

1 Holbrook Place Ansonia, Connecticut 06401

SILVER / PETRUCELLI + ASSOCIATES Architects / Engineers / Interior Designers 3190 Whitney Avenue, Hamden, CT 06518-2340 One Post Hill Place, New London, CT 06320 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucelli.com



Ansonia Housing Authority 1 Holbrook Place Apartment Upgrades

APRIL 13, 2022

Issued for Bid



Project Title: Ansonia Housing Authority Apartment Building Renovations 1 Holbrook Place Ansonia, CT 06401

ABBR	EVIATIONS		
A.C.T.	ACOUSTICAL CEILING TILE	N.S.	NEAR SIDE
ADJ. Al lim	ADJUSTABLE	NOM. N A	NOMINAL NOT ADDUCABLE
ч.в.	ANCHOR BOLT	N.I.C.	NOT IN CONTRACT
APPROX.		N.T.S.	NOT TO SCALE
A.C.P.	AGBESTOS CEMENT PIPE	NO.	NUMBER
ASPH.	ASPHALT	0CC.	
AVG.	AVERAGE	O.C. OPNG.	ON CENTER OPENING
BSMT.	BASEMENT	0.D.	OUTSIDE DIMENSION
BRG. BIT	BEARING BITUMINOUS	PTD	PAINTED
BLK.	BLOCK	P.C.B.	PAINTED CONCRETE BLOC
BD. B.G.	BOARD BOTH SIDES	P.G.B.	PAINTED GYPSUM BOARD
BRK.	BRICK	PLUMB.	PLUMBING
BLDG.	BUILDING	PREP.	PREPARATION, PREPARE
C.I.	CAST IRON	P.T. PROJ. MAN	PREJECT MANUAL
C.I.P.	CAST IN PLACE CONCRETE	P.V.C.	POLYVINYL CHLORIDE
C.B.R.	CATCH BASIN CATCH BASIN TO BE REMOVED	RAD.	RADIUS
CLG.		R.C.P.	REINFORCED CONCRETE P
C. BD.	CENTER LINE CHALK BOARD	REINF.	REFLECTED CEILING PLAN REINFORCEMENT
C.O.	CLEAN OUT	REQD.	REQUIRED
COL. CONC.	COLUMIN CONCRETE	K. R.D.	RISER ROOF DRAIN
C.M.U.	CONCRETE MASONRY UNIT	R.H.	ROOF HATCH
CONF. CONT.	CONFERENCE CONTINUOUS. CONTINUE	R.L. RM.	ROOF LEADER ROOM
CONTR.	CONTRACTOR		
C.J.	CONTROL JOINT CURB CUT	SAN. SCHED	SANITARY SCHEDULE
0.0.		S.C.	SEALED CONCRETE
DET. DIA	DETAIL	SECT.	SECTION
DIM.	DIMENSION	S.W.F.	SHEAR WALL FOOTING
DR.	DOOR	SIM.	SIMILAR
DN. DWG.	DRAWING	SPEC.	SPECIFICATIONS
		SQ.	SQUARE
EA. E.F. / E.W.	EACH EACH FACE / EACH WAY	SQ.FT. STL.	SQUARE FEET
ED.	EDUCATION	S.F.	STEP FOOTING
E / ELEC. EL: / ELEV	ELECTRICAL ELEVATION	S. STRUCT	STORM STRUCTURAL
EMER.	EMERGENCY	SUSP.	SUSPENDED, SUSPENSION
ENCL. ENT	ENCLOSURE ENTRANCE	TECH	TECHNOLOGY
EP.	EPOXY PAINT	Т.	TELEPHONE
EQ. EXAM	EQUAL	T&B	TOP AND BOTTOM
EXIST.	EXISTING	T.O.F.	TOP OF FRAME
EXP.	EXPANSION EXPANSION JOINIT	T/S	TOP OF SLAB
E.J. EXT.	EXTERIOR	T/W	TOP OF WALL
		TYP.	TYPICAL
9. FIN.	FAR SIDE FINISH, FINISHED	U.O.N.	UNLESS OTHERWISE NOTE
F.F.	FINISHED FLOOR	N / 1 -	
FIXT. FL.	FIXTURE FLOOR	∨.I.F. VERT.	VERIFY IN FIELD VERTICAL
F.P.	FOLDING PARTITION	∨.B.	VINYL BASE
FT. FTG.	FOOT FOOTING	V.C.T.	VINYL COMPOSITE TILE
FDN.	FOUNDATION	W.	WATER
9	GAS	W.C.J.	WALL CONTROL JOINT
GA.	GAUGE	W.W.M.	WELDED WIRE MESH
GEN. G.C.	GENERAL GENERAL CONTRACTOR		WITH
GYP.	GYPSUM	VV D.	
GYP. BO.	GYPSUM BOARD	e O	AT DIAMETER
H.C.	HANDICAPPED	0	
HDWE.	HARDWARE		
HGT.	HEIGHT		
H.P.			
HORZ.	HORIZONTAL, HORIZONTALLY		
H.B.	HOSE BIB		
HK. HYD.	HYDRANT		
NSUL.	INSULATION. INSULATED		
NT.	INTERIOR		
NV.	INVERTED		
JAN.	JANITOR		
<pre><pre></pre></pre>	KICK DI ATE		
N .F .			
LAM. F	LAMINATE		
, . LG.	LONG		
LOC.			
L.M. LTG.	LUW FUINT LIGHTING		
™.H. MAS.	MASONRY		
M.O.	MASONRY OPENING		
MAX. MECH	MAXIMUM MECHANICAI		
MIN.	MINIMUM		
M. MISC			
MTD.	MOUNTED		



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Description: ISSUED FOR BID

		- <u>C</u>		
BLOCK ARE ETE PIPE DLAN	SYMBOL LEGEN I - DOOR NUMBER I - WINDOW TYPE I - CONSTRUCTION NUMBER I - SHEET NUMBER I		LIST OF E GOOD GOVER GOOD COVER GOOD CONST ACIO DEMOL ACIO DEMOL ACIO DEMOL ACIO DEMOL ACIO CONST ALOS ENLAR ALOS ENLAR ALOS ENLAR ALOS ENLAR ALOS ENLAR ALOS ENTER ALOO SECTION ALOS ENTER ALOO INTERION ALOS ENTER ALOO DETAL MODI SYMBE POOL PLUMB POOL PLUMB	PRAVINGS ENERAL INFORMATION A. INFORMATION ADDITION DEPENDION AND PLAN INTERCIPATION CONTACTOR INTE
			9. ALL CONTRA IF THERE IS A DISCR DOCUMENTS, THE H SCOPE OF WORK TH WRITING BY THE AR	CTORS SHALL REVIEW DRAWINGS AND PROJECT MANUAL EPANCY BETWEEN THE TWO OR ANY OTHER PARTS OF TH IGHER VALUE (IN DOLLARS) SHALL PREVAIL AS THE 4AT WILL BE PRICED UNLESS OTHERWISE DIRECTED IN CHITECT DURING THE BIDDING PERIOD.
Date: 4/13/20	C22	Drawing Title: GENERAL INF	ORMATION	$ \int Date: Drawing Number: \frac{4/13/2022}{Scale:} \frac{12'' = 1'-0''}{Drawn By:} $

Drawn By:	
BJ∨	
Project Number:	
21.081	

- G001



				_	CODE INFORMATION
	APARTMEN KITCHEN (CLOSET COS TALL (CLOSET		APARTMENT HS		DATE OF ORIGINAL CONSTRUCTIO DATE OF ADDITIONS DATE OF PROPOSED ADDITION 1. GROUP CLASSIFICATION (Chapter 3) (Primary) 2. CONSTRUCTION TYPE (Chapter 6) Minimum Type Required Actual Type Provided (existing) (Proposed new) 3. BUILDING HEIGHT (Chapter 5) Allowable Height (story/feet) Cortes Above Grade) 4. BUILDING AREA (Chapter 5) 1) Building Area (First Floor) Existing construction New construction Nonbearing walls & partitions Exterior (Table 602) Interior Nonbearing walls & partitions Interior S Floor Construction (including supporting beams & joists) 6 Roof Construction (including supporting beams & joists) 71. ACCESSIBLE BUILDING 71. ACCESSIBLE BUILDING 73. State Building Code State Fire Code State Fire Code State Flumbing Code State Flumbing Code State Flumbing Code State Flumbing Code State Eleveration Cod State Eleveration Cod
		TYPICAL EXT ASSEMBLY MATERIAL .035" VINYL SIDING 1" RIGID INSULATION 1/2" SHEATHING 3 1/2" BATT INSULATION . 5/8" INTERIOR GYPSUM SUM OF R VALUES: SUM OF R VALUES: R 19.56 = U-0.051 PER 2015 IECC CHAPTER BUILDING) SECTION C503	TERIOR WALL THERMAL VALUES: R value 0.61 6 0.45 12 0.5 19.56 5 (CE) (EXISTING DPED ROOF THERMAL VALUES:		
		MATERIAL BATT INSULATION	<u>R value</u> 38		Room name 101 ROOM NUME 1 HOUR FIRE AND SMOKE
Date: Revised By 4/13/2022			Drawing Title: CODE INFORMA PLAN	TION	AND $ \begin{array}{c} \text{Date:} \\ 4/13/2022 \\ \text{Scale:} \\ \text{As indicated} \\ \text{Drawn By:} \\ \text{BJV} \\ \text{Project Number} \\ 21.081 \\ \end{array} $

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By:					G	()	\mathbf{U}_{2}	2
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51								



- REMOVE ALL EXISTING LAYERS OF SIDING FROM EXTERIOR OF ENTIRE BUILDING. SHEATHING TO REMAIN. TYPICAL ALL LEVELS REMOVE ALL EXISTING

WINDOW UNITS. ALSO SEE ELEVATIONS FOR LOCATIONS REMOVE ALL EXISTING UPPER AND LOWER CABINETS AND COUNTERS (LAYOUTS

VARY IN EACH APARTMENT) - TYPICAL ALL APARTMENTS REMOVE ALL EXISTING APPLIANCES - TYPICAL ALL APARTMENTS

REMOVE ALL EXISTING INTERIOR PLASTER OR GYPSUM BOARD SYSTEMS. WOOD STUD FRAMING TO REMAIN. TYPICAL ALL APARTMENTS

- REMOVE ALL EXISTING WOOD INTERIOR DOORS, FRAMES, AND TRIM -TYPICAL ALL APARTMENTS.

ORIGINAL HARDWOOD FLOORS (REMOVE ALL EXISTING NON ORIGINAL VINYL SHEET OR TILED FLOORING, CARPET, OR LAMINATE) - TYPICAL ALL APARTMENTS / ROOMS

REMOVE ALL EXISTING HOLLOW METAL DOORS AND FRAMES - TYPICAL ALL APARTMENTS - ALL FLOORS

EXISTING HALF WALLS, COLUMNS, AND TRIM AT OPENING TO BE REMOVED - TYPICAL ALL APARTMENTS

REMOVE ALL EXISTING WALL AND CEILING MOUNTED LIGHT FIXTURES - TYPICAL ALL ROOMS / APARTMENTS



 $2 \frac{\text{SECOND FLOOR DEMOLITION PLAN}}{1/4" = 1-0"}$

	DEMOLITION NOTES
1	REMOVE AND DISCARD BATHTUB/SHOWER UNIT - INCLUDING ALL WALL PANELS
2	REMOVE EXISTING SINK / VANITY - INCLUDING ALL ASSOCIATED PLUMBING FIXTURES
3	REMOVE EXISTING TOILET
4	REMOVE EXISTING DOOR AND FRAME
5	REMOVE EXISTING WALL - COORDINATE WITH CONSTRUCTION
6	REMOVE EXISTING FRAME AND INFILL WALL
7	REMOVE ALL PLASTER, LATH, BASEBOARD, AND TRIM - WOOD STUD FRAMING TO REMAIN - COORDINATE WITH CONSTRUCTION
8	REMOVE ALL PLASTER AND LATH CEILINGS AND ALL CEILING MOUNTED FIXTURES - WOOD FRAMING ABOVE TO REMAIN - COORDINATE WITH CONSTRUCTION



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Description: ISSUED FOR BID

10VE ALL EXISTING FLOOR NCEAL ORIGINAL HARDWOO	COVERINGS THAT CURRENTLY DD FLOORING			- EXISTING PARTITI	ONS	1.	READ ALL GENERA ENTIRE CONSTRUC
MPLETELY REMOVE STARS	STSTEM IINCLUDING RAILINGS AND		:==	- PARTITIONS TO B	E REMOVED	2.	COMMENCING WO COORDINATE ARCH
IOVE ALL MARESHIFT WOC . GATES, DOORS, AND HOR LUMNS TO REMAIN	IZONTAL NAILERS. STRUCTURAL						ABATEMENT DRAW ADDITIONAL DEMO
10VE EXISTING WINDOW S ^Y 1AIN	YSTEM - ROUGH OPENING TO	= = ,	È =	- DOOR TO BE REM	10VED	З.	WHERE INCONSIST AND ASSUME THE
10VE EXISTING HARDWOOD 1AIN.	D FLOOR. EXISTING SUBFLOOR TO	`.	~′			4.	CONTRACTORS SH CONDITIONS AND I PRIOR TO DEMOLIT
						5.	DIMENSIONS (SUCH LOCATIONS, OVER COORDINATION WI
Date: Revised By:		<u> </u>	Drawing Title				Date:
4/13/2022					NI DI ANIC		4/13/20
			DE		IN FLAINS		Scale:
							As indic
							Drawn By:
							BJ∨
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— APARTMENT #6 —



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PANTRY

302



— COMMON -STAIR HALL





	DEMOLITION NOTES
1	REMOVE AND DISCARD BATHTUB/SHOWER UNIT - INCLUDING ALL WALL PANELS
2	REMOVE EXISTING SINK / VANITY - INCLUDING ALL ASSOCIATED PLUMBING FIXTURES
з	REMOVE EXISTING TOILET
4	REMOVE EXISTING DOOR AND FRAME
5	REMOVE EXISTING WALL - COORDINATE WITH CONSTRUCTION
6	REMOVE EXISTING FRAME AND INFILL WALL
7	REMOVE ALL PLASTER, LATH, BASEBOARD, AND TRIM - WOOD STUD FRAMING TO REMAIN - COORDINATE WITH CONSTRUCTION
8	REMOVE ALL PLASTER AND LATH CEILINGS AND ALL CEILING MOUNTED FIXTURES - WOOD FRAMING ABOVE TO REMAIN - COORDINATE WITH CONSTRUCTION

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		· •	
		EXISTING MASONRY CHIMNEYS TO REMAIN, TYPICAL OF 4	COF BOARD)
		ON SOLID WOOD SHEATH PROTECT ROOF DURING A DEMOLITION ACTIVITIES TO MAINTAIN EXISTING WARR EXISTING MEMBRANE ROOF HATCH SYSTEM AND CURB	
		REMOVE ALL EXISTING ANTENNAS, SATELLITE DISHES, AND ASSOCIATED WIRING EXISTING PARAPETS - 3 SI REMOVE ALL EXISTING VIN PANELS FROM ROOF SIDE WALLS	IDES
	3	ROOF DEMOLITION PLAN 1/4" = 1-0"	
DEMOLITION NOTES EVE ALL EXISTING FLOOR COVERINGS THAT CURRE DEAL ORIGINAL HARDWOOD FLOORING PLETELY REMOVE STAIR SYSTEM IINCLUDING RAILI CASE STRUCTURE EVE ALL MAKESHIFT WOOD PLANK PARTITIONS INC GATES, DOORS, AND HORIZONTAL NAILERS. STRUC IMNS TO REMAIN EVE EXISTING WINDOW SYSTEM - ROUGH OPENING NN EVE EXISTING HARDWOOD FLOOR. EXISTING SUBF N.	ENTLY NGS AND CLUDING CTURAL 5 TO LOOR TO	- EXISTING PARTITIONS - PARTITIONS TO BE REMOVED J = DOOR TO BE REMOVED	 DEMOLITION GENERAL NOTES READ ALL GENERAL NOTES ON DRAWING AOOI. REVIEW ENTIRE CONSTRUCTION DOCUMENT SET PRIOR TO COMMENCING WORK. COORDINATE ARCHITECTURAL DEMOLITION WORK WITH ALL OTHER TRADES, INCLUDING HAZARDOUS MATERIAL ABATEMENT DRAWINGS. REFER TO M/E/P/FP DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE. WHERE INCONSISTENCIES OCCUR, NOTIFY THE DESIGN TEAM AND ASSUME THE GREATER VALUE FOR BIDDING PURPOSES. CONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. PRIOR TO DEMOLITION OF INTERIOR STAIRS - DOCUMENT ALL DIMENSIONS (SUCH AS RISE/RUN, START AND END LOCATIONS, OVERALL HEIGHTS, WIDTH, ETC) FOR FUTURE COORDINATION WITH NEW STAIRS.
Date: Revised By: 4/13/2022		Drawing Title: DEMOLITION PLANS	Date: 4/13/2022 Scale: As indicated Drawn By: BJV Project Number: 21.081





)	t	ľ	•

Drawing Number: A101

PATCH TO MATCH ALL EXISTING WALLS AND CEILINGS TO REMAIN ALL DIMENSIONS ARE TO OUTSIDE FACE OF BRICK, CONCRETE

4 (A300)

Project Title: Ansonia Housing Authority Apartment Building Renovations 1 Holbrook Place Ansonia, CT 06401



11' - 4" ∨.I.F.

1 <(A700))

(203)

_ + ___

202

_ _ _



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5' - 6"

2

BATHROOM 201

5 ((A700))

5' - 6"

2

3

5

BATHROOM

15<(A700)>13

Revised By:

Drawing Title: ENLARGED KITCHEN AND BATHROOM PLANS

Date:
4/13/20
Scale:
1/2" = 1'-
Drawn By:
BJ∨
Project Nun
21.081



11' - 4" ∨.I.F.

	TO
1	SEMI-RECE
2	FOUR PIECE W/ TWO SH
3	CURTAIN, H
4	FLOOR MOI SEAT)
5	VANITY WI BACKSPLA
6	TOILET PAP
7	ROBE HOOI
8	TOWEL BAI

TOILET ACCESSORIES SEMI-RECESSED 1'-6" X 3' MIRROR / MEDICINE CABINET
(CENTER ON LAV) FOUR PIECE FIBERGLASS PRE-FABRICATED SHOWER W/ TWO SHELVES/OPENINGS; SEE PROJECT MANUAL CURTAIN, HOOK, AND ROD
FLOOR MOUNTED WATER CLOSET (18" TO TOP OF SEAT) VANITY WITH INTEGRAL SINK AND COUNTERTOP WITH BACKSPLASH AT SIDE AND BACK
TOILET PAPER DISPENSER ROBE HOOK - DOOR MOUNTED AT BATHROOM SIDE TOWEL BAR
COORDINATE FINAL LOCATION OF ALL TOILET ROOM ACCESSORIES IN FIELD
Date: Drawing Number: 4/13/2022 Scale:
1/2" = 1-0" Drawn By: BJV A103
Project Number: 21.081



VENT STACK DETAIL SCALE: 11/2" = 1-0"

Project Title: Ansonia Housing Authority Apartment Building Renovations 1 Holbrook Place Ansonia, CT 06401



- CONT. BEAD OF SEALANT

- MECH. HOOD METAL FLASHING. COORDINATE WITH MEP

— EPDM ROOFING FLASHING.

Date: Revised By:	Drawing Title:	Date:
/13/2022	DOOE AND EVTEDIOD WALL	4/13/2
	KOOF AND EATERIOR WALL	Scale:
		11/2" =
	PENEIRATION DETAILS	Drawn By
		BJ∨
		Project N

		EXISTING EXTERIOR WALL - VERIFY OVERALL THICKNESS IN FIELD
		VINYL SIDING WITH RIGID INSULATION EXISTING SHEATHING
	EXISTING EPDM ROOFING MEMBRANE - COORDINATE ALL PATCHING AND FLASHING INTO EXISTING ROOFING SYSTEM WITH WARRANTY EXISTING COVER BOARD - V.I.F.	GYPSUM BOARD EXHAUST DUCT. SEE MECHANICAL FOR ADDITIONAL INFORMATION
	EXISTING INSULATION - V.I.F. EXISTING WOOD ROOF DECK - V.I.F. 2X6 WOOD BLOCKING.(SAME THICKNESS AS INSULATION)	SIDE WALL CAP WITH SPRING LOADED BACKDRAFT DAMPER AND I SCREEN (COMPATIBLE WITH VINYL S SYSTEM) - COORDINATE WITH DUCT AND PROFILE - ALSO SEE MECHANIC DRAWINGS
<u>ROOF HATCH DETAIL</u> SCALE: 11/2" = 1'-0"	REFERENCE VIEW:	<u>THROUGH WALL EXHAUST VENT</u> SCALE: 11/2" = 1-0"







	RCP	SYMBOL LEGEND		GENERAL R
	Room name 101 (10'-0") X	 ROOM NAME ROOM NUMBER CEILING HEIGHT (IF FINISHED CEILING IS NOT BEING MOUNTED TO BOTTOM EXISTING JOISTS) PAINTED GYPSUM BOARD CEILING EXIT SIGN, REFER TO ELECTRICAL DRAWINGS RECESSED LIGHT FIXTURES, REFER TO ELECTRICAL DRAWINGS 2 X 2 LIGHT FIXTURE, REFER TO ELECTRICAL DRAWING 	 PENDENT STYLE LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS SUPPLY DIFFUSER, REFER TO MECHANICAL DRAWINGS RETURN GRILLE, REFER TO MECHANICAL DRAWINGS ACCESS PANEL; COORDINATE W/ MECHANICAL DWGS. PROVIDE TAMPER-PROOF FASTENERS FOR ALL ACCESS PANELS 	 PROVIDE 1 HOUR RATIN BOARD DIRECTLY TO U AT ALL FLOORS INCLU ATTIC. THIS INCLUDES (SEPARATELY FRAMED PROVIDED (KITCHENS, PROVIDE MINERAL WC CAVITIES AT FIRE RATE PROVIDE FIRE SEALAN CEILING TO FLOOR AB ALL JUNCTION BOXES PENETRATING FIRE RA RATING OF CEILING AS PROVIDE FIRE BLOCKIN WALLS AND INTERIOR TO MORE THAN ONE F PROVIDE 1 LAYER5/8" (ALL STAIRS UNLESS C CEILINGS WITHOUT HE IS ATTACHED TO BOTT
Date: 4/13/2022	Revised By:		REFLECTED CEILING P	PLANS $\frac{\frac{\text{Date:}}{4/13/20}}{\frac{5}{\text{Scale:}}}$
				As indice Drawn By: B. IV
				Project Num 21.081

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Date:

4/13/2022



-
CP NOTES
G WITH 2 LAYERS OF TYPE X GYPSUM INDERSIDE OF EXISTING WOOD JOISTS DING BASEMENT AND CEILING BELOW AREA ABOVE WHERE A LOWERED) CEILING OR SOFFIT WILL BE BATHROOMS, AND ALL SOFFITS). OL INSULATION BATTS AT ALL JOIST D CEILINGS. (IBC TABLE 722.6.2 (1) T AT ALL PENETRATIONS THROUGH DVE OR BELOW. AND RECESSED FIXTURES
TED CEILINGS MUST MATCH FIRE SEMBLY. COORDINATE WITH MEP. IG AT STUD CAVITIES (EXTERIOR PARTITIONS THAT EXTEND THROUGH LOOR LEVEL). GYPSUM BOARD AT UNDERSIDE OF THERWISE INDICATED. GHT CALLED OUT - FINISHED CEILING OM OF EXISTING JOISTS - V.I.F.
Drawing Number:
A201
per:







21.081

Drawing Number:

A400

FIRST FLOOR O' - O"

SECOND FLOOR 9' - 9"

THIRD FLOOR 19' - 6"

ATTIC 28' - 11"

ROOF 34' - 10"



Date: Re	evised By:	Drawing Title:	Date:
4/13/2022		SECTIONS	4/13/20.
		SECTIONS	Scale:
			1/4" = 1'-0
			Drawn By:
			BJ∨
			Project Num 21.081

SEE DETAIL #2 FOR TYPICAL INTERIOR WINDOW TRIM (EXCEPT FOR BASEMENT)

NTEGRAL WEA AND TAPED SE VINYL WINDOW PERIMETER NA REFER TO WINT REMOVABLE WA ALL OPERABLE OTHERWISE NO GLAZING, REFE WINDOW ELEW SEALANT, ALL 1/2" SHIM SPACE EXISTING STOM AT EXTERIOR	ATHER BARRIER SAMS (TYP) V WITH ILING FLANGES, DOW ELEVATIONS /INDOW SCREEN AT E WINDOWS UNLESS DTED ER TO (ATIONS SIDES E, FILL VOIDS W/ DAM INSULATION (TYP) NE WALL W/ PARGING		INTEGRAL WEATHER BA AND TAPED SEAMS (TY VINYL WINDOW, REFER WINDOW ELEVATIONS GLAZING, REFER TO WINDOW ELEVATIONS SEALANT, ALL SIDES 5/4 WOOD JAMB EXTER (PTD), EACH SIDE WOOD SILL BELOW, PR RADIUSED RETURN, ALL 1/2" SHIM SPACE (EACH VOIDS W/ EXPANDING F
TYPICAL WINDOW JAMB AT STO WALL 3° = 1-0° 1/ A600	NE =	$\int_{\frac{1}{3^{*}=1^{*}-0^{*}}} \frac{1}{5^{1/2^{*}}}$	INSULATION (TYP) 5/8" WOOD BLOCKING 1 × 6 WOOD TRIM (PTD) (1/4" VINDOW JAMB 1/ A600
2X SOLID NAILING BLOCK AT PE WINDOW OPENING TO CREATE ROUGH OPENING WITHIN EXISTI OPENING. CAULK AROUND PERI EXISTING HEADER AND FLOOR F ABOVE SIDING AND TRIM ON EXISTING SHEATHING 5/4 PVC TRIM W/ SEALANT AI FLEXIBLE FLASHING TAPE AT PERIMETER OF ALL OPENINGS PERIMETER NAILING FLANGE 1/2" SHIM SPACE (TYP AT PERIMETER) FILL VOIDS W/ EXPANDING FOAM INSULATION (TYP)	RIMETER OF NEW WINDOW NG MASONRY METER. FRAMING L SIDES K MINDOWLOOK L'AL SIDES C ODENINGS.	1 X 6 HEAD TRIM 3/4" WOOD TRIM, PAINTED PER FIN. SCH.	2x HEADER, SEE STRUCTURAL DWGS. FOR DTLS. FIXED PVC WINDOW STRUCTURAL DWGS. FOR DTLS.
GLAZING, REFER TO WINDOW ELEVATIONS REMOVABLE WINDOW SCREEN OPERABLE WINDOWS UNLESS NOTED PRE-FINISHED ALUM FLASHING AND OVER PVC SILL TRIM (TYP) 2x PVC. WINDOW SILL ON AZEK - ASM 7974 F OVERHANG FACE OF E SILL PAN FLASHING SELF ADHERING FLASH WITH METAL DRIP EDG EXISTING STONE WALL	AT ALL OTHERWISE UNDER SILL NOSE - BASED PROFILE - EXISTING WALL HING MEMBRANE E VERIFY THICKNESS	3/4" PLYWD. B/ 2x6 STUDS.	SEE RESPECTIVE WALL SECTION & ELEVATIONS WALL & SIDING DTLS.
IN FIELD - PATCH EXTEN WINDOW LOCATIONS DAMAGED DURING WIND BASEMENT 11/2" = 1-0" 1/ A60	RIOR PARGING AT WHERE FAILING OR NDOW INSTALLATION L -	S WINDOW HEAD AN FIXED WINDOW $11/2^{t} = 1-0^{t}$	ND SILL DETAIL -
Date: Revised By: 4/13/2022	Drawing Title: WINDOV DETAILS	V ELEVATIONS AN	Date: Drawing 4/13/2022 Scale: As indicated Drawn By: BJV Project Number: 21.081

REPARGE PERIMETER OF WINDOW UPON COMPLETION OF WINDOW AND TRIM INSTALLATION SEALANT AT FULL PERIMETER OF WINDOW TRIM/ STONE PVC TRIM W/ SEALANT, ALL SIDES - CUT TO FIT FLEXIBLE FLASHING TAPE AT PERIMETER OF ALL OPENINGS 1/2" EXTEDIOD CHEATHING W

F <u>keog</u>

2' - 10"

R.O. - V.I.F.

2' - 8"

E

OPERABLE DOUBLE HUNG

WINDOW AT BASEMENT

GL-10 -

4609

GL-10

1/4" = 1'-0"

GL-9

GL-9

EASE ALL EXPOSED WOOD TRIM EDGES - 1/16" RADIUS

STOOL AND APRON (1" EXTENSION OF STOOL BEYOND JAMB CASING EACH SIDE.

TYPICAL INTERIOR WINDOW TRIM

PVC MULLION TRIM w/ SEALANT, ALL SIDES - CUT TO FIT FLEXIBLE FLASHING TAPE AT PERIMETER OF ALL OPENINGS (2) 2 × FRAMING, REFER TO STRUCTURAL DRAWINGS 1/2" EXTERIOR SHEATHING W/ INTEGRAL WEATHER BARRIER AND TAPED SEAMS (TYP) - VINYL WINDOW, REFER TO $\stackrel{\scriptstyle{\neg}}{\scriptstyle{\downarrow}}$ WINDOW ELEVATIONS - GLAZING, REFER TO WINDOW ELEVATIONS

- SEALANT, ALL SIDES - 5/4 WOOD JAMB EXTENSION (PTD), EACH SIDE

- WOOD SILL BELOW, PROVIDE RADIUSED RETURN, ALL SIDES — 1/2" SHIM SPACE (EACH SIDE) FILL VOIDS w/ EXPANDING FOAM INSULATION (TYP) - 5/8" WOOD BLOCKING

WINDOW

SEE RESPECTIVE WALL SECTION & ELEVATIONS FOR WALL & SIDING DTLS.

Drawing Number:

A600

	SOLID WOOD BLOCKING WITHIN WALL - COORDINATE WITH ALL CABINET LOCATIONS DOOR HARDWARE,		SOLIL WITH WITH
	SOLID WOOD BLOCKING WITHIN WALL - COORDINATE WITH ALL CABINET LOCATIONS PLASTIC LAMINATE SURFACE ON 1' SOLID SUBSTRATE; BEVELED EDGE WOOD CORE DRAWER WITH WOOD FRONT DOOR HARDWARE 3/4' WOOD SHELF ON PIN SUPPORTS; ADJUSTABLE ON 1' PIN SUPPORTS. SOLID WOOD DOOR; RAISED PANEL FRONT; PROVIDE CONTINUOUS HINGE ON BOTH DOORS IN BUILDING 'B' ONLY 1/4' WOOD BACK PANEL. BLOCKING AS		SOLIE WITHI WITH PLAS ON 1" BEVE FALS FRON BLOC DOOF BASE BOTT PTAC O N B PTAC MEP
Image: Text of the second s	SE AND UPPER CABINET	$5 = \frac{5}{11/2^{2} = 1-0^{2}}$	Date: 4/13/2022 Scale: 11/2" = 1'-O" Drawn By: BJV Project Number: 21.081

- FACE FRAME

- BLOCKING AS REQUIRED

- SOLID WOOD RAISED

1" PIN SUPPORTS.

— 1/4" WOOD BACK PANEL

PANEL DOOR; PROVIDE CONTINUOUS HINGE ON

- 3/4" WOOD SHELF, ON PIN

SUPPORTS; ADJUSTABLE ON

1' - O''

0

o 0

WOOD -

SIDES

🖌 🕺 ALL

1' *- O*"

~ WOOD -

SIDES

_^_____

🖌 🖁 ALL

ber:	

Drawing Number:

A800

1/ A700

DUPPER CABINET

SOLID WOOD BASE

SOLID WOOD DOOR; RAISED PANEL FRONT; PROVIDE CONTINUOUS HINGE ON BOTH DOORS IN BUILDING 'B' ONLY PTAC UNIT - COORDINATE WITH MEP

BASE CABINET WITH REAR AND BOTTOM CUT OUT TO FIT AROUND PTAC UNIT. COORDINATE WITH MEP

DOOR HARDWARE

BLOCKING AS REQUIRED

BEVELED EDGE FALSE DRAWER WOOD FRONT

SOLID WOOD BLOCKING WITHIN WALL - COORDINATE WITH ALL CABINET LOCATIONS PLASTIC LAMINATE SURFACE ON 1" SOLID SUBSTRATE;

DOOR HARDWARE,

- 1/4" WOOD BACK PANEL SOLID WOOD BLOCKING WITHIN WALL - COORDINATE WITH ALL CABINET LOCATIONS

- BLOCKING AS REQUIRED - SOLID WOOD RAISED PANEL DOOR; PROVIDE CONTINUOUS HINGE ON - 3/4" WOOD SHELF, ON PIN SUPPORTS; ADJUSTABLE ON 1" PIN SUPPORTS.

— FACE FRAME

SOLID WOOD BASE

—— 1/4" WOOD BACK PANEL.

FRONT; PROVIDE CONTINUOUS HINGE ON BOTH DOORS IN BUILDING 'B' ONLY

SOLID SUBSTRATE; BEVELED EDGE

WITHIN WALL - COORDINATE WITH ALL CABINET LOCATIONS — 1/2" PLASTIC LAMINATE

Project Title: Ansonia Housing Authority Apartment Building Renovations 1 Holbrook Place Ansonia, CT 06401

NOTE: USE WATER RESISTANT GYPSUM BOARD IN ALL BATHROOMS AND FULL LENGTH OF WALL BEHIND KITCHEN SINK. SEE PLANS FOR LOCATIONS.

SILVER | PETRUCELLI + ASSOCIATES ______

Architects | Engineers | Interior Designers 3190 Whitney Avenue | Hamden, CT 06518 One Post Hill Place | New London CT 06320 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucelli.com

Description: ISSUED FOR BID

Date:	Revised By:	Drawing Title:	Date:
4/13/2022		INTEDIOD DADTITION TVDES	4/13/20
		INTERIOR I ARTITION I ITES	Scale:
			1 1/2" = 1
			Drawn By:
			BJ∨
			Project Nun 21.081

GWB ON BOTH SIDES

(PROVIDE MOISTURE RESISTANT BOARD AT ALL BATHROOM WALLS AND WALLS BEHIND Drawing Number: = 1'-0" A900 lumber:

222

DOOR										FRAME							
OOR NUMBER	ROM ROOM No.	O ROOM No.	OUBLE LEAF DOOR	NEVEN DOUBLE LEAF	ИДТН	EIGHT	OOR TYPE	100R MATERIAL	OOR FINISH	OOR GLAZING	RAME TYPE	RAME MATERIAL	RAME FINISH	EAD DETAIL	AMB DETAIL	ADDLE DETAIL	RAME GLAZING
003	STO1	003			2' - 6' 2' - 8'	E 6' - 8' 6' - 8'	1	FG FG	PT PT-2				PT-2	I D.1/A910 C/A910) D.1/A910 C/A910	() F/A910	<u> </u>
01 02	100 103	101 102			2' - 8" 2' - 6"	6' - 8" 6' - 8"	1 N/A	WD N/A	ST PT		A B		PT-2 PT-2	A/A910 B/A910	A/A910 B/A910		
03 03A 05	103 100 105	103 100			2 - 6 2 - 6 2 - 6	6 - 8 6 - 8 6 - 8	3 N/A 1	FG N/A WD	PT-2 PT ST		N/A A		PT-2 PT-2 PT-2	D/A910 B/A910 A/A910	D/A910 B/A910 A/A910		
06 07 08	106 107	108 105			2 - 0 2 - 6 2 - 6	6 - 8 6 - 8	1 1 1		ST ST		A A A		PT-2 PT-2	A/A910 A/A910	A/A910 A/A910		
08A 09	109	108 100			3' - O' 2' - 6'	4' - 7" 6' - 8"	4 N/A	STEEL N/A	PT PT		N/A B	STEEL WD	PT-2 PT-2	E/A910 B/A910	E/A910 B/A910		
10 10A	109	110 110			2 - 6 3 - 0 0	6' - 8" 4' - 7"	1 4 1	WD STEEL	ST PT		A N/A	WD STEEL	PT-2 PT-2	A/A910 E/A910	A/A910 E/A910		
200 201	200 201	ST01 200			2 - 6 2 - 8 2 - 8	6 - 8 6 - 8 6 - 8	3 1	FG WD	PT-2 ST		C A	COMP WD	PT-2 PT-2 PT-2	C/A910 A/A910	A/A910 A/A910	G/A910	
202 203	202	203 203			2' - 6" 2' - 6"	6' - 8" 6' - 8"	N/A 3	N/A FG	PT PT-2		B D	WD COMP	PT-2 PT-2	B/A910 D/A910	B/A910 D/A910		
203A 205 205A	203 200	200 205 205			2 - 6 2 - 6 3 - 0	6' - 8'' 6' - 8'' 4' - 7''	N/A 1 4	N/A WD STEEL	PT ST PT		A N/A	WD WD STEEL	PT-2 PT-2 PT-2	B/A910 A/A910 E/A910	B/A910 A/A910 E/A910		
206 207	208 205	206 207			2' - O' 2' - 6'	6' - 8' 6' - 8'	1	WD WD	ST ST		A	WD WD	PT-2 PT-2	A/A910 A/A910	A/A910 A/A910		
208 209	200 200	208 209			2 - 6" 2 - 6"	6' - 8''	1 N/A	WD N/A	ST PT		A B		PT-2 PT-2	A/A910 B/A910	A/A910 B/A910		
209A 210 211	2 <i>09</i> 211	209 210 210			5-0 2-6 2-6	4 - 7 6' - 8" 6' - 8"	4 1 1	WD WD	ST ST		A A	WD WD	PT-2 PT-2 PT-2	E/A910 A/A910 A/A910	E/A910 A/A910 A/A910		
5T01 300	STO1 STO2	300			3' - 0" 2' - 8"	7 - 0" 6' - 8"	2 3	FG FG	PT-2 PT-2	GL-10	D C	COMP COMP	PT-2 PT-2	D/A910 C/A910	D/A910 C/A910	F/A910 G/A910	
301 302 303	300 303	301 302			2'-8" 2'-6" 2'-6"	6'-8" 6'-8"	1 N/A	WD N/A	ST PT		A B		PT-2 PT-2	A/A910 B/A910	A/A910 B/A910		
303A 305	300 305	303 300			2 - 6 2 - 6 2 - 6	6'-8"	N/A 1	N/A WD	PT-2 PT ST		B A	WD WD	PT-2 PT-2 PT-2	B/A910 A/A910	B/A910 A/A910		
306 307	306 307	308 305			2 - 0 2 - 6	6'-8" 6'-8"	1	WD WD	ST ST		A A		PT-2 PT-2	A/A910 A/A910	A/A910 A/A910		
308 308A 309	308	300 308 300			2 - 6 3 - 0 2 - 6	6' - 8' 4' - 7' 6' - 8'	1 4 N/A	STEEL N/A	PT PT		A N/A B	STEEL WD	PT-2 PT-2 PT-2	A/A910 E/A910 B/A910	A/A910 E/A910 B/A910		
310 310A	309	310 310			2' - 6" 3' - 0"	6' - 8" 4' - 7"	1 4	WD STEEL	ST PT		A N/A	WD STEEL	PT-2 PT-2	A/A910 E/A910	A/A910 E/A910		
311 4 <i>00</i>	111 STO2	310 400			2'-6" 2'-8"	6' - 8" 6' - 8"	1 3	FG	ST PT-2		A C		PT-2 PT-2	A/A910 C/A910	A/A910 C/A910	G/A910	
402 403	402	403			2 - 6 2 - 6 2 - 6	6 - 8 6 - 8	N/A 3	N/A FG	PT PT-2		B D	WD WD COMP	PT-2 PT-2 PT-2	B/A910 D/A910	B/A910 D/A910		
403A 405	403	400			2 - 6 2 - 6	6' - 8" 6' - 8"	N/A 1	N/A WD	PT ST		B A	WD WD	PT-2 PT-2	B/A910 A/A910	B/A910 A/A910		
405A 406 407	408	405 406 407			3'-0" 2'-0" 2'-6"	4' - 7' 6' - 8' 6' - 8'	4	STEEL WD	PT ST ST		N/A A	STEEL WD	PT-2 PT-2	E/A910 A/A910 A/A910	E/A910 A/A910 A/A910		
408 409	400	408 409			2 - 6 2 - 6	6' - 8" 6' - 8"	1 N/A	WD N/A	ST PT		A B		PT-2 PT-2	A/A910 B/A910	A/A910 B/A910		
409A 410	409	409 410			3' - O' 2' - 6'	4' - 7" 6' - 8"	4	STEEL WD	PT ST		N/A A	STEEL WD	PT-2 PT-2	E/A910 A/A910	E/A910 A/A910		
500 501	ST03 500	500 501			2 - 6 2 - 8 2 - 8	6 - 8 6 - 8 6 - 8	3 1	FG WD	PT-2 ST			COMP WD	PT-2 PT-2 PT-2	2/2910 C/2910 A/2910	A/A910 C/A910 A/A910	G/A910	
502 503	503 503	502			2 - 6" 2 - 6"	6' - 8" 6' - 8"	N/A 3	N/A FG	PT PT-2		B D	WD COMP	PT-2 PT-2	B/A910 D/A910	B/A910 D/A910		
503A 505 506	500 505 506	503 500 508			2 - 6 2 - 6 2 - 0	6 - 8 6 - 8 6 - 8	N/A 1 1		PT ST ST		A		PT-2 PT-2 PT-2	B/A910 A/A910 A/A910	B/A910 A/A910 A/A910		
507 508	507 508	505 500			2' - 6" 2' - 6"	6' - 8" 6' - 8"	1 1 1	WD WD	ST ST		A A	WD WD	PT-2 PT-2	A/A910 A/A910	A/A910 A/A910		
508A 509	509	508 500			3' - O' 2' - 6'	4' - 7" 6' - 8"	4 N/A	STEEL N/A	PT PT		N/A B	STEEL WD	PT-2 PT-2	E/A910 B/A910	E/A910 B/A910		
510A 511	111	510 510 510			2 - 0 3' - 0' 2' - 6'	6 - 8 4' - 7" 6' - 8"	4	STEEL WD	PT ST		A N/A A	STEEL WD	PT-2 PT-2 PT-2	E/A910 A/A910	E/A910 A/A910		
600 601	600 600	ST03 601			2' - 8" 2' - 8"	6' - 8" 6' - 8"	3	FG WD	PT-2 ST		C A	COMP WD	PT-2 PT-2	C/A910 A/A910	C/A910 A/A910	G/A910	
602 603	602 603	603			2 - 6"	6' - 8" 6' - 8"	N/A 3	N/A FG	PT PT-2		B D		PT-2 PT-2	B/A910 D/A910	B/A910 D/A910		
605A 605A	600	605 605			2 - 6 2 - 6 3 - 0	6' - 8" 4' - 7"	1 4	WD STEEL	ST PT		A N/A	WD WD STEEL	PT-2 PT-2 PT-2	A/A910 E/A910	A/A910 E/A910		
606 607	608 607	606 605			2 - 0" 2 - 6"	6' - 8" 6' - 8"	1	WD WD	ST ST		A A	WD WD	PT-2 PT-2	A/A910 A/A910	A/A910 A/A910		
608 609 6094	600 600	608 609 609			2'-6" 2'-6" 3'-0"	6' - 8" 6' - 8" 4' - 7"	1 N/A	N/A STEEL	ST PT PT		A B N/A	WD WD STEEL	PT-2 PT-2	A/A910 B/A910 E/A910	A/A910 B/A910 E/A910		
610 611	609 211	610 610			2 - 6 2 - 6	6' - 8" 6' - 8"	1 1	WD WD	ST		A	WD WD	PT-2 PT-2	A/A910 A/A910	A/A910 A/A910		
612	STO3	STO3			2' - 8"	6' - 8"		FG	PT-2			COMP	PT-2			G/A910	
1. C 2. A 3. A 4. S 5. A 5. A	GENE ONTRACTO MENSIONS LL NEW KIO ROM EDGE ENTERED A LL GLASS OTHERWISE ND TYPE. LL EXTERIO TRIPPING C LL INTERIO GASKETS O EE PROJEC	ERAL DR SHALL DR SHALL DR PLATES S OF DOC S OF DOC N DOORS DR DOORS DR DOORS DR DOORS DR SIDES, R APARTM N SIDES, T MANUA			OR N ERIFY ALL BE 12" HIG SS OTHER DOR BE TEMPE EDULE FC RECEIVE D BOTTOR TRY DOOL D BOTTOR	OTES CONDITIC SH AND OF RWISE NO ERED UNLI RES SHALL 1. RS SHALL 1. E SCHEDL	DNS & FFSET 1" TED. ESS C THICKI THER RECEIV	NESS	1. (2. 4 3. E 4. II	OR S ST C ACCESS ELECTRON NTERIOR NINTER	OPENIN OPENIN OPENIN ONIC CA R SIDE (COLOR FINI COLOR	EDULI JMN II G - (4 SIDED F ARD ACCES DF DOOR - F SH SCHEDL TO BE DET	E RE N D(S PAINT O JLE. EX ERMINEI	PTION AS TERIOR SIL	SHOWN DE OF	EDUL	<u>E)</u>

Apartment Building Renovations 1 Holbrook Place Ansonia, CT 06401

Project Title: Ansonia Housing Authority Apartment Building Renovations 1 Holbrook Place Ansonia, CT 06401

SILVER | PETRUCELLI + ASSOCIATES ^{Revision:}

Architects | Engineers | Interior Designers 3190 Whitney Avenue | Hamden, CT 06518 One Post Hill Place | New London CT 06320 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucelli.com

Description: ISSUED FOR BID

Date: Revised By	Drawing Title:	Date:
4/13/2022	SICNACE	4/13/202
	SIGNAGE	Scale:
		As indica
		Drawn By:
		BJ∨
		Project Num
		21.081

$3_{\frac{1}{1/2^{t}=1-0^{t}}}$

$4 \frac{\text{TYP. EXIT SIGN MOUNTING DTL.}}{1/2^{t} = 1-0^{t}}$

SIGNAGE DETAILS 3" = 1-0"

SEE ELECTRICAL DRAWINGS FOR ALL ILLUMINATED SIGNAGE

Project Title: Ansonia Housing Authority Apartment Building Renovations 1 Holbrook Place Ansonia, CT 06401

		WALL	WALL	WALL	WALL	CEILING	FLOOR					WALL	WALL	WALL	WALL	CEILING	FLOOR	
Number	Name	FINISH	FINISH	FINISH	FINISH	FINISH	FINISH	BASE	COMMENTS	Number	Name	FINISH	FINISH	FINISH	FINISH	FINISH	FINISH	
100	HALLWAY	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2		500	HALLWAY	PT-1	PT-1	PT-1	PT-1	PT-3	WF	
101	BATHROOM	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	WB / PT-2	MRX	501	BATHROOM	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	\mathbb{W}
102	PANTRY	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	WB / PT-2		502	PANTRY	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	\mathbb{W}
103	KITCHEN	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	WB / PT-2		503	KITCHEN	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	
105	BEDROOM 1	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2		505	BEDROOM 1	PT-1	PT-1	PT-1	PT-1	PT-3	WF	
106	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2		506	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	Wi
107	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2		507	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	Wi
108	BEDROOM 2	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2		508	BEDROOM 2	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WF
109	LIVING ROOM	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2		509	LIVING ROOM	PT-1	PT-1	PT-1	PT-1	PT-3	WF	W
110	BEDROOM 3	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB/PT-2		510	BEDROOM 3	PT-1	PT-1	PT-1	PT-1	PT-3	WF	W
111	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2		511	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WF
200	HALLWAY	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2	MRX	600	HALLWAY	PT-1	PT-1	PT-1	PT-1	PT-3	WF	\mathbb{W}
201	BATHROOM	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	WB / PT-2		601	BATHROOM	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	
202	PANTRY	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	WB/PT-2		602	PANTRY	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	W
203	KITCHEN	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	WB / PT-2		603	KITCHEN	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	
205	BEDROOM 1	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2		605	BEDROOM 1	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WF
206	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2		606	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	
207	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2		607	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	
208	BEDROOM 2	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2		608	BEDROOM 2	PT-1	PT-1	PT-1	PT-1	PT-3	WF	W
209	LIVING ROOM	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2		609	LIVING ROOM	PT-1	PT-1	PT-1	PT-1	PT-3	WF	
210	BEDROOM 3	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2		610	BEDROOM 3	PT-1	PT-1	PT-1	PT-1	PT-3	WF	
211	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB / PT-2		611	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WF
STO1	STAIR HALL	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	RB / PT-2	ABX	STO3	STAIR HALL	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	RE

	\underline{TYPE} (A)
•	CENTER TRANSITION UNDER DOOR LEAFS AT DO
•	LOCATIONS CENTER WITH DOORWAYS AT CASED OPENINGS

WOOD TRANSITION

STRIP; FTS-1 ------

----- EXISTING WOOD

FLOOR (REFINISHED).

CONTRACTOR PRIOR

TO FABRICATION OF

TRANSITION STRIP

VERIFY FLOOR THICKNESS W/

SILVER | PETRUCELLI + ASSOCIATES Revision: Architects | Engineers | Interior Designers

3190 Whitney Avenue | Hamden, CT 06518 One Post Hill Place | New London CT 06320

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silverpetrucelli.com

Description: ISSUED FOR BID

ROOM FINISH SCHEDULE - FIRST FLOOR

EAST NORTH SOUTH WEST

MRX PT RB PY ≫ SB VF VB VF	 MOLD RESISTANT TYPE X GYPSUM BOARD -PAINT -RUBBER BASE -TYPICAL -WITH -WOOD WALL BASE - 1X6 WITH 1/4" ROUND SHOEMOLD -WOOD FLOOR (EXISTING TO BE REFINISHED)
SEE	PROJECT MANUAL FOR ADDITIONAL INFORMATION
	GENERAL FINISH NOTES
1.	PREP ALL SURFACES FOR MATERIAL TO BE APPLIED BASED ON MANUFACTURER'S GUIDELINES
2.	WALL CAP TRIM AND HANDRAILS IN ALL STAIRS TO BE PAINTED PT-2 UNI ESS OTHERWISE NOTED
З.	ALL DOOR FRAMES, WINDOW TRIM, BASE MOLDING,
4.	ALL OUTSIDE CORNERS IN ALL CORRIDORS TO RECIEVE PVC CORNER GUARDS. CORNER GUARD TO RUN FROM
5.	PROVIDE UNIT PRICING FOR STRIPPING, PREPARING, REPAIRING, AND REFINISHING ALL EXISTING HARDWOOD FLOORS TO REMAIN. CONTRACTOR TO FIELD VERIFY CONDITION AND AREAS OF ALL EXISTING HARDWOOD FLOORS
6.	SEE SECTIONS AND STAIR DETAILS FOR FINISH AT
7.	PROVIDE MOVABLE WALKOFF MAT AT FIRST FLOOR STAIR HALL AT INSIDE OF ENTRY
8.	PROVIDE PLYWOOD SECONDARY SUBFLOOR (OVER EXISTING PLANK SUBFLOOR) AT ALL LVT LOCATIONS. INSTALL PER LVT INSTALLATION REQUIREMENTS. 1/4" MINIMUM THICKNESS. COORDINATE PLYWOOD THICKNESS TO MATCH LVT ELEVATION WITH ADJACENT HARDWOOD FLOOR.
	FLOOR TRANSITION NOTES
1.	ALL WOOD FLOOR (WF) TO LUXURY VINYL TILE (LVT) AT BATHROOMS AND KITCHENS REQUIRE TRANSITION STRIPS - SEE TRANSITION TYPE A
2.	ALL STAIR RUBBER TREADS REQUIRE TRANSITION STRIP TO LVT IN INTERIOR FRONT STAIR HALL. SEE TRANSITION TYPE B

ABBREVIATION LEGEND

ARX -ABUSE RESISTANT TYPE X GYPSUM BOARD

E.T.R. -EXISTING TO REMAIN FTS -FLOOR TRANSITION STRIP LVT -LUXURY VINYL TILE

Date:	Revised By:	Drawing Title:	Date:	D
4/13/2022		INTERIOR FINISH SCHEDULES	4/13/2022	
		3" = 1'-0"		
	AND NOTES	Drawn By:		
			BJ∨	
			Project Number: 21.081	

EAST NORTH SOUTH WEST

ROOM FINISH SCHEDULE - THIRD FLOOR

22	PANTRY	PT-1	PT-1	PT-1	PT-1	PT-3	LVT
23	KITCHEN	PT-1	PT-1	PT-1	PT-1	PT-3	LVT
25	BEDROOM 1	PT-1	PT-1	PT-1	PT-1	PT-3	WF
06	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF
07	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF
28	BEDROOM 2	PT-1	PT-1	PT-1	PT-1	PT-3	WF
9	LIVING ROOM	PT-1	PT-1	PT-1	PT-1	PT-3	WF
0	BEDROOM 3	PT-1	PT-1	PT-1	PT-1	PT-3	WF
	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF
02	STAIR HALL	PT-1	PT-1	PT-1	PT-1	PT-3	LVT

		EAST	NORTH	SOUTH	WEST			
		WALL	WALL	WALL	WALL	CEILING	FLOOR	
Number	Name	FINISH	FINISH	FINISH	FINISH	FINISH	FINISH	E
300	HALLWAY	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
301	BATHROOM	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	WB
302	PANTRY	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	WB
303	KITCHEN	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	WB
305	BEDROOM 1	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
306	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
307	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
308	BEDROOM 2	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
309	LIVING ROOM	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
310	BEDROOM 3	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
311	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
400	HALLWAY	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
401	BATHROOM	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	WB
402	PANTRY	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	WB
403	KITCHEN	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	WB
405	BEDROOM 1	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
406	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
407	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
408	BEDROOM 2	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
409	LIVING ROOM	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
410	BEDROOM 3	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
411	CLOSET	PT-1	PT-1	PT-1	PT-1	PT-3	WF	WB
STO2	STAIR HALL	PT-1	PT-1	PT-1	PT-1	PT-3	LVT	RB /

ROOM FINISH SCHEDULE - SECOND FLOOR

3ASE	COMMENTS
/ PT-2 / PT-2 / PT-2	MRX
/ PT-2 / PT-2	
/ PT-2 / PT-2	
/ PT-2 / PT-2	
/ PT-2 / PT-2 / PT-2	
/ PT-2 / PT-2 / PT-2	MRX
/ PT-2 / PT-2 / PT-2	
/ PT-2 / PT-2	
/ PT-2 / PT-2 / PT-2 / PT-2	
/ PT-2	ABX
BASE	COMMENTS
3 / PT-2 3 / PT-2	MRX
3 / PT-2 3 / PT-2 3 / PT-2 3 / PT-2	
3 / PT-2 3 / PT-2	
3 / PT-2 3 / PT-2	
3 / PT-2 3 / PT-2	
3/PT-2 3/PT-2	
3 / PT-2	
3 / PT-2 3 / PT-2	
3 / PT-2 3 / PT-2	
3 / PT-2 3 / PT-2	
) / PT-2	ABX
22	Drawing Number:

<u>GENERAL</u> THE INTENT OF THESE CONTRACT DOCUMENTS (SPECIFICATIONS AND DRAWINGS) IS FOR THE CONTRACTOR TO FURNISH AND	SUBMIT A COMPLETE MAINT
INSTALL COMPLETE PLUMBING SYSTEMS. ALL SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS. OPERATING, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER. WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCURS, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS	HANGERS AND SUPPORTS SEISMIC RESTRAINT: PROVI ACCORDANCE WITH STATE A LICENSED PROFESSIONA
SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.	COMPONENT CUTS, PLAN L
READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST. WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES. THE DRAWINGS AND THE SPECIFICATIONS. THE MORE	EQUIPMENT. HANGERS AND AND TO KEEP PIPING IN PRO CASES WHERE HANGERS, B OR PENETRATE WATERPRO PIPING IS ERECTED. HANGE
STRINGENT REQUIREMENT SHALL APPLY. DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE	THE BUILDING STRUCTURE IN SUPPORTED MAY BE MADE ADJUSTED BOTH IN THE VEI BRASS PIPE SHALL BE DIEL
OF ALL NECESSART WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT STSTEMS BT THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.	PROVIDE ADDITIONAL SUPP BEAM CLAMPS - HANGERS SUPPORTING PIPING 2 INCHE
PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS.	ARE NOT TO BE USED. PROVIDE AND INSTALL EXP
WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.	BAND IRON, TIE WIRE, METAI <u>PIPE SEALS</u> SEAL ALL PIPING PASSING APPROVED AND TESTED FI
ALL EQUIPMENT, MATERIALS AND RELATED SYSTEMS COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.	ALL PIPING PENETRATING A
STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER AND CONTROL WIRING REQUIRED FOR EQUIPMENT	PROVIDED WITH A POURED AND SEAL EQUAL TO "LINK
OPERATION REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS FOR INSTALLATION. COORDINATE REQUIREMENTS. PROVIDE AND INSTALL INDIRECT CONDENSATE WASTE PIPING AND TRAP TO FLOOR DRAIN OR DRAIN RECEPTOR FROM ALL	FURNISH AND SET STEEL P WALLS AND FLOORS PROY WALL SLEEVES SHALL BE ABOVE THE FINISHED FLOO
HVAC EQUIPMENT. PROVIDE ADDITIONAL FLOOR DRAINS WITH TRAP PRIMERS OR DRAIN RECEPTORS AS REQUIRED. PLUMBING DEVICES, FAUCETS, VALVES AND FITTINGS REQUIRED FOR SPECIALTY SERVICE EQUIPMENT SHALL BE PROVIDED BY THIS CONTRACTOR UNLESS OTHERWISE SPECIFIED. THIS CONTRACTOR SHALL PROVIDE AND INSTALL PIPING, CONNECTIONS, DEVICES VALVES AND EQUIPMENT REQUIRED FOR PROPER OPERATION. COORDINATE REQUIREMENTS.	ALL PIPING THROUGH WALL CHROME ESCUTCHEON WHE PLUMBING FIXTURES
ALL EXPOSED PIPING, STOPS, COCKS, AND WASTES WHICH ARE VISIBLE SHALL BE CHROME PLATED.	PLUMBING FIXTURES SHALL STOPS, TRAPS, TAILPIECES FASTENING DEVICES. NOTE
REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION. <u>COORDINATION</u> THE CONTRACTOR SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS, INCLUDING PROJECT MANUAL, PLANS AND PRECIPICATIONS OF ALL TRADED REFORE SUBJECT DOCUMENTS, INCLUDING PROJECT MANUAL, PLANS AND	CONSTRUCTED OF FORGEI NON-CORROSIVE PARTS: D DIE CASTINGS AND STAMPIN NECESSARY TRIM, DEVICES
SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFER TO SPECIFICATIONS, PROJECT MANUAL AND PLANS, INCLUDING ALL EQUIPMENT SCHEDULES FOR INFORMATION. CONTRACTOR SHALL WALK THROUGH BUILDING PRIOR TO SUBMITTING BID WHEN AVAILABLE.	ESCUTCHEONS SHALL BE O P-TRAPS SHALL BE ONE-PI
ALL WORK AND ACTION DEPICTED AND DESCRIBED SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY	EXAMINE ROUGHING-IN WOR CONNECTIONS PRIOR TO IN CONDITIONS FOR INSTALLA HAVE BEEN CORRECTED IN
NOTED OTHERWISE. CONTRACTORS SHALL COORDINATE THEIR WORK WITH ALL OWNER-FURNISHED EQUIPMENT, INCLUDING REQUIRED SERVICE CONNECTIONS RECEPTACLES ETC BEFORE INSTALLATION	CONFORM TO FIXTURE MAN UPON COMPLETION OF INST
THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED FOR INSTALLATION ARE TO BE PERFORMED AT	RETEST TO DEMONSTRATE RETESTING. CLEAN PLUMBING FIXTURES
NO ADDITIONAL COST TO THE OWNER. DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.	ADJUST WATER PRESSURE FLOW STREAM AND SPECIF
SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER FITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS	SET FIXTURES LEVEL AND OUT ROUGHING ACCURATEL
AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:	LOCATE WASTE OUTLETS FIXTURE DRAIN CONNECTIO
-MECHANICAL SHEET METAL -PLUMBING PIPING -MECHANICAL PIPING -SPRINKLER PIPING -ELECTRICAL WORK	REFER TO THE ARCHITECT SHALL BE COORDINATED V CONTAINED IN THE DRAWING
AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.	DRAINS AND CLEANOUTS PROVIDE ALL POURED-IN-P
THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT	INSTALL EXTERIOR CLEAN
DOCUMENTS. SUBMIT FINAL SIGNED COORDINATION DRAWINGS TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.	EDGE OF THE FLOOR GRA BE BRASS OR PLASTIC, OR DRAIN, WASTE AND VENT PI WITH PLATE-STYLE ACCES RAISED SQUARE OR COUNT
ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.	A TRIP HAZARD. CLEANOU PROVIDE TRAP GUARDS FC
EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.	CLEANOUTS SHALL BE LOO LARGER PIPING.
CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE APPROVED, REVISED, OR RESUBMITTED AS PER THE ENGINEERS COMMENTS, PRIOR TO CONSTRUCTION. INCLUDING BUT NOT LIMITED TO THE FOLLOWING: -PLUMBING FIXTURES -CLEAN OUTS -DRAINS	BUILDING SEWERS SHALL B THE UPSTREAM ENTRANCE PROVIDED AND LOCATED N EACH CHANGE IN DIRECTIOI
-PIPING -PIPE SEALS -COMPRESSORS -FITTINGS -BRAZING -HANGERS/SUPPORTS -INSULATION -THERMOSTATIC MIXING VALVES -EXPANSION TANKS -VALVES -PUMPS -WATER HEATERS	SHALL BE OF AN APPROVE CLEANOUTS SHALL BE INS' SOIL LINES GREATER THAN A RUN OF PIPING ONLY ONE
<u>AS-BUILT DRAWINGS</u> PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS	DRAINAGE PIPING. A CLEANOUT SHALL BE PR
THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH	THERE SHALL BE A CLEAN SHALL BE EITHER INSIDE O THE CLEANOUT AT THE JUN ON A 3-INCH OR LARGER D
PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:	CONCEALED PIPING. CLEAN THAN 24 INCHES IN HEIGHT (
INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.	FLOOR OR GROUND SURFA BE COVERED WITH CEMENT A CLEANOUT OR TO TERMI
MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.). VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART.	MINIMUM SIZE. CLEANOUTS LARGER THAN 4 INCHES NO
EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.	CAST-IRON CLEANOUT SIZI CISPI 301 FOR HUBLESS FIT
CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.	ACCESS SHALL BE PROVID
SUBMIT FOR REVIEW PDF'S OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.	PROVIDE CONDENSATE DR.

Ansonia Housing Authority Apartment Building Renovations 1 Holbrook Place Ansonia, CT 06401

FENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

IDE SEISMIC RESTRAINT AND EXPANSION OF ALL PLUMBING EQUIPMENT AND SYSTEMS IN AND FEDERAL BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY L ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY OCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM.

STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND) SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT PIPING, EQUIPMENT OPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL BRACKETS, ETC., ARE SUPPORTED FROM CONCRETE CONSTRUCTION, DO NOT WEAKEN CONCRETE OOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER ERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO N SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY RTICAL AND HORIZONTAL DIRECTION, AS REQUIRED. HANGERS IN CONTACT WITH COPPER OR ECTRIC, COMPATIBLE WITH COPPER AND BRASS ALLOY OR PROVIDED WITH FELT SLEEVE. PORT FOR PIPING AND EQUIPMENT WHEN DECK IS NOT CAPABLE OF SUPPORT.

SUPPORTED FROM STEEL SHALL BE CENTER LOADING BEAM CLAMPS FOR HANGERS IES. FOR PIPING 2-1/2 INCHES AND LARGER, I BEAM CLAMPS SHALL BE FORGED STEEL. "C" CLAMPS

PANSION COMPENSATION FOR ALL PIPING. SUBMIT PLANS, CALCULATIONS AND EQUIPMENT DATA. L STRAPPING OR WIRE STRAPPING SHALL NOT BE PERMITTED TO SUPPORT PIPING OR EQUIPMENT.

THROUGH ALL FIRE AND/OR SMOKE RATED PARTITIONS AND WALLS WITH A UL-LISTED, IRE AND/OR SMOKE SEALING MATERIAL INSTALLED IN ACCORDANCE WITH MANUFACTURERS

SLAB ON GRADE OR FOUNDATION WALL BELOW GRADE AND IN CONTACT WITH EARTH SHALL BE IN PLACE SCHEDULE 80 GALVANIZED STEEL WATER TIGHT SLEEVE WITH INTEGRAL WATER STOP SEAL"

IPE SLEEVES OF SCHEDULE 40 BLACK STEEL FOR ALL LOCATIONS OF INTERIOR PARTITIONS, VIDING AT LEAST 1/2" CLEARANCE BETWEEN PIPE INSULATION AND SLEEVE OR PIPE AND SLEEVE. SMOOTH CUT AND SET FLUSH WITH FINISHED WALLS. FLOOR SLEEVES SHALL EXTENDED 2"

_S, FLOORS OR CEILINGS SHALL HAVE SLEEVES AND ESCUTCHEONS. PROVIDE A TWO PIECE ERE PIPING PASSES THROUGH WALLS OR FLOORS OF FINISHED SPACES.

BE NEW, COMPLETE WITH TRIMMINGS AND FITTINGS, INCLUDING FAUCETS, CARRIERS, SUPPLIES, , WASTE PLUGS, CASINGS, HANGERS, PLATES, BRACKETS, ANCHORS, SUPPORTS, HARDWARE AND : ALL FIXTURES SHALL BE OF SAME MANUFACTURER. TRIMMINGS AND FITTINGS SHALL BE D, CAST, ROLLED OR EXTRUDED BRASS OR BRONZE WITH MONEL AND OTHER SUITABLE DESIGNED WITH EASILY RENEWABLE PARTS THAT ARE SUBJECT TO WEAR OR DETERIORATION. NO NGS OTHER THAN BRASS OR STAINLESS STEEL. PROVIDE PLUMBING FIXTURES AND TRIM WITH ALL AND ACCESSORIES REQUIRED FOR PROPER OPERATIONS SPECIFICALLY NOTED OR NOT.

ONE-PIECE CHROME PLATED CAST BRASS OR STAINLESS STEEL.

IECE CHROME PLATED CAST BRASS WITH CLEANOUT PLUG.

K OF POTABLE WATER AND WASTE PIPING SYSTEMS TO VERIFY ACTUAL LOCATIONS OF PIPING ISTALLING FIXTURES. CORRECT ANY INCORRECT LOCATION OF PIPING, AND UNSATISFACTORY TION OF PLUMBING FIXTURES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS A MANNER ACCEPTABLE TO THE ENGINEER. ALL ROUGH-IN TO PLUMBING FIXTURES SHALL NUFACTURER PUBLISHED ROUGH-IN DIMENSIONS, AND REQUIREMENTS.

FALLATION OF PLUMBING FIXTURES AND AFTER UNITS ARE WATER PRESSURIZED, TEST FIXTURES ILITY AND COMPLIANCE WITH REQUIREMENTS. CORRECT MALFUNCTIONING UNITS AT SITE, THEN E COMPLIANCE; OTHERWISE, REMOVE AND REPLACE WITH NEW UNITS AND PROCEED WITH

, TRIM, AND STRAINERS OF DIRT AND DEBRIS UPON COMPLETION OF INSTALLATION. AT DRINKING FOUNTAINS, FAUCETS, SHOWER VALVES, AND FLUSH VALVES TO PROVIDE PROPER FIED GPM.

UNIFORMLY, WITH CONNECTIONS AT RIGHT ANGLES TO WALL AND PROPERLY CENTERED. LAY _Y AND IN COORDINATION WITH SPACE AND FINISH REQUIREMENTS.

AND WATER SUPPLIES AT CONSTANT HORIZONTAL LEVELS, WITH WASTE OUTLET CENTERED ON N AND WATER SUPPLIES SPACED EQUALLY TO RIGHT AND LEFT.

TURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF EQUIPMENT. COLORS WITH THE ARCHITECT. CONTACT ARCHITECT FOR CLARIFICATION IF INFORMATION IS NOT

PLACE DRAINS AND CLEANOUTS WITH 24" X 24" FLASHING.

BRONZE OUTLET FITTING FOR ALL SECONDARY ROOF DRAIN OUTLETS.

IOUTS WITH A 18" SQUARE X 6" THICK CONCRETE APRON.

IN LOCATIONS WITH RESPECT TO EQUIPMENT HOUSEKEEPING PADS. PLACE DRAINS SUCH THAT ATE EXTENDS NO FURTHER THAN 2 INCHES FROM THE SIDE OF THE PAD. CLEANOUT PLUGS SHALL OTHER APPROVED MATERIALS. BRASS CLEANOUT PLUGS SHALL BE UTILIZED WITH METALLIC IPING ONLY, AND SHALL CONFORM TO ASTM A 74, ASME A112.3.1 OR ASME A112.36.2M. CLEANOUTS SS COVERS SHALL BE FITTED WITH CORROSION-RESISTING FASTENERS. PLUGS SHALL HAVE TERSUNK SQUARE HEADS. COUNTERSUNK HEADS SHALL BE INSTALLED WHERE RAISED HEADS ARE T PLUGS WITH BOROSILICATE GLASS SYSTEMS SHALL BE OF BOROSILICATE GLASS.

OR EACH FLOOR DRAIN.

ICATED AT MINIMUM INTERVALS OF 50 FEET FOR PIPING NPS 4 AND SMALLER AND 100 FEET FOR

BE PROVIDED WITH CLEANOUTS LOCATED NOT MORE THAN 100 FEET APART MEASURED FROM OF THE CLEANOUT. FOR BUILDING SEWERS 8 INCHES AND LARGER, MANHOLES SHALL BE 10T MORE THAN 200 FEET FROM THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER, AT IN AND AT INTERVALS OF NOT MORE THAN 400 FEET APART. MANHOLES AND MANHOLE COVERS ED TYPE.

TALLED AT EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR 1 45 DEGREES (INCLUDING P-TRAPS). WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN (1) CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE

ROVIDED AT THE BASE OF EACH WASTE OR SOIL STACK.

YOUT NEAR THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER. THE CLEANOUT OR OUTSIDE THE BUILDING WALL AND SHALL BE BROUGHT UP TO THE FINISHED FLOOR LEVEL. NCTION OF THE BUILDING DRAIN AND BUILDING SEWER SHALL NOT BE REQUIRED IF THE CLEANOUT IAMETER SOIL STACK IS LOCATED WITHIN A DEVELOPED LENGTH OF 10 FEET OF THE BUILDING R CONNECTION.

YOUTS ON CONCEALED PIPING OR PIPING UNDER A FLOOR SLAB OR IN A CRAWL SPACE OF LESS OR A PLENUM SHALL BE EXTENDED THROUGH AND TERMINATE FLUSH WITH THE FINISHED WALL, ACE OR SHALL BE EXTENDED TO THE OUTSIDE OF THE BUILDING. CLEANOUT PLUGS SHALL NOT , PLASTER OR ANY OTHER PERMANENT FINISH MATERIAL. WHERE IT IS NECESSARY TO CONCEAL INATE A CLEANOUT IN AN AREA SUBJECT TO VEHICULAR TRAFFIC, THE COVERING PLATE, ACCESS LL BE OF AN APPROVED TYPE DESIGNED AND INSTALLED FOR THIS PURPOSE.

SHALL BE THE SAME NOMINAL SIZE AS THE PIPE THEY SERVE UP TO 4 INCHES. FOR PIPES DMINAL SIZE, THE MINIMUM SIZE OF THE CLEANOUT SHALL BE 4 INCHES.

NG SHALL BE IN ACCORDANCE WITH ASTM A 74 FOR HUB AND SPIGOT FITTINGS OR ASTM A 888 OR TINGS.

DED TO ALL CLEANOUTS.

AINAGE, FOR EACH COOLING COIL. CONDENSATE PUMP DISCHARGE SHALL BE CONNECTED VIA

INDIRECT WASTE CONNECTION TO BUILDING SANITARY/WASTE PIPING SYSTEM. COORDINATE PUMP WIRING WITH PROJECT ELECTRICIAN. IF GRAVITY DRAINAGE IS POSSIBLE WITHIN THE CONSTRAINTS OF PIPING PITCH, CONCEALMENT ABOVE CEILINGS, AND ONLY AFTER COMPLETE COORDINATION WITH STRUCTURE AND OTHER TRADES, THE CONTRACTOR MAY SUBMIT SKETCH PROPOSALS FOR GRAVITY ROUTING FOR REVIEW/APPROVAL.

MISCELLANEOUS SPECIALTIES ALL EQUIPMENT, VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS SHALL BE LOCATED IN ACCESSIBLE LOCATIONS. WHEN A PIECE OF EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING OR WALL THEN THE APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. SUCH EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO CLEANOUTS, WATER HAMMER ARRESTORS AND VALVES. THESE SHALL BE COORDINATED WITH THE ARCHITECT. ACCESS DOORS SHALL BE RIGID CONSTRUCTION WITH TWO (2) HINGES AND A LATCH. IN PLENUM CEILINGS, PROVIDE FELT BETWEEN THE DOOR AND FRAME TO MAKE AN AIR TIGHT SEAL. ACCESS DOORS SHALL BE RATED TO THE SAME OR GREATER RATING OF THE PARTITION IN WHICH THEY ARE INSTALLED. ACCESS DOORS SHALL BE FLUSH MOUNTED, PRIME COATED WITH RUST INHIBITIVE PAINT, CONCEALED FRAME, FLUSH SCREW DRIVER OPERATED LOCKS WITH METAL CAMS AND ANCHORS AS REQUIRED.

ACCESS DOOR SIZES SHALL BE: 12" X 12" AT EASILY ACCESSIBLE ITEMS 16" X 16" WHERE PARTIAL BODY ACCESS IS REQUIRED 24" X 24" WHERE FULL BODY ACCESS IS REQUIRED

PROVIDE AND INSTALL DRIP PANS WITH WATER DETECTOR AND DRAIN FOR PIPING REQUIRED BY ACTUAL FIELD CONDITIONS WHERE PIPING PASSES OVER INCLUDING AREA WITHIN 3'-O' OF ELECTRICAL EQUIPMENT.

DAMAGE FINISHES. PROVIDE AND INSTALL AN OVERSIZED COPPER FUNNEL WITH AIR GAP DIRECTLY BELOW RPD PRESSURE RELIEF PORT. PIPE FUNNEL TO SPILL AS AN INDIRECT WASTE TO AN APPROVED DRAIN LOCATION. PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRES VIBRATION ISOLATION, EXCEPT WATER COILS. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE.

<u>PIPING GENERAL</u> NO PIPING SHALL BE COVERED UNTIL TESTED AND APPROVED BY THE AUTHORITIES HAVING JURISDICTION.

ALL PIPING SHALL BE RUN PERPENDICULAR AND/OR PARALLEL TO FLOORS, INTERIOR WALLS, ETC. PIPING AND VALVES SHALL BE GROUPED NEATLY AND SHALL BE RUN AS TO MAXIMIZE HEADROOM OR PASSAGE CLEARANCE. ALL VALVES, CONTROLS AND ACCESSORIES CONCEALED IN FURRED SPACES AND REQUIRING ACCESS FOR OPERATION AND MAINTENANCE SHALL BE ARRANGED TO ASSURE THE USE OF A MINIMUM NUMBER OF ACCESS DOORS.

ALL PIPE LINES MADE WITH SCREWED FITTINGS MUST BE PROVIDED WITH A SUFFICIENT NUMBER OF FLANGES AND/OR UNIONS TO ALLOW FOR EASY AND CONVENIENT DISMANTLING OF THE SYSTEM WITHOUT BREAKING FITTINGS.

ALL PIPING SHALL RUN CONCEALED IN FURRED SPACES OF OCCUPIED AREAS OR CHASES. CONTRACTOR SHALL OBTAIN PERMISSION TO RUN ANY EXPOSED PIPES.

CAP ALL PIPE AND EQUIPMENT OUTLETS DURING CONSTRUCTION AND KEEP LINES AND INSIDE OF EQUIPMENT FREE OF FOREIGN MATERIALS.

PROVIDE FOR EXPANSION WITHOUT WARPING OR DISLOCATING LINES OR STRAINING CONNECTED EQUIPMENT. INSTALL PIPING TO CLEAR BUILDING CONSTRUCTION AND TO AVOID INTERFERENCE WITH OTHER WORK. THE CONTRACTOR SHALL PROVIDE AND INSTALL COMPLETE PIPING EXPANSION SYSTEM (INCLUDING SEISMIC JOINT EXPANSION) AND DEVICES AS REQUIRED FOR PROPER EXPANSION COMPENSATION STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. THE DRAWINGS INDICATE SCHEMATICALLY THE SIZE AND LOCATION OF PIPING. PIPING SHALL BE SET UP AND DOWN AND

OFFSET AS REQUIRED TO MEET CONSTRUCTION CONDITIONS. THIS CONTRACTOR SHALL INFORM HIMSELF FROM THE GENERAL CONSTRUCTION SPECIFICATIONS AND PLANS, OF THE

EXACT DIMENSION OF FINISHED WORK AND OF THE HEIGHT OF FINISHED CEILINGS IN ALL ROOMS WHERE EQUIPMENT OR PIPES ARE TO BE PLACED AND ARRANGE HIS WORK IN ACCORDANCE WITH THE SCHEDULE OF INTERIOR FINISHES, AS INDICATED ON THE ARCHITECTURAL DRAWINGS. WATER PIPING SHALL BE RUN FREE OF TRAPS AND UNNECESSARY BENDS. ANY TRAPS FORMED SHALL BE PROVIDED WITH

HOSE END DRAIN VALVES WITH THREADED CAP AND CHAIN TO COMPLETELY DRAIN THE SYSTEM. PROVIDE SECTION CUT-OFF VALVES ON ALL MAINS AND BRANCHES. PITCH AND VALVE ALL WATER PIPING FOR CONVENIENT DRAINAGE.

UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS. WHEREVER DISSIMILAR METALS ARE JOINED TOGETHER AN APPROVED DIELECTRIC FITTING SHALL BE USED. THE

DIELECTRIC FITTING SHALL BE A LISTED ASSEMBLY.

RUN ALL SOIL, WASTE AND VENT PIPING SHOWN OR REQUIRED BY LOCAL CODES. PIPING SHOWN IS MINIMUM AND IN ACCORDANCE WITH STATE AND FEDERAL CODES. IF LOCAL CODES REQUIRE ADDITIONAL VENTING OR LARGER SIZES, PROVIDE AS REQUIRED.

MAKE ALL CONNECTIONS THROUGH TRAPS. EACH TRAP TO BE VENTED, EITHER BY CIRCUIT, LOOP, OR INDIVIDUAL VENT, AS REQUIRED, BUT NOT LESS THAN SHOWN, OR AS REQUIRED BY LOCAL CODE.

ALL UNDERGROUND PIPING SHALL BE LAID ON 6" SAND AND BACKFILLED WITH CLEAN FINE EARTH COMPACTED TO 12" ABOVE PIPE. COMPLETE BACKFILL WITH AVAILABLE EARTH FREE OF LARGE BOULDERS AND SHARP ROCKS. TAMP BACKFILL IN 6" ELEVATIONS AND OVERFILL TO ALLOW FOR SETTLEMENT.

SET AND PROPERLY CONNECT ALL FIXTURES WITH HOT AND COLD WATER, VENT AND DRAINAGE PIPING, AS REQUIRED AND PROTECT FIXTURES UNTIL ACCEPTANCE AND TEST. CLEAN ALL FLUSH VALVES AFTER TWO (2) WEEKS OF OPERATION.

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Description:

DO NOT INSTALL AIR GAP BACKFLOW PREVENTERS IN CONCEALED SPACES OR IN AREAS WHERE SPLASHING WATER WILL

PLUI	MBING ABBREVIATIONS
ABBREVIATION	DESCRIPTION
	AMERICAN DISABILITIES ACT
A.F.F. AFG	ABOVE FINISHED FLOOK ABOVE FINISHED GRADE
B.F.F.	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
	BUTTERFLY INDICATING VALVE
BLUG	BUILDING BRITIGH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
C.E.	CIVIL ENGINEER
CONT	
COP	CHEANOUT PLUG CHEORINATED POLYVINYL CHEORIDE
CV	CHECK VALVE
CW	COLD WATER
D.F.U.	DRAINAGE FIXTURE UNITS
DN.	DOWN
DWG	DRAWING
EA	
E.C. F\\/H	ELECTRICAL CONTRACTOR
EX.	EXISTING
FCO	FLOOR CLEANOUT
FD	
	FLOOK DRAIN WITH FUNNEL
F.F.	FINISHED FLOOR
F.F.E.	FINISHED FLOOR ELEVATION
FLR.	
F.P.C. FS	FIRE PROTECTION CONTRACTOR FLOOR SINK
FSB	FLOOR SINK WITH SEDIMENT BUCKET
FSH	FLOOR SINK WITH HALF GRATE
FSQ	FLOOR SINK WITH THREE-QUARTER GRATE
FI F.U.	FEET FIXTURE UNITS
GAL	GALLONS
G.C.	GENERAL CONTRACTOR
GPF GPH	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HD	HUB DRAIN
HR	HOUR
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
HT K\\/	
MAX.	MAXIMUM
MBTUH	THOUSANDS OF BTU PER HOUR
M.C.	MECHANICAL CONTRACTOR
MISC.	MISCELLANEOUS
NC	NORMALLY CLOSED
N.I.C.	
NO NITS	NORMALLY OPEN NOT TO SCALE
P.C.	PLUMBING CONTRACTOR
P.R.A.	PROJECTED ROOF AREA
PSI	POUNDS PER SQUARE INCH
RAD.	RADIUS
RD	ROOF DRAIN
RO	
RDBFP	REDUCED PRESSURE BACKFLOW PREVENTER
S.C.	SITE CONTRACTOR
SF	SQUARE FEET
	SANITARY SEWER STACK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TW	
	I YHCAL
	VENT
VВ	VACUUM BREAKER
V.I.F.	
V5 VTR	VENT THROUGH ROOF
WCO	WALL CLEANOUT
WH	WALL HYDRANT
WS	WASTE STACK
Ø	DIAMETER

PLUMBING LINETYPE LEGEND				
LINETYPE	DESCRIPTION			
	DOMESTIC COLD WATER PIPING			
	DOMESTIC HOT WATER SUPPLY PIPING			
	DOMESTIC HOT WATER RETURN PIPING			
s	SANITARY WASTE PIPING ABOVE GRADE			
	SANITARY WASTE PIPING BELOW SLAB			
v	SANITARY VENT PIPING			

	PLL	JMBING SYM					
SYMBOL							
$\overline{\mathbf{O}}$		AIR ADMITTANCE VALVE					
þ		BALANCING VALVE					
•		BALL VALVE					
\square		VALVE IN UNDERGROUN					
Ō		BACKWATER VALVE					
Z		CHECK VALVE					
√		GAS VALVE					
Å		PRESSURE RELIEF VALV					
k		THERMOSTATIC MIXING					
X		GATE VALVE					
C+		SUPPLY VALVE					
Ø		METER					
		REDUCED PRESSURE BA					
<u>দিতদ</u>		CLOTHES WASHER CON					
		FLOOR CLEANOUT					
<u>ح</u>		WALL CLEANOUT					
$\overline{\mathbf{O}}$		YARD CLEANOUT					
		FLOOR DRAIN					
		FLOOR DRAIN WITH FUNI					
		FLOOR SINK WITH FULL					
		FLOOR SINK WITH HALF					
		FLOOR SINK WITH THREE					
 @							
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WH							
	0						
	J						
.1.	I	CLEANOU'I PLUG					
4		DIRECTION OF FLOW					
<u>× × × ×</u>	\ X	HIPE OR EQUIPMENT TO E					
XXX		PLUMBING FIXTURE					
<u>XXX-A</u>		ADA COMPLIANT PLUMB					
	PI	_UMBING DRA					
SHEET		<u>гс. с сту</u>					
P001	PLUMBI	NG COVER SHEET					

	SHEET
PLUMBING COVER SHEET	P001
PLUMBING DEMOLITION BASEMEI	P010
PLUMBING DEMOLITION 1ST 2ND	PO11
PLUMBING CONSTRUCTION BASE	P101
PLUMBING CONSTRUCTION 1ST 2	P1O2
PLUMBING DETAILS	P9 O1
PLUMBING SCHEDULES	P901

Date:	Revised By:
/13/2022	

Drawing Title: Plumbing Cover Sheet

Date: 4/13/2022 Scale: AS NOTED Drawn By: MAB Project Number: 21.081

1BOL LEGEND
DESCRIPTION
ND BOX
NNECTION
INEL
GRATE
GRATE E-QUARTER GRATE
Ν
STION
ON
STOR
BE DEMOLISHED
BING FIXTURE
AWING INDEX DESCRIPTION
NT ATTIC & ROOF PLANS
3KD FLOOR PLANS MENT ATTIC & ROOF PLANS
ND 3RD FLOOR PLANS
Drawing Number:
חחר ב
ruui

= $\begin{pmatrix} 1 \\ PO10 \end{pmatrix}$

- $\langle 5
 angle$ DEMO EXISTING KITCHEN SINK. REMOVE ASSOCIATED PIPING AND TRIM. CUT BACK TO EXISTING RISER WHICH IS TO
- $\langle 4
 angle$ DEMO EXISTING WATER CLOSET. REMOVE ASSOCIATED PIPING AND TRIM. CUT BACK TO EXISTING RISER WHICH IS TO REMAIN. PREP FOR NEW WATER CLOSET IN NEW LOCATION.

- PREP FOR NEW LAV IN NEW LOCATION.

PLUMBING FIRST FLOOR DEMOLITION PLAN SCALE: 1/4" = 1'-0"

Project Title:

Ansonia Housing Authority

Ansonia, CT 06401

Apartment Building Renovations 1 Holbrook Place

- $\langle 3 \rangle$ DEMO EXISTING LAV. REMOVE ASSOCIATED PIPING AND TRIM. CUT BACK TO EXISTING RISER WHICH IS TO REMAIN.

- $\langle 2 \rangle$ DEMO EXISTING TUB. REMOVE ASSOCIATED PIPING AND TRIM. CUT BACK TO EXISTING RISER WHICH IS TO REMAIN. PREP FOR NEW TUB IN NEW LOCATION.
- angle DEMO EXISTING STOVE AND ASSOCIATED FLEX HOSE. CHECK CONDITION OF EXISTING GAS LINE. REPLACE AS REQUIRED. PREP FOR NEW STOVE IN EXISTING LOCATION.

PLUMBING DEMOLITION NOTES:

SECOND FLOOR PLUMBING DEMO PLAN SCALE: 1/4" = 1-0"

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Date:

Revised By:

REMOVE EXISTING GAS AND CONDENSATE PIPING ASSOCIATED WITH EXISTING MECHANICAL EQUIPMENT. CAP EACH AT CLOSEST MAIN. MAKE SURE EXISTING WATER HEATERS MAINTAIN GAS SERVICE.

- EXISTING GAS SUB-METERS TO BE REMOVED. REPLACE WITH HEW HOUSE METER, TO BE IN SIMILAR LOCATION. COORDINATE WITH LOCAL UTILITIES.

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Description:

TS	3/23/2022	

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Date:

PLUMBING DEMOLITION BASEMENT, ATTIC,& ROOF PLANS

Drawing Title:

Date: 3/23/2022 Scale: 1/4" = 1'-0" Drawn By: Author Project Number: 21.081

Drawing Number:

PLUMBING CONSTRUCTION NOTES:

(1) INSTALL NEW STOVE AND ASSOCIATED FLEX HOSE. CONNECT TO EXISTING GAS PIPING.

(2) INSTALL NEW TUB AND ASSOCIATED PIPING AND TRIM. CONNECT TO EXISTING RISERS WHICH ARE TO REMAIN.

(3) INSTALL NEW LAV. AND ASSOCIATED PIPING AND TRIM. CONNECT TO EXISTING RISERS WHICH ARE TO REMAIN.

Ansonia Housing Authority Apartment Building Renovations 1 Holbrook Place Ansonia, CT 06401

SECOND FLOOR PLUMBING CONSTRUCTION PLAN SCALE: 1/4" = 1'-0" 2 P101

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Project Title: Ansonia Housing Authority Apartment Building Renovations 1 Holbrook Place Ansonia, CT 06401

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on: Description: 95% CONSTRUCTION DOCUMENT

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PLUMBING CONSTRUCTION BASEMENT, ATTIC, & ROOF PLANS

Drawing Title:

Date: 3/23/2022 Scale: 1/4" = 1'-0" Drawn By: Author Project Number: 21.081

Drawing Number:

MARK

FD-1

DRAIN SCHEDULE

FIXTURE, MODEL NUMBER AND DESCRIPTION TRAP FLOOR DRAIN (TRASH ROOM). WADE 1300-12-5-27-TSD, HEAVY DUTY CAST IRON BODY, BOTTOM OUTLET. 9" DIAMETER CAST IRON TOP, TRAP PRIMER CONNECTION, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP AS NOTED ON AS N DRWGS. FLOOR DRAIN (TOILET ROOM). WADE 1100-AG-27-TSD, HEAVY DUTY CAST IRON BODY, BOTTOM OUTLET. 6" ROUND NICKEL BRONZE TOP, TRAP PRIMER CONNECTION, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP AS NOTED ON AS N DRWGS.

FD-2 OTES:

1. PROVIDE TRAP GUARDS FOR ALL DRAINS. DRAINS INCORPORATING A CONSTANT AND REGULAR WASTE ARE NOT REQUIRED TO INTERGRATE TRAP PRIMERS (I.E. SHOWER DRAINS, KITCHEN DRAINS, E 2. TRANSITION COUPLINGS AND NO-HUB PIPE SHALL NOT BE INSTALLED BELOW SLAB OR IN ANY BURIED CONDITIONS IN CONTACT WITH EARTH. PROVIDE PUSH ON OR INSIDE CAULK OUTLETS.

	BACKFLOW PREVENTER SCHEDULE										
					TEMPERATURE	MAX. WORKING	MANUFACTURER				
MARK	SIZE	LOCATION	SERVICE	BODY MATERIAL	RANGE	PRESSURE	MODEL	K			
	PER		DOMESTIC COLD	RPONZE	33 E-110 E	475 881	WATTS	P			
	DWGS.	FLK DWGS.	WATER	BROHZE	001-1401	170 - 51	LFUOO9-QT	T C			

NOTE: PIPE EACH BFP-1 DISCHARGE VIA AIR GAP FITTING EITHER TO OUTSIDE (PREFERRED), OR TO FIXTURE OR FLOOR DRAIN WITH ADEQUATELY SIZED COLLECTION P SPLASHING AND OVERFLOW) AND DRAIN PIPE (TO ACCOMMODATE DISCHARGE FLOW RATE).

	HEAT TRACE SCHEDULE									
MAKK	LUCATION	SERVICE			WATTS/AMPS	VOLTAGE	PHASE	MODEL	REMARKO	
ЦŦ	PARKING GARAGE	SANITARY	SELF-		8 WATTS/FT/	208 4		RAYCHEM	SYSTEM CONTROLLED BY A RAYCHEM 460 ELECTRONIC CONTROLLER, DOUBLE WRAP CABLE WITH TWO RUNS OF HEATING	
П	PARNING GARAGE	SAIITAN	REGULATING	WAGTE	(2) 30 AMPS	200	I	XL-TRACE 8XL2-CR	CABLE.	
ЦŦ	PARKING GARAGE	STOPM/CD	SELF-	STORM &	8 WATTS/FT/	208 4		RAYCHEM	SYSTEM CONTROLLED BY A RAYCHEM 460 ELECTRONIC CONTROLLER. DOUBLE WRAP CABLE WITH TWO RUNS OF HEATING	
	PARKING GARAGE	STORM/CD	REGULATING	CONDENSATE	TE (3) 30 AMPS	200		XL-TRACE 8XL2-CR	CABLE.	
							-			

REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

	ROUGH-IN	
	WASTE	VENT
4	AS NOTED ON DRWGS.	AS NOTED ON DRWGS.
ł	AS NOTED ON DRWGS.	AS NOTED ON DRWGS.
DI	RAINS, ETC).	

EMARKS EAD FREE, REDUCED ESSURE ZONE BACKFLOW SSEMBLY, WITH QUARTER- RN BALL VALVES, UNION DNNECTIONS	EMARKS EAD FREE, REDUCED RESSURE ZONE BACKFLOW SSEMBLY, WITH QUARTER- RN BALL VALVES, UNION DNNECTIONS	
EAD FREE, REDUCED ESSURE ZONE BACKFLOW SSEMBLY, WITH QUARTER- RN BALL VALVES, UNION DNNECTIONS	EAD FREE, REDUCED ESSURE ZONE BACKFLOW SSEMBLY, WITH QUARTER- RN BALL VALVES, UNION DNNECTIONS	EMARKS
		EAD FREE, REDUCED RESSURE ZONE BACKFLOW SSEMBLY, WITH QUARTER- IRN BALL VALVES, UNION DNNECTIONS

PROVISION	(TO	PREVEN

		INSUL	ATION S	CHEDULE					PLUMBING FIXTURE/EQUIPMENT SC	HEDULE					
SYSTEM	PIPE SIZE	INSULATION TYPE	INSULATION THICKNESS	FITTINGS, VALVES, FLANGES INSU	LATION TYPE	REMARKS	MARK		ENTURE MODEL NUMBER AND RECORTION		R	OUGH-IN			
DOMESTIC COLD WATER	ALL	MINERAL FIBER, ASJ, SSL		MOLDED, PRE-FORMED MINERAL	FIBER WITH PVC	JACKET TYPE1			FIXTURE, FICELE NULIDER AND DESCRIPTION	WASTE/ SANITARY	VENT	CW	HW	FLOW	
DOMESTIC HOT WATER	ALL	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL	FIBER WITH PVC	JACKET TYPE1		ADA CO TANK/B TOP OF	MPLIANT WATER CLOSET: HIGH EFFICIENCY RATED, AMERICAN STANDARD CADET 3 3378.128, ONE-PIECE OWL COMBINATION, ADA, 1.28 GPF, WHITE VITREOUS CHINA, ELONGATED BOWL, 12" ROUGH-IN, 16 1/2" TO RIM. PROVIDE TANK LEVER OPTION WHERE REQ'D TO MEET ADA ACCESSIBILITY REQUIREMENTS. WHITE	3"	2"	1/2"		1.28 GPF	
INTERIOR ROOF DRAIN PIPING	ALL	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL	FIBER WITH PVC	JACKET TYPE1		ELONG,	ATED TOILET SEAT, CLOSED FRONT, WITH COVER INCLUDED.					_	
PARKING GARAGE SANITARY DRAIN PIPING	ALL	MINERAL FIBER, ASJ, SSL	2"	MOLDED, PRE-FORMED MINERAL	FIBER WITH PVC	JACKET TYPE1	L-1A	A VANITY WATER	WITH DROP IN LAVATORY: WOOD CRAFTERS GLACIER BAY 24X18 CABINET & WHITE TOP. PROVIDE WITH SENSE RATED, MOEN WS84503 SINGLE LEVER FAUCET WITH POP-UP DRAIN, RATED 1.2 GPM AT 60 PSI.	1-1/2"	1-1/2"	1/2"	1/2"	1.2 GPM	
NOTES: 1. FIBERGLASS INSULATION: THERMAL CON 2. REFER TO SPECIFICATIONS FOR ADDITI	NDUCTIVITY .	22 TO .28BTU X IN./H X FT X F W	/ 100 F MEAN T	'EMP. THICKNESS BASED ON ASHRAB	E 90.1, 1999 6.2.4	.5.	T-1A	BATHTU W/DELT ASSOC	B/SHOWER: 30"X60" BOOTZ ALOHA PORCELAIN ENAMEL BATHTUB, L OR R DRAIN AS REQUIRED, A TUB & SHOWER FAUCET W/ PRESSURE BALANCING MIXING VALVE. PROVIDE TUB POP-UP DRAIN, AND ATED SURROUND AND TRIM.	2"	2"	1/2"	1/2"	1.75 GPM	
							S-1A	SINGLE BOWL SINK: ELKAY D12522, STAINLESS STEEL, TOP MOUNT SINGLE BOWL, 25" X 122" × 6-9/16" DEEP BOWL 3 HOLE. PROVIDE WITH EZ-FLO FAUCET WITH PULL-OUT SPAY 1.8 GPM AT 60 PSI.		L, 2"	2"	1/2"	1/2"	1.75 GPM	
		CLEA	NOUT S	CHEDULE			SA	WATER MANUFA	HAMMER ARRESTOR, PRECISION PLUMBING PRODUCTS (PPP.) SC SERIES, 1/2"-1", LOCATIONS AND SIZES PER CTURER RECOMMENDATIONS AND REQUIREMENTS			-			
MARK					TRAP SIZE	REMARKS									
FLOOR CLEANOUT (ALL SCORIATED HEAVY DUTY CLAMP, BRONZE PLUG. F	INTERIOR AF NICKEL BRC ROVIDE WIT	REAS EXCEPT EXTERIOR). WAT DNZE SECURED TOP WITH FRAM H VANDAL PROOF SCREWS. PR	TS CO-200-RX- E, CAST IRON BC OVIDE NICKEL BF	C-6, ADJUSTABLE ROUND DDY, FLASHING FLANGE AND RONZE FRAME IN WET AREAS.	AS NOTED ON DWG.	==	NOTES: 1. LAVATORY SUP 2. CAST BODY "P"	Y SUPPLY SHALL BE E	RASS W/ BRASS ANGLE STOPS FOR 1/2' WATER SUPPLY LINES, W/ LOOSE KEY (W/CAP), AND WALL FLANGE. ALL COMPONENTS SHALL BE F ' WITH HEAVY CAST J-BEND & FLAT CLEANOUT PLUG, SLIP NUTS AND WALL FLANGE. ALL COMPONENTS SHALL BE POLISHED CHROME FINISI	POLISHED CHROME FIN H. MANUFACTURER: BR	ISH. MANUFACTUR	RER: BRASS CRA PPROVED EQUA	AFT OR APPRO	VED EQUAL.	
YCO FLOOR CLEANOUT (EXTE DUTY SCORIATED DUCTIL 18'SQUARE X 6' DEEP CC	ERIOR AREA E IRON TOP INCRETE API	S). WATTS CO-300-MF-6 WITH (?, CLEANOUT FERRULE BODY WI RON IN NON-PAVED AREAS. PRO	CO-380 ROUND F TH BRONZE PLU OVIDE WITH VAND	FLANGED HOUSING WITH HEAVY G. INSTALL CLEANOUTS WITH DAL PROOF SCREWS.	AS NOTED ON DWG.	TED 3. STRAINERS SHALL BE FURNISHED WITH FIXTURES AS REQUIRED. FOR H/C LAVATORY OR SINKS PROVIDE OFFSET TAILPIECE. A. PROVIDE TRUEBRO MODEL 103 (WHITE), ANTIMICROBAL HANDI LAV-GUARDS INSTALLATION KIT FOR ALL WHEELCHAIR LAVATORY & SINKS FOR WATER SUPPLIES & WASTE LINE. G. THE PLUMBING EVENTORS CHALL SCORPORATE WITH THE PLUMBING AND CENTRAL CONTRACTOR ALL PLUMBING EVENTORS FOR WATER SUPPLIES & WASTE LINE.					3. STRAINERS SHALL BE FURNISHED WITH FIXTURES AS REQUIRED, FOR H/C LAVATORY OR SINKS PROVIDE OFFSET TAILPIECE. 4. PROVIDE TRUEBRO MODEL 103 (WHITE), ANTIMICROBAL HANDI LAV-GUARDS INSTALLATION KIT FOR ALL WHEELCHAIR LAVATORY & SINKS FOR WATER SUPPLIES & WASTE LINE. 6. THE PLUMBING EXTURES VENDOR SHALL COORDINATE WITH THE PLUMBING AND GENERAL CONTRACTOR ALL PLUMBING EXTURES POURH IN DIMENSIONS BEFORE CONSTRUCTION BEGINS.				
WCO WALL PLATE CLEANOUT BRASS PLUG AND STAINL	COVER. WA LESS STEEL	ATTS CO-590-RD, PROVIDE AT C . COVER SECURED WITH VANDA	CAST IRON CLEA L PROOF SCREV	ANOUTS WITH COUNTERSUNK WS.	==	==	 7. UNLESS SHOWN ABOVE, PLUMBING FIXTURES MANUFACTURER, TRIM COLOR AND FINISH SHALL BE FURNISHED AS DIRECTED BY OWNER/ARCHITECT. 8. REFER TO ARCHITECTURAL DRAWINGS FOR STANDARD, A.D.A MOUNTING AND CHILD HEIGHTS. REFER TO ARCHITECTURAL FOR LOCATION OF A.D.A COMPLIANT SHOWER SEAT AND SHOWER BARS 								
NOTES: 1. TRANSITION COUPLINGS AND NO-HUB PIP 2. PROVIDE ALL POURED IN PLACE CLEAN	'E SHALL NO HOUTS WITH :	DT BE INSTALLED BELOW SLAB 24"X24" FLASHING.	OR IN ANY BURI	ED CONDITIONS IN CONTACT WITH E	ARTH.	1	9. CONTRACTOR 11. ALL SANITARY,	TOR TO PROVIDE AN "ARY, WASTE AND VE	EXTRA 10% OF BATTERIES, AERATORS, CARTRIDGEs, ETC NT PIPING BELOW SLABS ON GRADE SHALL BE 2' MINIMUM.						

ARK		TRAP SIZE	REMARKS
со	FLOOR CLEANOUT (ALL INTERIOR AREAS EXCEPT EXTERIOR). WATTS CO-200-RX-C-6, ADJUSTABLE ROUND SCORIATED HEAVY DUTY NICKEL BRONZE SECURED TOP WITH FRAME, CAST IRON BODY, FLASHING FLANGE AND CLAMP, BRONZE PLUG. PROVIDE WITH VANDAL PROOF SCREWS. PROVIDE NICKEL BRONZE FRAME IN WET AREAS.	AS NOTED ON DWG.	==
со	FLOOR CLEANOUT (EXTERIOR AREAS). WATTS CO-300-MF-6 WITH CO-380 ROUND FLANGED HOUSING WITH HEAVY DUTY SCORIATED DUCTILE IRON TOP, CLEANOUT FERRULE BODY WITH BRONZE PLUG. INSTALL CLEANOUTS WITH 18'SQUARE X 6" DEEP CONCRETE APRON IN NON-PAVED AREAS. PROVIDE WITH VANDAL PROOF SCREWS.	AS NOTED ON DWG.	
00	WALL PLATE CLEANOUT COVER. WATTS CO-590-RD, PROVIDE AT CAST IRON CLEANOUTS WITH COUNTERSUNK BRASS PLUG AND STAINLESS STEEL COVER SECURED WITH VANDAL PROOF SCREWS.	==	==
,			

PIPE HANGER SPACING TABLE				
PIPE MATERIAL	PIPE SIZES (INCHES)	HORIZONTAL PIPE MAX. HANGER DISTANCE (FT)	VERTICAL PIPE MAX. HANGER DISTANCE (FEET)	
COPPER & COPPER ALLOY TUBING	1-1/4" & SMALLER	6'-0"	10'-0"	
COPPER & COPPER ALLOY TUBING	1-1/2" & LARGER	10'-0"	10'-0"	
COPPER & COPPER ALLOY PIPE	ALL	12'-0"	10'-0"	
CAST IRON PIPE	ALL	5'-0" *	15'-0"	
STEEL PIPE	ALL	12'-0"	15' <i>-0</i> "	
STAINLESS STEEL DRAINAGE	ALL	10'-0"	10'-0 **	
CPVC PIPE OR TUBING	1" & SMALLER	3'-0"	10'-0 **	
CPVC PIPE OR TUBING	1-1/4" & LARGER	4'-0"	10'-0 **	
PVC PIPE	ALL	4'-0"	10'-0 **	
NOTES: * MAXIMUM HORIZONTAL SPACING OF CAST IRON PIPE HANGERS SHALL BE INCREASED				

TO 10'-0" WHERE 10'-" LENGTHS OF PIPE ARE USED

* * MIDSTORY GUIDE FOR SIZES 2" AND SMALLER

NOT ALL PIPE MATERIALS ON THIS TABLE WILL PERTAIN TO THIS PROJECT

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Date: Revised By:

4/13/2022

PIPE AND FITTING SCHEDULE

		PIPE		FITT		
	512E	TYPE	SCHEDULE	TYPE	RATING	
SOIL, WASTE AND VENT ABOVE GROUND	ALL	PVC	40	PVC	40	FOAM CELLULAR C ALLOWED
SOIL, WASTE AND VENT BELOW GROUND	ALL	PVC	40	PVC	40	FOAM CELLULAR C ALLOWED
STORM PIPING	ALL	PVC	40	PVC	40	FOAM CELLULAR C ALLOWED
DOMESTIC WATER WITHIN BUILDING	1" & > & ALL VERTICAL MAINS	COPPER	TYPE L	CUS	STD	HARD TEMPERED
DOMESTIC WATER WITHIN BUILDING	< 1"	CPVC/PEX	CPVC/PEX	CPVC/PEX	CPVC/PEX	

NOTES:

 TRANSITION COUPLINGS AND NO-HUB PIPE SHALL NOT BE INSTALLED BELOW SLAB OR IN ANY BURIED CONDITIONS IN CONTACT WITH EARTH.
 ALL PIPING IN RETURN AIR CEILING PLENUM INSTALLATIONS SHALL BE UL-LISTED FOR THIS APPLICATION.
 MECHANICAL JOINTS ARE ALLOWED FOR SERVICE PURPOSED ONLY IN WALLS AND CEILINGS BUT MUST BE READILY ACCESSIBLE. 25/50 PVDF IS UL-LISTED FOR THIS AND CEILINGS BUT MUST BE READILY ACCESSIBLE. INSTALLATIONS.

ABBREVIATIONS	DESCRIPTION	ABBREVIATIONS	DESCRIPTION
CI	CASTIRON	PEX	PEX PIPING
CUS	WROUGHT COPPER SOLDER (95/5)	STD	STANDARD
H£S	HUB AND SPIGOT	SV	SERVICE WEIGHT
NH	NO HUB W/SUPER DUTY HUSKY SD 4000 CLAMP		

VALVE SCHEDULE										
					T	ΡE				
DESCRIPTION		SIZE	GATE	GLOBE	CHECK	BALL	PLUG	BALANCE	CLASS	
DOMESTIC COLD W	ATER & AIR	3" AND SMALLER	==	==	СУТ	вут	==	==	125PSI	
DOMESTIC HOT WAT	TER	3 AND SMALLER	==	==	СУТ	BVT	==	СВУ	125PSI	
NOTES: 1. CALIBRATED PRE	ESSURE RELIEF VAL	_VE: INSTALL A MINIMUM OF 12" A	ABOVE WATER H	EATER AND	PIPE DISCHAR	GE TO ADE	QUATE LOCA	TION. WATTS I	MODEL 5400	С.
ABBREVIATION	DESCRIPTION	DESCRIPTION			ABBREVIATION	DE	ESCRIPTION			
вут	BALL VALVE TH	ALL VALVE THREADED - 2-PIECE, FULL PORT, 400PSI, BRONZE		Έ	CVT	Cł	HECK VALVE -	THREADED - B	BRONZE	
СВУ	CALIBRATED BA	CALIBRATED BALANCING VALVE - BRONZE								

Drawing Title:	Date:
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COR FOAM CORE IS NOT	
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* ALL SYMBOLS MAY NOT BE USED IN THESE DOCUMENTS.

<u>GENERAL</u> WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.

2. IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.

- 3. ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST. 4. WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS.
- PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY
- 5. DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.
- 6. PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS. 7. WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT,
- APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- 8. STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE. 9. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER AND CONTROL
- WIRING REQUIRED FOR EQUIPMENT OPERATION NOT SPECIFICALLY PROVIDED BY OTHERS BUT REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS. COORDINATE REQUIREMENTS WITH DIVISION 26. ALTERATION WORK AND DEMOLITION
- ALL EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES, ETC. TO BE REMOVED, SHALL BE DISPOSED OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES, ETC. SHALL NOT BE REMOVED FROM THE PREMISES WITHOUT THE OWNER'S APPROVAL.
- 2. UPON COMPLETION OF REMOVALS AND MODIFICATIONS, ALL DUCTWORK AND PIPING TO REMAIN SHALL BE PROPERLY VALVED, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL SYSTEMS TO REMAIN, REMAIN OPERATIONAL.
- 3. NO DEAD ENDS SHALL BE LEFT ON ANY DUCTWORK OR PIPING SYSTEM UPON COMPLETION OF WORK. 4. EXISTING DUCTWORK AND PIPING SYSTEMS NOT TO BE REUSED, AND NOT
- SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED. 5. ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE
- OWNER UPON COMPLETION OF ALL NEW WORK. 6. ALL EXISTING UNNECESSARY DUCTWORK AND PIPING NOT RELATED TO NEW WORK SHALL BE COMPLETELY REMOVED.
- 7. RE-ROUTE ALL EXISTING DUCTWORK, PIPING AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.
- 8. WHERE PORTIONS OF EXISTING DUCT SYSTEMS ARE TO REMAIN CONTRACTOR TO TAKE AIRFLOW READINGS AT ALL AIR TERMINALS ASSOCIATED WITH THE DUCT SYSTEM TO BE MODIFIED BEFORE COMMENCEMENT OF WORK AND AFTER ALTERATION WORK IS COMPLETE. AIR BALANCING WORK SHALL BE PERFORMED BY AN INDEPENDENT NEEB CERTIFIED COMPANY, NOT ASSOCIATED WITH THE CONTRACTOR. REPORTS ARE TO BE ISSUED TO THE OWNER AND ENGINEER AT BOTH OCCURRENCES. IF AS-BUILTS ARE AVAILABLE, DISCREPANCIES NOTED BETWEEN THE AS BUILT DRAWINGS AND THE INITIAL AIR FLOW READINGS ARE TO BE NOTED ON THE AIR FLOW REPORT. EXISTING AIR TERMINALS ARE TO BE BALANCED TO THE ORIGINAL READINGS AT COMPLETION OF WORK UNLESS OTHERWISE IDENTIFIED.

SHOP DRAWINGS

- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE REVIEWED BY THE ENGINEER PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED FOR DUCTWORK LAYOUT, PIPING LAYOUT, SHEET METAL SHOP STANDARDS AND ALL EQUIPMENT FURNISHED.
- 2. ELECTRONIC DRAWING FILES SHALL BE GENERATED BY THE CONTRACTOR. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC VERSION (AUTOCAD VERSION AS REQUIRED BY THE OWNER) OR AUTOCAD VERSION 2010 IF NOT SPECIFIED.
- 3. PRIOR TO THE SUBMISSION AND REVIEW OF SHEET METAL SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT FOR REVIEW SHEET METAL SHOP STANDARDS. ANY SHEET METAL SHOP DRAWINGS SUBMITTED PRIOR TO THE SUBMISSION OF THE SHOP STANDARDS SHALL BE RETURNED "NOT REVIEWED".

COORDINATION DRAWINGS

- ELECTRONIC DRAWING FILES SHALL BE GENERATED BY THE CONTRACTOR. IF REQUESTED, ELECTRONIC FILES OF THE MECHANICAL FLOOR PLANS, SECTIONS AND ELEVATIONS ONLY WILL BE MADE AVAILABLE. ELECTRONIC FILES WILL BE RELEASED ONLY UPON RECEIPT OF THE SIGNED AGREEMENT FOR TRANSFER OF ELECTRONIC FILE DATA, AGREEMENT FOR TRANSFER OF BUILDING INFORMATION MODEL AND ALL FEES INDICATED THEREIN.
- 2. DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED. A. SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED
- FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.
- B. AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:

-MECHANICAL SHEET METAL -PLUMBING PIPING -MECHANICAL PIPING -SPRINKLER PIPING -ELECTRICAL WORK

MECHANICAL GENERAL NOTES

2. AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON DRAWING AND NOTED CONFLICTS, ALL TRADES SHAL CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. COORDINATION DRAWINGS. ITEMS NOT SHOWN ON C RESPONSIBILITY OF OMITTING CONTRACTOR AND CON ADDITIONAL COSTS INCURRED BY OTHER TRADES.

- 3. THE ARCHITECT AND ENGINEER ARE NOT PART OF THE PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE ONLY. COORDINATION DRAWINGS ARE NOT TO BE CO SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY TH DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DES CONTRACT DOCUMENTS.
- 4. SUBMIT FINAL SIGNED COORDINATION DRAWING TO EN ENGINEER WILL REVIEW COORDINATION DRAWINGS F ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. S REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUA
- 5. ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINA REMOVED AND RE-INSTALLED IN CONFORMANCE WITH DRAWINGS.
- 6. EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONS COORDINATION OF HIS SUB-CONTRACTORS.
- 7. THE OVERALL COORDINATION OF THE COORDINATION RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER THE COORDINATION PROCESS. THE ENGINEER WILL RE THAT ARISE FROM THE COORDINATION PROCESS. DRA REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY WILL NOT BEAR ADDITIONAL COST.

AS BUILT DRAWINGS PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS RE CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE A OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SH AS THE CONSTRUCTION DOCUMENTS AND INCLUDE D CLEARLY REFLECT THE INSTALLED CONDITION. DRAW COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL

- PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE THE CONTRACTOR SHALL COMPLY WITH THE ENGINEE PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. SUBMITTED IN BOTH HARD COPY AND ELECTRONIC VE AS REQUIRED BY THE OWNER) OR AUTOCAD VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE
- 2. PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT COMPLETE RECORD OF ALL REVISIONS OF THE ORIGIN INDICATE THE FOLLOWING INSTALLED CONDITIONS:
- 3. INCLUDE ALL CHANGES AND AN ACCURATE RECORD APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS. SHOWN AND WORK INSTALLED.
- 4. MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VAL DEVICES LOCATED AND NUMBERED, CONCEALED UNIC ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, COMPENSATORS, TANKS, ETC.). VALVE LOCATION DIA VALVE TAG CHART.
- 5. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), PROMINENT BUILDING LINES.
- 6. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS AND MATERIALS INSTALLED.
- 7. CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND
- 8. SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED [OPERATING INSTRUCTIONS.

9. SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL UNDER THIS CONTRACT. HOUSEKEEPING PADS

- . PROVIDE CONCRETE HOUSEKEEPING PADS FOR FLOOP COORDINATE EXACT LOCATIONS, DIMENSIONS, PIPING BOLT REQUIREMENTS. PROVIDE CONCRETE HOUSEKE FLOOR MOUNTED EQUIPMENT. PADS SHALL BE CONST CONCRETE. PADS SHALL BE 4 INCHES HIGH, AND MINI THE EQUIPMENT IN BOTH DIRECTIONS.
- 2. COORDINATE FLOOR DRAIN LOCATIONS WITH RESPEC HOUSEKEEPING PADS. PLACE DRAINS SUCH THAT EDO EXTENDS NO CLOSER THAN 2 INCHES FROM THE SIDE TO BE COORDINATED WITH PLUMBING CONTRACTOR.
- HANGERS AND SUPPORT
- . SEISMIC RESTRAINT: PROVIDE SEISMIC RESTRAINT ANI MECHANICAL EQUIPMENT AND SYSTEMS IN ACCORD, FEDERAL BUILDING CODE REQUIREMENTS. SUBMIT SH SEALED BY A LICENSED PROFESSIONAL ENGINEER RE THE PROJECT INDICATING ALL NECESSARY COMPONE AND CALCULATIONS FOR A COMPLETE SYSTEM. IT IS HIRED ENGINEER TO ANALYSIS AND DETERMINE ALL LOCATIONS OF ALL REQUIRED VIBRATION, & SEISMIC (RESTRAINTS.
- 2. PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INC STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQL SUPPORTS SHALL BE OF AN APPROVED DESIGN NECE DUCTWORK, PIPING, EQUIPMENT AND TO KEEP IN PROF PREVENT TRANSMISSION OF INJURIOUS THRUSTS ANI WHERE HANGERS, BRACKETS, ETC., ARE SUPPORTED CONSTRUCTION, DO NOT WEAKEN CONCRETE OR PEN ALL HANGERS AND SUPPORTS SHALL BE CAPABLE O AFTER EQUIPMENT AND PIPING IS ERECTED. HANGERS EXPANDING INTO LOOPS, BENDS AND OFFSETS SHAL BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZI PERPENDICULAR TO THE RUN OF PIPING SUPPORTED I ACCOMMODATE DISPLACEMENT DUE TO EXPANSION BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HC REQUIRED. HANGERS IN CONTACT WITH COPPER OR B DIELECTRIC, COMPATIBLE WITH COPPER AND BRASS A FELT SLEEVE.
- 3. PROVIDE ADDITIONAL SUPPORT FOR DUCTWORK PIPING DECK IS NOT CAPABLE OF SUPPORT.
- 4. BEAM CLAMPS HANGERS SUPPORTED FROM STEEL BEAM CLAMPS FOR HANGERS SUPPORTING PIPING 2 I INCHES AND LARGER, I BEAM CLAMPS SHALL BE FORG NOT TO BE USED.
- 5. PROVIDE AND INSTALL EXPANSION COMPENSATION FO PLANS, CALCULATIONS AND EQUIPMENT DATA.

MECHANICAL PHASING NOTES THIS PROJECT CONSISTS OF MULTIPLE PHASES OF CONSTRUCTION OVER A SPECIFIED TIME PERIOD. PROVIDE ALL WORK NECESSARY TO KEEP EXISTING S

- OPERATION. PROVIDE ISOLATION (SHUTOFF) VALVES AT ALL CONNECTION POINTS TO EXISTING SYSTEMS. 2. CONTRACTOR TO COORDINATE WITH CONSTUCTION MANAGER. CONSTRUCTION MANAGER WILL BE DICTATING THE PHASING SCHEDULE OF THIS PROJECT
- WORK SHALL BE PHASED TO ALLOW OWNER TO CONTINUE BUSINESS OPERATIONS DURING THE CONSTRUCTION PERIOD. COORDINATE WORK WITH OWN CONTRACTOR TO ALLOW SUFFICIENT TIME TO RELOCATE OPERATIONS WITHIN THE BUILDING PRIOR TO COMMENCING WORK IN AREAS AFFECTED BY DEM CONSTRUCTION.
- WORK REQUIRING INTERRUPTION OF ESSENTIAL BUILDING SERVICES SHALL BE PERFORMED DURING UNOCCUPIED PERIODS (AFTER BUSINESS HOURS), ESS INCLUDE BUT NOT BE LIMITED TO VENTILATION, WATER AND SEWER SERVICE, POWER, TELECOMMUNICATIONS. HEATING AND AIR CONDITIONING SHALL BE ESSENTIAL WHEN CONDITIONS WILL CAUSE TEMPERATURES IN THE BUILDING TO FALL BELOW 68°F OR EXCEED 78°F. CONTRACTOR TO PROVIDE TEMPORARY HEATING DURING PHASES OF CONSTRUCTION OCCURRING DURING COLDER SEASONS. CONTRACTOR TO PROVIDI
- COMPONENTS AND DEVICES.

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Description:	
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Revision:

THE COORDINATION	1. COORDINATE PHASING OF DEMOLITION WITH C.M./G.C. AND PROPOSED CONSTRUCTION SCHEDULE TO MAINTAIN MECHANICAL SERVICES (HEATING, TEMPERATURE CONTROLS, EXHAUSTS, MAKE UP AIR ETC.) TO OCCUPIED AREAS OF THE BUILDING DURING	DRAWING NUMBER	DRAWING DESCRIPTION
L MEET TO RESOLVE EACH TRADE SHALL SIGN COORDINATION DRAWING IS	CONSTRUCTION. 2. THE EXISTING FACILITY WILL BE OCCUPIED AND IN OPERATION DURING THE PERFORMANCE	M001	SYMBOLS, NOTES & ABBREVIATIONS -
	OF THE WORK. 3. WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING PIPING OR DUCTWORK	M010	LEVEL 1, 2 & 3 DEMOLITION FLOOR PLAN
FOR NOTED CONFLICTS	WHICH MAY CAUSE DISRUPTION TO OCCUPIED FACILITIES, CONFER WITH THE OWNER, AND SCHEDULE A MUTUALLY AGREEABLE PERIOD OF INTERRUPTION.	M011	BASEMENT, ATTIC & ROOF DEMOLITION
HE ENGINEER. PIPING AND ESIGN INTENT OF THE	4. WHERE REPLACEMENT, RELOCATION OR MODIFICATION OF EXISTING EQUIPMENT IS INDICATED, PROVIDE AND MAINTAIN ALL TEMPORARY SERVICES, CONNECTIONS, CONTROLS, AND ANY OTHER MATERIALS AND APPURTENANCES REQUIRED TO MAINTAIN SERVICES TO ADDITION AND APPURTENANCES REQUIRED TO MAINTAIN SERVICES TO	M100	LEVEL 1, 2 & 3 FLOOR PLAN - MECHANIC
NGINEER FOR REVIEW. OR GENERAL	5. NO WORK SHALL BE LEFT INCOMPLETE, NOR ANY HAZARDOUS SITUATION CREATED, WHICH	M101	BASEMENT, ATTIC & ROOF FLOOR PLAN
PECIFIC INSTALLATION AL TRADE SHOP DRAWINGS.	TIME SHALL THE WORK INTERFERE WITH OR CUT OFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S PRIOR WRITTEN PERMISSION.	M200	DETAILS - MECHANICAL
N OFF BY ALL TRADES ATION DRAWINGS SHALL BE H COORDINATION	6. THE OWNER RESERVES THE RIGHT TO OPERATE ALL EXISTING MECHANICAL EQUIPMENT UNTIL THE NEW SYSTEMS COME ON LINE.	M201	DETAILS - MECHANICAL
GIBLE FOR THE	7. IT IS REQUIRED THAT THE WORK INDICATED AND/OR SPECIFIED SHALL BE CARRIED OUT WITH A MINIMUM OF INTERFERENCE TO THE ESTABLISHED OPERATIONS OF THE BUILDING.	M2O2	DETAILS - MECHANICAL
PROCESS IS THE	 REMOVED MATERIALS SHALL BE DISPOSED OF USING LICENSED CARTING SERVICE. HAZARDOUS MATERIALS - SHALL BE DISPOSED OF BY AN EPA APPROVED, LICENSED 	M300	SCHEDULES - MECHANICAL
ESPOND TO QUESTIONS AWINGS SUBMITTED WILL BE	DISPOSAL SERVICE. CONTRACTOR SHALL OBTAIN AND HAVE ON FILE, AFFIDAVIT, AND RECEIPTS STATING HOW AND WHERE THE WASTE WAS DISPOSED OF OR CONVERTED.	M301	SCHEDULES - MECHANICAL
	MATERIALS TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL OBSOLETE PIPING, DUCTWORK, EQUIPMENT, CONTROLS, ETC, INDICATED OR NOT.		
EFLECTING AS INSTALLED LL INSTALLED CONDITIONS ALL BE OF SIMILAR SCALE ETAILS AS NECESSARY TO	 DUCTWORK, EQUIPMENT AND TERMINAL DEVICES HAVE BEEN TAKEN FROM FIELD OBSERVATION AND ARE TO BE USED FOR REFERENCE AND SHALL NOT BE CONSTRUED TO BE ACTUAL FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL SYSTEMS PRIOR TO COMMENCEMENT OF DEMOLITION WORK. 		
INGS SHALL BE BOUND IN A SKETCHES AND LOOSE RETURNED FOR REVISION. ERS COMMENTS TO	12. ALL EQUIPMENT TO BE REMOVED SHALL BE DISPOSED OF PER OR STORED PER DIRECTION OF OWNER, ANY ITEM NOT RETAINED BY OWNER SHALL BE REMOVED FROM SITE AND DISCARDED IN AN APPROVED MANNER.		
. DRAWINGS SHALL BE IRSION (AUTO-CAD VERSION 12010 IF NOT SPECIFIED. OWNER.	13. IT IS THE INTENTION OF THESE SPECIFICATION TO REMOVE ALL MATERIALS ABANDONED BY THE SCOPE OF THIS CONSTRUCTION PROJECT. NO OBSOLETE MATERIALS (I.E. HANGERS, SUPPORTS, INSULATION, DUCTWORK, ETC.) SHALL REMAIN.		
AND ACCURATE MANNER A IAL DESIGN OF THE WORK.	14. DISCONNECT AND REMOVE ALL DUCTWORK AND ASSOCIATED SUPPLY, RETURN OR EXHAUST GRILLES INCLUDING BUT NOT LIMITED TO ALL HANGERS, SUPPORTS, VOLUME DAMPERS AND FLEXIBLE DUCTWORK.		
IN AUTOCAD DRAWING OR BETWEEN THE WORK	15. CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION TO ANY EXPOSED OR UNCAPPED NEW OR EXISTING DUCTWORK TO REMAIN TO MINIMIZE DUST CONTAMINATION IN ANY AND ALL OF THE AIR SYSTEMS. THIS SHALL INCLUDE BUT IS NOT LIMITED TO TEMPORARY FILTERS, CAPS, ENCLOSURES, ETC.		
LVES AND CONTROL ONS LOCATED, AND WITH 1, STRAINERS, EXPANSION			
AGRAMS, COMPLETE WITH	MECHANICAL GENERAL NOTES		
DIMENSIONED FROM	1. COORDINATE ALL HVAC WORK AND EQUIPMENT WITH STRUCTURAL STEEL, FIRE PROTECTION PIPING, PLUMBING PIPING, LIGHT FIXTURES, ELECTRICAL EQUIPMENT AND OWNER'S EQUIPMENT.		
NS, AND ACTUAL EQUIPMENT	2. ALL EXISTING CONDITIONS AS INDICATED ARE APPROXIMATIONS OF EXACT CONDITIONS TO BE VERIFIED IN THE FIELD. CONTRACTOR SHALL VISIT THE SITE TO VERIFY THE CONSTRUCTION CONDITIONS BEFORE SUBMITTING BID.		
MATERIALS INSTALLED. DRAWINGS, MANUALS AND	3. WHENEVER THE DOCUMENTS INDICATE FOR NEW PIPING TO CONNECT TO AN EXISTING PIPING SYSTEM (OTHER THAN A STEAM SYSTEM), CONTRACTOR SHALL INSTALL A TEMPORARY CORRECTON INHIBITOR SYSTEM TO TREAT THE EXISTING PIPING. THE SYSTEM SHALL CONSIST		
EQUIPMENT INSTALLED	OF AN INJECTOR, PIPING MODIFICATIONS AND APPLICABLE CHEMICALS REQUIRED TO TREAT THE EXISTING SYSTEM FOR A MINIMUM OF THREE WEEKS PRIOR TO ANY NEW CONNECTIONS. UPON INSTALLATION OF THE NEW PIPING SYSTEM, THE ENTIRE SYSTEM (NEW & EXISTING) SHALL BE FLUSHED WITH A CHEMICAL CLEANSING AGENT.		
R-MOUNTED EQUIPMENT.	4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING GRILLES, REGISTERS AND DIFFUSERS.		
EDICATIONS, AND ANCHOR EPING PADS UNDER ALL TRUCTED OF 3,000 PSI	5. PROVIDE VOLUME DAMPERS IN EACH BRANCH DUCT SERVING DIFFUSER WHETHER INDICATED OR NOT.		
T TO FOUIDMENT	6. PROVIDE CABLE OPERATED DAMPERS IN BRANCH DUCT SERVING DIFFUSERS IN INACCESSIBLE CEILING LOCATIONS WHETHER INDICATED OR NOT.		
GE OF THE FLOOR GRATE OF THE PAD. FLOOR DRAINS	7. LOCATE ALL DUCT BALANCING DAMPERS ABOVE ACCESSIBLE CEILINGS, OR PROVIDE ACCESS DOORS.		
	8. INSTALL ALL FLOOR MOUNTED HVAC EQUIPMENT, INCLUDING AHU'S, FCU'S, ETC. ON 4" CONCRETE PADS UNLESS OTHERWISE INDICATED.		
D EXPANSION OF ALL ANCE WITH STATE AND OP DRAWINGS SIGNED AND	9. PROVIDE TRAPPED CONDENSATION DRAIN PIPING FROM COOLING COIL DRAIN PAN TO DISCHARGE POINT INDICATED. (REFER TO PLUMBING PLANS FOR FLOOR DRAIN LOCATIONS).		
EGISTERED IN THE STATE OF ENT CUTS, PLAN LOCATIONS THE RESPONSIBILITY OF THE HE QUANTITIES AND	 ALL CONCRETE HOUSEKEEPING PADS FOR HVAC EQUIPMENT ARE BY DIVISION 23. RUN REFRIGERATION PIPING FROM INDOOR FAN COIL UNIT (FCU-#) TO RESPECTIVE OUTDOOR HEAT PUMP (HP-#). ROUTE AND SIZE PIPING PER EQUIPMENT MANUFACTURER'S 		
CLUDING ADDITIONAL	RECOMMENDATIONS. 7. DUCTWORK INDICATED BY SINGLE LINE REPRESENTATION ARE GENERALLY SMALLER BRANCH ZONE DUCTS - COOPDINATE ELEVATIONS AND PROVIDE NECESSARY DESETS		
PMENT. HANGERS AND ESSARY TO SUPPORT PER ALIGNMENT AND VIBRATIONS. IN ALL CASES FROM CONCRETE	 WHEREVER EXISTING SYSTEMS ARE ALTERED OR EXTENDED THE INTEGRITY OF THE SYSTEM IS TO BE MAINTAINED AND FUNCTION FULLY AS BEFORE. COORDINATE SCHEDULE FOR HOOK-UPS TO EXISTING SYSTEMS AND EQUIPMENT REMOVAL OR RELOCATION WITH THE OWNER AND PERFORM THIS WORK AT SUCH TIMES TO ENSURE THAT PERIODS OF SHUTDOWN WILL BE 		
IETRATE WATERPROOFING. F SCREW ADJUSTMENT S SUPPORTING PIPING	ACCEPTABLE TO THE OWNER. 9. VERIFY EXACT LOCATION OF CONNECTION POINTS (NEW TO EXISTING) IN FIELD PRIOR TO		
L BE SECURED TO THE ONTAL ADJUSTMENT 1AY BE MADE TO ALL SUCH HANGERS SHALL DRIZONITAL DIRECTION AS	CONSTRUCTION. 10. TAKE DOWN AND REINSTALL EXISTING CEILINGS IN ALL AREAS WHERE MECHANICAL WORK IS INDICATED AND EXISTING CEILINGS REMAIN. REFER TO ARCHITECTURAL REFLECTED CEILING		
BRASS PIPE SHALL BE LLOY OR PROVIDED WITH	 PLAN DRAWINGS FOR LOCATIONS WHERE EXISTING CLILINGS RELIGING THES DAMAGED DURING WORK. PATCH ALL WALLS, FLOORS, CEILINGS, AND ROOFS TO MATCH EXISTING IN ALL CASES WHERE EXISTING WALLS, FLOORS, CEILINGS, AND ROOFS REMAIN AND HVAC DEMOLITION IS 		
G AND EQUIPMENT WHEN SHALL BE CENTER LOADING	INDICATED. 12. THIS PROJECT CONSISTS OF MULTIPLE PHASES OF CONSTRUCTION OVER A SPECIFIED TIME PERIOD. PROVIDE ALL WORK NECESSARY TO KEEP EXISTING SYSTEMS IN SAFE OPERATION.		
NCHES. FOR PIPING 2-1/2 JED STEEL. "C" CLAMPS ARE	PROVIDE ISOLATION (SHUTOFF) VALVES AT ALL CONNECTION POINTS TO EXISTING SYSTEMS. 13. PROVIDE FIRE DAMPERS, SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS AS		
OR ALL PIPING. SUBMIT	REQUIRED TO MAINTAIN WALL & FLOOR RATINGS AS DEFINED IN ARCHITECTURAL DRAWINGS. 14. PROVIDE PITCH CORRECTION CURBS FOR ALL MECHANICAL EQUIPMENT AS REQUIRED. ROOF MOUNTED EQUIPMENT TO BE INSTALLED PLUMB AND LEVEL ACCORDING TO EQUIPMENT MANUEACTURERS INSTALL ATION INSTRUCTIONS		
	15. PROVIDE STAINLESS STEEL DRIP PANS WITH LEAK DETECTION FOR ALL SUSPENDED EQUIPMENT WITH COOLING COILS.		
	16. ALL NEW MOTORIZED, BACKDRAFT, FIRE AND SMOKE DAMPERS SHALL BE SERVICEABLE. PROVIDE DUCT ACCESS DOORS FOR MAINTENANCE. CONTRACTOR TO COORDINATE WITH		
GYSTEMS IN SAFE	FACILITIES ENGINEER PRIOR TO INSTALLATION. 17. ALL 90° MITERED ELBOW SHALL BE EQUIPPED WITH TURNING VANES.		
F. ER AND GENERAL	18. DUCT SMOKE DETECTORS SHALL BE INSTALLED BY DIVISION 23, PROVIDED BY DIVISION 28 AND WIRED BY DIVISIONS 26 \pounds 28.		
OLITION OR NEW	19. ALL EXHAUST DISCHARGE TERMINATIONS SHALL BE A MINIMUM OF 10'-0" AWAY FROM OUTSIDE AR INTAKES.		
BENTIAL SERVICES SHALL E CONSIDERED TO BE	20. NOT ALL OF THE LOUIT LINE REVIT FAMILIES CONTAIN MANUFACTURER'S SERVICE CLEARANCES. CONTRACTOR TO INSTALL ALL EQUIPMENT TO MAINTAIN MANUFACTURER'S SERVICE CLEARANCES WEATHER INDICATED ON DRAWINGS OR NOT.		
E ALL NECESSARY			

MECHANICAL DEMOLITION NOTES

Date:	Revised By
4/13/2022	

Drawing Title: SYMBOLS, NOTES & ABBREVIATIONS MECHANICAL

Date: 4/13/2022 Scale: AS NOTED -----Drawn By: WJY Project Number: 21.081

MECHANICAL DRAWING LIST
ING DESCRIPTION
OLS, NOTES & ABBREVIATIONS - MECHANICAL
1, 2 & 3 DEMOLITION FLOOR PLAN - MECHANICAL
1ENT, ATTIC & ROOF DEMOLITION FLOOR PLAN - MECHANICAL
1, 2 & 3 FLOOR PLAN - MECHANICAL
1ENT, ATTIC & ROOF FLOOR PLAN - MECHANICAL
-S - MECHANICAL
-S - MECHANICAL
S - MECHANICAL
DULES - MECHANICAL
DULES - MECHANICAL

Drawing	Number
Drawing	Number

M001

Ansonia, CT 06401

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	GENERAL NOTES
1.	REFER TO DRAWING MOO1 FOR ADDITIONAL MECHANICAL NOTES.
2.	PROJECT CONSIST OF MULTIPLE PHASES. REFER TO DRAWING MOO1 FOR MECHANICAL PHASING NOTES.
З.	ALL EXISTING DUCTWORK, AGSOCIATED DUCT RISERS, SUPPORTS, HANGERS, DIFFUSERS, GRILLES, ETC. SHALL BE REMOVED UNLESS OTHERWISAE NOTED.
4.	CONTRACTOR TO PROVIDE ALL PENETRATIONS WITHIN WALLS, FLOORS, CEILINGS, ROOF, ETC AS NECESSARY TO ACCOMMODATE NEW WORK.
	DEMOLITION NOTES
1)	EXISTING DIFFUSER, DAMPER AND ASSOCIATED DUCTWORK SHALL BE REMOVED COMPLETELY BACK TO THE UNIT LOCATED IN THE BASEMENT.
2	EXISTING WINDOW MOUNTED AC UNIT AND CONTROLS TO BE REMOVED COMPLETELY.
3	EXISTING WALL MOUNTED THERMOSTAT TO BE REMOVED COMPLETELY

DEMOLITION LEVELS 1,2&3 FLOOR PLANS - MECHANICAL

Date: 4/13/2022 Scale: 1/4" = 1'-0" Drawn By: YLW Project Number: 21.081 Drawing Number:

Ansonia, CT 06401

Revision:	Description:	
	ISSUED FOR BID	

					GENERAL
				1.	REFER TO DRAWING MOC MECHANICAL NOTES.
				2.	PROJECT CONSIST OF MI DRAWING MOOI FOR MEC NOTES
				З.	ALL EXISTING DUCTWOR RISERS, SUPPORTS, HANG ETC. SHALL BE REMOVED NOTED.
				4.	CONTRACTOR TO PROVIE WITHIN WALLS, FLOORS, NECESSARY TO ACCOMI
					DEMOLITIO
				1)	EXISTING GAS-FIRED FURN DUCTWORK, COMBUSTION ETC. SHALL BE REMOVED INCLUDING THE DIFFUSERS FLOOR ABOVE
				2	CUT & CAP EXISTING COM CHIMNEY.
				3	TYPICAL DUCT RISER TO B
	1				
			Г		

SCALE: 1/4" = 1-0"

Date:	Revised By:	Drawing Title:	Date:
4/13/2022		DEMOLITION PASEMENT	4/13/2022
		DEMOLITION DASEMENT,	Scale:
		ATTIC & ROOF PLANS	1/4" = 1'-0"
		ATTIC & ROOT TLANS -	Drawn By:
		MECHANICAI	~
			Project Number: 21.081

RAL NOTES

NG MOO1 FOR ADDITIONAL TES. T OF MULTIPLE PHASES. REFER TO FOR MECHANICAL PHASING

CTWORK, ASSOCIATED DUCT RTS, HANGERS, DIFFUSERS, GRILLES, REMOVED UNLESS OTHERWISAE

D PROVIDE ALL PENETRATIONS FLOORS, CEILINGS, ROOF, ETC AS ACCOMMODATE NEW WORK.

ITION NOTES

ED FURNACE AND ASSOCIATED BUSTION AIR DUCT, CONTROLS, EMOVED COMPLETELY UP TO AND

NG COMBUSTION AIR DUCT AT

BER TO BE REMOVED.

Drawing Number:

M011

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LEVEL 1,2&3 FLOOR PLANS - MECHANICAL	4/13/2022 Scale: 1/4" = 1'-0" Drawn By:
	Author
	Project Number

ERAL NOTES
VING MOO1 FOR ADDITIONAL DTES.
ION OF CONSTRUCTION, O HIRE A CERTIFIED TESTING & B) CONTRACTOR TO BALANCE ALL IPMENT (EF-#) AND ASSOCIATED TO 1) INDICATED ON DRAWINGS. O ALSO REFER TO SPECIFICATION 23 "TESTING, ADJUSTING, AND R HVAC" FOR ADDITIONAL
TION OF CONSTRUCTION, O HIRE A CERTIFIED TESTING & B) CONTRACTOR TO BALANCE ALL IPMENT (FCU-#) AND ASSOCIATED ILLES TO AIR FLOWS (CFM) DRAWINGS. CONTRACTOR TO ALSO IFICATION SECTION 230593 BTING, AND BALANCING FOR HVAC" _ REQUIREMENTS.
WORK & PIPING SHALL BE D LABELED. REFER TO SCHEDULES N CHART. LABELS SHALL BE SETON HESIVE DUCT MARKERS. LABELS NTED EVERY 20 FEET AND ON BOTH PENETRATIONS.
O PROVIDE ALL PENETRATIONS FLOORS, CEILINGS, ROOF, ETC AS ACCOMMODATE NEW WORK.
6HALL PROVIDE ALL CONTROL 25, SENSORS, PANELS, 3, LOW VOLTAGE WIRING, E CONTROLLERS AND NECESSARY TO ACHIEVE THE OPERATION IN SPECIFICATION 23 - "SEQUENCE OF OPERATION FOR 5".
TION PIPING FROM INDOOR FAN #) TO RESPECTIVE OUTDOOR HEAT DUTE AND SIZE PIPING PER NUFACTURER'S 10NS.
BING DRAWINGS FOR IPING. O MAINTAIN EQUIPMENT 2'S PEOLIIPED SERVICE
I HOOD NOTES
ISTALL A UL LISTED UNDER THE IN RANGE EXHAUST FAN DUCTED R
ALL CONNECT TO THE TOP OF THE I THE VERTICAL ORIENTATION AND THRU THE CABINET. EXHAUST DUCT ON HORIZONTALLY AFTER THE TOP UTE EXHAUST PARALLEL TO THE ATE TIGHT TO THE CEILING, VORK WITHIN A SOFFIT. EXHAUST RMINATE THRU THE EXTERIOR WALL NUM WALL CAP.
ALL CONDITIONS AND CUT / T AS REQUIRED TO ACCOMODATE
ITECTURAL AND ELECTRICAL ADDITIONAL REQUIREMENTS.
NICAL NOTES
WALL TERMINATION HOOD,
HECK WALL TERMINATION HOOD, TH BACKDRAFT DAMPER AND REEN.
ERMOSTAT SHALL BE LABELED W/ AC EQUIPMENT (FCU-#) PRIOR TO
ND DUCT UP TO ROOF CAP. ID DUCT UP TO ROOF CAP.
L MOUNTED RETURN GRILLE IS DIRECTLY UNDER THE SUPPLY ON PLAN. REFER TO DRAWINGS FOR WALL ACCESS
D FIELD FABRICATE UNIT STAND Y PLENUM. STAND SHALL BE DF 1-1/4"X1-1/4"X1/8" ANGLE IRON AND GH TO ACCOMMODATE RETURN AIR SUPPLY PLENUM LOCATED ON SHALL BE FULL LENGTH AND NIT BY APPROXIMATELY 30" HIGH ATE DUCTWORK CONNECTIONS TO ALL MOUNTED SUPPLY GRILLES. D VERIFY PLENUM HEIGHT .D PRIOR TO FABRICATION. REFER DRAWING M202.
PING DOWN. NG M101 FOR CONTINUATION OF
T COVER FOR REFRIGERANT PIPING RIOR WALL OF THE BUILDING. PING PENETRATES THE EXTERIOR ATELY 6" A.F.F. ON THE FIRST S DOWN THE EXTERIOR OF THE I LOCATED AT GRADE.
Drawing Number:
22 O"
Iber:

SILVER | PETRUCELLI + ASSOCIATES $\frac{\text{Revision:}}{}$ Architects | Engineers | Interior Designers

3190 Whitney Avenue | Hamden, CT 06518 One Post Hill Place | New London CT 06320 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucelli.com

Description: ISSUED FOR BID

				GENER
				1. REFER TO DRAWIN MECHANICAL NOTE
				2. ALL NEW DUCTWO INSULATED AND LA FOR INSULATION C CODE SELF-ADHES SHALL BE LOCATE SIDES OF WALL PE
				3. CONTRACTOR TO P WITHIN WALLS, FLO NECESSARY TO AC
				4. RUN REFRIGERATIC COIL UNIT (FCU-#) T PUMP (HP-#). ROUT EQUIPMENT MANUF RECOMMENDATION
				5. REFER TO PLUMBIN CONDENSATE PIPIN
		B		MECHAN
	<u>GRSR-8</u>	GRSR-8	B	(1) PROVIDE KEYSTONE DEHUMIDIFIER WITH KSTAD957PA, 115V, 0 MOISTURE FROM TH CONTROLS WITH LE AUTO-RESTART WIT SAVER, SETTINGS (N DEFROST), FULL BUO SHUT-OFF AND REM FILTER ALERT. CONT CONDENSATE TO E CONTRACTOR TO C
GRSR-8			GRSR-8	 PROVIDE 30x12 GRE ESD-435 WITH BIRD FABRICATE OUTSIDE 32"Lx14"H AND EXTENTO DETAIL DRAWING
				 PROVIDE 30X12 GRE MODEL ESD-435 WI TO FIELD FABRICATE SHALL BE 32"Lx14"Hx DRAWINGS.
				(4) REFRIGERANT PIPINO ABOVE.
				5 REFER TO DRAWING PIPING TO EXTERIOR
				NEW 4" EXHAUST DU TO CEILING MOUNTE
				(7) NEW 7" EXHAUST DL TO KITCHEN HOOD.
				(8) PROVIDE GREEENHE WITH BACKDRAFT D AND ROOF CURB.

ROOF MECHANICAL DUCT PLAN SCALE: 1/4" = 1-0"

Revised By:

Date:

4/13/2022

Drawing Title:

BASEMENT, ATTIC & ROOF PLANS - MECHANICAL

Date: 4/13/2022 Scale: 1/4" = 1'-0" Drawn By: Author Project Number: 21.081

RAL NOTES
IG MOO1 FOR ADDITIONAL ES.
DRK & PIPING SHALL BE ABELED. REFER TO SCHEDULES CHART. LABELS SHALL BE SETON SIVE DUCT MARKERS. LABELS ED EVERY 20 FEET AND ON BOTH ENETRATIONS.
PROVIDE ALL PENETRATIONS OORS, CEILINGS, ROOF, ETC AS CCOMMODATE NEW WORK.
DN PIPING FROM INDOOR FAN TO RESPECTIVE OUTDOOR HEAT TE AND SIZE PIPING PER IFACTURER'S NS.
NG DRAWINGS FOR NG.
IICAL NOTES
E ENERGY STAR 95-PINT BUILT IN PUMP (D-1), MODEL 680W, 11.8 AMPS, 95 PINTS OF HE AIR PER DAY, ELECTRONIC ED DISPLAY AND 24 HOUR TIMER, TH POWER OUTAGE SETTING NORMAL, TURBO & AUTO- CKET ALERT WITH AUTOMATIC 10VABLE FILTER. WITH CLEAN TRACTOR SHALL PIPE EXTERIOR OF BUILDING. COORDINATE LOCATIONS OF UNIT E DISCHARGE WITH OWNER.
DSCREEN. CONTRACTOR TO FIELD E AIR PLENUM. PLENUM SHALL BE ND 20" INTO THE BUILDING. REFER GS
<i></i>
EENHECK EXHAUST LOUVER, 1TH BIRDSCREEN. CONTRACTOR E EXHAUST AIR PLENUM. PLENUM x12"D. REFER TO DETAIL
EENHECK EXHAUST LOUVER, 1TH BIRDSCREEN. CONTRACTOR E EXHAUST AIR PLENUM. PLENUM X12"D. REFER TO DETAIL G UP TO UNITS ON FLOORS
EENHECK EXHAUST LOUVER, ATH BIRDSCREEN. CONTRACTOR E EXHAUST AIR PLENUM. PLENUM A12"D. REFER TO DETAIL G UP TO UNITS ON FLOORS G M100 FOR CONTINUATION OF R OF BUILDING.
EENHECK EXHAUST LOUVER, ATH BIRDSCREEN. CONTRACTOR E EXHAUST AIR PLENUM. PLENUM A2"D. REFER TO DETAIL G UP TO UNITS ON FLOORS B M100 FOR CONTINUATION OF R OF BUILDING. UCT UP TO ROOF CAP AND DOWN ED EXHAUST FAN.

HECK ROOF CAP MODEL GRSR-8 DAMPER, BUILT-IN BIRDSCREEN

Drawing Number:

M101

ED M20	0
Drawing Number:	
IU HANGER	
5	
ROD	
DETAIL	
UTIOM MOUNTING HOLES). IS'' FOR CABLE CONNECTION DETAIL.	
ANGLES WELDED TO BOTTOM	
TO CONCRETE DECK	
ECONNECTION BEE NOTE 8)	
ANGLE IRON (SEE NOTE 7) C RESTRAINT	
CABLE (TYP) (SEE NOTE 6)	
SEISMIC RESTRAINT	
ANGLE IRON (SEE NOTE 5)	
CONCRETE INSERT (SEE NOTE 4)	

HANGER SCHEDULE					
PIPE SIZE	ROD SIZE	MAX. SPACING			
UP TO 1 1/4"	3/8" DIA.	8' STEEL			
UP TO 1 1/4"	3/8" DIA.	6' COPPER & BRASS			
11/2" & 2"	3/8" DIA.	10'			
2 1/2" & 3"	1/2" DIA.	10'			
4" \$ 5"	5/8" DIA.	10'			
6"	3/4" DIA.	10'			
8", 10", 12"	7/8" DIA.	10'			
14" & 16"	1" DIA.	10'			
18"	1 1/8" DIA.	10'			
20" & 24"	11/4" DIA.	10'			

Date: Revised By:	Drawing Title:	Date:
4/13/2022		4/13/202
	DETAILS	Scale:
	MECHANICAI	AS NOT
		Drawn By:
		YLW
		Project Num
		21.081

PR LISTING) RE CAULK SEALANT E CAULK	
EEVE (GAGE AS	
R PLATE. APES ERVALS WEEN	
TACHMENTS THAN ROD	

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Date: Revised By:	Drawing Title:	Date:
4/13/2022		4/13/202
		Scale:
	MECHANICAL	AS NOT
		Drawn By:
		YLW
		Project Num
		21.081

- FASTEN AND SEAL DUCT PER SMACNA ACOUSTICALLY LINED AND INSULATED DUCT TAP TO WALL MOUNTED SUPPLY GRILLE

LS ANICAL	Date: 4/13/2022 Scale: AS NOTED Drawn By: WJY Project Number: 21.081	Drawing Number:
 THERMISTOR CABLE INSULATED REFRIGERANT LINES SIZED PER MANUFACTURER RECOMMENDATIONS POWER & HIGH VOLTAGE CONTROL TO INDOOR UNIT 		
CONTROL CONNECTION		
OR CHANNEL ANGLE ANCHOR SIDE VIEW NOTES: 1. SIZING OF CHANNELS, ANGLES, ANCHORS, ETC SHA	FRONT VIEW	4
ANGLE		

								MITS	SUBISHI EL		ANE HVA	C US: CITY	MULTI VRF	INDOOR	UNIT SCHEI	DULE									
System Tag	Room Name	Tag Reference	M-NET Address	Model	Туре	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	Cooling Diversity Full/Partial (See Note 5, 6)	Cooling Total Capacity (BTU/h)	Corrected Capacit Cooling Sensible Capacity (BTU/h)	y Heating Diversity Full/Partial (See Note 5, 6)	Heating Capacity (BTU/h)	Estimated Cooling Coil LAT (°F) / [LWT]	Estimated Heating Coil LAT (°F) / [LWT]	Refrig Pipe Dim Liquid/Suction (inch)	Fan Speed Setting	Peak Fan Airflow (cfm) / [Design gpm G(US)/min]	Max Fan ESP Setting 208V/230V (IN WG)	Sound Pressure Per Fan Speed 208V/230V (dBA)	Voltage / Phase	Electrical MCA/MFS	Condensate Removal Rate (gal/hr)	Remarks
East A	Level 1 East A Bedroom 1 & 2	FCU-1-1A	13	TPVFYP018AM141A	Muli-Position Air Handler	18,000.00	20,000.00	80.0/67.0	70	PARTIAL DEMAND	18,024.00	13,713.40	FULL DEMAND	9,937.20	57.9	85.7	1/4 / 1/2	НСН	585	0.3/0.5/0.8	28-32-36	208/230V/1-phase	3.00/3.00/15	0.5	See Below
East A	Level 2 East A Bedroom 1 & 2	FCU-2-1A	14	TPVFYP018AM141A	Muli-Position Air Handler	18,000.00	20,000.00	80.0/67.0	70	PARTIAL DEMAND	18,024.00	13,713.40	FULL DEMAND	9,937.20	57.9	85.7	1/4 / 1/2	HIGH	585	0.3/0.5/0.8	28-32-36	208/230V/1-phase	3.00/3.00/15	0.5	See Below
East A	Level 3 East A Bedroom 1 & 2	FCU-3-1A	15	TPVFYP018AM141A	Muli-Position Air Handler	18,000.00	20,000.00	80.0/67.0	70	PARTIAL DEMAND	18,024.00	13,713.40	FULL DEMAND	9,937.20	57.9	85.7	1/4 / 1/2	НСН	585	0.3/0.5/0.8	28-32-36	208/230V/1-phase	3.00/3.00/15	0.5	See Below
East B	Level 1 East B Bedroom 3 & Front Room	FCU-1-1B	16	TPVFYP018AM141A	Muli-Position Air Handler	18,000.00	20,000.00	80.0/67.0	70	PARTIAL DEMAND	18,024.00	13,713.40	FULL DEMAND	9,937.20	57.9	85.7	1/4 / 1/2	НСН	585	0.3/0.5/0.8	28-32-36	208/230V/1-phase	3.00/3.00/15	0.5	See Below
East B	Level 2 East B Bedroom 3 & Front Room	FCU-2-1B	17	TPVFYP018AM141A	Muli-Position Air Handler	18,000.00	20,000.00	80.0/67.0	70	PARTIAL DEMAND	18,024.00	13,713.40	FULL DEMAND	9,937.20	57.9	85.7	1/4 / 1/2	НСН	585	0.3/0.5/0.8	28-32-36	208/230V/1-phase	3.00/3.00/15	0.5	See Below
East B	Level 3 East B Bedroom 3 & Front Room	FCU-3-1B	18	TPVFYPO18AM141A	Muli-Position Air Handler	18,000.00	20,000.00	80.0/67.0	70	PARTIAL DEMAND	18,024.00	13,713.40	FULL DEMAND	9,937.20	57.9	85.7	1/4 / 1/2	HIGH	585	0.3/0.5/0.8	28-32-36	208/230V/1-phase	3.00/3.00/15	0.5	See Below
West A	Level 1 West A Bedroom 1 & 2	FCU-1-2A	19	TPVFYP018AM141A	Muli-Position Air Handler	18,000.00	20,000.00	80.0/67.0	70	PARTIAL DEMAND	18,024.00	13,713.40	FULL DEMAND	9,937.20	57.9	85.7	1/4 / 1/2	НСН	585	0.3/0.5/0.8	28-32-36	208/230V/1-phase	3.00/3.00/15	0.5	See Below
West A	Level 2 West A Bedroom 1 & 2	FCU-2-2A	20	TPVFYP018AM141A	Muli-Position Air Handler	18,000.00	20,000.00	80.0/67.0	70	PARTIAL DEMAND	18,024.00	13,713.40	FULL DEMAND	9,937.20	57. <u>9</u>	85.7	1/4 / 1/2	HIGH	585	0.3/0.5/0.8	28-32-36	208/230V/1-phase	3.00/3.00/15	0.5	See Below
West A	Level 3 West A Bedroom 1 & 2	FCU-3-2A	21	TPVFYP018AM141A	Muli-Position Air Handler	18,000.00	20,000.00	80.0/67.0	70	PARTIAL DEMAND	18,024.00	13,713.40	FULL DEMAND	9,937.20	57.9	85.7	1/4 / 1/2	HIGH	585	0.3/0.5/0.8	28-32-36	208/230V/1-phase	3.00/3.00/15	0.5	See Below
West B	Level 1 West B Bedroom 3 & Front Room	FCU-1-2B	22	TPVFYP018AM141A	Muli-Position Air Handler	18,000.00	20,000.00	80.0/67.0	70	PARTIAL DEMAND	18,024.00	13,713.40	FULL DEMAND	9,937.20	57.9	85.7	1/4 / 1/2	НСН	585	0.3/0.5/0.8	28-32-36	208/230V/1-phase	3.00/3.00/15	0.5	See Below
West B	Level 2 West B Bedroom 3 & Front Room	FCU-2-2B	23	TPVFYP018AM141A	Muli-Position Air Handler	18,000.00	20,000.00	80.0/67.0	70	PARTIAL DEMAND	18,024.00	13,713.40	FULL DEMAND	9,937.20	57.9	85.7	1/4 / 1/2	НСН	585	0.3/0.5/0.8	28-32-36	208/230V/1-phase	3.00/3.00/15	0.5	See Below
West B	Level 3 West B Bedroom 3 & Front Room	FCU-3-2B	24	TPVFYP018AM141A	Muli-Position Air Handler	18,000.00	20,000.00	80.0/67.0	70	PARTIAL DEMAND	18,024.00	13,713.40	FULL DEMAND	9,937.20	57.9	85.7	1/4 / 1/2	HIGH	585	0.3/0.5/0.8	28-32-36	208/230V/1-phase	3.00/3.00/15	0.5	See Below
East Kitchen	Level 1 East Kitchen	FCU-1-1C	1	TPFFYPOO8RE14OA	Floor-Standing Type (Concealed)	8,000.00	9,000.00	80.0/67.0	70	PARTIAL DEMAND	8,010.70	5,790.90	FULL DEMAND	7,627.80	56.2	100.7	1/4 / 1/2	HIGH	230		36-41/34-41	208/230V/1-phase	0.32/0.34/15	0.27	See Below
East Kitchen	Level 2 East Kitchen	FCU-2-1C	2	TPFFYPOO8RE14OA	Floor-Standing Type (Concealed)	8,000.00	9,000.00	80.0/67.0	70	PARTIAL DEMAND	8,010.70	5,790.90	FULL DEMAND	7,627.80	56.2	100.7	1/4 / 1/2	HIGH	230		36-41/34-41	208/230V/1-phase	0.32/0.34/15	0.27	See Below
East Kitchen	Level 3 East Kitchen	FCU-3-1C	З	TPFFYPOO8RE14OA	Floor-Standing Type (Concealed)	8,000.00	9,000.00	80.0/67.0	70	PARTIAL DEMAND	8,010.70	5,790.90	FULL DEMAND	7,627.80	56.2	100.7	1/4 / 1/2	HIGH	230		36-41/34-41	208/230V/1-phase	0.32/0.34/15	0.27	See Below
West Kitchen	Level 1 West Kitchen	FCU-1-2C	4	TPFFYPOO8RE14OA	Floor-Standing Type (Concealed)	8,000.00	9,000.00	80.0/67.0	70	PARTIAL DEMAND	8,010.70	5,790.90	FULL DEMAND	7,627.80	56.2	100.7	1/4 / 1/2	HIGH	230		36-41/34-41	208/230V/1-phase	0.32/0.34/15	0.27	See Below
West Kitchen	Level 2 West Kitchen	FCU-2-2C	5	TPFFYPOO8RE14OA	Floor-Standing Type (Concealed)	8,000.00	9,000.00	80.0/67.0	70	PARTIAL DEMAND	8,010.70	5,790.90	FULL DEMAND	7,627.80	56.2	100.7	1/4 / 1/2	HIGH	230		36-41/34-41	208/230V/1-phase	0.32/0.34/15	0.27	See Below
West Kitchen	Level 3 West Kitchen	FCU-3-2C	6	TPFFYPOO8RE14OA	Floor-Standing Type (Concealed)	8,000.00	9,000.00	80.0/67.0	70	PARTIAL DEMAND	8,010.70	5,790.90	FULL DEMAND	7,627.80	56.2	100.7	1/4 / 1/2	НСН	230		36-41/34-41	208/230V/1-phase	0.32/0.34/15	0.27	See Below

REMARKS:

- NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB) NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB)

- 5. IT IS RECOMMENDED TO ALWAYS BASE HEATING CORRECTED CAPACITY ON FULL DEMAND. . UNIT SHALL UTILIZE R-410A REFRIGERANT, R-22 REFRIGERANT IS NOT ACCEPTABLE.
- B. PROVIDE 2 SETS OF SPARE FILTERS FOR EACH UNIT.). REFER TO OUTDOOR UNIT FOR ADDITIONAL INFORMATION.
- D. EQUIPMENT MUST BE PURCHASED FROM A COMMERCIAL SALES OFFICE THAT OFFERS FULL SALES, TECHNICAL SUPPORT AND HAS FULL SERVICE OPERATION WITH A MINIMUM OF (10) SERVICE TRUCKS. THE COMMERCIAL SALES OFFICE SHALL HAVE ACCESS TO ELECTRONIC SALES, SERVICE AND TECHNICAL SOFTWARE FOR COMPLETE SUBMITTAL PACKAGES AND AFTER-MARKET SUPPORT. . REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

	System Tag	Tag
	East A	
	East B	
	West A	
	West B	
	East Kitchen	
	West Kitchen	
R	EMARKS:	
1. 2 3 4 5 6 7. 8 9 10 11. 12	NOMINAL NOMINAL EFFICIENC FOR SYST ADDED FIE THE COMI THE UNIT S HIGH PRE PROVIDE PROVIDE CONTRAC UNIT SHA	COC HEAT TEMS ELD (PRES BHAL SNO FACTOR LL BI

Project Title:	
Ansonia Housing Authority	
Apartment Building Renovations	
1 Holbrook Place	
Ansonia, CT 06401	

3. SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY, AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES. 4. REFER SCHEMATIC PIPING/CONTROL DIAGRAM PROVIDED BY MANUFACTURER FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES. 5. FULL DEMAND CORRECTED CAPACITY INCLUDES DE-RATE ASSOCIATED WITH INDOOR VS. OUTDOOR CONNECTED CAPACITY INDICATED ON OUTDOOR UNIT SCHEDULE FOR ASSOCIATED SYSTEM, PARTIAL CORRECTED CAPACITY ASSUMES SUFFICIENT DIVERSITY EXISTS SUCH

THAT THE CONNECTED CAPACITY DE-RATE DOES NOT APPLY. IT IS THE DESIGNER'S RESPONSIBILITY TO ENSURE "DIAMOND SYSTEM BUILDER" IS SET IN THE APPROPRIATE OUTPUT CAPACITY SETTING (FULL DEMAND/PARTIAL DEMAND) PRIOR TO GENERATING THIS SCHEDULE.

				MITSI	JBISHI ELE	CTRIC TRA	NE HVAC I	US: CITY M	IULTI VRF (DUTDOOR	UNIT SCHE	DULE					
				Nominal Coolina	Nominal Heating	Cooling Efficiency	Heating COP @	Design Cooling	Design Heating	Corrected	Corrected	Preliminary Added		Electrical-Per N	1odule		
Reference	M-NET Address	Model Number	Modules		Canadity (BTI 1/b)	IEER/EER		Outdoor Temp	Outdoor Temp	Cooling Total	Heating Capacity	Field Charge		208/230 or [4	-60V]		Remarks
		Capacity (B1U/h) Capacity (E			[SEER]	47 [[]]	DB (°F)	WB (°F)	Capacity (BTU/h)	(BTU/h)	(See Note 5)	Voltage / Phase	MCA 208/230 or [460V]	RFS	MOCP		
HP-3	63	TUMYPO481AK43NA	P48	48,000.00	54,000.00	0 / 12.2 [19.55]	4.08 [11.5]	91	2.2	48,246.00	29,811.60	7.3	208/230V / 1-phase	29	30	44	See Below
HP-5	66	TUMYPO481AK43NA	P48	48,000.00	54,000.00	0 / 12.2 [19.55]	4.08 [11.5]	91	2.2	48,246.00	29,811.60	7.3	208/230V / 1-phase	29	30	44	See Below
HP-4	69	TUMYPO481AK43NA	P48	48,000.00	54,000.00	0 / 12.2 [19.55]	4.08 [11.5]	91	2.2	48,246.00	29,811.60	7.3	208/230V / 1-phase	29	30	44	See Below
HP-6	72	TUMYPO481AK43NA	P48	48,000.00	54,000.00	0 / 12.2 [19.55]	4.08 [11.5]	91	2.2	48,246.00	29,811.60	7.3	208/230V / 1-phase	29	30	44	See Below
HP-1	51	TUMYPO361AK43NA	P36	36,000.00	42,000.00	0 / 13.8 [20.3]	4.08 [11.6]	91	2.2	36,172.20	22,883.30	5.1	208/230V / 1-phase	29	30	44	See Below
HP-2	54	TUMYPO361AK43NA	P36	36,000.00	42,000.00	0 / 13.8 [20.3]	4.08 [11.6]	91	2.2	36,172.20	22,883.30	5.1	208/230V / 1-phase	29	30	44	See Below

OLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB)

ATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB) ALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS.

IS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING.

CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.

SSORS SHALL UTILIZE R-410A REFRIGERANT. R-22 REFRIGERANT IS NOT ACCEPTABLE.

LL BE EQUIPPED WITH THE FOLLOWING: FRONT SEAT SERVICE VALVES, INTERNAL PRESSURE RELIEF VALVE, LONG LINE CAPABILITY, LOSS OF CHARGE SWITCH, URE SWITCH, CRANKCASE HEATER, SNOW STAND HEAD PRESSURE CONTROL AND EVAPORATOR DEFROST CONTROL.

DW / HAIL GUARDS ON ALL UNITS. CTORY DRAIN PAN HEATER.

R TO FINALIZE REFRIGERANT PIPE SIZES WITH EQUIPMENT MANUFACTURER BASED ON ACTUAL LAYOUT.

BE CAPABLE OF OPERATION AT OUTDOOR AMBIENT TEMPERATURE FROM O'F TO 110°F.

MUST BE PURCHASED FROM A COMMERCIAL SALES OFFICE THAT OFFERS FULL SALES, TECHNICAL SUPPORT AND HAS FULL SERVICE OPERATION WITH A MINIMUM OF (10) SERVICE TRUCKS. THE COMMERCIAL SALES OFFICE SHALL HAVE ACCESS TO ELECTRONIC SALES, SERVICE AND TECHNICAL SOFTWARE FOR COMPLETE SUBMITTAL PACKAGES AND AFTER-MARKET SUPPORT. 13. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

14. PROVIDE CONCRETE CURBS AND QUICK SLING STYLE MOUNTING STANDS FOR UNITS MOUNTED AT GRADE.

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Description: ISSUED FOR BID

Revision:

Date: Revised By: Drawing Title: Date: 4/13/2022 Scale: 4/13/2022 SCHEDULES AS NOTED MECHANICAL WJY Project Number: 21.081

Drawing Number:

				KITC	CHEN		DD W	/ITH E	XHAL	IST	FAN	SCHEDULE	
		SYSTEM		100	FAN	TIP	SOUND	E		_ DAT/	4		
MAKK	LOCATION	SERVED	CFM	ESP	RPM	SPEED	SONES	AMPS	VOLTS	Ø	RPM	MARE/MODEL	
KEF-1-1	LEVEL 1 KITCHEN (EAST)	LEVEL 1 KITCHEN (EAST)	190	0.25	2850	_	6.5	2	115	1	1725	BROAN / F40000	
KEF-1-2	LEVEL 1 KITCHEN (WEST)	LEVEL 1 KITCHEN (WEST)	190	0.25	2850	-	6.5	2	115	1	1725	BROAN / F40000	
KEF-2-1	LEVEL 2 KITCHEN (EAST)	LEVEL 2 KITCHEN (EAST)	190	0.25	2850	-	6.5	2	115	1	1725	BROAN / F40000	
KEF-2-2	LEVEL 2 KITCHEN (WEST)	LEVEL 2 KITCHEN (WEST)	190	0.25	2850	-	6.5	2	115	1	1725	BROAN / F40000	
KEF-3-1	LEVEL 3 KITCHEN (EAST)	LEVEL 3 KITCHEN (EAST)	190	0.25	2850	-	6.5	2	115	1	1725	BROAN / F40000	
KEF-3-2	LEVEL 3 KITCHEN (WEST)	LEVEL 3 KITCHEN (WEST)	190	0.25	2850	-	6.5	2	115	1	1725	BROAN / F40000	
REMARKS:				-									•

ALL FANS SHALL BE BALANCED TO AIRFLOW QUANTITY INDICATED ON PLANS AT INLETS AND OUTLETS. PROVIDE ALUMINUM WALL CAP BY BROAN MODEL 647, 7'Ø ROUND DUCT, 0.25 ALUMINUM, MANUFACTURED WITH AN INTEGAL SPRING-LOADED BACKDRAFT DAMPER AND BIRD SCREEN FOR KITCHEN

HOODS FANS (EXCEPT KEF-3-1 & KEF-3-2). . PROVIDE GREENHECK ROOF CAP TERMINATION MODEL GRSR-8 WITH BACKDRAFT DAMPER, BIRDSCREEN AND ROOF CURB FOR KITCHEN HOOD KEF-3-1 & KEF-3-2. . EXHAUST FAN STANDARD FEATURES: A. 24" WIDTH

B. PERMANENTLY LUBRICATED MOTOR. C. WASHABLE ALUMINUM FILTER.

D. UNDER MOUNTED 75 WATT (MAX) LIGHT. E. TWO SPEED FAN CONTROL SWITCH.

F. COLOR TO BE WHITE.

G. UNIT SHALL HAVE MITERED SIDES AND HEMMED BOTTOM FOR SAFETY AND AESTHETICS. H. UL LISTED. I. ALTERNATE MANUFACTURES: NUTONE, GE, WHIRLPOOL.

	-		_		_		F	AN S	CHE	DULE					_	
MARK		SYSTEM	TYPE	CEM	FGD	MAX	FAN	TIP	SOUND	I	ELECTRICA	L DAT/	4		OPER. WEIGHT	REMARKS
		SERVED				ВНР	RPM	SPEED	SONES	HP	VOLTS	Ø	RPM		(LB)	
EF-B-1	BASEMENT	BASEMENT	INLINE	200	0.50	0.05	933	-	1.4	4 <i>0</i> W	115	1	1725	GREENHECK / CSP-A390-VG	25	SEE BELOW
EF-1-1	LEVEL 1 TOILET RM (EAST)	LEVEL 1 TOILET RM (EAST)	CEILIING MOUNT	75	0.25	-	879	-	0.6	6W	115	1	1725	GREENHECK / SP-80L-VG	16	SEE BELOW
EF-1-2	LEVEL 1 TOILET RM (WEST)	LEVEL 1 TOILET RM (WEST)	CEILIING MOUNT	75	0.25	-	879	-	0.6	6W	115	1	1725	GREENHECK / SP-80L-VG	16	SEE BELOW
EF-2-1	LEVEL 2 TOILET RM (EAST)	LEVEL 2 TOILET RM (EAST)	CEILIING MOUNT	75	0.25	-	879	-	0.6	6W	115	1	1725	GREENHECK / SP-80L-VG	16	SEE BELOW
EF-2-2	LEVEL 2 TOILET RM (WEST)	LEVEL 2 TOILET RM (WEST)	CEILIING MOUNT	75	0.25	-	879	-	0.6	6W	115	1	1725	GREENHECK / SP-80L-VG	16	SEE BELOW
EF-3-1	LEVEL 3 TOILET RM (EAST)	LEVEL 3 TOILET RM (EAST)	CEILIING MOUNT	75	0.25	-	879	-	0.6	6W	115	1	1725	GREENHECK / SP-80L-VG	16	SEE BELOW
EF-3-2	LEVEL 3 TOILET RM (WEST)	LEVEL 3 TOILET RM (WEST)	CEILIING MOUNT	75	0.25	-	879	-	0.6	6W	115	1	1725	GREENHECK / SP-80L-VG	16	SEE BELOW

REMARKS:

ALL FANS SHALL BE BALANCED TO AIRFLOW QUANTITY INDICATED ON PLANS AT INLETS AND OUTLETS.

PROVIDE SPEED CONTROLLERS. . PROVIDE BACKDRAFT DAMPERS. . PROVIDE VIBRATION ISOLATION.

. PROVIDE FACTORY WIRED DISCONNECT SWITCHES.

PROVIDE GRILLE MOUNTED LIGHT ON TOILET ROOM FANS (EF-1-1, EF-1-2, EF-2-1, EF-2-2, EF-3-1 & EF-3-2) PROVIDE GREENHECK TERMINATION HOOD MODEL WC-6 WITH BACKDRAFT DAMPER AND BUILT-IN BIRDSCREEN FOR TOILET ROOM FANS (EXCEPT EF-3-1 & EF-3-2). . PROVIDE GREENHECK ROOF CAP TERMINATION MODEL GRSR-8 WITH BACKDRAFT DAMPER, BUILT-IN BIRDSCREEN AND ROOF CURB FOR TOILET FANS EF-3-1 & EF-3-2. 9. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

					RE(GISTERS, (GRILLES &	DIFFUS	BERS			
SYM	SERVICE	TYPE	MAKE	MODEL	MATERIAL FINISH	NECK SIZE (W"xH")	FACE SIZE (W"xH")	CFM RANGE	BORDER TYPE	NC LEVEL (MAXIMUM)	ACCESSORIES	REMARKS
	SUPPLY	TR	TITUS	300 RS	STEEL	8x8	10x10	0-200	BY ARCH	25	PROVIDE OPPOSED BLADE DAMPER	SEE BELOW
				V	V	12×8	14x10	201-400	V	V	V	V
B	EXHAUST /RETURN	TG	TITUS	350 RL	STEEL	6x6	8x8	0-100	BY ARCH	25	PROVIDE OPPOSED BLADE DAMPER	SEE BELOW
				V	V	10x10	12x12	101-400	l V	V	▼	V
$\langle C \rangle$	SUPPLY	LG	TITUS	CT580	STEEL	22x4	24x6	0-230	BY ARCH	25		SEE BELOW
REM	1ARKS:											

1. PROVIDE ALL NECESSARY ACCESSORIES FOR INSTALLATION INTO ARCHITECTURAL WALL/CABINETRY. REFER TO ARCHITECTURAL DRAWINGS FOR WALL/CABINETRY TYPES.

				ELE	ECT		CABIN	NET L	INIT I	HEAT	ER S	CHED	ULE		
HEATER DATA AIR DATA DIMENSIONS						NS									
MARK	LOCATION	OUTPUT	KW	VOLT	Ø	AMPS	AMPS CFM TEMP. °F HEIGHT		WIDTH	DEPTH	(LBS)	MAKE/ MODEL	REMARKS		
		(MBH)						ENT.	LVG.		(IN)	(IN)	()		
ECUH-1	REFER TO PLAN	3.413	1.0	120	1 8.4 65 50 95 12-1/2 10-3/8 3-3/4 25 QMARK / CWH1101DS SEE BELOW						SEE BELOW				
REMARKS:			•						•		•		•		

PROVIDE RECESSED WALL MOUNTED ELECTRIC CABINET UNIT HEATERS. PROVIDE DEAD FRONT DISCONNECT SWITCH.

. PROVIDE INTEGRAL THERMOSTATS FOR ALL UNITS. . REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

					E	ELEC	FRIC L	JNIT	HEAT	ER S	SCHE	DUL	E
			HEATER		ļ .	NR DATA		F,	AN MOTO				
MARK	LOCATION	OUTPUT	KW	VOLT	Ø	CFM	TEMF	P. °F	HP	RPM	VOLTS	Ø	MAKE/ MODEL
		(MBH)					ENT.	LVG.					
EUH-1	PREP ROOM RM 44A	25.6	7.5	208	з	650	50	95	1 30	1600	208	m	QMARK/MUH-072
REMARKS:													
			TC										

PROVIDE WALL MOUNTED SUPPORTS. . PROVIDE INTEGRAL THERMOSTATS FOR ALL UNITS LOCATED IN THE BASEMENT AND CRAWL SPACES. . REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

Project Title: Ansonia Housing Authority Apartment Building Renovations 1 Holbrook Place Ansonia, CT 06401

REMARKS
SEE BELOW

DUCT MATERIAL SCHEDULE APPLICATION SUPPLY RETURN TYPICAL (UNLESS OTHERWISE SPECIFIED) G90 GALVANIZED STEEL G90 GALVANIZED 1 3003 H-14 ALUMINUM OUTDOOR AIR INTAKE PLENUM OUTDOOR AIR 3003 H-14 ALUMINUM EXPOSED AND CONCEALED EXHAUST DUCTWORK AND PLENUMS SERVING TOILET ROOMS, SHOWER ROOMS, CLOTHES DRYER. ALL DUCTWORK RUNNING THROUGH, OVER OR SERVING SHOWER ROOMS, 3003 H-14 ALUMINUM 3003 H-14 ALUMIN HATCHERIES, AND ALL SPACES WITH OPEN TANKS. EXPOSED DUCTWORK LOCATED IN AND SERVING AIR-CONDITIONED SPACES TO BE FIELD PAINTED OTHER AGO GALVANNEALED AGO GALVANNEA THAN DUCTWORK LOCATED IN SPACES REQUIRED TO BE ALUMINUM. STEEL STEEL EXPOSED DUCTWORK LOCATED IN AND SERVING CONDITIONED SPACES OTHER THAN DUCTWORK G90 GALVANIZED STEEL G90 GALVANIZED LOCATED IN SPACES REQUIRED TO BE ALUMINUM. EXPOSED DUCTWORK LOCATED IN AND SERVING CONDITIONED SPACES OTHER THAN DUCTWORK G90 GALVANIZED STEEL G90 GALVANIZED LOCATED IN SPACES REQUIRED TO BE ALUMINUM OR TO BE FIELD PAINTED.

CONDENSING BOILER AND WATER HEATER FLUES DUCT CONSTRUCTION SHALL MEET SMACNA METAL & FLEXIBLE 2006 3RD EDITION STANDARDS.

DUCT INGULATION SCHEDULE

AL29-4C

SYSTEM	INSULATION TYPE	MINIMUM INSTALLED INSULATION VALUES	NOMINAL DENSITY			
	MINERAL FIBER BLANKET	R-6	3/4 LB/FT3			
CONCEALED SA, RA, OA: OTHER THAN PRE-MANUFACTURED LINEAR SUPPLY AND RETURN GRILLE PLENUMS.	MINERAL FIBER BOARD WITH REFLECTIVE VAPOR BARRIER.	R-6	3 LB/FT3			
INDOOR DUCT/PLENUM EXPOSED SA AND RA: LOCATED IN MECHANICAL ROOMS, OTHER NON-OCCUPIED SPACES, NON-AIR CONDITIONED SPACES, PASSING THROUGH AIR CONDITIONED SPACES.	MINERAL FIBER BOARD WITH REFLECTIVE VAPOR BARRIER.	R-6	3 LB/FT³			
INDOOR DUCT/PLENUM EXPOSED OA: ALL SPACES OTHER THAN ATTICS AND CRAWLSPACES	MINERAL FIBER BOARD WITH REFLECTIVE VAPOR BARRIER.	R-6	3 LB/FT ³			
	MINERAL FIBER BLANKET	R-12	3/4 LB/FT3			
INDOOR DUCT/PLENUM EXPOSED SA, RA, OA, EA: ALL ATTIC SPACES AND CRAWL SPACES	MINERAL FIBER BOARD WITH REFLECTIVE VAPOR BARRIER.	R-12	3 LB/FT3			
INDOOR DUCT/PLENUM EXPOSED SA AND RA: LOCATED WITHIN THE AIR-CONDITIONED SPACE IT SERVES.	NONE; UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATION.					
DUCT LINING DUCTS INSTALLED OUTDOORS, ALL ATTIC SPACES AND CRAWL SPACES SA AND RA. SA AND RA DUCTWORK WHERE INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION, 15 FT DOWNSTREAM OF SUPPLY FANS, RETURN FANS AND 10 FT DOWNSTREAM OF TERMINAL BOXES WHETHER INDICATED OR NOT.	FIBROUS-GLASS DUCT LINER WITH CLEANABLE COMPOSITE COATING ON AIRSTREAM SIDE. METAL NOSING SHALL BE FURNISHED ON ALL LEADING AND LEAVING EDGES. (REFER TO NOTES #2, #4)	R-12	3 LB/FT3			
DUCT LINING DUCTS INSTALLED IN INDOOR SPACES: EXPOSED AND CONCEALED SA OR RA DUCTWORK WHERE INDICATED ON THE DRAWINGS AND IN THE SPECIFICATION, 15 FT DOWNSTREAM OF SUPPLY FANS, RETURN FANS AND 10 FT DOWNSTREAM OF TERMINAL BOXES WHETHER INDICATED OR NOT.	FIBROUS-GLASS DUCT LINER WITH CLEANABLE COMPOSITE COATING ON AIRSTREAM SIDE. METAL NOSING SHALL BE FURNISHED ON ALL LEADING AND LEAVING EDGES. (REFER TO NOTES #2, #4)	R-6	3 LB/FT ³			
EXHAUST AIR SYSTEMS DRYER, LABORATORY FUME HOOD, KILN AND ALL OTHER EXHAUST SYSTEMS WHERE FIRE, SMOKE AND FIRE/SMOKE DAMPERS ARE NOT PERMITTED TO BE INSTALLED WITHIN THE DUCTWORK.	FIRE-RATED BLANKET OR BOARD (REFER TO NOTE #5)	THICKNESS REQUIRED FOR 2-HR FIRE RATING				
	CALCIUM SILICATE	4"				
CONCEALED OR EXPOSED BOILER BREACHING & CONNECTORS.	HIGH-TEMP MINERAL FIBER BLANKET	3"	3 LB/FT3			
	HIGH-TEMP MINERAL FIBER BOARD	3"	3 LB/FT3			

1. FOR OUTDOOR DUCTWORK PROVIDE A PRE-MANUFACTURED SELF ADHERING PRODUCT WITH AN UV RESISTANT, STUCCO EMBOSSED FACING. WATER VAPOR TRANSMISSION OF THE INSTALLED PRODUCT SHALL BE .020 PERMS OR LESS. PRODUCT SHALL BE SUITABLE FOR CONTINUOUS USE IN LOW TEMPERATURES OF -10°F. MANUFACTURERS SHALL BE SIMILAR TO FLEX-CLAD 400, MFM BUILDING PRODUCTS CORP. OR ALUMAGUARD 60, POLYGUARD PRODUCTS, INC.

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2. DUCT LINING SHALL NOT BE INSTALLED WITHIN 10 FT UPSTREAM OR DOWNSTREAM OF A DUCT MOUNTED HUMIDIFIER DISPERSION TUBE OR DISPERSION GRID. 3. INSULATION TYPES INDICATED IN THE SCHEDULE SHALL USED UNLESS OTHERWISE INDICATED ON THE PLANS OR SPECIFICATIONS.

4. CLOSED CELL, FIBER FREE, ANTI-MICROBIAL COATED, LOW VOC CERTIFIED, MOISTURE AND MOLD RESISTANT DUCT LINING SHALL BE PROVIDED IN DUCTW HOSPITAL AND HEALTHCARE FACILITIES AND ROOMS CLASSIFIED AS MOIST OR WET ENVIRONMENTS WHERE THIS SCHEDULE, DRAWINGS AND SPECIFICATIO 5. DUCTWORK SHALL BE FIRE WRAPPED FROM THE APPLIANCE CONNECTION TO THE TERMINATION POINT.

0A = OUTDOOR AIR DUCTWORK SA = SUPPLY AIR DUCTWORK RA = RETURN AIR DUCTWORK

ABBREVIATIONS:

EA = EXHAUST AIR DUCTWORK

	ELECTRIC RADIATION SCHEDULE									
MARK	LOCATION	WATTS	ELECTR AMPS	RICAL VOLTS	Ø	HEIGHT (IN)	WIDTH (IN)	LENGTH (IN)	MAKE/ MODEL	
EFT-1-1	REFER TO PLAN	400	-	120	1	7	5	24	QMARK / 2512W	
EFT-1-2	REFER TO PLAN	400	-	120	1	7	5	24	QMARK / 2512W	
EFT-2-1	REFER TO PLAN	400	-	120	1	7	5	24	QMARK / 2512W	
EFT-2-2	REFER TO PLAN	400	-	120	1	7	5	24	QMARK / 2512W	
EFT-2-3	REFER TO PLAN	1000	-	120	1	7	5	48	QMARK / 2514W	
EFT-3-1	REFER TO PLAN	400	-	120	1	7	5	24	QMARK / 2512W	
EFT-3-2	REFER TO PLAN	400	-	120	1	7	5	24	QMARK / 2512W	

PROVIDE WALL MOUNTED RADIATION WITH FRONT OUTLET AND ASSOCIATED END CAPS. 2. PROVIDE INTEGRAL THERMOSTATS FOR ALL UNITS. 3. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

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REMARKS

SEE BELOW

EFT-3-3

REMARKS:

REFER TO PLAN

SILVER | PETRUCELLI + ASSOCIATES

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Description: ISSUED FOR BID

Revision:

QMARK / 2514W

l	EXHAUST
D STEEL	G90 GALVANIZED STEEL
	1
	1
INUM	3003 H-14 ALUMINUM
ALED	A60 GALVANNEALED STEEL
D STEEL	G90 GALVANIZED STEEL
D STEEL	G90 GALVANIZED STEEL
	AL29-4C

VORK AND EQUIPMENT WITHI
ION INDICATE DUCT LINING.

REMARKS
SEE BELOW

	PIPE/TUBE PIPING AND FITTING SCHEDULE						
SYSTEM	PIPE SZIE	CONSTRUCTION	PIPING	FITTINGS	UNIONS	FLANGES	
COOLING COIL	2" AND SMALLER	SOLDER JOINT CONSTRUCTION WITH THREADED ADAPTERS AS REQUIRED. 95-5 TIN/ANTIMONY SOLDER.	COPPER, TYPE L, HARD DRAWN, ANSI H23.1, ASTM B88.	CAST BRONZE OR WROUGHT COPPER, SOLDER ENDS, ANSI B16.9 OR ANSI B16.22.	BRONZE SOLDER ENDS, GROUND JOINTS, ANSI B16.19 OR ANSI B16.22.	USE UNIONS	
DRAINS	2 1/2" AND LARGER	SOLDER JOINT CONSTRUCTION WITH THREADED ADAPTERS AS REQUIRED. 95-5 TIN/ANTIMONY SOLDER.	COPPER, TYPE L, HARD DRAWN, ANSI H23.1, ASTM B88.	CAST BRONZE OR WROUGHT COPPER, SOLDER ENDS, ANSI B16.9 OR ANSI B16.22.	BRONZE SOLDER ENDS, GROUND JOINTS, ANSI B16.19 OR ANSI B16.22.	USE UNIONS	
MAKE UP	2" AND SMALLER	SOLDER JOINT CONSTRUCTION WITH THREADED ADAPTERS AS REQUIRED. 95-5 TIN/ANTIMONY SOLDER.	COPPER, TYPE L, HARD DRAWN, ANSI H23.1, ASTM B88.	CAST BRONZE OR WROUGHT COPPER, SOLDER ENDS, ANSI B16.9 OR ANSI B16.22.	BRONZE SOLDER ENDS, GROUND JOINTS, ANSI B16.19 OR ANSI B16.22.	USE UNIONS	
WATER	2 1/2" AND LARGER	SOLDER JOINT CONSTRUCTION WITH THREADED ADAPTERS AS REQUIRED. 95-5 TIN/ANTIMONY SOLDER.	COPPER, TYPE L, HARD DRAWN, ANSI H23.1, ASTM B88.	CAST BRONZE OR WROUGHT COPPER, SOLDER ENDS, ANSI B16.9 OR ANSI B16.22.	BRONZE SOLDER ENDS, GROUND JOINTS, ANSI B16.19 OR ANSI B16.22.	USE UNIONS	
REFRIGERANT SUCTION, HOT	2" AND SMALLER	BRAZED JOINT CONSTRUCTION. AWS A5.8 FILLER METAL.	COPPER, ACR TUBING, STRAIGHT LENGTHS, DRAWN H58, ASTM B 280.	WROUGHT COPPER, BRAZED ENDS, ANSI B16.22.	WROUGHT COPPER, BRAZED ENDS, ANSI B16.22.	USE UNIONS	
LIQUID PIPING AND TUBING	2 1/2" AND LARGER	BRAZED JOINT CONSTRUCTION. AWS A5.8 FILLER METAL.	COPPER, ACR TUBING, STRAIGHT LENGTHS, DRAWN H58, ASTM B 280.	WROUGHT COPPER, BRAZED ENDS, ANSI B16.22.	WROUGHT COPPER, BRAZED ENDS, ANSI B16.22.	USE UNIONS	

	PIPE/	TUBE INSULA	ATION SCHEI	DULE		
SYSTEM	LOCATION	PIPE SIZE	CELLULAR GLASS	FLEXIBLE ELASTOMERIC	MINERAL-FIBER TYPE 1	CALCIUM SILICATE
CONDENSATE & EQUIPMENT DRAIN, BELOW	INDOOR	ALL	1-1/2"		1/2"	
60°F	OUTDOOR	ALL	1-1/2"			
REFRIGERANT (ALL) SUCTION, HOT GAS,	INDOOR	ALL	2"	2"	2"	
VAPOR, & LIQUID PIPING	OUTDOOR	ALL	2"	2"		
REFRIGERANT (ALL) SUCTION, HOT GAS,	INDOOR	ALL		1"		
VAPOR, & LIQUID FLEXIBLE TUBING	OUTDOOR	ALL		2"		
REFRIGERANT (ALL) SUCTION, HOT GAS,	INDOOR	ALL		2"		
VAPOR, & LIQUID FLEXIBLE TUBING	OUTDOOR	ALL		2"		
BLANKS (-) INDICATE INSULATION TYPE SHALL	NOT BE USED.					

THICKNESS BASED ON INSULATION HAVING A CONDUCTIVITY (K) NOT EXCEEDING 0.27 BTU PER INCH/HB FT2B °F

1. ALL EXPOSED INDOOR PIPING/TUBING AND FITTINGS WITHIN OCCUPIED SPACES, CORRIDORS, MECHANICAL ROOMS AND OTHER NON-CONCEALED LOCATIONS SHALL BE FITTED WITH PVC FITTING COVERS AND PVC PIPE COVERS FROM THE FLOOR LEVEL TO 12' ABOVE THE FINISHED FLOOR. PVC FITTING AND PIPE COVERS SHALL BE 25/50 FLAME AND SMOKE SPREAD RATED. COVERS AND JACKETING COLOR TO BE SELECTED BY ARCHITECT. PROVIDE TEMPLATE OF JACKET COLORS FOR THE ARCHITECT'S REVIEW. 2. ALL ELBOWS; CONCEALED OR EXPOSED, SHALL BE INSULATED WITH PRE-MOLDED, FACTORY FORMED FIBROUS GLASS WITH 3.5 PCF MINIMUM DENSITY AS MANUFACTURED BY HAMFAB OR APPROVED EQUAL. ALL ELBOWS; CONCEALED OR EXPOSED, SHALL BE COVERED WITH PVC FITTING COVERS. PVC FITTING COVERS SHALL BE 25/50 FLAME AND SMOKE SPREAD RATED. COVER COLOR TO BE SELECTED BY ARCHITECT. PROVIDE TEMPLATE OF JACKET COLORS FOR THE ARCHITECT'S REVIEW.

3. DIAPER AND LOOSE FILL STYLE INSULATION ON PIPE FITTINGS IS NOT ACCEPTABLE. ELBOWS WITHOUT PVC COVERS ARE NOT ACCEPTABLE.

4. INSULATE ALL COILS MOUNTED IN DUCTWORK OR TERMINAL BOXES. INSULATION THICKNESS SHALL BE EQUAL TO THE ASSOCIATED DUCT INSULATION THICKNESS. 5. ALL OUTDOOR PIPING/TUBING SHALL BE FITTED WITH A PRE-MANUFACTURED ALUMINUM JACKET PRODUCT. 0.024" ALUMINUM JACKET LOCK-ON OR SLIP-ON TYPE JACKETING TO BE COVERED WITH ACRYLIC COATING ON THE OUTER SURFACE AND A BAKED EPOXY MOISTURE BARRIER ON THE INNER SURFACE. MANUFACTURER SHALL BE SIMILAR TO CHILDERS PRODUCTS, DIVISION OF ITW; METAL JACKETING SYSTEMS. ALL EXPOSED JOINTS IN THE JACKET PRODUCT SHALL BE INSTALLED IN SUCH A WAY AS TO PREVENT THE INFILTRATION OF MOISTURE AND WATER.

6. ALL BURIED PIPING/TUBING SHALL BE FITTED WITH A PRE-MANUFACTURED ALUMINUM JACKET PRODUCT. 0.024" ALUMINUM JACKET LOCK-ON OR SLIP-ON TYPE JACKETING TO BE COVERED WITH ACRYLIC COATING ON THE OUTER SURFACE AND A BAKED EPOXY MOISTURE BARRIER ON THE INNER SURFACE. MANUFACTURER SHALL BE SIMILAR TO CHILDERS PRODUCTS, DIVISION OF ITW; METAL JACKETING SYSTEMS.

VIBRATION-CONTROL AND SEISMIC-RESTRAINT DEVICE SCHEDULE

EQUIPMENT	BASE	ISOLATOR'	SEISMIC RESTRAINT	DEFLECTION
CONDENSING UNITS (GRADE AND ROOF MOUNTED)	24" HIGH EQUIPMENT RAILS	NP	LAG BOLT TO RAIL. RAIL TO BE ATTACHED TO STRUCTURE.	0.2"
SUSPENDED CABINET UNIT HEATERS		HN	CABLE RESTRAINTS	0.25"
SUSPENDED INLINE FANS		HSN	CABLE RESTRAINTS	1.5"
NDOOR FLOOR MOUNTED AIR HANDLING UNITS	4" HOUSEKEEPING PAD	NP	RESILIENT ISOLATION WASHERS AND MECHANICAL ANCHOR BOLTS	0.2"
NDOOR CEILING MOUNTED AIR HANDLING UNITS		HSN	CABLE RESTRAINTS	1.2"
CEILING MOUNTED FAN COIL UNITS		HSN	CABLE RESTRAINTS	1.2"
ROOF MOUNTED FANS	SRC			
PIPING WITHIN 50FT OF CONNECTION TO ANY PIECE OF EQUIPMENT WITH A MOTOR		HSN		1.2"
DUCTWORK IN MECH. ROOMS OR WITHIN 50FT OF CONNECTED VIBRATION-ISOLATED EQUIPMENT		HN		0.25"
BOILERS			SNUBBERS	
PIPE TO PUMP CONNECTION		FPC-SS		

REMARKS: 1. REFER TO SPECIFICATION SECTION (230548) - "VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT" FOR A DESCRIPTION OF EACH VIBRATION CONTROL DEVICE. 2. (NP) - NEOPRENE PAD, (DNP) - DOUBLE NEOPRENE PAD, (FNC) - FLOOR NEOPRENE RESTRAINED MOUNTS, (FSN) - FLOOR SPRING AND NEOPRENE SPRING ISOLATOR, (FSNTL) - FLOOR SPRING AND NEOPRENE TRAVEL LIMITED RESTAINED SPRING ISOLATOR, (HN) - NEOPRENE HANGER, (HSN) - SPRING AND NEOPRENE HANGER, (RC2) - ROOF CURB, TYPE 2, (BSF) - BASE, STEEL FRAME, (BIB) - BASE, INERTIA BASE, (FPC) - FLEXIBLE PIPE CONNECTIONS, (SRC) - SEISMIC ROOF CURB.

* IN ADDITION TO ANY INTERNAL VIBRATION ISOLATION. " SYSTEM SHALL BE DESIGNED TO BE 90% EFFICIENT.

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GENERAL NOTES

GENERAL

OTHERWISE.

VIRING & RACEWAY:

WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR
SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER
QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS
LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED
AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS
OR NOT.

- ALL WORK AND ACTION DEPICTED AND DESCRIBED SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED
- REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.
- ALL EQUIPMENT SHALL BE LOCATED IN ACCESSIBLE LOCATIONS. WHEN A PIECE OF EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING OR WALL THEN THE APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. THESE SHALL BE COORDINATED WITH THE ARCHITECT.
- ANY COP REQUEST FOR ELECTRICAL WORK AFTER AWARD MUST BE BASED ON NORMAL NECA COMMERCIAL LABOR UNITS & NATIONAL AVERAGE MATERIAL AMP MATERIAL COST PRICES; NATIONAL AVERAGE AMP DATA BASE FOR MATERIAL AND NECA LABOR RATES MUST BE SUBMITTED TO THE ENGINEER OF RECORD AT THE TIME OF AWARD.
- THE DRAWINGS SHOW THE GENERAL LAYOUT AND TYPICAL DETAILS. PROVIDE COMPLETE SYSTEMS. DRAWINGS ARE BASED ON THE SPECIFIED EQUIPMENT. RACEWAY LAYOUTS, BOXES, AND WIRING OF THE SYSTEMS ARE SUBJECT TO APPROVED SHOP DRAWINGS.
- ENSURE THAT ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND PROVIDE SUCH SIZES AND SHAPES OF EQUIPMENT THAT FINAL INSTALLATION SHALL SATISFY THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
- LOCATIONS OF OUTLETS, SWITCHES, APPLIANCES, ETC. AS SHOWN ON ELECTRICAL PLANS ARE APPROXIMATE; COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS AND DETAILS, AND WITH JOB CONDITIONS. INSTALL SWITCHES WITH "OFF" POSITION DOWN. INSTALL RECEPTACLES WITH GROUNDING POLE IN THE UP POSITION FOR VERTICAL MOUNTING AND AT RIGHT FOR HORIZONTAL MOUNTING.
- LOCATE AND INSTALL ELECTRICAL EQUIPMENT, JUNCTION AND PULL BOXES, PANELBOARDS, SWITCHES, CONTROLS, AND OTHER APPARATUS REQUIRING MAINTENANCE, INSPECTION, AND OPERATION SO AS TO BE READILY ACCESSIBLE.

RACEWAY INSTALLATION

- IN ALL ARCHITECTURALLY FINISHED SPACES, CONDUITS AND CABLES SHALL BE RUN CONCEALED IN HUNG OR FURRED CEILINGS, SLABS, MASONRY, AND PARTITIONS UNLESS OTHERWISE INDICATED. SAW CUTTING AND FINISHED PATCHING SHALL BE REQUIRED IN EXISTING SLABS AND MASONRY WALLS. IN UNFINISHED SPACES, RACEWAYS MAY BE RUN EXPOSED.
- UNLESS OTHERWISE INDICATED, EXACT ROUTING OF RACEWAYS SHALL BE DETERMINED BY THE CONTRACTOR TO SUIT PROJECT REQUIREMENTS AND FIELD CONDITIONS.
- PROVIDE SEPARATE RACEWAYS, JUNCTION BOXES, PULL BOXES AND WIREWAYS FOR ALL EMERGENCY SYSTEM WIRING.
- CONTRACTORS SHALL PROVIDE ALL REQUIRED SLEEVES AND SEALS FOR PIPES OR CONDUIT PENETRATING WALLS OR FLOOR SLABS WITH UL LISTED FIRE STOPPING SEALANT WHERE REQUIRED.
- ELECTRICAL CONDUITS AND BOXES TO BE CONCEALED IN WALLS OR ABOVE CEILING WHEREVER POSSIBLE. WHERE SURFACE CONDUIT IS REQUIRED IT MUST MATCH THE WALL COLOR THAT IT IS BEING ATTACHED TO; REFER TO RACEWAY & BOX SPECIFICATION FOR FURTHER DETAILS. VIRING INSTALLATION:
- DO NOT USE WIRE SMALLER THAN NO. 12 AWG FOR ANY POWER OR LIGHTING CIRCUIT. USE LARGER SIZES WHERE INDICATED, AS REQUIRED BY CODES, AND AS FOLLOWS: 30 AMPERE CIRCUITINO 10

JU ALIPERE CIRCUIT, NO. 10	
40 AMPERE CIRCUIT:NO. 8	
50 AMPERE CIRCUIT:NO. 6	
60 AMPERE CIRCUIT:NO. 6	

Д.	MINIMUM HOM HOMERUN CC	1ERUN AND BRA NDUIT FILL FOR	NCH CIRCUIT WIRIN 120 VOLT, 20 AMP	IG SIZES AND MAXIMUM ERE CIRCUITS SHALL BE
	AS FOLLOWS).		
		CIRCUIT	HOME RUN	CONDUIT SIZE
	LENGTH	WIRE SIZE	WIRE SIZE	(8 WIRES/CONDUIT)

0' TO 50'	#12	#12	3/4"
51' TO 100'	#12	#10	3/4"
101' TO 200'	#1 <i>0</i>	#8	1"

GREATER THAN 200' - REQUEST DIRECTION FROM ARCHITECT. NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3

CURRENT CARRYING CONDUCTORS IN CONDUIT.

- DO NOT USE WIRE SMALLER THAN NO. 14 AWG FOR CONTROL CIRCUITS UNLESS OTHERWISE RECOMMENDED BY THE EQUIPMENT OR SYSTEM MANUFACTURER ON WIRING SHOP DRAWINGS, AND SO APPROVED BY THE ARCHITECT.
- WHERE GREATER THAN THREE (3) CURRENT-CARRYING CONDUCTORS ARE INSTALLED IN ANY ONE CONDUIT OR CABLE, CONDUCTORS MUST BE DERATED AND SIZES INCREASED, IF NEEDED, TO ACCOMMODATE CONDUCTOR DERATING AS REQUIRED BY NEC ARTICLE 310.
- CONDUCTORS SHALL BE COMPLETELY INSTALLED AND CONNECTED. PROVIDE ALL TERMINALS, LUGS, AND CONNECTORS TO SUIT THE APPLICATION, AND IN COMPLIANCE WITH EQUIPMENT MANUFACTURERS' RECOMMENDATIONS.
- UNDER NO CIRCUMSTANCES SHALL ANY SWITCH OR CIRCUIT BREAKER BREAK A NEUTRAL CONDUCTOR.
- THE CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE INTENDED AS A GUIDE FOR PROPER CONNECTION OF CIRCUITS AT PANELS. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE FINAL CIRCUITING WORK FULFILLS THE FOLLOWING CONDITIONS:
- A. LOADS ON PANEL BUSSES SHALL BE PHASE-BALANCED AS EVENLY AS POSSIBLE
- ROUNDING INSTALLATION EQUIPMENT GROUNDING
- . INSTALL AN INSULATED GROUND CONDUCTOR, RUN IN THE RACEWAY WITH THE PHASE CONDUCTORS, FOR EACH FEEDER SERVING: PANELBOARDS, LIGHTING DIMMER BOARDS, MOTOR CONTROL CENTERS, MOTORS, EQUIPMENT AND APPLIANCES UNLESS OTHERWISE NOTED.
- INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL CONDUIT RUNS CONTAINING SECTIONS OF FLEXIBLE CONDUIT UNLESS OTHERWISE NOTED.
- INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL BRANCH CIRCUIT RACEWAYS OR CABLES UNLESS OTHERWISE NOTED. RACEWAYS FOR TELECOMMUNICATION SYSTEMS
- PROVIDE EMPTY CONDUIT SYSTEMS FOR TELECOMMUNICATION WORK, REFER TO "T" SERIES DRAWINGS FOR SIZE OF CONDUIT AND BACK BOXES REQUIRED
- PROVIDE MINIMUM INSIDE BENDING RADIUS OF 10 TIMES CONDUIT INSIDE DIAMETER FOR TELECOMMUNICATIONS RACEWAYS.
- WHEN COMPLETED THE CONDUIT SYSTEMS SHALL BE READY FOR THE INSTALLATION OF WIRING AND EQUIPMENT.

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- 2. POWER WIRING FROM THE INDICATED SOURCE TO THE THE WORK OF THIS DIVISION.
- CONTROLS CONTRACTOR.
- MANUFACTURERS' INSTRUCTIONS.
- COORDINATION DRAWINGS
- DRAWINGS.
- WORK:

-PLUMBING PIPING -MECHANICAL PIPING -SPRINKLER PIPING -ELECTRICAL WORK

- OTHER TRADES.
- DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.
- TRADE SHOP DRAWINGS.
- WITH COORDINATION DRAWINGS.
- COORDINATION OF HIS SUB-CONTRACTORS.
- ADDITIONAL COST.

<u>AS BUILT DRAWINGS</u>

- EACH AS REQUESTED BY THE OWNER.
- CONDITIONS:

- WORK INSTALLED.
- EQUIPMENT AND MATERIALS INSTALLED.
- INSTALLED.
- MANUALS AND OPERATING INSTRUCTIONS.
- INSTALLED UNDER THIS CONTRACT.

4. FROM EACH OUTLET PROVIDE AN EMPTY EMT CONDUIT ROUTED INTO THE CEILING CAVITY OR TO THE CLOSEST TELECOMMUNICATIONS CLOSET. PROVIDE A DRAG LINE IN EACH RUN AND TERMINATE IN A BUSHED ELBOW. MECHANICAL EQUIPMENT WIRING:

UNLESS OTHERWISE INDICATED OR SPECIFIED HEREIN, ALL MOTORS, MOTOR STARTERS, MOTOR CONTROLLERS, VARIABLE SPEED/FREQUENCY DRIVES, AND ASSOCIATED CONTROL DEVICES ARE FURNISHED AND INSTALLED UNDER THIS DIVISION. COORDINATE INSTALLATION AND LOCATIONS WITH OTHER DIVISION CONTRACTORS.

STARTER/CONTROLLER/DRIVE UNIT, AND FROM THE STARTER/CONTROLLER/DRIVE UNIT TO THE MOTOR, INCLUDING ANY LOCAL DISCONNECT SWITCHES PROVIDED AND INSTALLED BY THIS DIVISION, AND ALL ASSOCIATED LUGS, TERMINALS, AND CONNECTIONS, IS

3. CONTROL CIRCUIT WIRING IS GENERALLY FURNISHED AND INSTALLED UNDER OTHER DIVISIONS, EXCEPT THAT ANY SUCH WIRING SHOWN ON ELECTRICAL DRAWINGS IS WORK OF THIS DIVISION.

4. PROVIDE 120 VOLT POWER TO ALL TEMPERATURE CONTROL PANELS (TCP'S) SUPPLIED AND INSTALLED BY DIVISION 23. USE EMERGENCY POWER SOURCES WHEN AVAILABLE. COORDINATE ALL POWER REQUIREMENTS AND PANEL LOCATIONS WITH DIVISION 23 TEMPERATURE

5. COOPERATE AND COORDINATE WITH THE OTHER TRADES IN THE INSTALLATION, CONNECTION, AND TESTING OF MECHANICAL EQUIPMENT. PERFORM WORK OF THIS SECTION IN ACCORDANCE WITH EQUIPMENT

1. DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED. A. SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION

B. AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR

-MECHANICAL SHEET METAL

2. AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY

3. THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP

4. SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL

5. ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE

6. EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE

7. THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR

1. PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF

2. PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED

A. INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP

B. DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND

C. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.

D. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL

E. CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS

F. SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS,

G. SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT

DEMOLITION AND REMOVALS

- THE EXISTING FACILITY WILL BE OCCUPIED AND IN OPERATION DURING THE PERFORMANCE OF THE WORK. WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING
- FEEDER OR BRANCH CIRCUIT SUPPLYING OCCUPIED FACILITIES, CONFER WITH THE OWNER, AND SCHEDULE A MUTUALLY AGREEABLE PERIOD OF INTERRUPTION. WHERE REPLACEMENT, RELOCATION OR MODIFICATION OF EXISTING
- EQUIPMENT IS INDICATED, PROVIDE AND MAINTAIN ALL TEMPORARY FEEDERS, CONNECTIONS, CIRCUIT PROTECTION, AND ANY OTHER MATERIALS AND APPURTENANCES REQUIRED TO MAINTAIN SERVICES TO OCCUPIED AREAS.
- NO WORK SHALL BE LEFT INCOMPLETE, NOR ANY HAZARDOUS SITUATION CREATED, WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. AT NO TIME SHALL THE WORK INTERFERE WITH OR CUT OFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S PRIOR WRITTEN PERMISSION.
- THE OWNER RESERVES THE RIGHT TO OPERATE ALL EXISTING ELECTRICAL AND MECHANICAL EQUIPMENT NOT INCLUDED IN THIS WORK, AND TO PERFORM ALL REQUIRED SERVICING AND REPAIRS TO SAME, AT ALL TIMES.
- 6. IT IS REQUIRED THAT THE WORK INDICATED AND/OR SPECIFIED SHALL BE CARRIED OUT WITH A MINIMUM OF INTERFERENCE TO THE ESTABLISHED OPERATIONS OF THE BUILDING. REMOVE, ABANDON, REROUTE, OR RELOCATE ANY CONDUIT, WIRING,
- LIGHTING FIXTURES, OUTLETS, AND OTHER ELECTRICAL ITEMS, WHICH ARE LAID BARE IN THE COURSE OF, OR INTERFERE WITH, THE ALTERATIONS. REMOVE ALL EXPOSED OUTLETS, CONDUIT, AND BRANCH CIRCUIT WORK, WHICH INTERFERE WITH THE ALTERATIONS.
- 8. IT IS THE INTENTION OF THESE SPECIFICATIONS TO PROVIDE FOR THE CONTINUANCE OF ALL ELECTRICAL SERVICES PRESENTLY INSTALLED IN THE UNALTERED AREAS. PROVIDE ALL CONDUIT, WIRING, AND DEVICES NECESSARY TO MAINTAIN SERVICES TO THESE AREAS.
- 9. COMPARE THE PLANS WITH THE EXISTING CONDITIONS TO DETERMINE THE AMOUNT OF WORK AFFECTED. REMOVE ALL UNUSED EXPOSED CIRCUIT WORK, OUTLETS, FIXTURES AND THE LIKE NOT REQUIRED BY THE ALTERATIONS.
- 10. ALL MATERIALS REQUIRED TO BE REMOVED AND NOT REINSTALLED UNDER THIS DIVISION OF THE WORK, UNLESS OTHERWISE INDICATED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM THE SITE.
- WHERE FEEDERS AND BRANCH CIRCUITS OR DEVICES AND EQUIPMENT ARE INDICATED TO BE REMOVED, CONDUCTORS AND CABLES SHALL BE COMPLETELY REMOVED BACK TO THEIR SOURCE. EXPOSED OR ACCESSIBLE CONDUITS SHALL BE REMOVED COMPLETELY; CONDUITS EMBEDDED IN CONCRETE OR MASONRY SHALL BE CUT OFF FLUSH AND THE SURFACE PATCHED SMOOTH AND LEVEL.
- 12. REMOVED MATERIALS SHALL BE DISPOSED OF USING LICENSED CARTING SERVICE.
- 13. HAZARDOUS MATERIALS CONTAINING PCB'S (BALLASTS), AND THE LIKE SHALL BE DISPOSED OF BY AN EPA APPROVED, LICENSED DISPOSAL SERVICE. CONTRACTOR SHALL OBTAIN AND HAVE ON FILE, AFFIDAVIT, AND RECEIPTS STATING HOW AND WHERE THE WASTE WAS DISPOSED OF OR CONVERTED.
- 14. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT IN OR ON WALLS THAT ARE TO BE REMOVED - MAINTAIN CONTINUITY OF ALL EXISTING BRANCH CIRCUITRY TO EXISTING ROOMS NOT BEING RENOVATED. REWIRE ALL EXISTING BRANCH CIRCUITS (THAT ARE TO REMAIN) AS REQUIRED. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR WALLS BEING REMOVED - REFER TO CONSTRUCTION SCHEDULE FOR TIME DELAY.
- 15. CONDUIT IN EXISTING OR NEW CEILINGS THAT IS NOT INTENDED FOR REUSE SHALL BE REMOVED BACK TO THE PANEL FROM WHICH IT ORIGINATES.
- 16. CONDUCTORS THAT ARE NOT DEEMED REUSABLE SHALL BE REMOVED BACK TO THE NEAREST JUNCTION BOX. WHERE THE ENTIRE CIRCUIT IS TO BE REMOVED, THE CONDUCTORS SHALL BE REMOVED BACK TO THE PANELBOARD FROM WHICH THEY ORIGINATE.
- 17. OUTAGES OF EXISTING ELECTRICAL (LIGHTING, POWER, AND SIGNAL) SYSTEMS NECESSITATED BY WORK OF ALL TRADES SHALL BE IN ACCORDANCE WITH FIELD SCHEDULES BY THE GENERAL CONTRACTOR AND OWNER - INCLUDE ALL ELECTRIC WORK OVERTIME AND SUPERVISION TO COMPLY - CONTRACTOR SHALL OBTAIN OWNER'S GENERAL CONTRACTOR'S APPROVAL PRIOR TO DISRUPTING OF EXISTING ELECTRICAL SYSTEM.
- 18. CONTRACTOR TO MAINTAIN CONTINUITY AND ACCESSIBILITY OF ALL EXISTING SYSTEMS AND SYSTEM EQUIPMENT FEEDERS WHICH MAY BE DISRUPTED FOR WORK OF ANY TRADE.
- 19. CONTRACTOR TO MAINTAIN CONTINUITY AND ACCESSIBILITY OF ALL EXISTING ELECTRICAL (POWER, LIGHTING, AND SIGNAL) SYSTEMS, EQUIPMENT FEEDERS AND BRANCH CIRCUITS ON FLOORS OR AREAS THAT ARE NOT AFFECTED BY DEMOLITION OR NEW CONSTRUCTION -REFER TO CONSTRUCTION SCHEDULE FOR ADDITIONAL INFORMATION.
- 20. ANY EXISTING ELECTRICAL WORK WHICH IS PULLED OUT OR CUT AWAY SHALL BE REMOVED FROM THE SITE AS DIRECTED BY THE GENERAL CONTRACTOR AND THE OWNER.
- 21. EXISTING ELECTRICAL EQUIPMENTS WHICH IS NOT TO BE REUSED SHALL BE REMOVED FROM DRYWALL PARTITIONS. ANY OPENING IN EXISTING PARTITIONS LEFT BY REMOVAL OF EXISTING ELECTRICAL EQUIPMENT SHALL BE PATCHED BY THIS CONTRACTOR WITH MATERIALS TO MATCH FXISTING
- 22. FOR PURPOSES OF THE CONTRACT, WHA'T IS NOTED OR SHOWN ON DRAWINGS INDICATES THE SCOPE OF WORK REQUIRED AND QUALITY OF MATERIALS REQUIRED.
- 23. CONTRACTOR TO EXAMINE ALL CONTRACT DOCUMENTS AND PERFORM ALL DEMOLITION BOTH FOR AREAS BEING RENOVATED AND FOR AREAS WHICH MUST BE REWORKED TO PERMIT THE INSTALLATION OF WORK BY THE VARIOUS TRADES.
- 24. CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE EXTENT OF DEMOLITION AND REMOVALS PRIOR TO THE SUBMISSION OF BIDS. NO CONSIDERATION SHALL BE GIVEN FOR FAILURE TO VISIT THE SITE. 25. CONTRACTOR SHALL UTILIZE ALL THE BREAKERS IN THE EXISTING
- PANELS THAT BECOME AVAILABLE WHEN BRANCH CIRCUITS ASSOCIATED WITH THEM ARE DISCONNECTED AND REMOVED DUE TO DEMOLITION OF THE ELECTRICAL WORK.

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2-POLE TOGGLE DISCONNECT SWITCH MOUNTED 66" AFF ADJACENT TO DOOR SERVING NEW MECHANICAL UNITS (FCU-X-XX), COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER

FIXED DOME CAMERA (PER AHA STANDARDS) - WALL MOUNTED - EXTERIOR WITH 2-GANG 2 1/2" DEEP OUTLET BOX, $rac{3}{2}$ " C., CAT 6 PLENUM RATED CABLE, RJ45 PLUG - CAT 6, HUBBELL #ISB1XX PORT (USE INDOOR/OUTDOOR RATED CABLING FOR ALL EXTERIOR CAMERAS) RUN CABLE FROM CAMERA TO HEAD-END EQUIP. IN BASEMENT

120VAC CONNECTION TO ELECTRIC DOOR LOCK (FURNISHED BY DOOR HARDWARE MANUFACTURER, WIRED AND INSTALLED BY E.C., COORDINATE WITH INTERCOM SYSTEM)

120VAC CONNECTION TO GENERATOR BLOCK HEATER (FURNISHED BY GENERATOR MANUFACTURER) 120VAC CONNECTION TO GENERATOR BATTERY CHARGER (FURNISHED BY GENERATOR MANUFACTURER)

FURNACE EMERGENCY OFF SWITCH

CABLE TV OUTLET, WITH COAX CABLE TO HEAD-END UNIT IN BASEMENT, ACTIVATION BY TENANT INTERCOM ENTRY STATION WITH INTERFACE WITH ELECTRIC DOOR LOCK ON FRONT ENTRY DOOR INTERCOM REMOTE STATION (TENANT APT.) WITH INTERFACE WITH FRONT ENTRY DOOR LOCK RELEASE

TELEPHONE OUTLET

WALL MOUNTED TELEPHONE OUTLET (APPROX. 48" AFF)

DOOR BELL PUSH BUTTON 120VAC CONNECTION TO KITCHEN RANGE HOOD (LIGHT & FAN)

CARBON MONOXIDE DETECTOR DOOR BELL CHIME UNIT

FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE ANNUNCIATOR PANEL

HIGH TEMPERATURE HEAT DETECTOR

HEAT DETECTOR

FIRE ALARM STROBE LIGHT - 80"AFF U.O.N.; "SG" INDICATES SECURITY GRADE WIRE GUARD SMOKE DETECTOR (PROVIDE LOW FREQUENCY SOUNDER BASE ONLY IN APARTMENTS) COMBINATION SMOKE/CARBON MONOXIDE DETECTOR WITH LOW FREQUENCY SOUNDER BASE

BRANCH CIRCUIT HOMERUN (VOLTAGE, BRANCH CIRCUIT POLES) FIRE ALARM MANUAL PULL STATION - 48"AFF U.O.N. FIRE ALARM AUDIO/VISU/AL DEVICE - 80"AFF U.O.N.; "SG" INDICATES SECURITY GRADE WIRE GUARD

SPECIFICATION FOR DETAILS

FLOOR MOUNTED SINGLE RECEPTACLE; SEE SPECIFICATION FOR DETAILS FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE, "BT" INDICATES BENCH TOP MOUNTED; SEE

SPECIFICATION FOR DETAILS

SPECIAL OUTLET CONFIGURATION, SEE NEMA # FLOOR MOUNTED DUPLEX RECEPTACLE, "PT" INDICATES POKE THROUGH TYPE RECEPTACLE; SEE

GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE DUPLEX RECEPTACLE WITH TWO INTEGRAL POWERED USB OUTLETS TAMPER RESISTANT DUPLEX RECEPTACLE

RECEPTACLE WITH OUTDOOR RATED "IN-USE" COVER PLATE, PROVIDE FLUSH MOUNTED BOX

QUAD RECEPTACLE MOUNTED 6" ABOVE COUNTER TO BOTTOM OF DEVICE, OR 48" TO CENTER OF OUTLET NOT LOCATED ABOVE A COUNTER UNLESS OTHERWISE SPECIFIED

DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER/COMPUTER SHELF TO BOTTOM OF DEVICE, OR 48" TO CENTER OF OUTLET NOT LOCATED ABOVE A COUNTER UNLESS OTHERWISE SPECIFIED. "HM" DENOTES DEVICE TO BE HORIZONTALLY MOUNTED

SPLIT-WIRED DUPLEX RECEPTACLE (HALF SWITCHED AND HALF CONSTANT "ON"); MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED

SINGLE RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED QUAD RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED

SINGLE POLE SWITCH WITH PILOT LIGHT DUPLEX RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED

4-WAY SWITCH; MOUNT AT 48" AFF DUAL TECHNOLOGY, MOTION SENSOR SWITCH; MOUNT AT 48" AFF

SINGLE POLE SWITCH; MOUNT AT 48" AFF 3-WAY SWITCH; MOUNT AT 48" AFF

DOUBLE FACE EXIT SIGN TWIN HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY FOR 90 MINUTE EMERGENCY LIGHTING

INDICATES DIRECTION OF CHEVRON, PROVIDE UNSWITCHED POWER FROM AREA LIGHTING CIRCUIT

WALL MOUNTED LIGHT FIXTURE WITH EMERGENCY BATTERY UNIT CEILING/WALL/END MOUNTED EXIT SIGN, SHADING INDICATES DIRECTION OF FIXTURE FACE, ARROW

WALL MOUNTED LIGHT FIXTURE; LETTER INDICATES FIXTURE TYPE

RECESSED DOWN LIGHT FIXTURE WITH EMERGENCY BATTERY UNIT

SURFACE MOUNTED LIGHT FIXTURE; LETTER INDICATES FIXTURE TYPE

RECESSED/SURFACE MOUNTED LIGHT FIXTURE WITH EMERGENCY BATTERY UNIT

TYPICAL RECESSED/SURFACE MOUNTED LIGHT FIXTURE; LETTER INDICATES FIXTURE TYPE

FLOOR MOUNTED JUNCTION BOX, ACCORDING TO NEC REQUIREMENTS

CEILING MOUNTED JUNCTION BOX, ACCORDING TO NEC REQUIREMENTS

WALL MOUNTED JUNCTION BOX, ACCORDING TO NEC REQUIREMENTS

MOTOR STARTER, COORDINATE EXACT REQUIREMENTS WITH MOTOR FURNISHED

FUSED DISCONNECT SWITCH

NON-FUSED DISCONNECT SWITCH

PANELBOARD SURFACE MOUNTED

PANELBOARD FLUSH MOUNTED

ELECTRICAL PANEL, 120/208 VOLT

ELECTRICAL PANEL, 480/277 VOLT

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DISTRIBUTION PANEL, 480/277 VOLT OR 120/208 VOLT

ELECTRICAL LEGEND (NOT ALL SYMBOLS ARE USED)

		ABBREVIATIONS
А	AMPERES	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GRADE	
С	CONDUIT	
C/B	CIRCUIT BREAKER	
CFW	COLD FOOD WELL	
CKT	CIRCUIT	
CR	CASH REGISTER	
EC	ELECTRICAL CONTRACTOR	2
ETBR	EXISTING TO BE REMOVED	& RELOCATED
EWC	ELECTRIC WATER COOLER	
EWH	ELECTRIC WATER HEATER	
EX	EXISTING TO REMAIN	
EXP	EXPLOSION-PROOF	
REM	EXISTING TO BE REMOVED	
HFW	HOT FOOD WELL	
HT	HEAT TRACE	
JB	JUNCTION BOX	
M/B	MAIN BREAKER	
MLO	MAIN LUG ONLY	
MTD	MOUNTED	
OHD	OVER HEAD DOOR	
PNL	PANELBOARD	
RELOC	RELOCATED EXISTING DEV	'ICE/FIXTURE
SG	SNEEZE GUARD	
UCR	UNDER COUNTER REFRIGEI	RATOR
U.O.N.	UNLESS OTHERWISE NOTE	Ð

WP

WEATHERPROOF

	ELECTRICAL DRAWING LIST
DRAWING NUMBER	DRAWING DESCRIPTION
E001	ELECTRICAL SYMBOLS, NOTES & ABBREVIATIONS
E002	LIGHT FIXTURE SCHEDULE, DETAILS & FIRE ALARM RISER DIAGRAM - ELEC
E010	DEMOLITION FLOOR PLANS (1ST, 2ND & 3RD) - ELECTRICAL
E <i>O</i> 11	DEMOLITION FLOOR PLANS (BASEMENT, ATTIC & ROOF) - ELECTRICAL
E101	FLOOR PLANS (1ST, 2ND & 3RD) - ELECTRICAL
E102	FLOOR PLANS (BASEMENT, ATTIC & ROOF) - ELECTRICAL
E401	ONE LINE DIAGRAMS - ELECTRICAL
E501	ELECTRICAL PANEL SCHEDULES

Project Number:

Date:

Scale:

NONE

SEC

21.081

Drawn By:

GENERAL NOTES:

PROVIDE UL LISTED FIRE/SMOKE PENETRATION ASSEMBLY IN ACCORDANCE W/ UL1479, ASTM E814 REQUIREMENTS FOR WALL TYPE, RATING, PIPE SIZE INSTALLED.

FIRE STOPPING SHALL HAVE A RATING EQUAL TO OR GREATER THAN THE WALL/FLOOR BEING PENETRATED - SEE SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL/FLOOR RATINGS AND LOCATIONS.

NOTES:

- () REFER TO SPECIFICATION 283111 FOR SYSTEM REQUIREMENTS. (SYSTEM BASED ON NOTIFIER)
- 2 PANEL WILL BE FURNISHED WITH DIALER FOR FIRE SERVICE NOTIFICATION. PROVIDE TWO PHONE LINES FROM D-MARK.
- 3 PROVIDE WIRING AS REQUIRED TO ALLOW FOR SILENCING OF AUDIBLE DEVICES WITH STROBES STILL ACTIVE. ALL STROBES SHALL BE SYNCHRONIZED.
- 4 SEPARATE BUILDING INTO A MINIMUM OF 2 LOGICAL SECTIONS BY USE OF NOTIFIER ISO-X FAULT
- ISOLATOR MODULES. 5 PROVIDE 120V, 20A DEDICATED BRANCH CIRCUIT WITH BREAKER LOCK.
- 6. ALL WIRING TO BE PER SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.
- 7. FURNISH DEVICES WITH ALL NECESSARY MATERIALS AND ACCESSORIES FOR COMPLETE INSTALLATION TO BE FULLY OPERATIONAL.
- 8. CONTRACTOR SHALL COORDINATE LOCATION OF ALL DUCT SMOKE DETECTORS WITH MECHANICAL CONTRACTOR. ALL DEVICES SHALL BE WIRED TO THE FIRE ALARM SYSTEM.
- 9. MOUNT NOTIFICATION DEVICES 80" AFF OR 6" BELOW CEILING, WHICH EVER IS LOWER, MOUNT PULL STATIONS AT 48" AFF. 10. PROVIDE FRAMED BUILDING LAYOUT ADJACENT TO CONTROL PANEL.
- 11. REFER TO POWER PLANS TO CONFIRM DEVICE QUANTITIES. ALL FIRE ALARM WORK SHALL BE INCLUDED IN THE BASE BID.

FIRE ALARM RISER DIAGRAM

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		LIGHTING FIXTURE SCHEDULE							
			LAMP			ELE	ECTRICAL		
DESIGNATION	DESCRIPTION	MANUFACTURER/ MODEL NUMBER	TYPE	COLOR TEMP	NO	DRIVER	VOLTAGE	WATTS	NOTES
А	SURFACE MOUNTED 11" DIAMETER LED LIGHT FIXTURE WITH OPAL ACRYLIC LENS AND SATIN NICKEL FINISH (1600 LUMEN PACKAGE)	SUNPARK ELECTRONICS CORP. #2-0245D-3500K	LED	3500K		ELECTRONIC	120	17	
В	SLIM SURFACE MOUNTED 7" DIAMETER LED LIGHT FIXTURE WITH OPAL LENS AND ALUMINUM FINISH (1000 LUMEN PACKAGE)	LIGHTOLIER LIGHTING #S7R835K10AL	LED	3500K		ELECTRONIC	120	14.4	
С	SURFACE MOUNTED 19" DIAMETER LED LIGHT FIXTURE WITH OPAL ACRYLIC LENS AND SATIN NICKEL FINISH (3280 LUMEN PACKAGE)	SUNPARK ELECTRONICS CORP. #2-0247D-3500K	LED	3500K		ELECTRONIC	120	35	
D	SLIM SURFACE MOUNTED 5' DIAMETER LED LIGHT FIXTURE WITH OPAL LENS AND ALUMINUM FINISH (650 LUMEN PACKAGE)	LIGHTOLIER LIGHTING #S5R835K7AL	LED	3500K		ELECTRONIC	120	14.4	
E1	SINGLE FACE WALL/CEILING MOUNTED LED EXIT SIGN WITH RED LETTERS AND WHITE THERMOPLASTIC HOUSING	EVENLITE TLX-EM-RU-W-SD	LED			ELECTRONIC	120/277	5	16
E2	SINGLE FACE RECESSED MOUNTED LED EXIT SIGN WITH RED LETTERS, WHITE BODY AND POLYCARBONATE COVER	EVENLITE CCDS-EM-R-1-WW-REC-SD	LED			ELECTRONIC	120/277	5	16
E3	WALL/SURFACE MOUNTED TWIN HEAD REMOTE LED EMERGENCY LIGHT FIXTURE WITH BLACK FINISH. (ALL REMOTE HEADS TO BE POWERED BY INVERTER IN BASEMENT)	EVENLITE PRW-LED-2-MV-B-HL-SD	LED			ELECTRONIC	120/277	3 (1.5W EA.)	
E4	20 WATT WALL MOUNTED EMERGENCY MICRO INVERTER TO POWER ALL TYPE 'E3' FIXTURES WITH SELF DIAGNOSTICS	EVENLITE EMS-20-NICAD-V3-S-SD	LED			ELECTRONIC	120/277		6
F	18'L WALL MOUNTED LED VANITY LIGHT FIXTURE W/RIBBED WHITE ACRYLIC LENS AND WHITE HOUSING (1557 LUMEN PACKAGE)	ASL LIGHTING #VAR 17 ND 35K L18	LED	3500K		ELECTRONIC	120	17	
G	4FT. SURFACE/PENDANT MOUNTED LENSED LED STRIP LIGHT FIXTURE WITH SMOOTH WHITE DIFFUSER, WHITE FINISH (4000 LUMEN PACKAGE)	DAY-BRITE LIGHTING #FSS440L840-UNV-DIM	LED	4000K		ELECTRONIC	120	31	
G1	SAME AS TYPE 'G' EXCEPT (3000 LUMEN PACKAGE)	DAY-BRITE LIGHTING #FSS430L840-UNV-DIM	LED	4000K		ELECTRONIC	120	26	
G2	SAME AS TYPE 'G' EXCEPT 2FT. AND (2000 LUMEN PACKAGE)	DAY-BRITE LIGHTING #FSS220L840-UNV-DIM	LED	4000K		ELECTRONIC	120	17	
н	4FT. SURFACE MOUNTED LED STAIRWELL LIGHT FIXTURE WITH SMOOTH WHITE DIFFUSER, WHITE FINISH AND LOW LEVEL OCCUPANCY SENSOR - 20% (4650 LUMEN PACKAGE)	ADVANTAGE ENVIRONMENTAL LIGHTING #LSWV0740SLSWMW4D10	LED	4000K		ELECTRONIC	120	33	3
H1	SAME AS TYPE 'H' EXCEPT 2FT. (2325 LUMEN PACKAGE)	ADVANTAGE ENVIRONMENTAL LIGHTING #LSWV0740SLSWMW2D10	LED	4000K		ELECTRONIC	120	16.5	8
HE	SAME AS TYPE 'H' EXCEPT WITH A 1200 LUMEN EMERGENCY BATTERY	ADVANTAGE ENVIRONMENTAL LIGHTING #LSWV0740SLSWMW412EBLD10	LED	4000K		ELECTRONIC	120	33	8
J	SMALL WALL MOUNTED LED EXTERIOR SCONCE FIXTURE W/OPAL RIBBED POLYCARBONATE LENS & BLACK FINISH (1216 LUMEN PACKAGE)	ASL LIGHTING #CRA 12 ND 40K W7	LED	4000K		ELECTRONIC	120	12	
K	WALL MTD FULL CUT-OFF LED FIXTURE WITH INTEGRAL MOTION/AMBIENT SENSOR, WIDE THROW DISTRIBUTION (TYPE 2) & DARK BRONZE FINISH (1567 LUMEN PACKAGE)	GARDCO LIGHTING #101L-16L-200-NW-G2-2-120-BL-IMRI2-PCB-BZ	LED	4000K		ELECTRONIC	120	12	(1)
KE	SAME AS TYPE 'K' EXCEPT WITH 10 WATT EMERGENCY BATTERY	GARDCO LIGHTING #101L-16L-200-NW-G2-2-EBPC-120-BL-IMRI2-PCB-BZ	LED	4000K		ELECTRONIC	120	12	(1)
L	11" DIA. CEILING/SURFACE MOUNTED LED FIXTURE W/WHITE POLYCARBONATE LENS, BLACK FINISH, PHOTO CELL & LOW LEVEL OCC. SENSOR 10% (3200 LUMEN PACKAGE)	ASL LIGHTING #PLU 20 DVD 40K D11 PC OSCD	LED	4000K		ELECTRONIC	120	31	12
L1	SAME AS TYPE 'L' EXCEPT (1995 LUMEN PACKAGE)	ASL LIGHTING #PLU 15 DVD 40K D11 PC OSCD	LED	4000K		ELECTRONIC	120	15	(12)

LIGHT FIXTURE NOTES

PROVIDE W/ FEATURES AND ACCESSORIES NECESSARY FOR UNIVERSAL MOUNTING AND DIRECTIONAL ARROW KNOCKOUTS. ARROWS ON PLANS INDICATE DIRECTION OF CHEVRONS. SHADING INDICATES QUANTITY AND LOCATION OF FIXTURE FACE.

2. ALL EXTERIOR FIXTURES AND INTERIOR FIXTURES IN UNHEATED SPACES SHALL BE CAPABLE OF OPERATING IN COLD TEMP (O°F).

3. ALL ELECTRONIC DRIVERS SHALL HAVE A MAXIMUM TOTAL HARMONIC DISTORTION BETWEEN TEN - FIFTEEN PERCENT (10-15%).

4. ALL INTERIOR FIXTURES SHALL BE FURNISHED WITH 4000K COLOR LAMPS, AND ALL EXTERIOR LAMPS SHALL BE 4000K.

5. FURNISH ALL ADDITIONAL MATERIALS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION TO BE FULLY OPERATIONAL.

 \bigcirc FURNISH WITH NICKEL CADMIUM BATTERY FOR MINIMUM 90 MINUTE EMERGENCY LIGHTING OPERATION.

(7) FIXTURE SHALL BE MADE UP OF ONE LONG SIGN WITH THE WORDING "EXIT" AND THE HANDICAP LOGO ADJACENT TO IT.

8 STAIRWELL FIXTURE SHALL BE PANEL SWITCHED FOR THE BASE 20% LIGHT OUTPUT, OCCUPANCY SENSOR WHEN ACTIVATED WILL TURN ON THE REMAINING 80% OUTPUT. THIS OUTPUT WILL STAY ON AS LONG AS THE SENSOR IS ACTIVATED.

9. ALL EQUALS MUST BE APPROVED BY THE SR. ELECTRICAL DESIGNER VIA A POINT BY POINT CALCULATION. IES FILES HAVE TO BE PROVIDED FOR EACH ALTERNATE FIXTURE, THERE WILL BE NO EXCEPTIONS GRANTED. ENERGY MODELS HAVE BEEN BASED ON PRODUCT SHOWN. ANY ALTERNATES SUBMITTED MUST NOT CONSUME MORE THEN THE WATTAGE SHOWN ON THE FIXTURE SCHEDULE. THERE WILL BE NO EXCEPTIONS GRANTED. ALTERNATE EQUALS MAY VARY IN APPEARANCE AND AESTHETICS PROVIDED THEY MEET THE PERFORMANCE REQUIREMENTS SHOWN ON FIXTURE SCHEDULE (FINAL APPROVAL BY ELECTRICAL DESIGNER AND ARCHITECT). POINT BY POINT CALCULATIONS NEED TO BE PERFORMED AND APPROVED PRIOR TO PRODUCT SUBMITTAL PACKAGE SUBMISSION.

10. CONTRACTOR TO INCLUDE IN THEIR BASE BID THE FOLLOWING EXTRAS: 2 PIECES - OCCUPANCY SENSORS. 2 PIECES - LIGHT FIXTURES (EACH TYPE). 2 PIECES - WALL SWITCH WITH J-BOX.

2 PIECES - EXIT SIGN (EACH TYPE).

(1) FIXTURE MOUNTED PHOTO CELL WILL CONTROL 50% OF THE FIXTURES LIGHT OUTPUT (1-DRIVER/BOARD) WIRED TO PANEL 'HI', THE INTEGRAL MOTION SENSOR WILL CONTROL THE OTHER 50% OUTPUT (1-DRIVER/BOARD) WIRED TO THE "HOUSE" PANEL BRANCH CIRCUIT SERVING EXTERIOR FIXTURES. NORMAL OPERATION OF FIXTURE: PHOTO CELL WILL TURN LIGHT ON (50%) AT DUSK AND WHEN SOMEONE COMES IN RANGE OF THE MOTION SENSOR THE FIXTURE WILL COME ON TO 100% OUTPUT AND WILL STAY ON UNTIL THERE IS NO MOTION FOR THE PRESET PERIOD OF TIME. THEN IT WILL GO BACK TO 50% OUTPUT UNTIL MOTION IS ACTIVATED AGAIN OR DAWN. IF POWER IS LOST THE LIGHTS WILL COME ON (50% OUTPUT) AUTOMATICALLY AND RUN UNTIL POWER IS RESTORED.

12 THE INTEGRAL PHOTO CELL WILL TURN ON 10% LIGHT OUTPUT FROM THE FIXTURE AT DUSK, WHEN THE MOTION DETECTOR IS ACTIVATED THE REMAINING 90% LIGHT OUTPUT WILL COME AND STAY ON AS LONG AS MOTION IS DETECTED. ONCE THE PRESET TIME EXPIRES FROM NO MOTION BEING DETECTED, THE LIGHTS WILL REDUCE BACK TO 10% UNTIL THEY ARE ACTIVATED BY MOTION AGAIN OR UNTIL DAWN WHEN THEY WILL GO OFF.

Drawing Title:

Date: Revised By: 4/13/2022

LIGHT FIXTURE SCHEDULE, ELECTRICAL DETAILS & FIRE ALARM RISER DIAGRAM

Drawing Number:

AND REMOVE EXISTING SURFACE (AND ALL ASSOCIATED CONDUIT PANEL IN THE BASEMENT.	7	CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING WALL MOUNTED DOOR BELL/CHIME, BACK BOX AND ALL ASSOCIATED CONDUIT AND WIRING COMPLETELY.	13	CONTRACTOR SHALL DISCONNECT AND MOUNTED DISH ANTENNA (CABLE TV), M ASSOCIATED HARDWARE AND CABLING
AND REMOVE EXISTING WALL (AND ALL ASSOCIATED CONDUIT	8	CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING SURFACE MOUNTED ANALOG TELEPHONE OUTLET AND ALL ASSOCIATED		OUTLETS, ETC. COMPLETELY FROM BUIL
PANEL IN THE BASEMENT.		WIRING BACK TO POINT OF ORIGIN.	[14]	CONTRACTOR SHALL DISCONNECT AND SURFACE MOUNTED TENANT MAIN BREA
AND REMOVE EXISTING H, BACK BOX, COVER PLATE AND RING COMPLETELY.	9	CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING SQUARE SURFACE MOUNTED EXTERIOR LIGHT FIXTURE, BACK BOX AND CONDUIT & WIRE SHALL REMAIN (MAKE SAFE) TO BE USED FOR NEW		AND (1) HOUSE MAIN BREAKER/METER EN SECONDARY FEEDER (CONDUIT & WIRE) BASEMENT.
AND REMOVE EXISTING GHT FIXTURE, BACK BOX AND ALL D ASSOCIATED PANEL IN THE	10	CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING COAXIAL CABLE TV WIRING, CONNECTORS, BRACKETS, ETC., BOTH	15	EXISTING INCOMING OVERHEAD UTILITY EXTERIOR WALL MOUNTED 400 AMP MA REMAIN.
AND REMOVE EXISTING BACK BOX, COVER PLATE AND		INSIDE AND OUTSIDE THE BUILDING ALL THE WAY BACK TO THE UTILITY POLE. THERE SHOULD BE NOTHING REMAINING OF THIS SYSTEM AT THE COMPLETION OF THE DEMOLITION PHASE.	16	CONTRACTOR SHALL DISCONNECT AND APARTMENT DOOR BELL PUSH BUTTONS WIRING COMPLETELY.
RING BACK TO ASSOCIATED		CONTRACTOR SHALL DISCONNECT AND REMOVE EXISITNG RECESSED BACK BOX AND COVER PLATE ALONG WITH ALL ASSOCIATED CONDUIT AND WIRE COMPLETELY BACK TO POINT OF		
AND REMOVE EXISTING CEILING ECTOR (STAND ALONE, NON		OKIGIN.		
		CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING SURFACE MOUNTED DRYER OUTLET AND ALL ASSOCIATED WIRING BACK TO PANEL LOCATED IN BASEMENT.		
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Ansonia, CT 06401

ATTIC ELECTRICAL DEMO PLAN $\begin{pmatrix} 2 \\ EO11 \end{pmatrix}$ SCALE: 1/4" = 1'-0"

GENERAL NOTES I. ALL SIX EXISTING APARTMENTS WERE NOT ABLE TO BE FIELD SURVEYED, SO DEVICES INDICATED ARE BASED ON THE APARTMENTS THAT WERE REVIEWED. THERE MAYBE DEVICES SHOWN ON THE PLANS THAT ARE NOT IN SOME APARTMENTS AND OTHERS THAT ARE NOT SHOWN BUT ARE THERE. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING ELECTRICAL SYSTEMS BOTH LINE AND LOW VOLTAGE (LIGHT FIXTURES, SWITCHES, RECEPTACLES, FIRE ALARM DEVICES, DOOR BELL SYSTEM, TELEPHONE OUTLETS, CABLE TV WIRING, ETC.) AND ALL ASSOCIATED WIRING, BACK BOXES, SUPPORTS, ETC. SO AS TO COMPLETELY REMOVE ALL EXISITNG SYSTEMS.

THE EXISTING 400 AMP EXTERIOR BUILDING MAIN BREAKER AND 2. ALL SIX APARTMENT PANELS ARE TO REMAIN. THE SIX APARTMENT PANELS WILL BE RELOCATED TO EACH RESPECTIVE APARTMENT.

ROOF ELECTRICAL DEMO PLAN SCALE: 1/4" = 1'-0"

		i	
1	CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING SURFACE MOUNTED PORCELAIN SOCKET TYPE LIGHT FIXTURE, BACK BOX AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO ASSOCIATED PANEL IN THE BASEMENT.	7	CONTRACTOR SHALL DISCONNECT, REMO EXISTING SURFACE MOUNTED TENANT PA CIRCUIT WIRING AND FEEDER FROM EXTER SHALL BE DISCONNECTED AND REMOVED
2	CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING SURFACE MOUNTED LIGHT SWITCH, BACK BOX, COVER PLATE AND ALL ASSOCIATED CONDUIT AND WIRING COMPLETELY.	8	CONTRACTOR SHALL DISCONNECT AND F MOUNTED "HOUSE" PANEL. ALL EXISTING E AND FEEDER FROM EXTERIOR METER/MAIL DISCONNECTED AND REMOVED COMPLET
3	CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING SURFACE MOUNTED TOGGLE SWITCH TYPE DISCONNECT SERVING GAS FIRED FURNACE, BACK BOX AND ALL ASSOCIATED CONDUIT AND WIRE BACK TO POINT OF ORIGIN.	9	CONTRACTOR SHALL DISCONNECT AND F SURFACE MOUNTED TENANT MAIN BREAK AND (1) HOUSE MAIN BREAKER/METER ENC
4	CONTRACTOR SHALL DISCONNECT AND REMOVE (6) EXISTING		SECONDARY FEEDER (CONDUIT & WIRE) TO BASEMENT.

- 4 SURFACE MOUNTED TOGGLE SWITCHES (EMERGENCY OFF) SERVING GAS FIRED FURNACE, BACK BOXES AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO POINT OF ORIGIN.
- CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING SURFACE [5] MOUNTED DISCONNECT SWITCH AND ALL ASSOCIATED CONDUIT AND WIRING BACK TO POINT OF ORIGIN.
- (6) CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING CEILING MOUNTED FIRE ALARM SMOKE DETECTOR, BASE, BACK BOX AND ALL ASSCIATED WIRING.

Drawing Title:

TED TENANT PAN ER FROM EXTERI AND REMOVED ONNECT AND RE

- ALL EXISTING B OR METER/MAIN OVED COMPLETE
- ONNECT AND RE NT MAIN BREAKE KER/METER ENCL NDUIT & WIRE) TC
- [10] EXISTING INCOMING OVERHEAD UTILITY PR EXTERIOR WALL MOUNTED 400 AMP MAIN REMAIN.
- (1) CONTRACTOR SHALL DISCONNECT AND RE MOUNTED DISH ANTENNA (CABLE TV), MOU ASSOCIATED HARDWARE AND CABLING (BO EXTERIOR) AND ALL MISCELLANIOUS CON OUTLETS, ETC. COMPLETELY FROM BUILDI

DEMOLITION FLOOR PLANS (BASEMENT, ATTIC & ROOF) -ELECTRICAL

DEMOLITION KEY NOTES

Date: Revised By: 4/13/2022

NNECT, REMOVE AND RELOCATE D TENANT PANEL. ALL EXISTING BRANCH RENOM EXTERIOR METER/MAIN BREAKER	
ND REMOVED COMPLETELY. NNECT AND REMOVE EXISTING SURFACE	
R METER/MAIN BREAKER SHALL BE /ED COMPLETELY.	
NNECT AND REMOVE (6) EXISTING " MAIN BREAKER/METER ENCLOSURES R/METER ENCLOSURE AND ASSOCIATED UIT & WIRE) TO PANELS LOCATED IN THE	
AD UTILITY PRIMARY FEEDER AND	
NNECT AND REMOVE EXISTING WALL	
ABLE TV), MOUNTING BRACKET AND ALL ND CABLING (BOTH INTERIOR AND ANIOUS CONNECTORS, FITTINGS, (EROM BUILDING)	
Date: Drawing Number:	
Date: Drawing Number: 4/13/2022 Scale:	
$- \frac{1/4" = 1-0"}{\text{Drawn By:}}$ SEC Drawn By: Drawn By	

SILVER | PETRUCELLI + ASSOCIATES

Architects | Engineers | Interior Designers 3190 Whitney Avenue | Hamden, CT 06518 One Post Hill Place | New London CT 06320 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucelli.com

Description: ISSUED FOR BID Date:

4/13/2022

Revised By:

SILVER | PETRUCELLI + ASSOCIATES ______

Architects | Engineers | Interior Designers 3190 Whitney Avenue | Hamden, CT 06518 One Post Hill Place | New London CT 06320 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucelli.com

ISSUED FOR BID

Description:

	GENERAL NOTES
1.	POWER FOR BUILDING INTERCOM SYSTEM, REFER TO ONE LINE DIAGRAM ON DRAWING E401 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2.	CONTRACTOR SHALL INSTALL NEW CABLE TV HEAD-END EQUIPMENT ON NEW 2'x4' PLYWOOD BACK BOARD PAINTED BLACK WITH FIREPROOF PAINT.
З.	CONTRACTOR SHALL INSTALL A BATTERY INVERTER (EVENLITE #EMS-20-NICAD-V3-S OR APPROVED EQUAL) TO SERVE THE FOUR TYPE 'E3' EMERGENCY LIGHTS.
4.	CONTRACTOR SHALL FURNISH AND INSTALL VIDEO SURVEILANCE HEAD END EQUIPMENT INCLUDING: WALL MOUNTED CABINET FOR MOUNTING OF ALL EQUIPMENT, CAT 6 PATCH PANEL FOR TERMINATION OF ALL CABLES FROM THE CAMERAS, CAT 6 PATCH CORDS, NETWORK POE SWITCH WITH CAPACITY FOR THE NUMBER OF CAMERAS INSTALLED, NETWORK VIDEO RECORDER WITH CAPACITY FOR 30 DAY STORAGE OF VIDEO, VIDEO MANAGEMENT SERVER AND SOFTWARE, MONITOR, WIRELESS KEYBOARD AND MOUSE FOR LOCAL VIEWING OF IMAGES, AND RACK MOUNTED UPS TO BACKUP POWER TO THE SYSTEM. INSTALLATION SHALL INCLUDE REVIEW OF ALL CAMERA IMAGES WITH THE OWNER AND ADJUSTMENTS AS NEEDED, PROGRAMMING OF SERVER FOR COMPLETE OPERATION AND TRAINING OF THE OWNER IN USE OF ALL EQUIPMENT.

Drawing Title: FLOOR PLANS (BASEMENT, ATTIC & ROOF)

Date: 4/13/2022 Scale: 1/4" = 1'-0" Drawn By: SEC Project Number: **21.081**

Date:	Revised By:
4/13/2022	

			CONDUCTOR AND	CONDU		BIZING T	ABLE - 3 PHASE		
NOTE	CIRCUIT BREAKER	CONDUCTOR (THWN/THHN) (3PH, 3W) WITH GROUND	CONDUCTOR (THWN/THHN) (3PH, 4W) WITH GROUND	CONDUIT SIZE	NOTE	CIRCUIT BREAKER	CONDUCTOR (THWN/THHN) (3PH, 3W) WITH GROUND	CONDUCTOR (THWN/THHN) (3PH, 4W) WITH GROUND	CONDUIT SIZE
(1)	20 AMP	3 #12 & 1 #12 GND	4 #12 \$ 1 #12 GND	3/4"	11	225 AMP	3 #4/0 \$ 1 #4 GND	4 #4/0 \$1 #4 GND	2 1/2"
2	25,30 AMP	3 #10 & 1 #10 GND	4 #10 & 1 #10 GND	3/4"	(12)	250 AMP	3 #250KCMIL & 1 #4 GND	4 #250KCMIL & 1 #4 GND	3"
3	35,40,45,50 AMP	3 #8 \$ 1 #10 GND	4 #8 £ 1 #10 GND	1"	(13)	300 AMP	3 #350KCMIL & 1 #4 GND	4 #350KCMIL & 1 #4 GND	3 1/2"
4	60 AMP	3 #6 & 1 #10 GND	4 #6 \$ 1 #10 GND	1"	14	400 AMP	3 #600KCMIL & 1 #3 GND	4 #6 \$ 1 #10 GND	4"
5	70,80 AMP	3 #4 \$1 #8 GND	4 #4 £1 #8 GND	1 1/4"	(15)	500 AMP	(2 SETS) @ 3 #250KCMIL & 1 #2 GND	(2 SETS) @ 4 #250KCMIL & 1 #2 GND	(2) 3"
ୖୖ	<i>90</i> AMP	3 #3 \$1 #8 GND	4 #3 \$ 1 #8 GND	11/2"	(16)	600 AMP	(2 SETS) @ 3 #350KCMIL & 1 #1 GND	(2 SETS) @ 4 #350KCMIL & 1 #1 GND	(2) 3 1/2"
$\langle 7 \rangle$	100 AMP	3 #2 \$ 1 #6 GND	4 #2 £ 1 #6 GND	11/2"	17	800 AMP	(2 SETS) @ 3 #600KCMIL & 1 #1/0 GND	(2 SETS) @ 4 #600KCMIL & 1 #1/0 GND	(2) 4"
8	125 AMP	3 #1 & 1 #6 GND	4 #1 & 1 #6 GND	2"	(18)	1000 AMP	(3 SETS) @ 3 #400KCMIL & 1 #2/0 GND	(3 SETS) @ 4 #400KCMIL & 1 #2/0 GND	(3) 3 1/2"
9	150 AMP	3 #1/0 & 1 #6 GND	4 #1/0 \$ 1 #6 GND	2"	(19)	1200 AMP	(3 SETS) @ 3 #600KCMIL & 1 #3/0 GND	(3 SETS) @ 4 #600KCMIL & 1 #3/0 GND	(3) 4"
(10)	200 AMP	3 #3/0 \$1 #6 GND	4 #3/0 \$1 #6 GND	2 1/2"	20	1600 AMP	(4 SETS) @ 3 #600KCMIL & 1 #4/0 GND	(4 SETS) @ 4 #600KCMIL & 1 #4/0 GND	(4) 4"

CONDUCTOR NOTES:

1. ALL VALUES BASED ON COPPER CONDUCTORS.

<u>FEEDERS</u> UPGRADE WIRE TO MAINTAIN MAXIMUM OF 2% VOLTAGE DROP. 2.

<u>BRANCH CIRCUITS</u> UPGRADE WIRE TO MAINTAIN MAXIMUM OF 3% VOLTAGE DROP.

3. NUMBER OF WIRES SHALL BE DETERMINED WITH EQUIPMENT ELECTRICAL NAMEPLATE CHARACTERISTICS.

4. WHERE NEUTRALS ARE REQUIRED, IT SHALL MATCH FEEDER CONDUCTOR SIZE.

5. USE CONDUCTOR (THWN/THHN) (3PH, 3W) WITH GROUND PRIMARY FEEDER FOR TRANSFORMERS.

Ansonia Housing Authority Apartment Building Renovations 1 Holbrook Place Ansonia, CT 06401

1

E401

POWER - ONE LINE DIAGRAM SCALE: NONE

ROOF

ATTIC

3RD FLR.

2ND FLR.

1ST FLR.

BASEMENT

GRADE

⊢ − − − − − − − −

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Description: ISSUED FOR BID

GENERAL NOTES CONTRACTOR SHALL INSTALL CONDUIT ONLY UNDER BASE BID SCOPE AND ONLY INSTALL FEEDER IF ADD ALATERNATE IS APPROVED. COORDINATE TERMINATION LOCATION OF CONDUIT IN CONCRETE PAD WITH A GENERATOR VENDOR, SO CONDUIT IS IN AREA OF OUTPUT BREAKER.

Date: 4/13/2022 Scale: NONE Drawn By: SEC Project Number: 21.081

Date:
4/13/2022

Revised By:

Branch Pan	el: MDP
Loca	tion: BASEMENT 003

A.I.C. Rating: 10 KA Mains Type: MI O

	Su	pply From: Mounting: Surface Enclosure: Type 1					Phases: Wires:	4				N	Mains Type: MLO lains Rating: 400 A MCB Rating:		
Note	es:														
скт	Circuit Description	Wire & Conduit	Trip	Poles		A		В	(0	Poles	Trip	Wire & Conduit	Circuit Description	скт
1	Panel 3W		100 A	2	4905	4186					2	100 A		Panel 3E	2
3							4446	5165							4
5	Panel 2W		100 A	2					4186	4186	2	100 A		Panel 2E	6
7					5125	5165									8
9	Panel 1E		100 A	2			4187	4625			2	100 A		Panel 1W	10
11									5165	4727					12
13	Panel H1		100 A	2	5550	3016					2	40 A		HP-4	14
15							5692	3016							16
17	HP-3		40 A	2					3016	3016	2	40 A		HP-6	18
19					3016	3016									20
21	HP-5		40 A	2			3016	3016			2	40 A		HP-2	22
23									3016	3016					24
25	HP-1		40 A	2	3016										26
27							3016	2520			3	30 A		EUH-1	28
29										2520					30
31						2520									32
33															34
35															36
37															38
39															40
41															42
			Tota	al Load:	3951	5 VA	3869	97 VA	3284	7 VA					
			Tota	Amps:	33	7 A	33	0 A	274	4 A	-				
Leg	end:														
Loa	d Classification		C	onnecte	d Load	De	mand Fa	ctor	Estima	ted Dem	and		Panel T	otals	
Ligh	ting			738 \	/A		125.00%	, D	ç	23 VA					
Othe	er			12880	VA		101.40%	, D	13	8060 VA			Total Conn. Load:	111059 VA	
Pow	er			96362	VA		100.00%	, D	96	362 VA			Total Est. Demand:	111424 VA	
Ligh	ting - Dwelling Unit			1135	VA		100.00%	, D	1	135 VA			Total Conn. Current:	308 A	
												Total E	st. Demand Current:	309 A	
Not	26.														

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	То
Lighting	738 VA	125.00%	923 VA		
Other	12880 VA	101.40%	13060 VA	Total Conn. Load:	11
Power	96362 VA	100.00%	96362 VA	Total Est. Demand:	11
Lighting - Dwelling Unit	1135 VA	100.00%	1135 VA	Total Conn. Current:	30
				Total Est. Demand Current:	30
Notes:					

	Loc Supply Mou Encle	cation: BASEMENT 003 From: MDP Inting: Surface osure: Type 1				Volts: Phases: Wires:	120/208 S 1 3	ingle			A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating:	Α.
Notes												
скт	Circuit Description	Wire & Conduit	Trip	Poles		A		3	Poles	Trip	Wire & Conduit	
1	EFT-2-3		20 A	1	1000 VA	720 VA			1	20 A		
3	EFT-3-3		20 A	1			1000 VA	1400 VA	1	20 A		
5	FACP		20 A	1	720 VA	1120 VA			1	20 A		
7	Lighting		15 A	1			832 VA	1000 VA	1	20 A		
9	Gen. Battery Charger		15 A	1	720 VA	1270 VA			1	20 A		
11	Lighting		15 A	1			486 VA	980 VA	1	20 A		Inte
13												
15												
17							-					
19												
21			_									
23												
			Tot	al Load:	555	0 VA	5692	2 VA				
			Tota	Amps:	53	3 A	55	5 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	То
Lighting	498 VA	125.00%	623 VA		
Other	1240 VA	114.52%	1420 VA	Total Conn. Load:	: 11
Power	9170 VA	100.00%	9170 VA	Total Est. Demand:	11
Lighting - Dwelling Unit	350 VA	100.00%	350 VA	Total Conn. Current:	54
				Total Est. Demand Current:	56
Notes:	,				

	Branch Pa	nel: 1E				Volts	· 120/208	Single			AIC Rating: 10 KA		
	Supply Mo Enc	y From: MDP unting: Recessed losure:				Phases: Wires:	: 1 : 3	Ungic			Mains Type: MLO Mains Rating: 100 A MCB Rating:		
Notes:													
скт	Circuit Description	Wire & Conduit	Trip	Poles		A		в	Poles	Trip	Wire & Conduit	Circuit Description	скт
1	Receptacles		20 A	1	540	360			1	20 A		Receptacles	2
3	Receptacles		20 A	1			760	1440	1	20 A		Recept. (Ref./Range/Hood)	, 4
5	Recept. (Bath Rm.)		20 A		180	185	000	700	1	15 A		Lights & EF-1-1	6
/	Receptacles		20 A	1	1000	000	900	720	1	20 A		Receptacles	8
9			20 A	1	1080	900	400	215	2	20 A			10
13			15 A	2	630	315	400	315	2	15 A		FCO-I-IB	1/
15	FC0-1-1A & C		15 A	2	030	315	630						14
17							000						18
19							-						20
21													22
23													24
			Tot	tal Load:	41	87 VA	510	65 VA	_				
Legend	:		100	ui ranpo.									
Load C	lassification		Connec	cted Load		Demand Fa	actor	Estimate	d Deman	d	Pane	I Totals	
Lighting			40) VA		125.00%	6	50	VA				
Other			196	60 VA		108.04%	6	211	8 VA		Total Conn. Load	9352 VA	
Power			724	40 VA		100.00%	6	724	-0 VA		Total Est. Demand	9519 VA	
Lighting	- Dwelling Unit		11	7 VA		100.00%	6	11	7 VA		Total Conn. Current	45 A	
										Т	otal Est. Demand Current	: 46 A	
Notes:													

	Branch Pa Lo Supply Mo Enc	nel: 2E ocation: HALLWAY 400 y From: MDP ounting: Recessed closure:				Volts: Phases: Wires:	120/208 1 3	Single			A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating:
Notes:											
СКТ	Circuit Description	Wire & Conduit	Trip	Poles		A		В	Poles	Trip	Wire & Conduit
1	Receptacles		20 A	1	540	360	760	1440	1	20 A	
5	Recept. (Bath Rm.)		20 A	1	180	186	700	1440	1	20 A 15 A	
7	Receptacles		20 A	1			900	720	1	20 A	
9	Receptacles		20 A	1	1080	900			1	20 A	
11	EFT-2-1		15 A	1	01E	620	400	630	2	15 A	
15	FCU-2-1B 		15 A		315	030	315				
17							010				
19											
21											
23			To	tal Load:	418	36 V/A	51	65 VA			
Load C Lighting	lassification		Conne	cted Loac 0 VA		Demand Fa 125.00%	ictor	Estimate 50	d Deman VA	d	Pane
Other			194	40 VA		108.12%	6	209	8 VA		Total Conn. Load
Power			72	40 VA		100.00%	6	724	0 VA		Total Est. Demand
Lighting	- Dwelling Unit		13	38 VA		100.00%	6	138	3 VA	Тс	Total Conn. Current otal Est. Demand Current
Notes:											
	Branch Pa Lo Supply Mo Enc	nel: 3E ocation: HALLWAY 600 y From: MDP ounting: Recessed closure:				Volts: Phases: Wires:	120/208 1 3	Single			A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating:
Notes:											

Location: HALLWAY 600 Supply From: MDP Mounting: Recessed Enclosure: Volts: 120/208 Single Phases: 1 Wires: 3 Notes: Poil Phases: 1 Wires: 3 CKT Circuit Description Wire & Conduit Trip Poles A B Poles Tri 1 Recept (Ref.) 20 A 1 360 VA 540 VA 1 200			
CKT Circuit Description Wire & Conduit Trip Poles A B Poles Tri 1 Receptacles 20 A 1 360 VA 540 VA 1 20 3 Receptacles 20 A 1 360 VA 1440 VA 760 VA 1 20 5 Lighting - Dwelling Unit 15 A 1 186 VA 180 VA 70 VA 1 20 7 Receptacles 20 A 1 108 VA 900 VA 720 VA 1 20 9 Receptacles 20 A 1 108 VA 900 VA 720 VA 1 20 11 EFT-3-1 15 A 1 400 VA 630 VA 2 15 16 - <	A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating:		
CKT Circuit Description Wire & Conduit Trip Poles A B Poles Tri 1 Recept.(Ref.) 20 A 1 360 VA 540 VA 140 VA 760 VA 1 20 3 Recept.(Ref.) 20 A 1 186 VA 180 VA 760 VA 1 20 7 Receptacles 20 A 1 186 VA 900 VA 720 VA 1 20 9 Receptacles 20 A 1 1080 VA 900 VA 720 VA 1 20 9 Receptacles 20 A 1 1080 VA 900 VA 720 VA 1 20 11 EFT-3-1 15 A 2 315 VA			
Chr Cir Cur Description Write a Conduit Trip Poles A B Poles In 1 Receptacles 20 A 1 360 VA 1440 VA 760 VA 1 20 5 Lighting - Dwelling Unit 15 A 1 186 VA 180 VA 900 VA 720 VA 1 20 7 Receptacles 20 A 1 1080 VA 900 VA 720 VA 1 20 9 Receptacles 20 A 1 1080 VA 900 VA 630 VA 2 15 13 FCU-3-1B 15 A 1 400 VA 630 VA 17 - - - - 315 VA 630 VA	vin Wire & Conduit		CK.
1 Necepticades 20 A 1 300 VA 340 VA 1440 VA 760 VA 1 20 3 Recept. (Ref.) 15 A 1 186 VA 180 VA 760 VA 1 20 5 Lighting - Dwelling Unit 15 A 1 186 VA 180 VA 760 VA 1 20 9 Receptacles 20 A 1 186 VA 900 VA 720 VA 1 20 9 Receptacles 20 A 1 1080 VA 900 VA 630 VA 2 15 13 FCU-3-1B 15 A 1 400 VA 630 VA 2 15 17 - - - - - 315 VA 630 VA 2 15 19 -	ip wire & conduit	Circuit Description	
3 20 A 1 180 VA 180 VA 100 VA 1 20 7 Receptacles 20 A 1 180 VA 900 VA 720 VA 1 20 9 Receptacles 20 A 1 1080 VA 900 VA 720 VA 1 20 11 EFT-3-1 15 A 1 1080 VA 900 VA 630 VA 2 15 13 FCU-3-1B 15 A 2 315 VA 630 VA		Receptacles	
0 10111 10111 10111 10111 10111 101111 10111		Recept (Bath Rm)	
9 Receptacles 20 A 1 1080 VA 900 VA 1 20 11 EFT-3-1 15 A 1 400 VA 630 VA 2 15 13 FCU-3-1B 15 A 2 315 VA 630 VA <	A A	Receptacles	8
11 EFT-3-1 15 A 1 400 VA 630 VA 2 15 13 FCU-3-1B 15 A 2 315 VA 630 VA <td>A</td> <td>Receptacles</td> <td>10</td>	A	Receptacles	10
13 FCU-3-1B 15 Å 2 315 VÅ 630 VÅ	λ A	FCU-3-1A & 1C	12
15 315 VA 17 315 VA 19 21 23 23 </td <td></td> <td></td> <td>14</td>			14
17 17 <td< td=""><td></td><td></td><td>16</td></td<>			16
19 19 10 <th10< th=""> 10 10 <th1< td=""><td></td><td></td><td>18</td></th1<></th10<>			18
21 Image: Second s			20
23 Total Load: 4186 VA 5165 VA Total Amps: 40 A 48 A Legend: Connected Load Demand Factor Estimated Demand Lighting 40 VA 125.00% 50 VA Other 1940 VA 108.12% 2098 VA Power 7240 VA 100.00% 7240 VA Lighting - Dwelling Unit 138 VA 100.00% 138 VA			22
I Otal Load.4186 VA5165 VATotal Amps:40 A48 ALegend:Load ClassificationConnected LoadDemand FactorEstimated DemandLighting40 VA125.00%50 VAOther1940 VA108.12%2098 VAPower7240 VA100.00%7240 VALighting - Dwelling Unit138 VA100.00%138 VA			24
Instant Amps:40 A46 ALegend:Load ClassificationConnected LoadDemand FactorEstimated DemandLighting40 VA125.00%50 VAOther1940 VA108.12%2098 VAPower7240 VA100.00%7240 VALighting - Dwelling Unit138 VA100.00%138 VA			
Load ClassificationConnected LoadDemand FactorEstimated DemandLighting40 VA125.00%50 VAOther1940 VA108.12%2098 VAPower7240 VA100.00%7240 VALighting - Dwelling Unit138 VA100.00%138 VA			
Load ClassificationConnected LoadDemand FactorEstimated DemandLighting40 VA125.00%50 VAOther1940 VA108.12%2098 VAPower7240 VA100.00%7240 VALighting - Dwelling Unit138 VA100.00%138 VA			
Lighting 40 VA 125.00% 50 VA Other 1940 VA 108.12% 2098 VA Power 7240 VA 100.00% 7240 VA Lighting - Dwelling Unit 138 VA 100.00% 138 VA	Panel	I Totals	
Other 1940 VA 108.12% 2098 VA Power 7240 VA 100.00% 7240 VA Lighting - Dwelling Unit 138 VA 100.00% 138 VA			
Power 7240 VA 100.00% 7240 VA Lighting - Dwelling Unit 138 VA 100.00% 138 VA	Total Conn. Load	: 9351 VA	
Lighting - Dwelling Unit 138 VA 100.00% 138 VA	Total Est. Demand	: 9518 VA	
	Total Conn. Current	: 45 A	
	Total Est. Demand Current:	: 46 A	
Notes:			

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Description: ISSUED FOR BID

Volts: 120/208 Single

Branch Panel: 1W

Location: HALLWAY 100

Notes:	Branch Pal Lou Supply Mon Encl	NEI: ZVV cation: HALLWAY 300 From: MDP unting: Recessed osure:				Volts: Phases: Wires:	120/208 S 1 3	Single			A.I.C. Rating: Mains Type: Mains Rating: MCB Rating:
СКТ	Circuit Description	Wire & Conduit	Trip	Poles		Α		В	Poles	Trip	Wire & Cond
1	Receptacles		20 A	1	540	360			1	20 A	
3	Receptacles		20 A	1			720	1440	1	20 A	
5	Recept. (Bath Rm.)		20 A	1	180	186			1	15 A	
7	Receptacles		20 A	1			900	720	1	20 A	
9	Receptacles		20 A	1	1080	900			1	20 A	
11	EFT-2-2		15 A	1			400	315	2	15 A	
13	FCU-2-2A & 2C		15 A	2	630	315					
15							630				
17				-							
19											
21											
23			Tot	beo I le	/18	6 \/A	512	5 \/A			
			Tota	ai Luau. [al Δmns:	410		4	S VA R A	-		
Legend	l: lassification		Connee	cted Load		Demand Fa	ictor	Estimate	d Demand		
Lighting			4() VA		125.00%	ó	50	VA		
Other			190	00 VA		108.29%	0	205	8 VA		Total Con
Power			724	40 VA		100.00%	6	724	0 VA		Total Est. D
Lighting	- Dwelling Unit		13	8 VA		100.00%	6 0	138	3 VA		Total Conn.
										Тс	tal Est. Demand (
Notes:											

Notes:	Branch Par Loc Supply Mou Encle	nel: 3W sation: HALLWAY 500 From: MDP unting: Recessed osure:				Volts: Phases: Wires:	120/208 S 1 3	Single			A.I.C. Rating: Mains Type: Mains Rating: MCB Rating:
СКТ	Circuit Description	Wire & Conduit	Trip	Poles		^		R	Poles	Trip	Wire & Condu
	Recentacles	Wile & Collaut	20 Δ	1	540 VA	- 360 \/Δ			1	20 A	Whe & Condu
3	Recept (Ref.)		20 A	1	040 VA	000 VA	1440 VA	760 VA	1	20 A	
5	Recept. (Bath Rm.)		20 A	1	180 VA	900 VA		100 111	1	20 A	
7	Lights & EF-3-2		15 A	1			186 VA	720 VA	1	20 A	
9	Receptacles		20 A	1	1080 VA	900 VA			1	20 A	
11	EFT-3-2		15 A	1			400 VA	630 VA	2	15 A	
13	FCU-3-2B		15 A	2	315 VA	630 VA					
15							315 VA				
17											
19											
21											
23			Tot		400		444				
					490		444		-		
Laran	J.		IOta	a Amps:	47	A	4,	3 A			
Legen	u.		0	4				F _44ins_44	- D	-	
	JIASSIIICALION		Connec		u D			Esumate		u	
Lightin	9		40	VA		125.00%	o	50	VA		_
Other			194	0 VA		108.12%	ó	209	8 VA		Total Conn
Power			724	0 VA		100.00%	0	724	0 VA		Total Est. De
Lighting	g - Dwelling Unit		138	3 VA		100.00%	0	138	3 VA		Total Conn. C
										1	Fotal Est. Demand C
Notes:							I				

Drawing Title: ELECTRICAL PANEL SCHEDULES

Date: Revised By: 4/13/2022

A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating:		
Wire & Conduit	Circuit Description Receptacles Recept. (Ref./Range/Hood)	CKT 2 4
	FCU-1-2B Lights & FE-1-2	6 8 10 12
	Receptacles Receptacles	14 16 18
		20 22 24
Panel	Totals	
Total Conn. Load: Total Est. Demand: Total Conn. Current: Il Est. Demand Current:	9352 VA 9519 VA 45 A 46 A	
ALC Pating: 10 KA		
Mains Type: MLO Mains Rating: 100 A		
MCB Rating:		
Wire & Conduit	Circuit Description	СКТ
	Receptacies Recept. (Ref./Rang/Hood) Lights & EF-2-2 Recentacies	2 4 6 8
	Receptacles FCU-2-2B	10 12 14
		16 18 20
		22 24
Panel	Totals	
Total Conn. Load: Total Est. Demand: Total Conn. Current:	9311 VA 9478 VA 45 A	
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current:	9311 VA 9478 VA 45 A 46 A	
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current:	9311 VA 9478 VA 45 A 46 A	
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current:	9311 VA 9478 VA 45 A 46 A	
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current:	9311 VA 9478 VA 45 A 46 A	
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current:	9311 VA 9478 VA 45 A 46 A	
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A	9311 VA 9478 VA 45 A 46 A	
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating:	9311 VA 9478 VA 45 A 46 A	
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating:	9311 VA 9478 VA 45 A 46 A	
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating:	9311 VA 9478 VA 45 A 46 A	CKT
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating:	9311 VA 9478 VA 45 A 46 A	CKT 2 4 6
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating: Wire & Conduit	9311 VA 9478 VA 45 A 46 A 	СКТ 2 4 6 8 10 12 14
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating: Wire & Conduit	9311 VA 9478 VA 45 A 46 A 	CKT 2 4 6 8 10 12 14 16 18 20
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating: Wire & Conduit	9311 VA 9478 VA 45 A 46 A	CKT 2 4 6 8 10 12 14 16 18 20 22 24
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating: Wire & Conduit	9311 VA 9478 VA 45 A 46 A	CKT 2 4 6 8 10 12 14 16 18 20 22 24
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating: Wire & Conduit	9311 VA 9478 VA 45 A 46 A	CKT 2 4 6 8 10 12 14 16 18 20 22 24
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating: Wire & Conduit	9311 VA 9478 VA 45 A 46 A	CKT 2 4 6 8 10 12 14 16 18 20 22 24
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating: Wire & Conduit 	9311 VA 9478 VA 45 A 46 A 	CKT 2 4 6 8 10 12 14 16 18 20 22 24
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Total Conn. Load: Total Est. Demand Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating: Wire & Conduit	9311 VA 9478 VA 45 A 46 A 	CKT 2 4 6 8 10 12 14 16 18 20 22 24
Total Conn. Load: Total Est. Demand Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating: Wire & Conduit	9311 VA 9478 VA 45 A 46 A 	CKT 2 4 6 8 10 12 14 16 18 20 22 24
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating: Wire & Conduit	9311 VA 9478 VA 45 A 46 A 	CKT 2 4 6 8 10 12 14 16 18 20 22 24
Total Conn. Load: Total Est. Demand: Total Conn. Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating: Wire & Conduit	9311 VA 9478 VA 45 A 46 A 	CKT 2 4 6 8 10 12 14 16 18 20 22 24
Total Conn. Load: Total Conn. Current: I Est. Demand Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: MLO Mains Rating: 100 A MCB Rating: Wire & Conduit	9311 VA 9478 VA 45 A 46 A 	CKT 2 4 6 8 10 12 14 16 18 20 22 24
Total Conn. Load: Total Conn. Current: I Est. Demand Current: I Est. Demand Current: A.I.C. Rating: 10 KA Mains Type: Mains Rating: 100 A MCB Rating: Wire & Conduit	9311 VA 9478 VA 45 A 46 A 47 A	CKT 2 4 6 8 10 12 14 16 18 20 22 24
Total Conn. Load: Total Conn. Current: I Est. Demand Current: I Est. Demand Current: A.I.C. Rating: 10 A Mains Type: Mice & Conduit Wire & Conduit Wire & Conduit Total Conn. Load: Total Conn. Current: I Est. Demand Current: I Est. Demand Current: I Est. Demand Current: Date: 4/13/2022 Scale: Drawn By: SEC	9311 VA 9478 VA 45 A 46 A 46 A 	CKT 2 4 6 8 10 12 14 16 18 20 22 24