTING AIR DEVICE. DUCT IS TO REMAIN.
L REMOVE EXISTING RETURN GRILLE IN CEILING. PATCH THE CEILING.

FLOOR PLA	N - MECHANICAL
SCALE: $1/4'' = 1'-0'$	° • • • • • • • • • • • • • • • • • • •

	PLAN NOTES
1	5" Ø EXHAUST DUCT UP THROUGH ROOF. TERMINATE WITH ROOF VENTILATOR
2	10"X10" DOOR TRANSFER GRILLE, BOTTOM OF GRILLE 6" AFF
3	EXISTING CEILING FAN TO REMAIN
4	10"X10" EXHAUST DUCT UP TO NEW ROOF MOUNTED FAN. FAN MUST BE SET MINIMUM 10 FT FROM ROOF EDGE. SEE EQUIPMENT SCHEDULE
5	SEE ¼ SCALE PLAN FOR WORK IN THIS ROOM
6	EXISTING AIR DEVICE TO REMAIN. BALANCE AIRFLOW TO THAT INDICATED ON THE PLAN
7	EXISTING RETURN GRILLE TO REMAIN
8	SEAL METAL DUCT TO CEILING. INSTALL NEW AIR DEVICE CENTERED OVER THE DUCT AND BALANCE TO THE AIRFLOW INDICATED
9	EXISTING DRYER VENT
10	EXISTING RADON VENT AND FAN
11	REMOVE A FULL BLOCK FROM THE WALL ABOVE THE CEILING CREATING A TRANSFER BETWEEN THE CORE AND SPACE ABOVE THE BATHROOM
12	RETURN AIR PLENUM ON BACKSIDE OF THREE (3) SECURITY GRADE TRANSFER GRILLES. EXTEND 16"Ø FLEXIBLE RETURN DUCT THROUGH ROOF TRUSS AND DOWN TO CEILING GRILLES AS SHOWN.
13	INSULATE DUCT WITH RIGID PRE-FORMED DUCT INSULATION WITH PVC OUTER JACKET.

GENERAL NOTES

- 1. EXISTING DUCTWORK LAYOUT IS BASED ON FIELD SURVEY WITH LIMITED ACCESS TO EXAMINE THE DUCT. THE LAYOUT IS BASED ON ASSUMPTIONS MADE OF THE LIMITED ACCESS AND LOCATION OF CEILING MOUNTED AIR DEVICES. EXISTING DUCT SIZES AND LOCATIONS MUST BE FIELD VERIFIED BY THE CONTRACTOR DURING CONSTRUCTION. NEW DUCT AND AIR DEVICES SHOULD NOT BE FABRICATED OR PROCURED UNTIL EXISTING CONDITIONS ARE VERIFIED.
- 2. EXISTING SPLIT SYSTEM IS TO BE REPLACED WITH A NEW HEAT PUMP SYSTEM WITH AUXILIARY HEAT. UNIT SHALL RUN YEAR ROUND TO DELIVER CONDITIONED VENTILATION AIR TO ALL OCCUPIED SPACES
- 3. EXISTING RADIANT FLOOR HEATING SYSTEM SHALL REMAIN AND BE REUSED. CONTRACTOR TO ASSESS CONDITION OF THE CONTROLS AND MAKE THEM FUNCTIONAL IF NOT ALREADY.

B

C

D

PROGRESS ISSUE XX/XX2022

BOILER PIPING SCHEMATIC NO SCALE

Mark	Manufacturer Model No.
AHU-1	Trane TWE12043BA

MECHANICAL SPECIFICATIONS

- 1. Furnish and install a complete and operational system in accordance with drawings and these specifications. Provide all materials whether specified or not for a complete and operational system that complies with all required codes and standards. All materials and equipment shall be installed in accordance with the manufacturer's instructions and all applicable codes and standards. Equipment shall be installed complete including power, controls, supports, etc. Equipment and associated controls shall be functionally tested in all operating modes. All equipment and materials shall be new unless otherwise indicated.
- 2. The contractor shall be responsible for visiting the site prior to bid and becoming familiar with all existing conditions that may affect his work. The contractor shall include in his bid any required labor and materials necessary to modify, remove or relocate existing work to allow for the new work to be installed. If the contactor believes the new work cannot be installed as shown in the drawings, he shall inform the project construction manager immediately. There shall be no additional compensation for failure to include coordination with existing conditions in the scope and cost.
- 3. All work shall be done in accordance with applicable building, mechanical, plumbing, electrical and energy codes and standards. These include, but are not limited to the 2018 International Building Code (IBC), International Mechanical Code (IMC), International Plumbing Code (IPC), International Fuel Gas Code (IFGC), National Fire Protection Association (NFPA), American Society of Refrigeration and Air Conditioning Engineers (ASHRAE), Sheet Metal and Air Conditioning Contractors National Association (SMACNA), National Electrical Code. If any existing code violations are found, the contractor shall notify the project manager immediately.
- 4. The contractor shall maintain a competent superintendent on site at all times who will oversee all work and ensure the construction is done in a safe, clean and professional manner. He shall ensure the work is done in accordance with the project specifications, all layout is correct and accurate and the quality of the workmanship meets or exceed industry standards. He shall also verify all manufacturer instructions are being followed for installation and setup.
- 5. The contractor shall submit equipment shop drawings for all major equipment and materials including, but not limited to, fans, ductwork, air devices, etc. Shop drawings shall indicate materials, dimensions, weights, performance data and warranty information.
- 6. The contractor shall maintain a set of as-built documents on site at all times. The drawinas shall maintain red-line markup of all deviations from the deign documents and include pertinent information such as critical dimensions and elevations.
- 7. All new equipment and materials shall be reviewed by the contractor before ordering to ensure the equipment will fit in the given space, is suitable for the location, arrangement of duct, piping, etc, and can be serviced once installed. All required service access space shall be maintained and room shall be provided to remove filters. Verify equipment electrical characteristics meet the existing available power.
- 8. Roof mounted equipment shall be set on 14" roof curbs that are flashed into the existing roofing system. 9. New equipment shall be identified using industry standard methods indicating type of unit and sequential number such as AHU-1, 2, 3 or EF-1, 2, 3. Replacement equipment shall retain the original identification numbering. Install permanently
- engraved plastic or vinyl ID plates. Identify associated unit disconnect if not mounted directly on the unit. 10.All equipment shall be started and tested by the installing contractor. The equipment shall be tested in all modes of operation. All operating set points shall be programmed in coordination with the building operating staff. Verify all peripheral components including, but not limited to, control dampers, sensors, interlocks, etc operate as intended and specified. The contractor shall provide a one year parts and labor warranty starting from the date the project is accepted and considered substantially complete by the architect. At the time the equipment is turned over to the owner, all units shall have clean filters.
- 11.Refrigerant pipe shall be ACR copper tubing with brazed joints and fittings. Piping hall be insulated with 1" thick closed cell rubber insulation equal to Armacell. Piping exposed outside shall be wrapped with PVC jacket that is sealed water-tight with silicon caulk. Heating water supply and return piping shall be Type L copper with soldered joints and fittings. Press-fit joints and fittings may be used as an alternate. Piping shall be insulated with 1" thick preformed fiberglass insulation with ASJ. Piping shall be clearly labeled including directional flow arrows.
- 12.Ductwork shall be constructed of galvanized sheet metal fabricated and installed in accordance with the latest SMACNA standards. Ductwork shall be constructed to 2" wc working pressure and shall have a minimum thickness of 26 gage. Duct transitions and turns shall utilize fittings. Install flexible duct connectors at each connection to equipment with moving parts (ie fan coil units and exhaust fans, etc). All supply and return ductwork shall be insulated with 1.5" thick foil faced fiberglass duct-wrap with integral vapor barrier. All air devices installed in bedrooms and resident bathroom shall be ligature-resistant type.
- 13.All new or modified air and hydronic systems shall be balanced by a third-party firm certified by AABC or NEBB. Test and Balance all supply air outlets, return air inlets, exhaust air inlets and outside air intake on the affected rooftop unit as well as the kitchen hood exhaust and make—up air. All airflows shall be set to within 10% of that prescribed on the drawings. Submit to the engineer of record a Test and Balance report at the completion of the project indicating information about each rooftop units and fan, provide a static pressure profile of the rooftop units, provide duct traverse measurements of main supply ducts and tabulate the air balance for each air device.

Controls

Replace the existing AHU/ ACCU controls with new including a new programmable thermostat and new wiring. Bathroom exhaust fans shall operate continuously. Provide all new controls for the heating water system. Sequence of operations:

The AHU supply fan shall run continuously. If the space temperature falls below the heating set point the heat pump shall energize. If the space temperature falls more than 2 degrees below space temperature for an extended period of time the electric heat shall stage. If the space temperature rises above the cooling set point the DX cooling system shall energize. The split system shall have factory mounted controls to stage DX heat and cooling and electric heat. The boiler shall energize whenever the outside ai temperature falls below 60 degrees. When energized the boiler shall maintain a supply water temperature of 120 degrees. The boiler's factory installed controls shall modulate the boiler firing rate as needed based on the return water temperature. The boiler primary pump speed shall vary based on demand and is controlled through the boiler. The existing secondary pump shall run continuously whenever the boiler is called to fire. All set points shall be adjustable.

Bathroom and janitor closet fans shall run continuously.

SDI IT SVSTEM HEATDUMAD UNIT S

	Fan Coil Unit																							
				Nominal C	oil Capacity		Electric	Heat								Cool	ling Data			Heating Data	E	ectrical Da	ta	
Ind	СҒМ	E.S.P.	Fan HP	Cooling MBH	Heating @15 deg MBH	ĸw	МСА	МОР	V-P-H	Remarks	Mark	Manufacturer and Model No.	IEER	Refrigerant	Mixed Air EAT DB	Mixed Air EAT WB	Outdoor Temp	Cooling Capacity	Mixed Air EAT DB	Outdoor Heating Temp Capacity	, И V-Р-Н	МСА	МОР	Remarks
A	4000	0.7	2.00	118.26	74.62	18.7	73	80	208-3-60	Horizontally hung. Provide flexible duct connectors, heater disconnect, spring isolators, and thermostat	HP-1	Trane 12043DAA	12.2	R410A	80	67	95	10 TONS	56	15 74.62	208-3-60	41.0	50	Two-Circuit Two-Stage heat pump. Provide mounting pad for unit

TAG Manufacture B-1 LOCHINV

GAS FIRED BOILER SCHEDULE									
er & Model No.	Input (MBH)	AHRI Thermal (%)	Net AHRI Output (MBH)	EWT (°F)	LWT (°F)	VENT Outlet	VENT Inlet	V-P-H	Remarks
AR FTX400N	399	98	392	100	120	4"	4"	1 2 0-1-60	Provide boiler variable speed pump, outdoor air temperature sensor, water temperature sensor, standard controls, condensate neutralization kit

	AIR DEVICE SCHEDULE									
MARK	SYSTEM	MANULEACTURED & MODEL NO	Pomarke							
	TYPE	MANUFACTORER& MODEL NO.	nemarks							
٨	SUPPLY	Robavier Safety EG/E0 Supply/Return/Exhaust grille lighture registrat retrofit	Poplace existing air device							
~	DIFFUSER	Benavior Safety EG450 Suppry/Return/Exhaust grine - ligature-resistant retront	Neplace existing an device							
D	RETURN	TITUS 250 PL Steel Construction 25 deams defension 2/4" blade constant	Provide reusers to 16" diam round planum on tan							
D	GRILLE	Thos source, steer construction, so degree derelection, s/4 blade spacing	Provide squarre to 16 diamound plenumon op							
2	RETURN	TITUS 250 PL Steel Construction 25 deams defeloction 2/4" blads reacient								
	GRILLE	Thos source, steer construction, so degree derelection, syd-blade spacing								
D	TRANSFER	TITUS T 2001 Steel construction wight proof shares from								
D	GRILLE	Thos 1-700c steer construction, signt-proof, charmer frame								
Е	TRANSFER	TITUS SG-SD security / suicide deterrent transfer grille wtith 3/16" steel sleeve								
1. (. 15 10)	GRILLE	and perforated face								

	EXHAUST FAN SCHEDULE										
Tag	Manufacturer and Model Number	Weight	CFM	ESP	RPM	Drive type	Power	Voltage	Control	Remarks	
EF-1	Cook GC-146	2	75	0.375	900	Direct	34.5W	120-1-60	Continuous	Provide ceiling grille, backdraft damper, roof ventilator	
EF-2	Cook 90ACEH	21	200	0.375	1322	Direct	1/4 HP	120-1-60	Continuous	Provide sloped roof curb, bird screen, disconenct and speed controller	
EF-3	Cook 90ACEH	21	200	0.375	1322	Direct	1/4 HP	120-1-60	Continuous	Provide sloped roof curb, bird screen, disconenct and speed controller	

	EXPANSION TANK SCHEDULE										
TAG	Serves	Manufacturer and Model No	Tank Gallons	Acceptance Volume	Working Pressure	Construction	Dimensions	WEIGHT LBS.	Style		
ET-1	Heating Water	Bell & Gossett No HFT-30	4.4	2.5	30 psig	steel	14"x11" diam	45	Pre-Charged Diaphragm type		

В

KEY PLAN - AREA OF WORK NO SCALE

	
	GENERAL REQUIREMENTS
1. REFER	TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS OF THIS PROJECT.
2. <u>BID PH</u> IT IS T PLANS OTHER SHALL DISCRE	<u>HASE:</u> HE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DOCUMENTS TO INCLUDE AND SPECIFICATIONS FOR THE ARCHITECTURAL AND OTHER WORK UNDER DIVISIONS THAT CAN AFFECT THE WORK OF THIS DIVISION. THE CONTRACTOR ISSUE A FORMAL REQUEST FOR INFORMATION FOR CLARIFICATIONS OF ANY PANCIES IN THE DOCUMENTS PRIOR TO FINAL BID SUBMISSION.
3. <u>PRE-C</u> IT IS INCLUD AFFECT REVISIC CONTR, ROUGH	CONSTRUCTION: THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL REVISED DOCUMENTS TO E ARCHITECTURAL PLANS AND WORK UNDER OTHER DIVISIONS THAT CAN THE WORK OF THIS DIVISION. THIS INCLUDES REVIEW OF ALL ADDENDUMS ONS AND SHOP DRAWINGS THAT AFFECT THE WORK OF THIS DIVISION. THE ACTOR SHALL NOTIFY THE A/E TEAM OF ANY DISCREPANCIES PRIOR TO FINAL —IN.
	EXISTING SANITARY WORK
A. <u>EXISTIN</u>	IG SANITARY WORK:
1. CONTR CLEAN ALL EX NOT D	ACTOR SHALL VERIFY LOCATION OF EXISTING SANITARY MAINS, SIZES, AND OUTS IN THE AREA OF NEW PLUMBING WORK. HE SHALL VERIFY LOCATION OF KISTING IN SLAB RADIANT HEATING SYSTEM PIPING TO INSURE THE SYSTEM IS ISRUPTED.
2. VERIFY 3. CONTR PRIOR	LOCATION OF NEW TIE IN POINTS TO THE MAIN SANITARY AND WASTE LINES. ACTOR SHALL CONFIRM MAIN LINES ARE CLEAR OF DEBRIS AND FREE FLOWING TO TIE—IN WORK.
PLUMBING S	SYMBOLS & ABBREVIATIONS LIST
SYMBOL	DESCRIPTION
	SANITARY, S. WASTE, W.
	VENTPIPE, V. COLD WATER, CW
 120°F	VENTPIPE, V. COLD WATER, CW HOT WATER, HW
120°F 120°F	VENTPIPE, V. COLD WATER, CW HOT WATER, HW HOT WATER RECIRCULATING, HWR
120°F 120°F G	VENTPIPE, V. COLD WATER, CW HOT WATER, HW HOT WATER RECIRCULATING, HWR GAS PIPING
	VENTPIPE, V. COLD WATER, CW HOT WATER, HW HOT WATER RECIRCULATING, HWR GAS PIPING CHECK VALVE BALANCING VALVE UNION
	VENTPIPE, V. COLD WATER, CW HOT WATER, HW HOT WATER RECIRCULATING, HWR GAS PIPING CHECK VALVE BALANCING VALVE UNION PRESSURE GAUGE WITH SNUBBER STRAINER
	VENTPIPE, V. COLD WATER, CW HOT WATER, HW HOT WATER RECIRCULATING, HWR GAS PIPING CHECK VALVE BALANCING VALVE UNION PRESSURE GAUGE WITH SNUBBER STRAINER OS & Y VALVE
	VENTPIPE, V. COLD WATER, CW HOT WATER, HW HOT WATER RECIRCULATING, HWR GAS PIPING CHECK VALVE BALANCING VALVE UNION PRESSURE GAUGE WITH SNUBBER STRAINER OS & Y VALVE PIPING FLOW DIRECTION
	VENTPIPE, V. COLD WATER, CW HOT WATER, HW HOT WATER RECIRCULATING, HWR GAS PIPING CHECK VALVE BALANCING VALVE UNION PRESSURE GAUGE WITH SNUBBER STRAINER OS & Y VALVE PIPING FLOW DIRECTION FULL PORT BALL VALVE PIPE UP
	VENTPIPE, V. COLD WATER, CW HOT WATER, HW HOT WATER RECIRCULATING, HWR GAS PIPING CHECK VALVE BALANCING VALVE UNION PRESSURE GAUGE WITH SNUBBER STRAINER OS & Y VALVE PIPING FLOW DIRECTION FULL PORT BALL VALVE PIPE UP PIPE UP
	VENTPIPE, V. COLD WATER, CW HOT WATER, HW HOT WATER RECIRCULATING, HWR GAS PIPING CHECK VALVE BALANCING VALVE UNION PRESSURE GAUGE WITH SNUBBER STRAINER OS & Y VALVE PIPING FLOW DIRECTION FULL PORT BALL VALVE PIPE UP PIPE DOWN PIPE CAP
	VENTPIPE, V. COLD WATER, CW HOT WATER, HW HOT WATER RECIRCULATING, HWR GAS PIPING CHECK VALVE BALANCING VALVE BALANCING VALVE UNION PRESSURE GAUGE WITH SNUBBER STRAINER OS & Y VALVE PIPING FLOW DIRECTION FULL PORT BALL VALVE PIPE UP PIPE DOWN PIPE CAP BOTTOM CONNECTION
	VENTPIPE, V. COLD WATER, CW HOT WATER, HW HOT WATER RECIRCULATING, HWR GAS PIPING CHECK VALVE BALANCING VALVE UNION PRESSURE GAUGE WITH SNUBBER STRAINER OS & Y VALVE PIPING FLOW DIRECTION FULL PORT BALL VALVE PIPE UP PIPE DOWN PIPE CAP BOTTOM CONNECTION LINE BREAK
	VENTPIPE, V. COLD WATER, CW HOT WATER, HW HOT WATER RECIRCULATING, HWR GAS PIPING CHECK VALVE BALANCING VALVE UNION PRESSURE GAUGE WITH SNUBBER STRAINER OS & Y VALVE PIPING FLOW DIRECTION FULL PORT BALL VALVE PIPE UP PIPE DOWN PIPE CAP BOTTOM CONNECTION LINE BREAK SIAMESE CONNECTION
-120°F. -120°F. -120°F. 	VENTPIPE, V. COLD WATER, CW HOT WATER, HW HOT WATER RECIRCULATING, HWR GAS PIPING CHECK VALVE BALANCING VALVE UNION PRESSURE GAUGE WITH SNUBBER STRAINER OS & Y VALVE PIPING FLOW DIRECTION FULL PORT BALL VALVE PIPE UP PIPE DOWN PIPE CAP BOTTOM CONNECTION LINE BREAK SIAMESE CONNECTION CLEAN-OUT
	VENTPIPE, V. COLD WATER, CW HOT WATER, HW HOT WATER RECIRCULATING, HWR GAS PIPING CHECK VALVE BALANCING VALVE BALANCING VALVE UNION PRESSURE GAUGE WITH SNUBBER STRAINER OS & Y VALVE PIPING FLOW DIRECTION FULL PORT BALL VALVE PIPE UP PIPE DOWN PIPE CAP BOTTOM CONNECTION LINE BREAK SIAMESE CONNECTION CLEAN-OUT C.O. FLUSH WITH FINISHED FLOOR

——— STATES TYPE OF SYSTEM.

TYP

GPM

A

TYPICAL

GALLONS PER MINUTE

PLAN NOTE REFERENCE SYMBOL

PLUMBING EQUIPMENT DESIGNATION

- STATES NUMBER OR LETTER CORRESPONDING TO RELATED SCHEDULE.

	PLUMBING DRAWING LIST								
No.	Sheet No.	Sheet Title							
1	P0.01	COVER SHEET PLUMBING							
2	P0.02	FLOOR PLAN PLUMBING DEMOLITION							
3	P1.01	FLOOR PLAN S,W & V NEW WORK							
4	P1.02	FLOOR PLAN WATER AND GAS NEW WORK							
5	P2.01	PLUMBING DETAILS AND DIAGRAMS							
6	P2.02	PLUMBING SCHEDULES AND SPECIFICATIONS							
7									
8									
9									
10									

	PLAN NOTES
1	REMOVE EXISTING COUNTERTOP LAVATORY AND FAUCET EXISTING RELATED HOT AND COLD WATER SUPPLIES TO REMAIN EXISTING 'P' TRAP TO REMAIN FOR CONNECTION TO NEW LAVATORY FAUCET.
2	REMOVE EXISTING WATER CLOSET. PLUG EXISTING SOILPIPE FLUSH WITH FINISHED FLOOR. REMOVE EXISTING COLD WATER SUPPLY PIPE.
3	REMOVE EXISTING WATER CLOSET AND WALL HUNG LAVATORY WITH FAUCET EXISTING SUPPLY PIPES AND 'P' TRAP TO REMAIN FOR CONNECTION TO NEW FIXTURE.
4	REMOVE EXISTING COUNTERTOP SINK AND FAUCET.
5	EXISTING FLOOR DRAIN AND TRAP TO BE REMOVED. EXISTING RELATED DRAIN PIPE BELOW SLAB TO REMAIN.
6	EXISTING SHOWER DRAIN AND TRAP TO BE REMOVED CAP OFF RELATED WASTE PIPE BELOW EXISTING SLAB.
7	EXISTING MOP SINK AND FAUCET TO REMAIN.
8	REMOVE EXISTING DOMESTIC HOT WATER TANKS ALONG WITH ALL RELATED HEATING WATER SUPPLY AND RETURN PIPING ASSOCIATED WITH EXISTING BOILER.
9	EXISTING BOILER TO BE REMOVED SEE MECHANICAL DRAWINGS. CAP EXISTING GAS PIPE AT FLOOR.
10	EXISTING SHOWER ASSEMBLY TO BE REMOVED. CAP-OFF ALL RELATED HOT AND COLD WATER PIPING CONCEALED.
11	REMOVE EXISTING HOT WATER SUPPLY HEADER AND CAP-OFF ALL (5) EXISTING BRANCH LINES JUST ABOVE EXISTING BALL VALVES.
12	REMOVE EXISTING COLD WATER SUPPLY HEADER AND CAP-OFF ALL (5) EXISTING BRANCH LINES JUST ABOVE EXISTING BALL VALVES.

PLAN NOTES

- 1 NEW ½" HOT AND COLD WATER PIPES DOWN IN WALL TO FIXTURE FAUCET. MIXING VALVE
- 2 NEW 11/2" COLD WATER SUPPLY PIPE AT CEILING. CONNECT TO EXISTING COLD WATER MAIN.
- 3 1" COLD WATER PIPE DOWN IN WALL TO WATER CLOSET
- FLUSH VALVE.
- 4 NEW ¾" GAS PIPE AT CEILING CONNECT TO EXISTING GAS MAIN AT POINT OF ENTRY FROM OUTSIDE METER INTO MECHANICAL ROOM.
- 5 DROP GAS PIPE DOWN TO WATER HEATER. SEE PIPING DIAGRAM ON SHEET P2.01.
- 6 ½" HOT AND COLD WATER PIPES DOWN IN WALL TO SHOWER MIXING VALVE.
- 7 RE-USE EXISTING GAS PIPE THAT SERVED EXISTING REMOVED BOILER FOR CONNECTION TO NEW BOILER.

	1
	PLAN NOTES
1	PLUMBER SHALL COMBINE EACH NEW 2" WASTE PIPE FROM NEW SHOWER DRAINS INTO (1) 2" WASTEPIPE AND CONNECT TO DRAIN LINE THAT SERVED EXISTING REMOVED TOILET ROOM FLOOR DRAIN. SEE NOTE $\binom{2}{2}$.
2	PLUMBER SHALL AVOID DAMAGING EXISTING RADIANT FLOOR PIPING SYSTEMS EMBEDDED IN EXISTING FLOOR SLAB. WHEN INSTALLING NEW PIPING.
3	PLUMBER SHALL RUN NEW 1½" WASTEPIPE AT REAR OF COUNTER ALONG WALL AND CONNECT INTO WASTEPIPE SERVING UP GRADED KITCHEN SINK.
4	NEW SINK SHALL RECONNECT TO TRAP THAT SERVED EXISTING DEMOLISHED SINK.
5	NEW 3" VENT THRU ROOF.
6	NEW 3" SOULPIPE BELOW SLAB. CONNECT TO NEW WATER CLOSET. SEE NOTE 2 .
7	NEW 3" SOULPIPE BELOW SLAB. EXTEND AND CONNECT TO SOILPIPE THAT SERVED EXISTING DEMOLISHED TOILETS. SEE NOTE (2) .
8	RECONNECT NEW LAVATORY TO EXISTING DEMOLISHED LAVATORY 'P' TRAP.
9	DROP NEW 2" WASTE AND VENTPIPE DOWN TO BELOW SLAB. CONNECT INTO TOP OF 3" SOILPIPE. SEE NOTE 2 .
10	NEW 2" WASTEPIPE. CONNECT TO FLOOR DRAIN VIA DEEP SEAL 'P' TRAP. RUN BELOW SLAB TO WASTE AND VENTPIPE. SEE NOTE 2 .
11	PLUMBER TO FURNISH NEW COUNTERTOP LAVS. TO MATCH EXISTING DEMOLISHED LAVS. RE-CONNECT TO EXISTING 'P' TRAP. PLUMBER TO FURNISH AND INSTALL A RIGID PLASTIC ENCLOSURE TO CONCEAL WATER AND WASTE PIPING BELOW COUNTERTOP AS MANUFACTURED BY "TRUEBRO" LAV SHIELD.

C

D

B

1. ALL PIPING SUPPORT SYSTEM COMPONENTS SHALL HAVE A NON-CORROSIVE METAL FINISH, GALV-KROM OR EQUAL.

	<u>PLUMBING</u>	SPECIFICATIONS
1. <u>GENERAL</u> A. The G	ENERAL AND SPECIAL CONDITIONS shall govern	8. <u>INSTRUCTIONS:</u>
this w 2. <u>SCOPE</u>	ork as they apply.	A. Contractor shall provide Owner with two copies of the instructions and maintenance charts, giving
A. A. Plu equipr provid	mbing work includes labor, materials and nent, machinery and services necessary to e complete plumbing system as hereinafter	9. <u>CLEANING OF EQUIPMENT AND WORK AREAS:</u>
specif work elsewh	ed and shown on drawings, including layout of and coordination of work with that specified ere.	A. Upon completion, all equipment and work area sha be thoroughly cleaned, filters replaced with new,
B. Wo	rk includes, but is not limited to the following:	ready for use. 10. PIPING:
1. Pl 2. w	umbing work including fixtures, water, drainage, aste, and piping vent.	A. Hot and cold piping shall be Type "L" copper,
GENERAL	REQUIREMENTS	used to separate copper and steel piping.
A. All wo require Code	rk shall be in accordance with the ements of the applicable Building and Plumbing and all other regulatory bodies or agencies	iron, galvanized steel or DWV copper.
having The C filling	jurisdiction. All systems shall be complete. ontractor shall do all excavation and back necessary to install underground piping	Piping 2" and smaller shall have threaded joints ar fittings. Provide a drip leg at all change in elevatio
include 3. Contro	ed under this section. Ictor shall obtain and pay for all permits,	and union at each appliance.
license C. The C	es and inspections required under this section. ontractor shall guarantee all materials and	D. Special attention is airected to provide careful attention of water piping to prevent freezing. All such piping must be installed on the room side of
workm year o	anship against defects for a period of one after final acceptance of the work.	continuous, fully protecting the entire length of piping.
D. Unless and s applic	noted otherwise, all material shall be new hall bear the Underwriter's Label where able.	E. Provide water hammer arrestors at all quick closing valves to prevent shock and vibration.
E. All wo section	rk shall be subject to the requirements of all ns that may interlock with this section in any	F. Provide all hangers to properly support pipes. Hangers shall be clevis type. Multiple pipes may be
way. F Electri	cal work performed under this Section shall	saddles under all insulated pipes.
compl "ELECT	y with the requirements set forth under the "RICAL WORKS" Section. All motors —hp and shall generally be wound for 208—volt	of the penetrated assembly.
3-phc	ise, 60-cycle current, unless otherwise noted.	11. <u>VALVES:</u>
A. The S	ubcontractor shall give full cooperation to	A. Valves shall be brass or bronze suitable for 125–18 working pressure for all services.
other to the the w	traaes and shall turnish in writing, with copies Architect, any information necessary to permit ork of the trades to be installed in proper	12. INSULATION FOR PIPING:
sequer delay.	nce and with the least possible interference or	shall be insulated 1" thick Universal Fiberglass pipe covering. All fittings and valves to be insulated and
o If the coordi interfe	Supcontractor install his work without nating with other trades, and the installation res with their installation, he shall make any	provided with with Zeston Jacket". B. "ARMAFLEX", as manufactured by Armstrong, is
chang condit	es necessary in this work to correct the ion without extra charge to Owner.	acceptable. Polyethylene and polyolefin products are not acceptable.
, 17 so shall critica	anected by the Architect, the Subcontractor provide dimensioned fabrication drawings of I areas, at not additional cost to Owner.	EXISTING CONDITIONS
ATERIAI	LIST AND SHOP DRAWINGS:	PARI: 1 GENERAL 1.01 SCOPE:
Contro and e	ctor shall submit a complete list of material quipment for approval by Engineer with 30	A. The Contractor shall make all necessary changes to the existing plumbing systems to accommodate the
days of ma equipr	of contract date. The list shall describe type terial, capacities and catalog numbers of ment, and give such information as necessary	new work. B. Material and equipment made superfluous by reaso
for ch	ecking equipment for approval.	of the new work shall become the property of the Contractor and shall be removed from the site
work of and E	and equipment for approval by the Architect ngineer. Shop drawings shall give all pertinent ation and shall be properly checked and	retained by the Owner, in which case the Contracto will disconnect and remove the equipment and
coordi work	nated with other work before submission. No shall be performed, save at Contractor's own	deliver it to a location selected by the Owner. 1.02 SITE VISIT:
drawin equipr	gs have been approved. All substitute nent shall be marked "substitute manufacturer".	A. Prior to preparing the bid, the Plumbing contractor shall visit the site and familiarize themselves with
Any c substi	hanges in any trade brought about by tutions of specified equipment shall be done at	existing conditions and make all necessary investigations as to locations of utilities and all other matters which can affect the work. No
coordi must	nated with all other trades. The Contractor indicate any and all cost credits associated sing substitute equipment	additional compensation will be made to the Contractor as a result of his failure to familiarize himself with the existing conditions under which the
	FIXTURES:	work must be performed.
• The C necess	ontractor shall provide all fixtures and trim ary to complete the fixture installation.	PART: 2 PRODUCTS 2.01 GENERAL:
Approv provid beneat	ved stop valves to match fittings shall be ed on both hot and cold water supplies th each fixture. All fixtures requiring hot and	A. The Contractor shall furnish all labor, material and equipment necessary to complete the demolition
cold w side a the fix	vater shall have cold water faucet at the right nd the hot water faucet at the left side of sture. All exposed metal work, including fixture	work and maintain existing/systems required to remain in service during the construction phase
run—o fixture Where	uts shall be chromium plated. The color of all s shall be white unless otherwise specified. fixture tailpieces and traps are not specified,	ana/or arter the completion of the work. B. Where new work causes interference with existing
these 3. Insulat	shall be provided to suit the fixture.	work, the new work or the existing work shall be altered or modified as required. No alteration or modification shall be performed without written
handic GUARANTE	ap accessible fixtures per À.D.A. guidelines. E AND SERVICE:	approval by the Architect. <u>FIRE PROTECTION:</u>
· Contro	ctor shall guarantee all materials and anship for a period of one year after date of	PART: 2 GENERAL
accept additic	ance, and shall repair or replace, at no nal cost to Owner, any part thereof which become defective within guarantee period	A. The sprinkler contractor shall make all adjustments to the existing sprinkler system necessary to suit new room layouts. I.E. relocation of heads or addition of
ordina respor	ry wear and tear excepted. Contractor shall be sible for and pay for any damages caused by ulting from defects of his work	new heads and associated branch piping. Designed and installed and must comply with latest version of NFPA13.
Contro new c	ctor shall provide five—year warranty on all ompressor units.	B. All piping shall be concealed wherever possible. Sprinkler heads shall be fast response type and shall
C. Contro adjust	ctor shall provide free service, inspection and ment of complete system and all necessary	be installed in accordance with manufacturer's recommendations and NFPA 13. Sprinkler heads shall
balanc from	ing and adjustments for one year beginning the date of acceptance.	in center of ceiling tiles where possible, and straight-up right (or pendent if required) in areas with
		no suspended ceilings. C. The final system shall be inspected and tested in
		accordance with the local jurisdiction requirements for final acceptance. The Contractor shall deliver certification of all tests and inspections to Architect.
		D. It shall be the responsibility of the Contractor under
		this division to provide all devices, valves, electric

							PLUMBING FIXTURE SCHEDULE	
	DESIG	FIXTURE TYPE	нw с	cw w	VASTE	SAN	SPECIFICATIONS	REMARKS
th two copies of charts, giving	P-1	WATER CLOSET (F.V.) (ADA COMPLIANT)		1"	\times	3"	"WHITEHALL" MFG LIGATURE RESISTANT SIPHON JET ELONGATED BOWL NO.WH2802-ADA 18%" RIM HEIGHT (1.28 GFF) 16 GA. S/S CONSTRUCTION WITH	SEE NOTE 5
and maintenance. AREAS:	P-2	WATER CLOSET (F.V.) (ADA COMPLIANT)		1"	\times	3"	"ZURN" MODEL NO. Z5665.396.00 VITREOUS CHINA ELONGATED BOWL (1.1 GFP) W/1634" RIM HEIGHT.	SEE NOTE 7
nd work area shall aced with new,	P-3	COUNTERTOP LAVATORY	½"	½"	11/2"	\times	PLUMBER TO FURNISH NEW SELF RIMMING BOWL TO MATCH EXISTING DEMOLISHED BOWL. FURNISH WITH NEW FAUCET AND MIXING VALVE.	SEE NOTES 1,2,4 & 6
	P-4	COUNTERTOP HAND SINK	1/2"	½"	11/2"	\times	"JUST MFG CO." MODEL NO. SL-2017-A-GR 18 GA. S/S SINGLE BOWL 3 HOLE DRILLED 4" CENTERS (20"x17"x7½" DEEP)	SEE NOTES 1,2 & 8
"L" copper, g fittings shall be I piping.	P-5	SHOWER DRAIN			2"	\times	"WHITEHALL MFG" MODEL NO. WHFD—5RD—2NH 5" DIAMETER WITH STRAINER AND GRATE.	SEE NOTE 2
— no hub cast per.	P-6	COUNTERTOP SINK (KITCHEN)	1/2"	½"	11/2"	\times	"JUST MFG CO." MODEL NO. SLX-2125-A-GR 186A. S/S SINGLE BOWL 3 HOLE DRILLED 4" CENTERS (25"x21"x10½" DEEP)	SEE NOTES 1,2 & 9
black steel pipe. threaded joints and	P-7	WALL HUNG LAVATORY (ADA)	½"	¥2"	11/2"	\times	"ZURN" NO. Z5340 VITREOUS CHINA (20"x18") 4" CENTER FAUCET HOLES WITH HANGER PLATE AND CONCEALED ARM CARRIER.	SEE NOTES 1,2 & 10
change in elevation I a shut—off valve	P-8	SHOWER ASSEMBLY (ADA COMPLIANT)	½"	<i>y</i> ₂ "	\times	\times	WHITEHALL MFG" MODEL NO. WH418–FH–CSH FH–CSH FLUSH MOUNT LIGATURE RESISTANT WALL SHOWER WITH FIXED HEADS AND MOUNTING FRAME (POWDER COATED WHITE)	SEE NOTES 11
ovide careful nt freezing. All the room side of vuilding insulation is tire length of	P-9	FLOOR DRAIN (TOILET ROOM)		$\left\langle \right\rangle$	2"	\times	"WHITEHALL MFG" MODEL NO. WHFD—6RD—2NH 6" DIAMETER WITH STRAINER AND GRATE.	SEE NOTE 3
t all quick closing tion. pport pipes. ple pipes may be sheet metal at all fire rated I or greater value	NOTES: 1. 2. 3. 4. 5. 6. 7.	FURNISH WITH SUPPLIES FURNISH WITH 'P' TRAP FURNISH WITH DEEP SE FURNISH WITH "ZURN" I FURNISH WITH 16GA. S, COVER. FAUCET SHALL BE "WHI CENTERSET FAUCET W/V FURNISH WITH ZTR6200 OPEN FRONT SEAT.	S WITH STOPS. AL TRAP. "ZURI MODEL NO. 'Z8 /S FLUSH VALV TEHALL" MFG W WHST70–12 MIX –ONE–LL FLUS	N"NO. 3946–1– Æ COVE WH3378– XING VAI SHOMETE	'Z1000'. -NT' ADA TR AND V -HC LIGA LVE ASSI TR VALVE	X TRAP, WH–LR: XTURE E 1070 E 1070	11. MOUNT WITH TOP SHOWER HEAD MOUNTED 72"AFF. , STOP AND SUPPLY PROTECTOR. SC-GRAY LIGATURE RESISTANT ABS TOILET SEAT RESISTANT, DUAL TEMP. PUSH BUTTON 4" O COMPLIANT SET AT 105"F. TERY OPERATED) AND NO. Z5955SS-EL WHITE	
	8. 9. 10	FURNISH WITH "ZURN" HANDLES. FURNISH WITH "ZURN" J. FURNISH WITH "ZURN"	MODEL NO. Z83 MODEL NO. Z87 MODEL NO. Z81	31B4—XI 71B4XL 1104—XI	L WIDESF SINK FA	PREAD	GOOSENECK FAUCET WITH 4" WRIST BLADE WITH WRIST BLADE HANDLES. R. FAUCET.	

e Plumbing contractors rize themselves with all ll necessary of utilities and all ot the work. No e made to the failure to familiarize tions under which the

MARK	SERVES
ET 1	WATER HEATER
NOTES: 1. SEE	PIPING DIAGRAM ON SHEE

MARK	
NOTES: 1. 2.	L F

	GAS FIRED WATER HEATER SCHEDULE								
MARK	LOCATION	STORAGE (GAL.)	RECOVERY (GPH)	TEMPERATURE RISE (*F)	INPUT (MBH)	MANUFACTURER & MODEL No.	VOLTAGE	REMARKS	
	EXISTING MECHANICAL ROOM	60	154	90*	120	"STATE" NO. SUF60–120NEA	120/1/60	SEE NOTES 1,2 AND 3	
NOTES	NOTES: 1. FURNISH WITH 4" DIAMETER PVC EXHAUST PIPE. 2. SEE DOMESTIC H.W. HEATER PIPING DIAGRAM THIS SHEET. 3. FURNISH WITH CONDENSATE NEUTRALIZER KIT.								

EXPANSION TANK SCHEDULE										
TANK VOLUME	ACCEPTANCE VOLUME GALLONS	DIAMETER	HEIGHT	CONN. SIZE	APPROX. WEIGHT	MANUFACTURER AND MODEL NO.	REMARKS			
6.4	3.2	12"	18"	3⁄4"	17 LBS	"AMTROL" NO. 'ST-12'	SEE NOTE 1			

Т	P2.01.	

	DOMESTIC WATER PUMP SCHEDULE									
MARK	SERVICE	GPM	FT/HD	HP	V-P-H	FLA SIZ	NGE ZE	PUMP RPM	MANUFACTURER & MODEL NO.	REMARKS
	HOT WATER RECIRCULATING 120	2	5	1/12	120-1-60	<i>1</i> /2"	½"	1725	"TACO" NO. 110B	SEE NOTE 1
NOTES:	1. ALL BRONZE CONSTR	UCTION								

WATER MIXING VALVE SCHEDULE

		GPM				TEMPERATURE(*F.)		PIPE TAP		"· · "			
	SERVES	MIN. FLOW	MAX. FLOW	DESIGN FLOW	P.D.	COLD INLET	HOT INLET	MIXED OUTLET	INLET	OUTLET	MODEL NO.	REMARKS	
	HANDSINK FAUCET	.5	1.5	1.0	1.5	50	120	105 ° F	1/2"	1/2"	No. 170-LF-BF	SEE NOTES 1,2 AND 3	
LEA FU	LEAD FREE BRONZE FINISH. 3. SEE DETAIL ON SHEET P2.01. FURNISH WITH COLD WATER BY—PASS.												

			ור	ARCHITECT Hord Coplan Macht, Inc.
		REMARKS	$\left \right $	700 E. Pratt St, Suite 1200 Baltimore, MD 21202 p. 410. 837. 7311 f. 410. 837. 6530
s/s		SEE NOTE 5		MEP ENGINEERS SRBR Engineers, Inc. 757 Frederick Rd, Suite 300 Catonsville, MD 21228
		SEE NOTE 7		p. 410. 869.7282
IXING	SEE	NOTES 1.2.4 & 6	$\left \right $	
	SFF	NOTES 1 2 & 8		
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		SEE NOTE 2	$\left \right $	
R.	SEE	NOTES 1,2 & 9		∩ A A
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VOLTAGE		REMARKS	11	H
20/1/60		SEE NOTES		С Ц
		1,2 AND 3	$\left \right $	0
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ER AND NO.		REMARKS		
'ST-12'		SEE NOTE 1		
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ACTURER DEL NO.		REMARKS		
ACO" 110B		SEE NOTE 1		ARCHITECTURE
				INTERIOR DESIGN
]	
			6	
	f	REMARKS		
QFF	NOTES	5 1.2 AND 3	$\left \right $	
			$\left \right $	
			$\left \right $	PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NUMBER: 22792 EXPIRATION DATE: 08/04/2022
			$\left \right $	
				ACUTE CARE UNIT
				221320.00 Date
			8	XX.XX.2022 Scale
				As indicated
				PLUMBING SCHEDULES
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SYMBOL	DESCRIPTION
Ð	DUPLEX RECEPTACLE – STANDARD, 125 VOLT. 18" A.F.F.
43	DUPLEX RECEPTACLE – STANDARD, 125 VOLT. 44" A.F.F.
	DUPLEX RECEPTACLE – GFI PROTECTED, 125 VOLT. 44" A.F.F. A OTHERWISE AT 18" A.F.F.
= EWC	ELECTRIC WATER COOLER - PROVIDE DEDICATED CIRCUIT WITH GF (VERIFY ELECTRICAL REQUIREMENTS AND MOUNTING HEIGHTS PRIO
-8	DUPLEX RECEPTACLE - WP AND GFI PROTECTED, 125 VOLT. 18
-00	QUAD OUTLET; TWO 125 VOLT DUPLEX RECEPTACLES; MOUNTED AT 18" A.F.F. UNLESS NOTED OTHERWISE.
Ф	SIMPLEX RECEPTACLE - SPECIAL PURPOSE, VERIFY CONFIGURATION
	FLOOR BOX (WITH DUPLEX RECEPTACLE SHOWN). DEVICE TYPE : ON THE DRAWINGS. FLUSH IN FLOOR.
 T	DUPLEX RECEPTACLE (TAMPER RESISTANT) - STANDARD, 125 VOI
	VOICE OUTLET. 18" A.F.F.
\triangleright	DATA OUTLET. 18" A.F.F.
	COMBINATION VOICE/DATA OUTLET. 18" A.F.F.
\triangleright	FLOOR BOX DATA OUTLET. FLUSH IN FLOOR
	FLOOR BOX COMBINATION VOICE/DATA OUTLET. FLUSH IN FLOOR
⇔ I	TELEVISION OUTLET – MATV/CATV SYSTEM. 18" A.F.F.
Ø	JUNCTION OR PULL BOX - SIZE PER N.E.C. UNLESS NOTED OTH
\$ \$2 \$3 \$4 \$ ^a	SWITCH – SINGLE POLE, DOUBLE POLE, THREE WAY, FOUR WAY, OUTLETS CONTROLLED. 44" A.F.F. PROVIDE NEUTRAL CONDUCTOR
\$ D	SWITCH – DIMMER, MOUNT AT 44" A.F.F. PROVIDE NEUTRAL CON SWITCHES.
\$k, \$p , \$m	SWITCH – KEY OPERATED, PILOT LIGHT, MOTOR RATED. PROVIDE AT ALL SWITCHES.
ШA	WALL MOUNTED OCCUPANCY SENSOR LIGHT SWITCH.
Шв	WALL MOUNTED OCCUPANCY SENSOR LIGHT SWITCH - DIMMING C

<u>SYMBOL</u>	DESCRIPTION
F	FIRE ALARM SYSTEM MANUAL PULL STATION. 48" A.F.F.
$\mathbf{\nabla}$	FIRE ALARM SYSTEM VISUAL (STROBE) DEVICE. WALL MOUNTE CANDELLA RATING PER NFPA 72, U.N.O.
ÞV	FIRE ALARM SYSTEM COMBINATION (HORN/ STROBE) AUDIBLE/ WALL MOUNTED 80" AFF; CANDELLA RATING PER NFPA 72, U.I
Ô	CARBON MONOXIDE DETECTOR.
\$	FIRE ALARM SYSTEM SMOKE DETECTOR WITH LOW FREQUENCY
Ø	FIRE ALARM SYSTEM SMOKE DETECTOR - DUCT TYPE
SD	SMOKE DETECTOR (120 VOLT WITH BATTERY BACK-UP)
WF	FIRE ALARM SYSTEM SPRINKLER FLOW SWITCH — FURNISH ANI DIVISION 15, CONNECT UNDER DIVISION 16
WT	FIRE ALARM SYSTEM SPRINKLER TAMPER SWITCH – FURNISH / DIVISION 15, CONNECT UNDER DIVISION 16
MH	FIRE ALARM SYSTEM MAGNETIC DOOR HOLDER – COORDINATE MOUNT FLUSH IN WALL UNLESS NOTED OTHERWISE
FACP FAAP	FIRE ALARM SYSTEM PANEL – 'FACP' DESIGNATES FIRE ALARM SURFACE MOUNTED; 'FAAP' DESIGNATES FIRE ALARM ANNUNCIA MOUNTED

KEY PLAN - AREA OF WORK NO SCALE

ELECTRICAL OVMBOL LIGT

	SYMBOL	DESCRIPTION	POWER	R DISTRIBUTION SYMBOLS		
	\$ _R	SWITCH – RHEOSTAT FOR FAN CONTROL. PROVIDE NEUTRAL CONDUCTOR AT ALL SWITCHES.	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	C	CONTACTOR: SEE PLANS FOR SPECIFICATIONS	Z /005			
T COUNTER,		MANUAL THERMAL MOTOR STARTER. SIZE OVERLOAD AS REQUIRED.	5/225	TRIP (FRAME RATING FOR SWITCH)		F35
	ТС	TIME CLOCK	2/100	INDICATES 2-POLE/1-PHASE, 100A		NESS
R TO ROUGH-IN)	v	MOTOR CONNECTION. SEE SCHEDULE FOR HP RATING UNLESS NOTED OTHERWISE.	005	IRIP (FRAME RATING FOR SWITCH)	S	CFSS
" A.F.F.	\boxtimes	CONTROL EQUIPMENT	60F	INDICATES 60A FUSE RATING	M	METER
	Ø	PHOTOCELL – CIRCUIT CONTROLLED AS INDICATED ON PLANS.				GROUNDING ELECTRODE
	o	WIRING UP		CIRCUIT BREAKER		
√. 18" A.F.F.	│ ──•	WIRING DOWN		MOTOR CONNECTION - 3 PHASE		STEP DOWN TRANSFORMER
HALL BE AS INDICATED		WIRING CONCEALED ABOVE CEILING OR IN WALL (2 CONDUCTORS + EQUIPMENT GROUND MINIMUM UNLESS NOTED OTHERWISE).		MOTOR CONNECTION - I PHASE		
Γ. 18 " Α.F.F.		WIRING BELOW GRADE OR BELOW FINISHED SLAB (3/4" C 2#10 + 1#10 EQUIPMENT	FEEDER LE	GEND	<u>EX</u>	<u>STING CONDITIONS</u>
	lu	GRUUND MINIMUM UNLESS NUTED UTHERWISE). WIRING, NEUTRAL (OVERSIZED TICK) 2 RHASE CONDUCTORS	DESIGNATION	DESCRIPTION	DESIGNATIC	<u>DESCRIPTION</u>
	<u> </u>	WINNING. NEUTRAL (OVERSIZED HOR), Z FRASE CONDUCTORS	X SETS	QTY. OF PARALLEL SETS (1 SET IF BL	ANK) [$] \in$ Phantom devices to be remove
		HOMERUN IO PANEL (SOURCE PANEL & CIRCUIT NUMBERS, AS INDICATED)	3#XXX	WIRE SIZE IN AWG. NEUTRAL SIZE	(NI)	
	∠ , ∠	ELECTRICAL PANEL: 120/208 VOLT – SURFACE, RECESSED MOUNTED	<1#XX G →	EQUIPMENT GROUND	(N) (E)	EXISTING EQUIPMENT TO REMAIN
		PLAN NOTE – REFER TO NOTES ON DRAWING.		CONDUIT SIZE	(R) (X)	EXISTING EQUIPMENT RELOCATED EXISTING EQUIPMENT TO BE REMOVED
RWISE.	$ \longleftrightarrow$	EQUIPMENT CONNECTION NOTE - SEE SCHEDULE.	<u>ABBRE</u>	<u>EVIATIONS</u>	(X/R)	EXISTING EQUIPMENT TO BE RELOCATED
UPERSCRIPT DENOTES			DESIGNATION	DESCRIPTION	NOTE:	ALL EQUIPMENT SHOWN IS NEW U.N.O.
UCTOR AT ALL		SYMBOL INDICATES 24 HOUR LIGHT (NIGHT LIGHT)	AFF ABOV	F FINISHED FLOOR (TO CENTERLINE LIN	IO) NESS	NON-EUSED SAFETY SWITCH
	$\langle x \rangle$	LIGHTING CONTROL NOTE - SEE LIGHTING CONTROL SCHEDULE	C COND		NL	NIGHTLIGHT (24 HOUR OPERATION)
IEUTRAL CONDUCTOR		FOR REQUIREMENTS.	C/B CIRCU	JII BREAKER RINATION FUSED STARTER SWITCH	UNO	UNLESS NOTED OTHERWISE
			ECB ENCL	OSED CIRCUIT BREAKER	WP	WEATHERPROOF (NEMA 3R UNO)
PARI F			EWC ELECT	TRIC WATER COOLER (VERIFY MTD.)		
			G EQUIF	PMENT GROUND		
			GFCI GROU	IND FAULT CIRCUIT INTERRUPTER		
			FSS FUSE	D SAFETY SWITCH		
			MCB MAIN			
			MLO MAIN	LUGS UNLI		

GENERAL REQUIREMENTS
 REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS OF THIS PROJECT. <u>BID PHASE:</u> IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DOCUMENTS TO INCLUDE PLANS AND SPECIFICATIONS FOR THE ARCHITECTURAL AND OTHER WORK UNDER OTHER DIVISIONS THAT CAN AFFECT THE WORK OF THIS DIVISION. THE CONTRACTOL SHALL ISSUE A FORMAL REQUEST FOR INFORMATION FOR CLARIFICATIONS OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO FINAL BID SUBMISSION.
3. <u>PRE-CONSTRUCTION:</u> IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL REVISED DOCUMENTS T INCLUDE ARCHITECTURAL PLANS AND WORK UNDER OTHER DIVISIONS THAT CA AFFECT THE WORK OF THIS DIVISION. THIS INCLUDES REVIEW OF ALL ADDENDUM REVISIONS AND SHOP DRAWINGS THAT AFFECT THE WORK OF THIS DIVISION. TH CONTRACTOR SHALL NOTIFY THE A/E TEAM OF ANY DISCREPANCIES PRIOR TO FINA ROUGH-IN.
SPECIAL CONDITIONS
A. <u>DEMOLITION</u> COORDINATION:
1. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
B. WORK IN EXISTING CEILINGS:
 REFER TO ARCHITECTURAL CEILING PLAN AND RELATED DETAILS FOR CEILING CONDITIONS, ADDITIONAL REQUIREMENTS, AND SYSTEM INSTALLATION COORDINATION. REFER TO ARCHITECTURAL PLANS FOR AREAS TO BE DEMOLISHED AND PROVIDED WITH NEW CEILING FINISHES. ALL OTHER AREAS ARE EXISTING CEILINGS TO REMAIN.
2. WHERE EXISTING CEILING ARE DISTURBED BY THE NEW WORK, THE EXISTING CEILING GRID AND TILES SHALL BE RE-USED AND PROTECTED DURING CONSTRUCTION AND REINSTALLED IN KIND. SECTIONS OF THE CEILING SYSTEM SHALL BE TEMPORARILY REMOVED AND REPLACED IN KIND, WHERE NEEDED, TO ACCOMMODATE THE WORK. DAMAGED CEILING SYSTEMS SHALL BE REPLACED WITH NEW SYSTEMS AS NEEDED.
3. EXISTING DISTURBED DRYWALL CEILINGS SHALL BE PATCHED, REPAIRED, AND FINISHED TO MATCH EXISTING CONDITIONS.
4. COORDINATE SCOPE OF WORK IN EXISTING CEILINGS WITH GENERAL CONTRACTOR AT TIME OF BIDS AND PRIOR TO START OF WORK.
C. <u>EQUIPMENT COORDINATION</u> :
 REFER TO ARCHITECTURAL EQUIPMENT PLANS, FURNITURE PLANS, ELEVATIONS, CASEWORK ELEVATIONS AND OTHER RELATED PLANS FOR ADDITIONAL MEP PROVISIONS.

	ELECTRICAL DRAWING LIST							
No.	Sheet No.	Sheet Title						
1	E001	COVER SHEET - ELECTRICAL						
2	E002	FLOOR PLAN - ELECTRICAL DEMOLITION						
3	E101	FLOOR PLAN - POWER						
4	E201	FLOOR PLAN - LIGHTING						
5	E301	ELECTRICAL SCHEDULES						
6	E401	ELECTRICAL SPECIFICATIONS						
7								
8								
9								
10								

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	MEP ENGINEERS SRBR Engineers, Inc. 757 Frederick Rd, Suite 300 p. 410. 869.7282	Catonsville, MD 21228
<u>1</u>	CARE UNIT	ORE CAMPUS
2	CARE- SUB ACUTE	BALTIM
3	SOARD OF CHILD (
4		
5	ARCHITECTURE LANDSCAPE ARCHITECTUF PLANNING INTERIOR DESIGN	аналананананананананананананананананана
<u>6</u>		
7	PROFESSIONAL CERTIFICATION: I CERTIFY THAT PREPARED OR APPROVED BY ME, AND THAT I AN UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NUMBER: 22792 EXPIRATION DATE: 08/04/2022	THESE DOCUMENTS WERE A A DULY LICENSED ENGINEER
8	A no. date revision Project Name BOARD OF CHILD CA ACUTE CARE UNIT Project Number 221326.00 Date 05.06.2022 Scale As indicated Drawing COVER SHEET ELECTRICAL ELECTRICAL	ARE- SUB
9	PERMIT ISSUE	Lord Coplan Macht, Inc.

PLAN NOTES

- 1 EXISTING AIR-HANDLING UNIT TO BE DEMO'D. DISCONNECT AND REMOVE ASSOCIATED WIRING.
- 2 EXISTING EXHAUST FAN TO BE DEMO'D. DISCONNECT AND REMOVE ASSOCIATED WIRING.
- 3 EXISTING BOILER TO BE DEMO'D. DISCONNECT AND REMOVE ASSOCIATED WIRING.
- 4 EXISTING METER.
- 5 EXISTING PANEL 'P'.
- 6 EXISTING NOTIFIER FIRE ALARM CONTROL PANEL.

GENERAL NOTES

- 1. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND EQUIPMENT FROM DEMO'D WALLS AND CEILINGS. MAINTAIN CIRCUITRY TO DOWNSTREAM DEVICES WHICH ARE TO REMAIN AS REQUIRED.
- 2. EXISTING FIRE ALARM DEVICES MAY BE RE-USED AND/OR RELOCATED IF IN GOOD WORKING CONDITION.
- 3. RETAIN EXISTING LIGHTING CIRCUITS FOR RECONNECTION TO NEW FIXTURES.

SRBR No: 22047

FLO	OR	PLAN	-	P	0	WER	
SCALE:	1/4"	= 1'-0"	0	1'	2'	4'	8

	PLAN NOTES
	MOUNT 72" AFF FOR WALL MOUNTED TELEVISION.
$\overline{2}$	EXISTING ELECTRIC SERVICE METER.
3	EXISTING PANEL 'P' - SEE SCHEDULE ON DRAWING E3.01.
4	REMOVE EXISTING RECEPTACLE AND REPLACE WITH TAMPER RESISTANT TYPE – CONNECT TO EXISTING CIRCUIT. TYPICAL FOR RESIDENT AND SENSORY ROOMS.
5	CONNECT TO EXISTING 120 VOLT RECEPTACLE CIRCUIT.
6	REMOVE EXISTING RECEPTACLE AND REPLACE WITH GFCI TAMPER RESISTANT TYPE – CONNECT TO EXISTING CIRCUIT.
7	CONNECT 120 VOLT TO BOILER PUMP AS REQUIRED.
8	EXISTING HVAC UNIT TO BE REPLACED WITH NEW IN SIMILAR LOCATION. REMOVE EXISTING WIRING AND PROVIDE NEW AS INDICATED.
9	ALL 120 VOLT RECEPTACLES IN KITCHEN SHALL BE GFCI PROTECTED – REPLACE ANY NON-GFCI PROTECTED WITH NEW.
10	EXISTING SWITCH FOR GARBAGE DISPOSER. EXTEND EXISTING CIRCUIT TO NEW DISPOSER AS REQUIRED.
11	FIRE ALARM SYSTEM STROBE WITH LOW FREQUENCY SOUNDER BASE.
12	EXISTING NOTIFIER FIRE ALARM CONTROL PANEL.

GENERAL NOTES

- REMOVE ALL EXISTING ELECTRICAL DEVICES AND ASSOCIATED WIRING FROM DEMO'D WALLS.
- 2. REMOVE EXISTING OUTLETS WITHIN RESIDENT AND SENSORY ROOMS, AND REPLACE WITH NEW TAMPER RESISTANT TYPE IN SAME LOCATION. RECONNECT TO EXISTING CIRCUIT.
- ALL RECEPTACLES WITHIN FOOD PREPARATION AND KITCHEN AREAS SHALL BE GFCI PROTECTED IN ACCORDANCE WITH NEC 210.8. THE GROUND FAULT INTERRUPTER DEVICE SHALL BE READILY ACCESSIBLE.

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7	
	no. date revision
	BOARD OF CHILD CARE- SUB ACUTE CARE UNIT Project Number 221326.00
8	Date 05.06.2022 Scale
_	As indicated Drawing FLOOR PLAN -
	POWER
	E1.01
9	PERMIT ISSUE
	⊚ ного соріан масні, INC.

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

1 TWO SWITCHES, FOR SEPARATE CONTROL OF LIGHT FIXTURE DIMMING AND COLOR TUNING (TYPICAL AT BEDROOMS AND SENSORY ROOMS).

GENERAL NOTES

- 1. IN GENERAL, ALL EXISTING LIGHT FIXTURES SHALL BE REMOVED AND REPLACED WITH NEW. CONNECT NEW LIGHTS TO EXISTING ROOM/AREA LIGHTING CIRCUITS.
- CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTS TO ROOM/AREA LIGHT CIRCUITS AHEAD OF LOCAL SWITCHING.
- 3. RETAIN EXISTING EXTERIOR LIGHT FIXTURES AND CONTROLS. IN GENERAL, LIGHT FIXTURES SHALL BE CONTROLLED BY OCCUPANCY SENSORS IN ADDITION TO INDICATED MANUAL/DIMMING CONTROLS, EXCEPT IN BEDROOMS, SENSORY ROOMS, AND SHOWERS.

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	PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NUMBER: 22792 EXPIRATION DATE: 08/04/2022
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	no. date revision
	Project Name BOARD OF CHILD CARE- SUB ACUTE CARE UNIT Project Number
	221326.00 <u>Date</u> 05.06.2022
8	Scale As indicated Drawing
	FLOOR PLAN - LIGHTING
	F7 ∩1
9	PERMIT ISSUE © Hord Coplan Macht, Inc.

B

MECHAN	IICAI	<u>. EC</u>	QUIPMENT S	CHEDL	ILE		
	INC PROVISIONS AT UNIT						
SERVING	VOLI	РП	LUAD	DEVICE	FRAME	FUSE SIZE	CONTROL
I HEATPUMP UNIT	-						
INDOOR UNIT W/ ELECTRIC HEAT	208	3	73 MCA	FSS	100	80	DIV. 15
OUTDOOR HEATPUMP	208	3	41.0 MCA	FSS	60	50	DIV. 15
OILER							
BOILER ROOM	120	1	NOTE 4	NFSS	30	-	DIV. 15
NS							
JANITOR' S CLOSET	120	1	34.5 W	-	-	-	DIV. 15
MEN'S ROOM	120	1	1/4 HP	DIV. 15	-	-	DIV. 15
JANITOR' S CLOSET	120	1	1/4 HP	DIV. 15	-	-	DIV. 15
/ATER HEATER							
BUILDING PLUMBING FIXTURES	120	1	ELECTRIC START	DC	-	-	DIV. 15
HOT WATER RECIRC PUMP	120	1	1/12 HP	TMS	-	-	DIV. 15

1. EQUIPMENT INDICATED ABOVE IS FURNISHED & INSTALLED UNDER ANOTHER DIVISION OF THE WORK. DIVISION 16 TO MAKE ELECTRICAL PROVISIONS AS INDICATED.

2. ALL EXTERIOR SWITCHES AND SAFETY SWITCHES TO BE NEMA 3R TYPE.

3. FUSE SIZE PER MANUFACTURER'S RECOMMENDATIONS. 4. MAKE 120 VOLT CONNECTIONS TO BOILER AND TO ASSOCIATED BOILER PUMP.

EQUIPMENT MARK

EQUIPMENT TYPE /RTU 🛹

EQUIPMENT NUMBER

DC - DIRECT CONNECTION

DIV. 15 - MECHANICAL SCOPE OF WORK (DIVISION 15) CFSS - COMBINATION FUSED STARTER SAFETY SWITCH

FSS - FUSED SAFETY SWITCH

MCA - MINIMUM CIRCUIT AMPS

MTS - MOTOR RATED TOGGLE SWITCH

TMS - THERMAL MANUAL MOTOR STARTER

	INTERIOR LIGHTING FIXTURE SCHEDULE											
		DESCRIPTION						LAMP				NOTEC
WARK	GENERAL	DIFFUSER	FINISH	MOUNTING	REIVIARKS	ΤΥΡΕ	COLOR	LUMENS	WATTS	VOLTS	MANUFACIURER OR EQUIVALENT	NOTES
А	CEILING LIGHT	POLYCARB. LENS	WHITE	RECESSED	23" DIAMETER, HIGH ABUSE LENS, TUNABLE, 0-10 VOLT DIMMING	LED	2,700 - 6,500K	2,700	35	120	VISA LIGHTING #CM1988-TTUN2(L)-MVOLT-TRWT	1
В	1' x 2'	WRAPAROUND LENS	WHITE	SURFACE		LED	3,500K	3,616	39	120	LITHONIA #STL2-40L-EZ1-LP835	
С	1' X 4'	WRAPAROUND LENS	WHITE	SURFACE		LED	3,500K	5,000	53.4	120	LITHONIA #FML4W485000LM835ZTMVOLT	
D	DOWNLIGHT	CLEAR	SEMI- SPECULAR	RECESSED	8" APERTURE	LED	3,500K	6,000	73.0	120	LITHONIA #LDN8-35/60-L08-AR-LSS-MVOLT	
E	DOWNLIGHT	CLEAR	SEMI- SPECULAR	RECESSED	6" APERTURE	LED	3,500K	2,500	28.3	120	LITHONIA #LDN6-35/25-L08-AR-LSS-MVOLT	
F	DOWNLIGHT	CLEAR	SEMI- SPECULAR	RECESSED	6" APERTURE	LED	3,500K	1,500	17.5	120	LITHONIA #LDN6-35/15-L08-AR-LSS-MVOLT	
G	36" WALL LIGHT	LENS - IMPACT RESISTANT	WHITE	SURFACE WALL	HIGH ABUSE RATED, UP/DOWN LIGHT	LED	3,500K	7,000	57	120	KENALL #WCUS-3-1-35L/35L-35K8-DV-G	
н	DOWNLIGHT	POLYCARB. LENS	CLEAR	RECESSED	6" APERTURE, HIGH ABUSE RATED, WET LOCATION LISTED	LED	3,500K	1,700	22	120	KENALL #HADL6-FF-2FW-22L-35K8-W-FW-G-RIG6-DV	
J	UNDERCABINET LIGHT	FLUSH LENS	WHITE	SURFACE	INTEGRAL ROCKER SWITCH	LED	3,000K	927	12	120	LITHONIA #UCEL-24IN-30K-90CRI-SWR-WH	

FIXTURES NOTES:

1. PROVIDE TWO SEPARATE WALL CONTROLLERS (FOR DIMMING AND COLOR TUNING).

GENERAL FIXTURE REQUIREMENTS:

		DESIG.	F	IXTUR
IVI	АКК	(NOTE 4)	ILLUM	•
4		ΓV 2	LED/	l
	\mathbf{X}	EXS	HALOGEN	EME
		EB1	LED	EME
EME	RGENC	Y LIGHTING	NOTES:	
1.	EXIT SI	GNS SHALL I	HAVE DIRECT	IONAL
2.	VERIFY	COLOR ANI	D CONFIGUR/	ATION
3.	EXIT SI	GNSANDEN	MERGENCY B	ATTER
4.	EXIT SI	GNS AND EN	VERGENCY B	ATTER
5.	EXIT LI	GHTS SHALL	BE MOUNTE	D: (1)
	POSSI	BLE, WHERE	CEILING IS TO	00 LOV
	MARKI	NGS SHALL	BE LOCATED	AT THI
6.	TYPE 'E	EB1' EMERGI	ENCY LIGHTIN	NG SH/

A. FIXTURE MARK IS TYPICAL FOR ALL FIXTURES OF THE SAME SYMBOL TYPE WITHIN THE SAME ROOM OR AREA (UNO). FIXTURE CATALOG # ESTABLISHES THE MANUFACTURER'S SERIES # - COMPLETE CATALOG # SHALL BE DETERMINED BY THE SCHEDULE DESCRIPTION, PLAN NOTES, SPECIFICATIONS AND GENERAL REQUIREMENTS.

B. ALL LAMPS AND L.E.D. FIXTURES SHALL BE 80+ COLOR RENDERING INDEX MINIMUM AND MATCHING KELVIN TEMPERATURE RATING TO BE VERIFIED BY THE ARCHITECT.

C. FIXTURES TO BE PROVIDED COMPLETE WITH BACKBOX, TRIM, AND LENS AS REUIRED FOR A COMPLETE FUNCTIONING FIXTURE. COORDINATE FIXTURE TRIM WITH CEILING TYPE (REFER TO ARCHITECTURAL RCP). FIXTURES IN CONTACT WITH INSULATION TO BE IC RATED. EXTERIOR FIXTURES UNDER COVER TO BE UL LISTED. EXTERIOR EXPOSED FIXTURES TO BE WL LISTED AN INSTALLED PER THE MANUFACTURERES REQUIREMENTS. D. ALL INTERIOR FIXTURES TO BE FULL RANGE DIMMING CAPABLE UNO. REFER TO PLANS FOR FIXTURES DESIGNATED WITH SPECIFIC DIMMING CONTROL TO BE WIRED FOR 0-10 VOLT DIMMING TO EACH DRIVER (OTHER FIXTURES WITHOUT

DESIGNATED DIMMING TO HAVE DIMMING CAPABLE DRIVERS WITH PROVISIONS FOR FUTURE 0-10 VOLT FIELD INNSTALLATION). . THE CONTRACTOR SHALL COORDINATE WITH THE LIGHTING AND CONTROLS MANUFACTURER TO TEST THE FINAL LIGHTING SYSTEM TO INSURE PROPER CALIBRATION AND OPERATION.

F. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND INTERIOR/EXTERIOR ELEVATIONS FOR COORDINATION OF FIXTURE MOUNTING AND LOCATIONS UNO. VERIFY FIXTURE FINISH AND STYLE WITH ARCHITECT PRIOR TO PURCHASE.

EMERGENCY LIGHTING FIXTURE SCHEDULE

RE DESCRIPTION				MOUNTING	LAMPS			TYPICAL
ТҮРЕ	SOURCE			WOONTING	QTY	ΤΥΡΕ	MANOFACIORER	LOCATION
EXIT/	INTEGRAL	WHITE HOUSING, VANDAL RESISTANT,	120		h	FURNISHED	LIGHTALARMS	EVITE
ERGENCY	BATTERY	UNIVERSAL MOUNT	120	UNIVERSAL	Z	W/ UNIT	#WW-XV24E-1-D-4X/2-LD9	EXITS
	INTEGRAL	TWIN HEAD, VANDAL RESISTANT, WHITE	120		n	FURNISHED	LIGHTALARMS #2	ГСРГСС
ERGENCY BATTERY		HOUSING	120	WALL	Z	W/ UNIT	V12N1-LD9-D	EGRESS

LARROWS AS INDICATED ON THE PLANS.

N OF EXIT SIGN LETTERS WITH LOCAL CODES. EXIST SIGN SHALL NOT EXCEED 5 WATTS PER FACE. ERY PACKS ARE INDICATED BY SYMBOL ON THE PLANS IN LIEU OF LETTER DESIGNATION.

ERY PACKS SHALL BE CONNECTED AHEAD OF LOCAL SWITCH CONTROL.

1) ON WALL 6" ABOVE DOOR WHERE POSSIBLE. (2) CEILING MOUNTED (NO HIGHER THAN 9'-0" A.F.FOR). (3) ON WALL TO THE SIDE OF THE DOOR AS HIGH AS OW. EXIT SHALL BE NO MORE THAN 2' HORIZONTALLY FROM THE OPENING. (4) WHEN DEALING WITH HIGH CEILING, THE BOTTOM OF THE NEW EGRESS

HE VERTICAL DISTANCE OF NOT MORE THAN 80" ABOVE THE TOP EDGE OF THE EGRESS OPENING INTENDED FOR DESIGNATION BY THE MARKING. HALL BE WALL MOUNTED AT 7'-0" A.F.F. or 12" BELOW CEILING WHICHEVER IS GREATER. (UNLESS NOTED OTHERWISE, BUT NOT HIGHER THAN 9'-0" A.F.F.).

					PA	NE	EL	Ρ					
120 /	208			•	EXIS	TIN	G PA	NEL	-			A.I.C.: 10k	
RE: 3 PH,	4 W				225	AMP	MAIN	С/В (NOTE 1)		MOUNTED: SURFAC	E
						-							
	C/I	В	WIF	Æ				WIF	Æ	C/I	3		
G	Р	TRIP	QTY	AWG	KVA	PH	KVA	QTY	AWG	Ρ	TRIP	SERVING	CKT
DOMS *	1	20			0.6	А	0.7			1	20	REC OFFICE *	2
DOMS *	1	20			0.5	В	0.5			1	20	REC EXISTING *	4
DOMS *	1	20			0.5	С	0.3			1	20	FIRE A LA RM PA NEL *	6
DOMS *	1	20			0.5	Α	1.5			1	20	REC LAUNDRY *	8
DOMS *	1	20			0.6	В	0.1			1	20	MECH. CONTROLS *	10
RMS/DESK *	1	20			0.7	С	0.7			1	20	REC EXISTING *	12
NG *	1	20			0.5	Α	0.4			1	20	REC REFRIG. *	14
	1	20			0.8	В	0.2			1	20	CEILING FAINS *	16
	1	20			0.7	С	0.2			1	20	REC FLOOR *	18
NG *	1	20			0.7	А	0.6			1	20	LTG LED *	20
	1	20			0.8	В	0.6			1	20	LTG LED *	22
*	1	20			1.0	С	0.6			1	20	LTG LED *	24
२*	1	20			1.0	А	0.6			1	20	LTG LED *	26
*	1	20	2	12	0.6	В	0.1			1	20	SMOKE DETECTORS *	28
DUNTA IN *	1	20			0.5	С				1	20	SPARE	30
EF-3 **	1	20	2	12	1.4	А				1	20	SPARE	32
	2	40			3.8	В	0.7			2	20	EXISTING *	34
					3.8	С	0.7						36
	3	50	3	6	4.4	Α	7.2	3	3	3	80	AHU - 1 ****	38
				[4.4	В	7.2						40
					4.4	С	7.2						42

* EXISTING CIRCUIT BREAKER AND CIRCUIT TO REMAIN.

** PROVIDE NEW CIRCUIT BREAKER AND CIRCUIT AS INDICATED.

*** EXISTING C/B MAY BE RE-USED IF 50 OR 60 AMPS, OTHERWISE REMOVE AND REPLACE WITH NEW 50 AMP BREAKER.

1. PROVIDE NEW 3 POLE, 200 AMP MAIN CIRCUIT BREAKER FOR PANEL.

DESIGN AMPS: 180

SECTION 16A - ELECTRICAL WORK 1. <u>GENERAL</u> A. The GENERAL and SPECIAL CONDITIONS listed under Division 1 shall govern this work where applicable. B. The Contractor shall provide labor, materials, equipment, and services necessary for the construction of the complete functioning electrical system. C. Labor and materials, although not specifically mentioned, but necessary for the completion of work and the successful operation of the electrical systems, shall be supplied as if specifically indicated. D. Materials and equipment installed as part of the permanent installation shall be new unless otherwise indicated or specified, and shall be approved by the Underwriter's Laboratories, Inc. for installation in each particular case where standards have been established. E. Wiring at finished areas shall be concealed in walls or above ceilings wherever possible. Exposed locations shall be pre-approved by the Architect prior to rough-in. Exposed wiring at finished areas shall be installed in conduit or surface metal raceway per architect's approval. Exposed surfaces shall be primed and finish painted as directed. 2. <u>SCOPE</u> A. The Contractor shall provide all labor and materials required to install a complete system of electrical work as indicated on the drawings and/or herein specified. Work includes but is not limited to the following: 1. Modifications to main panel. 2. Power and lighting feeders, panelboards, safety switches. 3. Lighting system complete with lamps. 4. Final connections of mechanical equipment, electrical motors. 5. Modifications to the existing Fire Alarm System. 3. <u>REGULATIONS AND CODE REQUIREMENTS:</u> A. Work shall conform to the requirements of the latest editions of the following codes, regulations and specifications. 1. National Electrical Code (NFPA 70) 2. National Fire Protection Association (NFPA) 3. Underwriters Laboratories, Inc. 4. International Building Code 5. Local and state requirements 4. <u>CERTIFICATES:</u> A. The Contractor shall, at his expense, have an inspection made by the Electrical Inspection department of the complete electrical installation and shall deliver certificate approval of the completed work. 5. <u>PERMITS:</u> A. The contractor shall obtain and pay for all permits required for his work. 6. <u>SHOP DRAWINGS:</u> A. The contractor shall submit shop drawings and manufacturer's catalog cuts showing all details of equipment to be furnished. 7. <u>GUARANTEE:</u> A. In addition to the guarantee obligations specified in other divisions, the Contractor shall guarantee the complete electrical system installation free from all mechanical and electrical defects for the period of one year from date of final acceptance by the Owner. 8. DRAWINGS AND SPECIFICATIONS: A. The drawings are intended to show the general arrangement of outlets. Door swings shall be checked for arrangement of switches, installed on the latch side. Contractor shall check structural plans, mechanical plans and specifications so that he may coordinate his work with these trades. B. Outlets shall be located uniformly with respect to beams, partitions, ducts, openings, etc., and the general locations shall be checked with the Architect before installing. Should there be any interference between the electrical outlets and other trades, the contractor shall notify the Architect so that the proper location may be decided upon. No outlets shall be installed in back of ducts, grilles, or inaccessible places. 9. <u>GROUNDING:</u> A. Grounding of conduit, panelboards, boxes, cabinets and equipment shall conform to the requirements of the latest edition of the National Electric Code. 10. DISTRIBUTION EQUIPMENT: A. All effected panels shall be labeled & provided with a type written circuit directory. B. Fuses protecting motors shall be dual element time delay type as recommended by the supplier.

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- 11. EQUIPMENT CONNECTIONS AND MOTOR STARTERS:
- A. Power wiring shall be installed and connected under this section, unless already provided on the equipment.
- 12. <u>CONDUCTORS:</u>
- A. Secondary conductors shall be copper, 98% conductivity covered with 600 volt standard type THW or THHN Insulation.
- B. Conductors shall have the following information surface printed throughout the entire length of the conductors.
- 1. Cable manufacturer
- 2. Trade name of wire . Size of wire
- 4. Type of insulation 5. Voltage classification
- C. Wire shall be in strict accordance with the latest edition of the National Electrical Code.
- D. Wire number 8 and larger shall be stranded.
- E. A color coding system to match the existing shall be used throughout the building network of feeders and circuits.
- 13. WIRING METHODS:
- A. Feeders rated 100A or greater shall be conductors ran in conduit.
- B. Branch circuit wiring shall be type MC cable minimum.
- C. Branch circuit wiring in exposed areas shall be installed in EMT conduit
- D. Circuits for computer outlets & dimming shall be
- connected with dedicated neutral conductors. 14. OUTLET BOXES:
- A. Outlet boxes in concealed locations shall be galvanized stamped steel of sizes required by the
- B. Boxes in exposed locations shall be cast with
- gasketed cover. C. Provide covers for boxes.
- 15. PULL-BOXES AND JUNCTION BOXES:
- A. Pull-boxes shall be provided as shown or wherever required to facilitate pulling of wires and cables, or as junction points. Such boxes shall be installed in accessible locations.
- 16. WIRING DEVICES:
- A. Receptacles & switch plates shall have ivory finish U.N.O. & furnished as follows: 1. Duplex receptacles: Leviton #5362 (NEMA 5-20R)
- 2. GFI receptacles: Leviton #6898 (NEMA 5-20R)
- 3. Toggle Switches: Leviton #1221 Series 4. Wall Plates: 0.032" thick stainless steel
- (nonmagnetic type 302), or thermoplastic. 5. Togale Switches: Leviton #54501-W Series
- 6. 3-way Toggle Switch: Leviton #54503-W Series 7. Dimming Switches: Lutron Nova NT or equivalent. Provide wattage required for fixtures controlled.
- B. 20 AMP rated receptacles shall be used for dedicated 20 AMP circuit connections per NFPA 70 requirements.
- 17. LIGHTING FIXTURES:
- A. The Contractor shall provide labor and materials, equipment and services necessary for and incidental to the installation of lighting fixtures.
- B. Provide a fixture for each outlet shown on the drawings. Fixtures shall be complete with lamps, lenses, glassware, mounting brackets, etc., for a complete assembly. Fixtures shall be UL listed.
- 18. <u>STARTERS:</u>
- A. Starters shall be Square 'D' class 8538 combination starter and fused disconnect switch. Coordinate overloads and controls with motor supplier. Manual motor starters shall be Square 'D' class 2510 with pilot lamp.
- 19. COMMUNICATION SYSTEM:
- A. Contractor to coordinate outlet box and conduit stubs into ceiling space with owners voice and CATV contractor.
- B. Contractor to coordinate and assure all wiring in installed ceiling space to be ran in conduit or be plenum ceiling rated.

ELECTRICAL SPECIFICATIONS

SECTION 16B - EXISTING CONDITIONS/ **DEMOLITION WORK**

- 1. <u>SCOPE:</u>
- A. The contractor shall make necessary changes to the existing electrical systems to accommodate the new work. This shall include removal or relocation and reconnections of existing equipment disturbed by the new work.
- B. Material and equipment made superfluous by reason of the new work shall become the property of the contractor and shall be removed from the site unless the equipment is specifically indicated to be retained by the Owner, in which case the contractor shall disconnect and remove the equipment and return to the Owner.
- C. The contractor shall furnish labor material and necessary to complete the demolition work.
- D. The work shall include removal and relocation of existing equipment as shown on the drawings.
- 2. <u>SITE VISIT:</u>
- A. Prior to preparing the bid, the contractor shall visit the site and familiarize himself with the existing conditions. He shall make necessary investigations as to locations of utilities and all other matters which can affect the work. No additional compensation will be made to the contractor as a result of failure to become familiar with the existing conditions under which the work must be performed.
- 3. <u>OUTAGES:</u>
- A. Electrical work which will interfere with the normal use of occupied areas in any manner shall be done at times mutually agreed upon by the Contractor and the Owner.
- 4. CONNECTIONS AND ALTERATIONS TO EXISTING WORK: A. The extension of existing services shall be closely coordinated with the owner as they impact adjacent areas which shall remain operational.
- B. While performing connections and alterations to existing mechanical/electrical work, the contractor shall take extreme care to protect existing materials, equipment, etc. from dirt, debris, and damage. Damage to existing materials, equipment, etc. shall be repaired or replaced by the contractors without expense to the owner.
- 5. <u>CUTTING AND PATCHING:</u>
- A. Cutting and patching associated with the work in the existing structure shall be performed in a neat and workmanlike manner. Existing surfaces which are damaged by the contractor shall be repaired or replaced with new materials.
- B. Structural members shall not be cut or penetrated. Holes cut through concrete and/or masonry to accommodate new work shall be cut by reciprocating or rotary, non-percussive methods.
- C. Patching of areas, disturbed by installation of new work and/or reauired demolition, shall match existing adjacent surfaces as to material texture and color.

SECTION 16C - FIRE ALARM SYSTEM 1. <u>GENERAL</u>

A. The contractor shall furnish and install labor, materials, equipment and services necessary for an extension of the existing Fire Alarm System as specified herein and shown on plans. All new devices shall be completely compatible with the existing F/A system, and shall be wired, connected and left in first class operating condition. Equipment shall match the existing manufacturer, and shall be approved by the Underwriters Laboratory. All equipment and devices required for the full functioning of the system, including booster/extender panels, batteries, relays, modules, wiring, cabinets, etc., shall be approved.

- B. The System shall comply with the latest applicable sections of the following codes, regulations, and guidelines:
- 1. National Fire Protection Association (NFPA) 2. Underwriters Laboratory. Inc. (UL)
- 3. Factory Mutual Approval Guide (FM) 4. American Insurance Association Fire Protection
- 5. International Building Code 6. Applicable State & Local Jurisdiction Regulations Amendments, and Codes
- 7. American with Disabilities Act (ADA)
- C. The contractor shall submit fire alarm system shop drawings to the local authority having jurisdiction for complete review and approval. It shall be the contractor's responsibility to obtain approved shop drawings prior to starting fire alarm work.
- 2. DUCT SMOKE DETECTORS:
- A. Duct smoke detectors to be photoelectric type with sampling tube operating on the light-scattering, photo-diode principle. Detectors shall be furnished with insect screen and designed to ignore invisible airborne particles or smoke densities below the factory set alarm point (no radioactive materials shall be used).
- B. The control panel shall be capable of alarm verification of each detector in accordance with NFPA limitations. The detector operating power shall be derived from the control panel.
- C. Furnish a remote test alarm indicator station where a detector is located above a ceiling. The station shall be flush in wall closest to the detector location or as indicated on the drawings.
- D. Detectors shall be furnished and connected under Division 16 and installed in the duct under Division 15 in strict accordance with NFPA 90A & 72E. The fire alarm supplier shall verify detector locations and arrangement with local jurisdiction and state fire protection authorities prior to installation.
- E. Auxiliary contacts shall be provided for each detector to control the HVAC unit. Connections shall be coordinated with the Automatic Temperature Control (ATC) work.
- ALARM DEVICES:
- A. Fire alarm system audible/visual signals shall be flush mounted horns with strobe lights. A common housina shall be utilized.
- B. Strobes shall be Xenon type in accordance with ADA (NFPA 72) requirements.
- C. Smoke detectors shall be photoelectric type.
- D. Flow and tamper switches shall be furnished & installed under division 15. Connection to the fire alarm system shall be completed under division 16.
- 4. <u>HVAC CONTROLS:</u>
- A. Furnish and install H–O–A switches to control all HVAC equipment in accordance with NFPA 90A.
- B. Switches shall be arranged and located adjacent to the lobby annunciator as directed by the local authorities. Switches shall be installed in a lockable cabinet with key to match fire alarm control panels and/or as acceptable by the local authorities.

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	MEP ENGINEERS SRBR Engineers, Inc. 757 Frederick Rd, Suite 300 Catonsville, MD 21228 p. 410. 869.7282
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	PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DURY LICENSED SUBJECT
	UNDER THE LAWS OF THE STATE OF MARYLAND LICENSE NUMBER: 22792 EXPIRATION DATE: 08/04/2022
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	no. date revision Project Name
	BOARD OF CHILD CARE- SUB ACUTE CARE UNIT Project Number 221326.00
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