

Architectural Services 130 Regional Park Drive Kingsport, TN 37660 Phn (423) 349-7760 RE-BID ADDENDUM ONE

Project: Sullivan County Schools East High School S.T.E.M. Classroom Renovations RE-BID

Address: 4180 Weaver Pike, Bluff City, TN

January 29, 2024

This Addendum is part of the Contract Documents for the above referenced project and modifies the original drawings and/or specifications, dated **January 17, 2024**, as noted below. The bidder shall acknowledge receipt of this Addendum in the place provided in the Bid Form. The published bid date and time shall remain the same.

GENERAL:

1. See attached Pre-Bid Meeting sign in sheet.

CLARIFICATION:

1. The existing roof is a Garland product currently under warranty. Contact Matt Emery 615-496-1464 <u>memery@garlandind.com</u>. New roofing work is to maintain the current warranty.

DRAWINGS:

- 1. REVISIONS FROM ORIGINAL BID TO RE-BID:
 - a. DRAWING G-00 Issued Date
 - b. DRAWING G-00 Drawing Index updated
 - c. DRAWING G-00 Architect and Engineer Seals Updated
 - d. DRAWING G-01 Revised Bid Alternates
 - e. **DRAWING S-11 –** Revised Structural to reflect a single rooftop HVAC unit
 - f. DRAWING A-10 Revisions: Key Notes, Wall Construction for back corridor wall, Alternate #3 borrowed lites
 - g. DRAWING A-20 Revisions: Key Notes, Interior Elevations
 - h. DRAWING I-10 Revisions: Key Notes, lighting layout
 - i. DRAWING MP-1.0 Revisions: RTU Schedule
 - j. DRAWING MP-1.1 Revisions: HVAC System & Ductwork layout
 - k. DRAWING E-11 Revisions to the lighting layout
 - I. DRAWING E-12 Revisions to the HVAC power

SPECIFICATIONS:

1. **SECTION 088000 GLAZING** – Item 2.7 Safety and Security Window Film – The Basis of Design is to be the SCL SR PS8 (Clear) product as Manufactured by LLumar.

Cain Rash West Architects

Richard Lutz



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PHONE 423-323-6400 FAX 423-323-7249 kris.davis@sullivancountytn.gov		JAG I		EMAIL ADDRESS	PICILI & CACINC	trous C constpartness (1.	obbie.madgettasullivankiz.	7		
DUNTY PURCHASING AGENT 126-SUITE 201 3, TN 37617-0569	DANCE RECORD	DON OF COMPANY AGENT,		PHONE NUMBER	423-349-7760	423-767-1560	123-354-1052 4	423-439-9831		
OFFICE OF THE SUILIVAN CO 3411 HIGHWAN BLOUNTVILLE	PRE-BID ATTEN	TIME: 2.0 id Sullivan East High Str livin East High Bhard AFFORD AN OPPORTUNITY FOR CO	nent: Michelle Romers	COMPANY / AGENCY	CRW	chuc	Sullivan Countr Chail	RICETUM COLUNI. CO		
KRISTINIA DAVIS PURCHASING AGENT		DATE: OI. 25. 24 PROJECT DESCRIPTION: Re-D LOCATION OF PROJECT: ULL *NOTE: MANDATORY PRE-BID M VERIFIED BY REGISTRATION, TC	Purchasing Dyrarte	YOUR NAME	Richard LUTZ	Turn, Brock,	Bubbi Madaft	Romis- achavar		

S.T.E.M. Classroom Renovations for:

Sullivan County East High School

4180 Weaver Pike, Bluff City, Sullivan County, Tennessee 37618





VICINITY MAP



SULLIVAN EAST HIGH SCHOOL

OCTOBER 4, 2023 - ORIGINAL BID JANUARY 17, 2024 - RE-BID CRW Project # 202336

LOCATION MAP





ABE	BREVIATIONS			LEGE	ND
ABV.	ABOVE	HSV	HOMOGENEOUS SHEET VINYL		
ACT	ACOUSTICAL TILE	HT.	HEIGHT		EXISTING WALL CONSTR
ADA	AMERICANS WITH DISABILITIES ACT	INSUL.	INSULATING, INSULATION		
A.F.F.	ABOVE FINISHED FLOOR	JT.	JOINT		
ALUM.	ALUMINUM	LAV.	LAVATORY		
@	AT OR AT THE RATE OF	MANUF.	MANUFACTURER		
APPROX.	APPROXIMATELY	MATL.	MATERIAL		CONCRETE MASONRY (N
£	BUILDING LINE	MAX.	MAXIMUM		
BLDG.	BUILDING	MECH.	MECHANICAL		
BLKG.	BLOCKING	MDF	MEDIUM DENSITY FIBERBOARD		METAL STUD AND GYPS
BOTT.	BOTTOM	MFD	MULTI-FUNCTION DEVICE		
BRG.	BEARING	M.H.	MAN HOLE		METAL STUD AND GYPS
C.B.		MIN.			
С С	CENTERLINE	MIRR.	MIRROR IMAGE OF TYPICAL DETAIL		
CJ		M.O.	MASONRY OPENING	(BRICK
CLG.		M.R.	MUISTURE RESISTANT		
JMU		MIL.			
C.O.		N.I.C.			GTPSUM BUARD CEILING
CONC.	CONCRETE	NOM.	NOMINAL		
		0.0.			CASEWORK (IN PLAN VIE
					· ·
CURR.		PH.	PHASE		
		PKG.			GLASS OR MIRROR (ELE
		۳ <u>ر</u>			
				200000000000000000000000000000000000000	ΒΔΤΤ ΙΝSULΔΤΙΟΝ
					DATTINGOLATION
		P51 DT			
(E)		P.I. DT			VAPOR BARRIER
	EACH	R I			
LA. EIES	EXTERIOR INSULATION AND FINISH SYSTEM	RD	ROOF DRAIN	4	
E.I0.		RDI			CONCRETE (SECTION)
FI	FLEVATION	REQ'D	REQUIRED		
ELEC	ELECTRICAL	RO	ROUGH OPENING	$0 \bigcirc 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 &$	CRUSHED STONE
E0	FOUAL	山	SQUARE	0.0.0.0.0.0.0.0.0	
EXIST	EXISTING	SCHED	SCHEDULE	:	
EXP.	EXPANSION	SIM.	SIMILAR		EARTH
EXT.	EXTERIOR	SQ.	SQUARE		
F.D.	FLOOR DRAIN	STD.	STANDARD		
FDTN.	FOUNDATION	STL.	STEEL		DENOTES 2-IIK RATED F
F.E.	FIRE EXTINGUISHER	STRUCT.	STRUCTURE. OR STRUCTURAL		
F.F.	FINISHED FACE	SUSP.	SUSPENDED	• • • • • • •	DENOTES 2-HR RATED F
FIN.	FINISHED	TK.	ТНІСК		
FLR.	FLOOR	TLT.	TOILET		
FOF	FACE OF FINISH	Т.О.	TOP OF		DENUTES 1-HR RATED F
FTG.	FOOTING	T.O.F.	TOP OF FOOTING		
F.V.	FIELD VERIFY	T.O.S.	TOP OF STEEL		DENOTES NON-RATED S
GA.	GAUGE	TYP.	TYPICAL		
GALV.	GALVANIZED, HOT DIPPED	U.L.	UNDERWRITER'S LABORATORIES, INC.		
G.H.M.	GALVANIZED HOLLOW METAL	W.	WIDE		
GYP. BD.	GYPSUM BOARD	W/	WITH		
1 .В.	HOSE BIBB	WD.	WOOD		
1.C.	HANDICAPPED	WDW.	WINDOW		
IDWE.	HARDWARE	W.H.	WATER HEATER	LEG	
Н.М.	HOLLOW METAL	WOW	WORKSTATION ON WHEELS		



GENERAL NOTES

- CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE IMMEDIATE VICINITY OF THE WORK SITE AS DIRECTED BY THE OWNER. 2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE VERIFICATION OF ACTUAL CONDITIONS
- SURROUNDING THE PROJECT, INCLUDING THE AS-BUILT LOCATIONS AND CONDITIONS OF EXISTING UTILITIES AND THE BUILDING STRUCTURE. 3. CONTRACTOR SHALL COORDINATE THE LOCATIONS FOR THE STORAGE OF EQUIPMENT AND BUILDING
- MATERIALS WITH THE BUILDING OWNER. CONTRACTOR SHALL NOT BLOCK OR IMPEDE ACCESS TO THE BUILDING BY EXISTING TENANTS, CUSTOMERS OR EMERGENCY VEHICLES.
- 4. CONTRACTOR SHALL COORDINATE ANY REQUIRED SHUT-DOWN OF UTILITIES WITH THE LOCAL BODIES HAVING JURISDICTION. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO PERFORMING ANY EXCAVATION OPERATIONS. ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES, INADVERTENT OR OTHERWISE, RESULTING FROM CONSTRUCTION OPERATIONS, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- UNLESS OTHERWISE NOTED, INTERIOR STUD WALLS SHALL BE CONSTRUCTED WITH 20 GA., 3 5/8" STEEL STUDS AT 16" ON CENTER WITH ONE (1) LAYER OF 5/8" THICK, TYPE "X", GYPSUM BOARD ON EACH FACE. (TOTAL WALL THICKNESS = 4 7/8") PROVIDE VERTICAL CONTROL JOINT AT ONE SIDE OF DOOR HEADS (TYPICAL). SET TRACK IN ACOUSTICAL SEALANT FOR SOUND CONTROL. (TYPICAL ALL WALLS.) 6. PLAN DIMENSIONS DENOTE FINISHED FACE OF WALL TO FINISHED FACE OF WALL UNLESS OTHERWISE
- NOTED. (TYPICAL FOR EXISTING WALLS.) 7. ALL PARTITIONS SHALL BE CONTINUOUS FROM TOP OF FLOOR SLAB TO MIN. 6" ABOVE FIN. CEILING UNLESS OTHERWISE NOTED OR DETAILED. PROVIDE FIBERGLASS SOUND ATTENUATION BLANKETS IN ALL WALLS. (TYPICAL FULL HEIGHT OF WALL.) (SEE WALL TYPES.)
- PROVIDE ALL WALL BLOCKING AS REQUIRED FOR FIXTURES, CASEWORK, COMMUNICATIONS EQUIPMENT, ETC. ALL WOOD BLOCKING SHALL BE FIRE TREATED LUMBER. (CONTRACTOR MAY PROVIDE 20 GA. STEEL STUDS, IN LIEU OF WOOD BLOCKING, IN METAL STUD WALL CONSTRUCTION.) CONTRACTOR TO REVIEW LOCATIONS OF ALL WOOD BLOCKING WITH THE OWNER.
- 9. CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION WALLS AND CLOSURES AS REQUIRED TO PREVENT THE SPREAD AND INFILTRATION OF DUST AND DEBRIS TO OTHER OCCUPIED AREAS OF THE BUILDING.
- 10. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REQUIREMENTS. DEBRIS SHALL BE REMOVED FROM THE SITE DAILY.
- 11. THE CONTRACTOR SHALL ACCESS THE BUILDING ONLY FROM LOCATIONS APPROVED BY THE OWNER'S REPRESENTATIVE. CONSTRUCTION OPERATIONS SHALL NOT IMPEDE THE NORMAL FLOW OF TRAFFIC AT OTHER ENTRYWAYS.
- 12. CONTRACTOR SHALL NOTIFY BUILDING OWNER, AND ALL TENANTS, OF ANY REQUIRED UTILITY SHUT-DOWN NOT LESS THAN 48 HOURS IN ADVANCE OF THE SCHEDULED INTERRUPTION OF UTILITY SERVICES. 13. DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE
- BUILDING AND ITS CONTENTS FROM THE ELEMENTS AND FROM UNAUTHORIZED ENTRY. CONTRACTOR SHALL PROVIDE TEMPORARY CLOSURES AND BARRICADES AS REQUIRED TO MAINTAIN A SECURE ENVIRONMENT.
- 14. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE VERIFICATION OF ALL DIMENSIONS, LOCATIONS, SIZES, ETC. OF ALL BUILDING COMPONENTS, STRUCTURAL MEMBERS, EQUIPMENT, AND ACCESSORIES TO REMAIN. 15. CONTRACTOR SHALL NOT IMPEDE TRAFFIC FLOW IN ROADWAYS OR PARKING AREAS. COMPLETE ACCESS
- TO THE BUILDING BY EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION OPERATIONS. 16. DOORS CONSTRUCTED AGAINST AN ADJACENT WALL SHALL BE PLACED 3" FROM THE OUTSIDE OF THE
- FRAME TO THE ADJACENT WALL (TYPICAL FOR STUD WALLS). DOORS IN MASONRY WALLS SHALL BE 8" (ONE BLOCK COURSE) FROM ADJACENT WALL. DOORS SHOWN IN THE CENTER OF A WALL SHALL BE CENTERED WITHIN THAT SPACE UNLESS OTHERWISE NOTED.
- 17. CONTRACTOR IS RESPONSIBLE FOR PATCHING AND FINISHING ALL EXISTING WALLS THAT ARE DAMAGED DURING DEMOLITION OPERATIONS OR THROUGH THE INSTALLATION OF NEW ITEMS AND APPURTENANCES TO A UNIFORM APPEARANCE TO MATCH THAT OF ADJACENT FINISHES. 18. THIS DRAWING SET UTILIZES COLOR FOR CLARITY AND IS BEST INTERPRETED WHEN VIEWED OR PRINTED IN
- COLOR 19. THIS DRAWING SET IS INTENDED TO BE PRINTED AT 24"x36" SHEET SIZE. DO NOT SCALE DRAWINGS FROM ANY OTHER SIZE PRINT.



SCOPE OF WORK SUMMARY

THIS PROJECT CONSISTS OF THE CREATION OF A NEW CLASSROOM WITHIN AN OPEN COMMONS AREA OF THE EXISTING SCHOOL, AND DOES NOT EFFECT EGRESS FROM THE BUILDING. THIS PROJECT DOES NOT INCLUDE NY SITE WORK

APPLICABLE CODES

- NFPA 101 LIFE SAFETY CODE (2012 EDITION)
- ICC INTERNATIONAL BUILDING CODE (2012 EDITION) (EXCLUDING CHAPTER 11 AND SECTION 3411) ICC INTERNATIONAL EXISTING BUILDING CODE, 2012 EDITION (SCOPE OF WORK
- RELATED TO EXISTING BUILDINGS)
- ICC INTERNATIONAL FIRE CODE (2012 EDITION)
- ICC INTERNATIONAL MECHANICAL CODE (2012 EDITION)
- ICC INTERNATIONAL FUEL GAS CODE (2012 EDITION)
- ICC INTERNATIONAL PLUMBING CODE (2012 EDITION)
- ICC INTERNATIONAL ENERGY CONSERVATION CODE (2012 EDITION) NATIONAL ELECTRIC CODE (NFPA70) (2017 EDITION)

ACCESSIBILITY CODE: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. NOTE; IN INSTANCES WHERE THE SPECIFIC REQUIREMENTS OF ICC AND NFPA 101 DIFFER, THE MORE STRINGENT OF THE TWO CODES SHALL APPLY.)

OCCUPANCY

EDUCATIONAL - GROUP E

CONSTRUCTION TYPE

TYPE II-B GENERAL BUILDING LIMITATIONS

ALLOWABLE HEIGHT - UNCHANGED - EXISTING BUILDING IS LESS THAN THE PERMITTED 55' ALLOWABLE STORIES - UNCHANGED - THE EXISTING BUILDING IS ONE (1) STORY ALLOWABLE AREA - UNCHANGED - THE EXISTING BUILDING IS 128,557 SQUARE FEET OCCUPANT LOAD

THE BUILDING OCCUPANT LOAD IS UNCHANGED

THE PROPOSED CLASSROOM IS 1,611 SF AT 50 SF PER PERSON FOR SHOPS/ OTHER VOCATIONAL ROOMS, THE PROPOSED OCCUPANCY LOAD FOR THIS SPACE IS 32 PEOPLE.

EGRESS

THE BUILDING EGRESS IS UNCHANGED. REQUIRED TRAVEL DISTANCES IS 200' PER TABLE 1017.2 SEE ADJACENT PLAN FOR DISTANCES MAINTAINED UNDER 200' INTERIOR FINISHES TABLE 803.9 - INTERIOR FINISHES FOR GROUP B, NON-SPRINKLERED FACILITIES, SHALL BE CLASS "A" MATERIALS AT ALL VERTICAL EXITS AND EXIT PASSAGEWAYS. EXIT ACCESS CORRIDORS SHALL BE CLASS "B" AND OTHER ROOMS OR ENCLOSED SPACES MAY BE CLASS "C" MATERIALS. (CLASS "A" = FLAMESPREAD 0-25, SMOKE 0-450) (CLASS "B" = FLAMESPREAD 26-75, SMOKE 0-450) (CLASS "C" = FLAMESPREAD 76-200, SMOKE 0-450) 804 - INTERIOR FLOOR FINISHES CLASS II INTERIOR FLOOR FINISH - CRITICAL RADIANT FLUX NOT LESS THAN 0.22 W/cm² BUT LESS THAN 0.45 W/cm² FIRE PROTECTION SYSTEMS EXISTING FIRE ALARM SYSTEM TO BE MODIFIED AS REQUIRED FOR THE PROPOSED SCOPE OF WORK. FIRE DEPARTMENT INFORMATION SULLIVAN EAST VOLUNTEER FIRE DEPARTMENT MATT KEGLEY - CHIEF

3287 WEAVER PIKE BRISTOL, TN 37620

NON-EMERGENCY PHONE: 423-878-2787

FAX: 423-217-1043

WEB: HTTP://EASTSULLIVANCOUNTYVFD.COM

S.T.E.M. Classroom Renovations for:		HIGH SCHOOL	Blountville, Tennessee						
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issued JAN. 17, 2024 checked NAME drawn RDL project no. 202336									
	GEI INFOF		∾ 1						







GENERAL DEMOLITION NOTES

- 1. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE PROJECT SITE PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS. CONTRACTOR SHALL SATISFY HIMSELF AS TO THE ACTUAL AS-BUILT CONDITION OF ALL BUILDINGS, STRUCTURES, IMPROVEMENTS, UTILITIES, ETC. THE LAYOUT OF THE EXISTING BUILDING IS DERIVED FROM OWNER FURNISHED DRAWINGS OF A SIMILAR STRUCTURE AND FROM SITE OBSERVATION. NEITHER THE OWNER NOR THE ARCHITECT MAKES ANY CLAIMS REGARDING THE COMPLETE ACCURACY OF SUCH EXISTING DRAWING INFORMATION COMPARED TO THE ACTUAL, CURRENT CONDITIONS OF THE BUILDING AND RELATED STRUCTURES.

S.T.E.M. Classroom Renovations for:	Blountville, Tennessee								
130 King Phr	Cain Regional Park Dr. sport, TN 37660 (423) 349-7760								
Fax	Fax (423) 349-7413 www.grcinc.com								
THIS BY SH SPEC ONL PRO Ar RETUR	THIS DRAWING AS PREPARED BY CainRashWest Architects SHALL BE USED FOR THE SPECIFIC IDENTIFIED PROJECT ONLY. THIS DRAWING IS THE PROPERTY OF CainRashWest Architects AND SHALL BE RETURNED PER THEIR REQUEST								
no. d	date rev. description								
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ALL STRUCT	BOLLIN BOLLIN BOLLIN AGRICOLUTE A								
issue	ed JAN. 17, 2024								
chec draw	ked NAME								
proje	ct no. 202336								
	DEMOLITION PLAN								
	A-01								



'15/2024 8:45:50 AM file: A-10 FLOOR PLAI



	DOOR AND FRAME SCHEDULE												
	DOORS	6	FRAMES										
[[MARK	SIZE (WxHxT)	MATERIAL	TYPE	FIRE LABEL	GLAZING	HDWE. SET	TYPE	MATERIAL	HEAD	JAMB		
[[100	PAIR 4'-0" x 7'-0" x 1 3/4"	ALUM	FG2	0	1/4" TEMP	1	3	ALUM	H6	J5/J6		
	101	PAIR 3'-0" x 7'-0" x 1 3/4"	ALUM	FG2	0	1/4" TEMP	1	3	ALUM	H6	-		









HVAC SPECIFICATIONS

- 1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE HEATING AND COOLING SYSTEM AS INDICATED AND SPECIFIED ON THE DRAWINGS.
- 2. WORK SHALL COMPLY WITH IMC, NFPA, ALL APPLICABLE LAWS, ORDINANCES & CODES OF THE STATE OF TENNESSEE, LOCAL AUTHORITIES HAVING JURISDICTION AND WITH APPLICABLE RULES & REGULATIONS.
- 3. OBTAIN ALL PERMITS & INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK & PAY ALL FEES & COSTS IN CONNECTION THEREWITH.
- 4. THE MECHANICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC AND UNLESS SPECIFICALLY DIMENSIONED, THE LOCATIONS OF DUCTWORK AND EQUIPMENT AND THE ROUTING OF DUCTWORK IS APPROXIMATE ONLY AND SHALL NOT BE SCALED FROM THE MECHANICAL DRAWINGS.
- 5. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 6. SUBMIT TO THE ARCHITECT FOR APPROVAL, 10 DAYS AFTER RECEIPT OF NOTICE TO PROCEED WITH THE WORK, A COMPLETE LIST OF MATERIALS, EQUIPMENT AND ACCESSORIES PROPOSED FOR USE, INCLUDING COMPLETE DESCRIPTIONS AND SPECIFICATIONS OF ANY PROPOSED SUBSTITUTIONS, MANUFACTURER'S SHOP DRAWINGS, ROUGHING-IN DRAWINGS, AND ANY OTHER INFORMATION REQUIRED FOR THE PROPER INSTALLATION OF THE WORK. SUBMITTALS SHALL BE IN PDF FORMAT (NO PAPER COPIES).
- 7. ALL DUCTWORK SHALL BE GALVANIZED STEEL FABRICATED ACCORDING TO SMACNA DETAILS. DUCTS SHALL BE SIZE INDICATED ON DRAWINGS (NET INSIDE DIMENSIONS), RIGIDLY BRACED, ADEQUATELY SUPPORTED & SECURELY FASTENED IN PLACE.
- 8. FLEXIBLE DUCT FOR INSULATED SYSTEMS SHALL BE THERMAFLEX M-KF, OR EQUAL, PRE-INSULATED DUCT WITH A MINIMUM R-VALUE OF 6.0. FLEXIBLE DUCT FOR NON-INSULATED DUCT SYSTEMS SHALL BE THERMAFLEX S-LD, OR EQUAL. ALL FLEXIBLE DUCT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DUCT RUNS SHALL BE AS STRAIGHT AS POSSIBLE AND LIMITED TO MAXIMUM OF 5 FEET IN LENGTH.
- 9. INSULATE ALL SHEET METAL SUPPLY AIR DUCTWORK WITH 2.2" THICK OWENS-CORNING ASW DUCTWRAP. THOROUGHLY TAPE ALL JOINTS AND SEAMS.
- 10. LINE ALL DUCTWORK (IN ADDITION TO DUCTWRAP) WITH 1" THICK OWENS-CORNING FIBERGLASS DUCT LINER WHERE INDICATED ON THE DRAWINGS.
- 11. INSTALL SINGLE WALL TURNING VANES AT RIGHT ANGLES AND SMALL RADIUS TURNS IN DUCTS. MAKE REDUCTIONS IN DUCT SIZE WITH TAPERED TRANSITION PIECES. TRANSITIONS FOR CONNECTIONS TO EQUIPMENT SHALL BE DESIGNED TO SUIT CONDITIONS AND SO THAT AIR FLOW IS NOT RESTRICTED.
- 12. WHEN THE INSTALLATION IS COMPLETE, IT SHALL BE RUN & ADJUSTED BY THE CONTRACTOR. ANY EXCESSIVE NOISE OR VIBRATION SHALL BE CORRECTED.
- 13. SUBMIT WRITTEN AIR BALANCE REPORT TO THE ARCHITECT A MINIMUM OF 10 DAYS PRIOR TO THE FINAL INSPECTION. THE AIR BALANCE CONTRACTOR SHALL BE AABC OR NEBB CERTIFIED.
- 14. THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION OF EQUIPMENT & PROVIDE THE OWNER WITH A COMPLETE SET OF OPERATING INSTRUCTIONS FOR EQUIPMENT INSTALLED UNDER HIS CONTRACT.
- 15. THE WORK SHALL BE GUARANTEED AGAINST ALL DEFECTIVE MATERIALS & EQUIPMENT FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE. THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS WITHOUT COST TO THE OWNER.

PLUMBING SPECIFICATIONS

- 1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE PLUMBING SYSTEM AS INDICATED AND SPECIFIED ON THE DRAWINGS.
- 2. WORK SHALL COMPLY WITH THE INTERNATIONAL PLUMBING CODE AND ALL APPLICABLE LAWS, ORDINANCES & CODES OF THE STATE OF TENNESSEE, LOCAL AUTHORITIES HAVING JURISDICTION AND WITH APPLICABLE RULES & REGULATIONS.
- OBTAIN ALL PERMITS & INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK & PAY ALL FEES & COSTS IN CONNECTION THEREWITH.
- 4. THE PLUMBING DRAWINGS ARE GENERALLY DIAGRAMMATIC AND UNLESS SPECIFICALLY DIMENSIONED. THE LOCATIONS OF FIXTURES AND EQUIPMENT AND THE ROUTING OF PIPING IS APPROXIMATE ONLY AND SHALL NOT BE SCALED FROM THE PLUMBING DRAWINGS.
- 5. INSTALL ALL EQUIPMENT AND FIXTURES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 6. INTERIOR SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV ASSEMBLED WITH SOLVENT WELD JOINTS.
- 7. ABOVE GRADE DOMESTIC WATER PIPING SHALL BE HARD DRAWN COPPER, TYPE "L" PIPING ASSEMBLED WITH WROUGHT COPPER SOLDER FITTINGS. CONNECTIONS OF COPPER PIPE TO FERROUS PIPE SHALL BE MADE WITH DIELECTRIC UNIONS OR COUPLINGS.
- 8. DOMESTIC WATER PIPING MAY BE CROSSLINKED POLYETHYLENE PEXA OR PEXB AS MANUFACTURED BY ZURN, REHAU OR UPONOR. FITTINGS SHALL BE AS RECOMMENDED BY THE PEX MANUFACTURER. PIPE SIZES ARE BASED UPON COPPER, INCREASE SIZES AS RECOMMENDED BY THE MANUFACTURER.
- 9. SUBMIT TO THE ARCHITECT FOR APPROVAL, 10 DAYS AFTER RECEIPT OF NOTICE TO PROCEED WITH THE WORK, A COMPLETE LIST OF MATERIALS, EQUIPMENT AND ACCESSORIES PROPOSED FOR USE, INCLUDING COMPLETE DESCRIPTIONS AND SPECIFICATIONS OF ANY PROPOSED SUBSTITUTIONS, MANUFACTURER'S SHOP DRAWINGS, ROUGHING-IN DRAWINGS, AND ANY OTHER INFORMATION REQUIRED FOR THE PROPER INSTALLATION OF THE WORK. SUBMITTALS SHALL BE IN PDF FORMAT (NO PAPER COPIES).
- 10. AFTER THE WATER SYSTEM HAS BEEN TESTED FOR LEAKS AND BEFORE THE SYSTEM HAS BEEN PLACED IN USE, INTRODUCE HTH SOLUTION, CHLORINE GAS, OR OTHER SIMILAR CHLORINATING AGENT IN SUFFICIENT QUANTITY TO PRODUCE A RESIDUAL OF 100 PPM THROUGHOUT THE ENTIRE SYSTEM AND ALLOW TO STAND THUS FILLED FOR 24 HOURS. AFTER THE 24 HOURS PERIOD, FLUSH CLEAN WATER THROUGHOUT THE PIPING SYSTEM UNTIL ALL NOTICEABLE TRACE OF CHLORINE GAS HAS DISAPPEARED. VERIFY PROCEDURES AND TESTING REQUIREMENTS WITH THE PUBLIC HEALTH AGENCY HAVING JURISDICTION.
- 11. THE WORK SHALL BE GUARANTEED AGAINST ALL DEFECTIVE MATERIALS & WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE. THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS WITHOUT COST TO THE OWNER.

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<u>NO</u> (1)	<u>TES:</u> VERIFY VOLTA	.0
(2)	COOLING RAT	I١
(3)	RTU-2: SUPPL	Y
(4)	UNIT SHALL BI	Ξ
(5)	UNIT SHALL BI	E
(6)	INSTALL 2 TIG	Η
(7)	UNIT SHALL BI	Ξ

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DUCT LEGEND



HEAT	PUN	IP (RTU)	SCHEDULE											
		AIR SYSTE	M	COOLING	CAPACITY	MIN	H	EATING C	CAPACITY ELEC. HEAT COP MCA MOCP					
TOTAL	O.A.	MIN.	EXT. STATIC	SENS	TOTAL		@ 17°F	@ 47°F	ELEC.	HEAT	COP	MCA	MOCP	
CFM	CFM	FAN HP	(INCHES W.G.)	(MBH)	(MBH)		(MBH)	(MBH)	KW	STEPS				
2000	450	1.5	1.0	49.8	60.4	11.7	43.7	65.3	15	1	3.2	37.0	40.0	

GE BEFORE ORDERING EQUIPMENT

NGS FOR 95°F AMBIENT; 67°WB & 80°DB E.A.T. - HEATING RATINGS FOR 70°F E.A.T.

Y AND RETURN SMOKE DETECTORS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. DETECTORS SHALL MEET ALL REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE SECTION 606. EFURNISHED WITH MICROPROCESSOR CONTROLS, LOW AMBIENT COOLING TO 0°F, MODULATING HOT GAS REHEAT, SCR MODULATING CONTROL FOR ELECTRIC HEAT, ROOF CURB, AND 100% ECONOMIZER WITH BAROMETRIC RELIEF E FURNISHED WITH 7-DAY PROGRAMMABLE THERMOSTAT W/ HUMIDITY SENSOR TO ACTIVATE THE HOT GAS REHEAT COIL AS REQUIRED FOR HUMDITY CONTROL; OA DAMPER OPENS ONLY DURING OCCUPIED PERIODS 1T FITTING LAYERS OF 5/8" CEMENT BOARD WITH JOINTS OVERLAPPING & 2" THICK RIGID THERMAFIBER ACOUSTIC INSULATION INSIDE EACH ROOF CURB EFURNISHED WITH ELECTRICAL NON-FUSED DISCONNECT AND POWERED CONVENIENCE OUTLET

R/GRILLE SCHEDULE

RVICE	DESCRIPTION	ACCESSORIES/DETAILS
UPPLY	PRICE SMD-1 LOUVERED FACE DIFFUSER, SURFACE MOUNTED TYPE, 4-WAY BLOW	OPPOSED BLADE DAMPER, SQUARE TO ROUND APAPTER, PLAST
ETURN	PRICE 80D-TB EGG CRATE RETURN GRILLE, LAY-IN TYPE, 1/2" CUBES	OPPOSED BLADE DAMPER, SQUARE TO ROUND APAPTER

	PLUMBING FIXTURE SCHEDULE DESCRIPTION CW HW SINK - EYEWASH ELKAY, LR3319 LUSTERTONE 2 BOWL 18GA STAINLESS STEEL 33" X 19-1/2" X 7-5/8" DROP IN SINK 1/2" 1/2" MERGENCY EYE WASH AND FAUCET BRADLEY, S19-500W TWO HANDLE CERAMIC VALVE GOOSENECK FAUCET WITH INTEGRAL 5.1 GPM EYEWASH SWING FROM RIGHT SIDE WHICH INCLUDES INTEGRAL STRAINER, SELF DRAINING SPRAYHEAD AND IS ONE STEP ACTIVATION 1/2"										
DESCRIPTION	SPECIFICATION	CW	HW								
SINK - EYEWASH	ELKAY, LR3319 LUSTERTONE 2 BOWL 18GA STAINLESS STEEL 33" X 19-1/2" X 7-5/8" DROP IN SINK	1/2"	1/2"								
EMERGENCY EYE WASH AND FAUCET	BRADLEY, S19-500W TWO HANDLE CERAMIC VALVE GOOSENECK FAUCET WITH INTEGRAL 5.1 GPM EYEWASH SWING FROM RIGHT SIDE WHICH INCLUDES INTEGRAL STRAINER, SELF DRAINING SPRAYHEAD AND IS ONE STEP ACTIVATION										
DRAIN	ZURN, Z8741-PC HEAVY DUTY BASKET STRAINER WITH CAST BRASS LOCK AND COUPLING NUT										
P-TRAP	ZURN, Z8702-PC 1-1/2" CAST BRASS 17 GAUGE P-TRAP WITH CLEANOUT										
EMERGENCY THERMOSTATIC MIXING VALVE	BRADLEY, S19-2010 ASSE 1071 AND 1017 THERMOSTATIC SAFETY MIXING VALVE AND STANDARD THERMOSTATIC MIXING VALVE WITH CHECK STOPS ON INLET ACCURATE TEMPERATURE CONTROL TO WITHIN +/- 3 DEGREES, BUILT-IN COLD WATER BYPASS ON SAFETY SIDE ASSURING COLD FLOW IF FAILURE OCCURS FROM HOT SUPPLY, POSITIVE										
SUPPLIES	ZURN, Z8804-XL-8860-20-LRQ-PC 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEONS, 1/4 TURN CHROME PLATED STOPS AND 20 INCH BRAIDED STAINLESS STEEL SUPPLY LINES										
CONTINUOUS WASTE	ZURN, Z8751 1-1/2" 20 GAUGE CONTINUOUS WASTE END OUTLET WITH CAST BRASS TEE										

PLUMBING LEGEND











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Hilti Firestop Systems

	LIGHTING FIXTURE SCHEDULE													
		ILLUMI	NATION		N	NON	NTIN	NG						
		CEILING WALL												
IGNATION	IS	IVERED LUMENS	or temperature (*K)	IMUM CRI	DANT M LENGTH	FACE	ESSED	SHT ABOVE FINISHED OR OR GRADE	DESCRIPTION: SHIELDING, TYPE MATERIALS, FINISH, MOUNTING	MANUFA PRODU	* EQUAL PRODUCT PERMITTED		REMARKS	
DES	WAT	DEL	COL	MIN	PEN	SUR	REC	HEI(FLO(COMPANY	CATALOG NO.	YES	NO	
A	39	4800	3500	80			•		2'x4' FLAT PANEL, 1% DIMMING DRIVER	LITHONIA	EPANL-2X4 4800LM-80CRI -35K-MIN1- ZT-MVOLT	•		
В	31	4000	3500	80			•		2'x2' FLAT PANEL, 1% DIMMING DRIVER	LITHONIA	EPANL-2X2 4000LM-80CRI -35K-MIN1- ZT-MVOLT	•		
С	28.2	3000	3500	80		•			WALL MOUNTED LENSED TASK LIGHT AT BED, 4'-0" LONG, WHITE FINISH	LITHONIA	WL4 30L MVOLT GZ10 LP835	•		
*	UNLESS CONCE	S NOTE RNING	D, EQU EQUIVA	AL PRO	DDUCT OF SL	TO JBST	THA TITU	T SPECI TION.	FIED WILL BE ACCEPTED. THE DESIG	N PROFESSIONAL	SHALL HAVE SOLE	E JUD	GEME	NT



THREE-PHASE DRY-TYPE TRANSFORMER GROUNDING DETAIL



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SCALE: $\frac{1}{4}$ " = 1'-0" 0' 2' 4' LIGHTING NOTES: EXIT SIGNS, BUILT-IN BATTERY PACKS AND EXTERIOR EMERGENCY LIGHTS SHALL BE CONNECTED TO LOCAL UNSWITCHED LIGHTING CIRCUITS AS INDICATED ON DRAWINGS. REMOVE EXISTING LIGHTING FIXTURES AND ASSOCIATED LIGHTING FIXTURES AND WIRING INDICATED. REVISE WIRING AS REQUIRED. MAINTAIN SERVICE TO "DOWN

<u>FLOOR PLAN – LIGHTING</u>

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.

WIRING IN RENOVATION AREA AND REPLACE WITH NEW STREAM'' LIGHTING LOCATED OUTSIDE RENOVATION AREA.







EQUIPMENT WITH MECHANICAL/PLUMBING CONTRACTOR PRIOR TO INSTALLATION OF CONDUIT. 4. "AC" BY DEVICE INDICATES DEVICE TO BE MOUNTED ABOVE COUNTER SUCH THAT BOTTOM OF BOX IS 2" ABOVE COUNTER OR COUNTER BACKSPLASH, AS APPLICABLE. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR COUNTER DETAILS.



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+78"

RECESSED OUTLET BOXES ON OPPOSITE SIDES OF FIRE RATED PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF AT LEAST 24 INCHES.

2. PRIOR TO BEGINNING CONDUIT INSTALLATION FOR HVAC/PLUMBING EQUIPMENT ELECTRICAL CONTRACTOR SHALL CONFIRM WITH MECHANICAL/PLUMBING CONTRACTOR THE VOLTAGES FOR ALL HVAC/PLUMBING EQUIPMENT REQUIRING ELECTRICAL SERVICE. ELECTRICAL CONTRACTOR SHALL CALL ANY DISCREPANCIES BETWEEN ELECTRICAL DRAWINGS AND VOLTAGE INFORMATION PROVIDED BY MECHANICAL/PLUMBING CONTRACTOR TO THE ATTENTION OF ENGINEER PRIOR TO PROCEEDING WITH WORK.

3. CONFIRM EXACT ROUGH-IN LOCATIONS FOR ALL HVAC/PLUMBING

5. ''#'' BY J. BOX ''DC'' INDICATES CONTRACTOR TO PROVIDE A SPECIAL PURPOSE 208-VOLT, 3-PHASE, RECEPTACLE ON DROP CORD FOR HEAT TRANSFER EQUIPMENT. CONFIRM RECEPTACLE CONFIGURATION REQUIRED FOR HEAT TRANSFER EQUIPMENT WITH OWNER PRIOR TO ORDERING MATERIALS.





ELECTRICAL SPECIFICATIONS

- SCOPE: FURNISH PLANT, LABOR, MATERIAL, SERVICES, AND EQUIPMENT NECESSARY FOR AND REASONABLY INCIDENTAL TO THE INSTALLATION OF ELECTRICAL FACILITIES SHOWN ON THE DRAWINGS AND CALLED FOR HEREINAFTER.
- CODES AND PERMITS: SECURE NECESSARY PERMITS, PAY NECESSARY FEES, CONFORM TO ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES.
- POWER SERVICE: POWER SERVICE SHALL BE TAKEN FROM THE EXISTING BUILDING POWER DISTRIBUTION SYSTEM AS INDICATED ON DRAWINGS.
- WIRING METHODS: FURNISH AND INSTALL A SYSTEM OF LINE VOLTAGE POWER WIRING FOR RENOVATION AREA AS INDICATED ON DRAWINGS AND AS SET FORTH HEREINAFTER. ALL WIRING SHALL BE RUN CONCEALED TO THE MAXIMUM EXTENT POSSIBLE. UTILIZE ELECTRICAL-METALLIC TUBING (EMT) FOR NEW CONDUIT RUNS THAT ARE CONCEALED ABOVE LAY-IN ACOUSTICAL TILE CEILINGS AND CONCEALED IN NEW WALL CONSTRUCTION. EXISTING CONDUIT AND BOXES MAY BE UTILIZED WHERE PRACTICABLE TO ACHIEVE NEW BRANCH WIRING ARRANGEMENTS SHOWN ON DRAWINGS. OTHERWISE, PROVIDE ALL NEW CONDUIT AND BOXES AS ILLUSTRATED. PROVIDE TWO COMPARTMENT SURFACE NON-METALLIC RACEWAY SYSTEM WHERE INDICATED ON DRAWINGS. OTHERWISE, ALL NEW WIRING SHALL BE INSTALLED CONCEALED UNLESS SPECIFIC PERMISSION IS GIVEN BY ARCHITECT FOR EXPOSED WIRING. THE EXCEPTION SHALL BE WIRING FOR NEW WATER HEATERS AND RECIRCULATION PUMPS SHALL BE PERMITTED TO BE RUN EXPOSED IN STORAGE AND PREP ROOMS. ALL CONDUCTORS SHALL BE COPPER WITH "THHN/THWN" INSULATION. PROVIDE COLOR CODING OF CONDUCTORS IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE REQUIREMENTS. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG WITH LARGER SIZES WHERE INDICATED ON DRAWINGS. ALL WIRING (CONCEALED AND EXPOSED) SHALL BE RUN IN A NEAT AND WORKMANLIKE MANNER. PARALLEL OR PERPENDICULAR TO BUILDING STRUCTURAL ELEMENTS. NO DIAGONAL RUNS WILL BE PERMITTED. NEW EXPOSED WIRING RUNS SHALL BE SUBJECT TO APPROVAL OF ROUTING IN ADVANCE OF INSTALLATION BY ARCHITECT.
- PANELBOARDS: FURNISH AND INSTALL NEW BRANCH CIRCUIT PANELBOARDS WHERE INDICATED ON DRAWINGS. NEW PANELBOARDS SHALL BE RATED 120/208-VOLT, 3-PHASE, 4-WIRE, OR 480/277-VOLT, 3-PHASE, 4-WIRE AS INDICATED ON DRAWINGS. NEW PANELBOARDS SHALL BE SIMÍLAR AND EQUAL TO SQUARE D "NQ" OR "NF" SERIES FOR THE PARTICULAR VOLTAGE REQUIRED FOR EACH RESPECTIVE PANELBOARD. ALL BUSING IN NEW PANELBOARD SHALL BE COPPER. UTILIZE "BOLT-ON" TYPE CIRCUIT BREAKERS IN EACH NEW PANELBOARD. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORY IN EACH PANELBOARD IDENTIFYING TYPE OF LOAD AND LOCATION OF LOAD FOR EACH PANELBOARD. HANDWRITTEN CIRCUIT DIRECTORIES WILL NOT BE PERMISSIBLE.
- DRY TYPE TRANSFORMER: FURNISH AND INSTALL DRY TYPE TRANSFORMER WHERE INDICATED ON DRAWINGS. DRY TYPE TRANSFORMER SHALL UTILIZE ALUMINUM WINDINGS AND SHALL BE RATED 115-DEGREE CELSIUS RISE. REFER TO DRAWINGS FOR KVA AND VOLTAGE RATINGS OF DRY TYPE TRANSFORMER PROVIDED AS PART OF THIS PROJECT.
- WORK AT EXISTING SWITCHBOARD: MAKE MODIFICATIONS TO EXISTING SWITCHBOARD AS ILLUSTRATED ON DRAWINGS. PROVIDE NEW CIRCUIT BREAKER IN EXISTING 480/277-VOLT SWITCHBOARD TO SERVE NEW FEEDER AS INDICATED ON PLANS. PROVIDE NEW ENGRAVED LABEL ON EXISTING SWITCHBOARD IDENTIFYING LOAD SERVED BY NEW CIRCUIT BREAKER.
- SAFETY SWITCHES: FURNISH AND INSTALL HEAVY-DUTY FUSIBLE TYPE SAFETY SWITCHES WHERE ILLUSTRATED ON DRAWINGS. SAFETY SWITCHES SHALL BE HEAVY DUTY, HORSEPOWER RATED, QUICK MAKE, QUICK BREAK WITH ARC SHIELD, WITH ENCLOSED CONSTRUCTION. UTILIZE NEMA 3R ENCLOSURES FOR OUTDOOR SAFETY SWITCHES. WHERE SAFETY SWITCHES ARE REQUIRED TO BE INSTALLED AWAY FROM WALLS, A SUITABLE SUPPORT WILL BE PROVIDED BY ELECTRICAL CONTRACTOR TO ALLOW THE SWITCH TO BE IN A POSITION OF APPROXIMATELY 4' ABOVE FLOOR OR ROOF LEVEL. SWITCHES MAY BE MOUNTED ON EQUIPMENT WHERE SPECIFIC APPROVAL IS PROVIDED BY EQUIPMENT SUPPLIER.
- MANUAL MOTOR STARTERS: FURNISH AND INSTALL MANUAL MOTOR STARTERS FOR FRACTIONAL HORSEPOWER EQUIPMENT AS INDICATED ON DRAWINGS. NEW MOTOR STARTERS SHALL BE SIMILAR AND EQUAL TO SQUARE D COMPANY 2510 SERIES, CATALOG NO. FF-1P OR FF-2P, DEPENDING UPON SINGLE-POLE OR DOUBLE-POLE APPLICATIONS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- WIRING DEVICES: FURNISH AND INSTALL NEW DUPLEX PLUG RECEPTACLES. GFCI DUPLEX PLUG RECEPTACLES, WALL SWITCHES, ETC., AS INDICATED ON DRAWINGS. NEW WIRING DEVICES SHALL BE TAMPER RESISTANT WITH MINIMUM RATING OF 20-AMPERES. PROVIDE STAINLES STEEL COVERPLATES. COLOR OF DEVICES SHALL BE IVORY, WHITE, OR GRAY AS DIRECTED BY ARCHITECT.
- I. SURFACE NON-METALLIC RACEWAY SYSTEM: FURNISH AND INSTALL SURFACE NON-METALLIC RACEWAY FOR NEW WIRING REQUIRED ON EXISTING WALLS IN THE BUILDING AS ILLUSTRATED ON DRAWINGS. WHERE TWO-COMPARTMENT RACEWAY IS SHOWN, SURFACE NON-METALLIC RACEWAY SHALL HAVE A BUILT-IN DIVIDER FOR SEPARATION OF POWER AND COMMUNICATIONS WIRING. UTILIZE PANDUIT COMPANY T-70 SERIES WITH BUILT-IN DIVIDER OR EQUAL BY WIREMOLD OR HUBBELL IN THESE APPLICATIONS. THESE RACEWAYS SHALL BE 4-3/4" WIDE BY 1-1/4" DEEP. PROVIDE PLUG RECEPTACLES AND PROVISIONS FOR DATA OUTLETS IN RACEWAY AS INDICATED ON DRAWINGS. PROVIDE ALL NECESSARY ACCESSORIES INCLUDING DEVICE FACEPLATES, BOXES, T-CONNECTIONS, SUPPORT BRACKETS, ETC., FOR COMPLETE INSTALLATION. ELSEWHERE, WHERE NEW WIRING IS SHOWN ON EXISTING WALLS, PROVIDE SURFACE NON-METALLIC RACEWAY, SIMILAR AND EQUAL TO PANDUIT LDP SERIES. PROVIDE ALL NECESSARY ACCESSORIES INCLUDING SURFACE MOUNTED BOXES AND COVERS FOR COMPLETE INSTALLATION. INSTALLATION OF TWO-COMPARTMENT RACEWAYS AND SMALLER LDP RACEWAYS SHALL BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. FURNISH AND INSTALL THE NECESSARY FITTINGS, ACCESSORIES, COUPLINGS, WIRE CLIPS, TRANSITION ELEMENTS, ETC., NECESSARY FOR AND REASONABLY INCIDENTAL TO THE PROPER INSTALLATION OF THE RACEWAY SYSTEM. CONFIRM EXACT ROUTING IN FIELD SO AS TO AVOID EXISTING OBSTRUCTIONS.
- 12. FIRE ALARM SYSTEM: EXPAND THE EXISTING BUILDING FIRE ALARM SYSTEM INTO RENOVATION AREA AS REQUIRED. ALL NEW EQUIPMENT SHALL BE COMPATIBLE WITH THE EXISTING BUILDING FIRE ALARM SYSTEM AND SHALL BE OF THE MAKE/MODEL RECOMMENDED FOR USE BY EXISTING SYSTEM MANUFACTURER. NO SUBSTITUTIONS WILL BE PERMITTED. TEST SYSTEM AT CONCLUSION OF JOB TO INSURE PROPER OPERATION IN ACCORDANCE WITH NFPA 72 AND REQUIREMENTS OF LOCAL AHJ. INCLUDE TEST REPORTS AS PART OF PROJECT CLOSE-OUT DATA.
- 13. INTERCOM SYSTEM EXPANSION: EXPAND EXISTING BUILDING INTERCOM SYSTEM INTO RENOVATION AREA AS INDICATED ON DRAWINGS AND AS CALLED FOR HEREINAFTER. FURNISH AND INSTALL NEW CEILING RECESSED INTERCOM LOUDSPEAKERS, WIRING, AND ALL REQUIRED MODIFICATIONS, RE-PROGRAMMING, ETC. AT EXISTING MAIN OFFICE INTERCOM SYSTEM SO AS TO INCORPORATE NEW DEVICES, EQUIPMENT, WIRING SERVING NEW DEVICES, EQUIPMENT WIRING SERVING NEW DIGITAL ARTS CLASSROOM INTO EXISTING INTERCOM SYSTEM. ALL NEW EQUIPMENT SHALL BE AS RECOMMENDED BY AUTHORIZED VENDOR OF EXISTING INTERCOM SYSTEM. NO SUBSTITUTES WILL BE PERMITTED. EXISTING SYSTEM UTILIZES A NORTEL PHONE SYSTEM. ALL NEW EQUIPMENT SHALL BE COMPATIBLE WITH THIS EXISTING SYSTEM AND INSTALLED BY AUTHORIZED VENDOR OF THIS SYSTEM.
- 4. GROUNDING: FURNISH AND INSTALL GROUNDING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. PROVIDE A SEPARATE CODE-SIZED EQUIPMENT GROUNDING CONDUCTOR IN ALL NEW BRANCH CIRCUIT WIRING RUNS. SEPARATE GROUNDING CONDUCTOR IS GENERALLY NOT ILLUSTRATED ON THE DRAWINGS BUT SHALL BE REQUIRED. GROUND EQUIPMENT AND LIGHTING FIXTURES IN ACCORDANCE WITH CODE. GROUND DRT-TYPE TRANSFORMER IN ACCORDANCE WITH CODE, SEE DETAIL ON DRAWINGS.
- 15. SITE VISITATION: VISIT THE SITE SO AS TO HAVE A FULL UNDERSTANDING OF WORK REQUIRED IN THE EXISTING BUILDING. MAKE DUE ALLOWANCE FOR SAME IN BID PRICE. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL CONFIRM THAT INFORMATION SHOWN ON DRAWINGS REGARDING EXISTING ELECTRICAL ARRANGEMENT IS ACCURATE. CALL ANY DISCREPANCIES THAT ARE DISCOVERED TO THE IMMEDIATE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- 16. SUBMITTALS: PROVIDE SUBMITTALS FOR REVIEW BY ARCHITECT AND ENGINEER. SUBMITTALS SHALL BE PROVIDED IN ELECTRONIC PDF FILE FORMAT WITH DESCRIPTIVE FILENAMES AND ALL MANUFACTURER'S CUT SHEETS APPROPRIATELY HIGHLIGHTED TO CLEARLY NOTE THE SPECIFIC EQUIPMENT BEING PROPOSED FOR USE ON THIS PROJECT. SUBMITTALS ON THIS PROJECT SHALL INCLUDE WIRING DEVICES, SWITCHGEAR, FIRE ALARM, INTERCOM, AND SURFACE NON-METALLIC RACEWAY SYSTEM.
- 17. GUARANTY: GUARANTEE ALL WORK TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF JOB. MAKE ALL REPAIRS/REPLACEMENT OF DEFECTIVE PARTS/LABOR DURING WARRANTY PERIOD AT NO ADDITIONAL COST TO THE OWNER.

PAN	MAINS: 20 EL H1 MAIN BREAKER: N FEEDER SIZE: #	00A ⊃ 3∕6	SH	VOLT ORT CKT	AGE/F CAP FED	PHASE: ACITY: FROM:	480/2 40,00 EXIST	277V,3 0 ING S	Ø WITCHBC	ARD	MOUNT EN	ING: SURFACE TRY: TOP BUS: COPPER	
CKT.	SERVES	L	LOAD (kVA)			BREAKER		BREAKER		DAD (kVA	4)		CKT.
NO.		ØA	øВ	øC	TRIP	POLE	POLE	TRIP	ØA	øВ	øC	SERVES	NO.
1	RTU-1	8.4			60	3	3	70	15.0			TRANSFORMER "L1"	2
3			8.4							15.0			4
5				8.4							15.0		6
7	SPACE ONLY				60	3	3	60				SPACE ONLY	8
9													10
11													12
13	SPACE ONLY				20	1	1	20				SPACE ONLY	14
15	SPACE ONLY				20	1	1	20				SPACE ONLY	16
17	SPACE ONLY				20	1	1	20				SPACE ONLY	18
19	SPACE ONLY				20	1	1	20				SPACE ONLY	20
21	SPACE ONLY				20	1	1	20				SPACE ONLY	22
23	SPACE ONLY				20	1	1	20				SPACE ONLY	24
SUB	TOTAL CONNECTED	8.4	8.4	8.4					15.0	15.0	15.0	SUB TOTAL CONNECTED	
SUB TOTAL CONNECTED ØA: 23.4 SUB TOTAL CONNECTED ØB: 23.4 SUB TOTAL CONNECTED ØC: 23.4 TOTAL CONNECTED: 70.2													
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BID.





MAIN BREAKER: NO FEEDER SIZE: #16 SERVES 0.4 PTACLES 0	SH OAD (kV, ØB 0.6 0.4	A) ØC 0.4 1.0	FED FED BRE TRIP 20 20 20 20 20 20 20 20 20 20 20 20 20	ACITY: FROM: AKER POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10,00 H1 (V BRE/ POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 /IA TR/ KER TRIP 20 20 20 20 20 20 20 20 20 20 20 20 20	ANSFORM	MER) DAD (kV/ ØB 0.4 0.4	EN (N) (0.4 (0.5)	TRY: TOP BUS: COPPER RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RTU'S RECEPTACLES RECEPTACLES	CKT NO 2 4 6 8 10 12
FEEDER SIZE: #½ SERVES	OAD (kV. ØB 0.6 0.4	A) ØC 0.4 1.0	FED BRE/ TRIP 20	FROM: AKER POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H1 (V BRE/ POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/IA TR/ KER TRIP 20 20 20 20 20 20 20 20 20 20 20 20 20	ANSFORM ØA 1.0 0.4 1.0	MER) DAD (kV/ ØB 0.4 0.4	() ØC 0.4 0.5	BUS: COPPER SERVES RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RTU'S RECEPTACLES RECEPTACLES	CKT NO 2 4 6 8 10 12
SERVES Image: serves Image: serves Image: serves 0.4 Image:	OAD (kV) ØB 0.6 0.4	A) ØC 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	BRE/ TRIP 20	AKER POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BRE/ POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 1	KER TRIP 20 20 20 20 20 20 20 20 20 20 20 20 20	Ld ØA 1.0 0.4 1.0	DAD (kV/ ØB 0.4 0.4) øC 0.4 0.5	SERVES RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RTU'S RECEPTACLES RECEPTACLES	CKT NO 2 4 6 8 10 12
ØA TACLES O.4 TACLES TACLES TACLES NG	ØB 0.6 0.4	ØC 0.4 1.0	TRIP 20	POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	POLE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TRIP 20 20 20 20 20 20 20 20 20 20 20 20 20<	ØA 1.0 0.4 1.0	ØB 0.4 0.4	ØC 0.4 0.5	RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RTU'S RECEPTACLES RECEPTACLES	NO 2 4 6 8 10 12
TACLES 0.4 TACLES TACLES TACLES O.4 TACLES NG	0.6	0.4	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 3 1	20 20 20 20 20 20 20 20 20 20 20	1.0 0.4 1.0	0.4	0.4	RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RTU'S RECEPTACLES RECEPTACLES	2 4 6 8 10 12
TACLES TACLES TACLES O.4 TACLES NG	0.6	0.4	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 3 1	20 20 20 20 20 20 20 20 20 20	0.4	0.4	0.4	RECEPTACLES RECEPTACLES RECEPTACLES RECEPTACLES RTU'S RECEPTACLES RECEPTACLES	4 6 8 10
TACLES TACLES TACLES NG	0.4	0.4	20 20 20 20 20 20 20 20 20 20 20 20 20	1 1 1 1 1 1 1 1 1 1 1 1	$ \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 3 \\ 1 \end{array} $	20 20 20 20 20 20 20 20	0.4	0.4	0.4	RECEPTACLES RECEPTACLES RECEPTACLES RTU'S RECEPTACLES RECEPTACLES	6 8 10 12
TACLES 0.4 TACLES NG	0.4	1.0	20 20 20 20 20 20 20 20 20 20 20 20	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 3 1	20 20 20 20 20 20	0.4	0.4	0.5	RECEPTACLES RECEPTACLES RTU'S RECEPTACLES RECEPTACLES	8 10 12
TACLES NG	0.4	1.0	20 20 20 20 20 20 20 20 20 20 20	1 1 1 1 1 1 1 1	1 1 1 1 3 1	20 20 20 20 20	1.0	0.4	0.5	RECEPTACLES RTU'S RECEPTACLES RECEPTACLES	10
NG		1.0	20 20 20 20 20 20 20 20 20 20	1 1 1 1 1 1 1	1 1 1 3 1	20 20 20 20	1.0	1.0	0.5	RTU'S RECEPTACLES	12
			20 20 20 20 20 20 20 20 20	1 1 1 1 1 1	1 1 1 3	20 20 20	1.0	1.0		RECERTACIES	
			20 20 20 20 20 20 20 20	1 1 1 1	1 1 3	20 20		1.0		INLULF IAULLS	14
			20 20 20 20 20 20	1 1 1 1	1 3	20		1.0		RECEPTACLES	16
			20 20 20 20	1 1 1	3					SPARE	18
			20 20 20	1	1	20				SPARE	20
			20 20	1		20				SPARE	22
			20		1	20				SPARE	24
			20	1	1	20				SPARE	26
			1 20	1	1	20				SPARE	28
			20	1	1	20				SPARE	30
			20	1	1	20				SPARE	32
	1		20	1	1	20				SPARE	34
			20	1	1	20				SPARE	36
			20	1	1	20				SPARE	38
			20	1	1	20				SPARE	40
			20	1	1	20				SPARE	42
ONLY			20	1	1	20				SPACE ONLY	44
ONLY			20	1	1	20				SPACE ONLY	46
ONLY			20	1		20				SPACE ONLY	48
ONLY			20	1	1	20				SPACE ONLY	50
ONLY			20	1	1	20				SPACE ONLY	52
ONLY			20	1		20				SPACE ONLY	54
NNECTED 0.8	1.0	1.4					2.4	1.8	0.9	SUB TOTAL CONNECTED	
						0741 0		40.07			
NNECTED ØA: 3.2 SUB TOT	AL CONNE	CIED ØB:	2.0		SOB 1	UTAL U	JNNECTEL	ØC: 2.3		TUTAL CONNECTED: 8.3	
6"x20" SINGLE-SECTION PANEL	•										