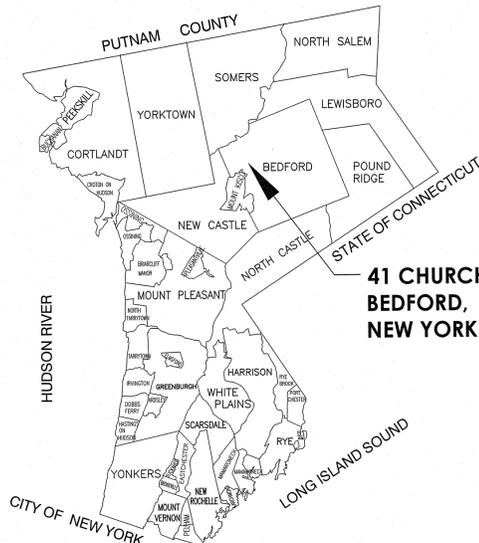
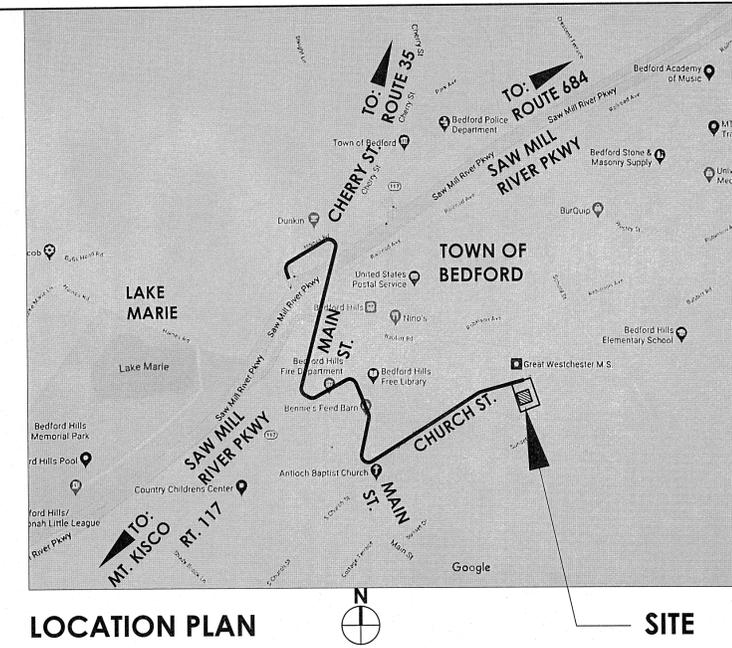


WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING

CONTRACT No. 21-527 HOUSE REFURBISHMENT 41 CHURCH ST. BEDFORD, NEW YORK



COUNTY MAP



LOCATION PLAN

SITE

ZONING REGULATIONS - TOWN OF BEDFORD			
SECTION: 60.18 BLOCK: 1 LOT: 21		ZONING DISTRICT: R - 1/4 A	
ZONING ITEM:	REQUIRED:	EXISTING:	PROPOSED:
LOT AREA.	10,000 SF	6,450 SF	NO CHANGE
MINIMUM EFFECTIVE SQUARE SIDE.	75'	45'	NO CHANGE
FRONT YARD.	35'	45'	NO CHANGE
LESSER SIDE YARD.	15'	5'	NO CHANGE
TOTAL BOTH SIDE YARDS.	35'	15'	NO CHANGE
REAR YARD.	40'	40'	NO CHANGE
MAX. HEIGHT: STORIES.	2 1/2	2 1/2	NO CHANGE
MAX. HEIGHT: FEET.	35'	24'-4"	NO CHANGE
MAX. COVERAGE: BUILDING.	20 %	18 %	NO CHANGE
MAX. COVERAGE: IMPERVIOUS SURFACE.	40 %	31 %	NO CHANGE
MAX. BUILDING LENGTH.	---	---	NO CHANGE
MIN. CUBIC FOOTAGE.	11,000	19,800	NO CHANGE
MIN. BUILDING SEPARATION.	---	---	NO CHANGE

CODE NOTES

TO THE BEST OF MY KNOWLEDGE, BELIEF & PERSONAL JUDGEMENT THIS PROJECT IS IN COMPLIANCE WITH THE 2020 NYS BUILDING CODE & THE 2020 NYS ENERGY CODE

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD	WIND SPEED (mph)	SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			Climate Zone	Ice Barrier Underlayment Req'd	Flood hazard
			Weathering	Frost line depth	Termite			
30 PSF	SPECIAL WIND REGION 115	C	Severe	42"	M - H	4	YES	NO

TABLE N1102.1 -- INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT

CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB R-VALUE & DEPTH	CRAWL SPACE WALL R-VALUE
4	0.35	0.55	0.40	49	20 or 13+5	8/13	19	10/13	10, 2 FT	10 / 13

SHEET NO. SHEET TITLE

T - 1	TITLES, INDEX, CODE INFORMATION	61-00-T-130-0
A - 1	FLOOR PLANS - DEMOLITION	61-00-A-131-0
A - 2	EXTERIOR ELEVATIONS	61-00-A-132-0
A - 3	KITCHEN & BATHROOM: NEW WORK	61-00-A-133-0
P - 1	PLUMBING PLAN	61-00-P-134-0
M - 1	MECHANICAL DETAILS & NOTES	61-00-M-135-0
M - 2	MECHANICAL PLAN	61-00-M-136-0

DPW DWG. #:

61-00-T-130-0
61-00-A-131-0
61-00-A-132-0
61-00-A-133-0
61-00-P-134-0
61-00-M-135-0
61-00-M-136-0

ENERGY CODE NOTE:

THIS PROJECT COMPRISES REFURBISHMENTS & MINOR REPAIRS TO AN EXISTING HOUSE. THERE ARE NO ALTERATIONS, ADDITIONS OR RENOVATIONS TO THE ORIGINAL STRUCTURE. THERE ARE NO CHANGES TO THE ORIGINAL THERMAL ENVELOPE WALLS & ROOFS.

BUILDING DEPT. FILING NOTES:

- DRAWINGS MUST BE FILED WITH THE TOWN OF BEDFORD.
- AFTER PROJECT AWARD THE COUNTY WILL FILE THE PROJECT WITH THE TOWN OF YORKTOWN. THE CONTRACTOR WILL PROVIDE ALL DOCUMENTS REQUIRED BY TOWN INCLUDING INSURANCE NAMING TOWN AS THE POLICY HOLDER, ETC. THE CONTRACTOR SHALL PICK UP & PAY FOR ALL TOWN & PERMIT FEES. THE CONTRACTOR SHALL CONTACT TOWN BEFORE BID TO FIND OUT ALL OF THE TOWN'S REQUIREMENTS & COSTS, AND SHALL BE RESPONSIBLE FOR ALL PAPERWORK AFTER PROJECT AWARD.
- COST OF TOWN FILING FEES SHALL BE INCLUDED IN BID.
- CONTRACTOR TO FOLLOW ALL TOWN OF BEDFORD REGULATIONS.
- NO WORK SHALL COMMENCE WITH OUT ACTIVE BUILDING PERMITS.

GENERAL NOTES:

- DO NOT SCALE THE DRAWINGS. USE WRITTEN DIMENSIONS ONLY.
- THE CONTRACTORS ARE RESPONSIBLE FOR FIELD VERIFYING ALL CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING ANY WORK.
- ALL QUESTIONS AND/OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
- ALL WORK TO FOLLOW ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES AND REQUIREMENTS.
- CONTRACTOR RESPONSIBLE TO PROVIDE FOR THE SAFETY OF THEIR WORKERS AND THE COUNTY'S EMPLOYEES AS PER ALL LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS.
- GENERAL CONTRACTOR TO COORDINATE ALL WORK WITH COUNTY REPRESENTATIVE INCLUDING ALL WORK DAYS, HOURS AND SCHEDULING WITH MINIMUM 72 HOURS NOTICE. THE CONTRACTOR IS RESPONSIBLE TO PRESENT AND RECEIVE APPROVAL ON SCHEDULE AND PHASING PLAN PRIOR TO START OF ANY WORK.
- CONTRACTOR TO ALLOW FOR INSPECTIONS AS REQUIRED BY THE TOWN OF YORKTOWN AND FOLLOW ALL INSTRUCTIONS BY THE TOWN REPRESENTATIVE
- THE CONTRACTORS ARE RESPONSIBLE FOR ALL CLEAN-UP AT THE END OF EACH WORK OPERATION AT END OF EACH WORK DAY. THE GROUNDS SHALL BE SWEEP CLEAN AND FREE OF DEBRIS AT ALL TIMES. ALL DEBRIS REMOVAL MUST BE COMPLETE ON A DAILY BASIS. NO DEBRIS SHALL REMAIN AT SITE.
- ALL GRASS AREAS DAMAGED DURING DEMOLITION WORK TO BE RESEED AS DIRECTED BY COUNTY REPRESENTATIVE.

IF IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR, TO ALTER ANY ITEM ON THESE PLANS IN ANY WAY, IF ALTERATIONS TO THESE PLANS ARE MADE, THE ALTERATIONS SHALL BE MADE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.

LEGAL NOTICE:

ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER DIRECTION OF THE LICENSED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE VII, SECT. 69.5 (B) OF NEW YORK STATE LAW.

WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS AND CONDITIONS ON THE JOB. THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

IN CHARGE OF ADAM KAPLINSKI, RA
CHECKED BY ADAM KAPLINSKI, RA
MADE BY JOHN W. LEVY, RA

 RECOMMENDED FOR DESIGN ADAM KAPLINSKI, R.A. ASSOCIATE ARCHITECT DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION	11-8-21 DATE	 RECOMMENDED FOR CONSTRUCTION GAYLE KATZMAN, P.E. FIRST DEPUTY COMMISSIONER DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION	11/8/2021 DATE	 APPROVED FOR CONSTRUCTION NORMA DRUMMOND COMMISSIONER DEPARTMENT OF PLANNING	11/8/2021 DATE	 APPROVED FOR CONSTRUCTION HUGH J. GREECHAN, JR., P.E. COMMISSIONER DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION	11/8/21 DATE
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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

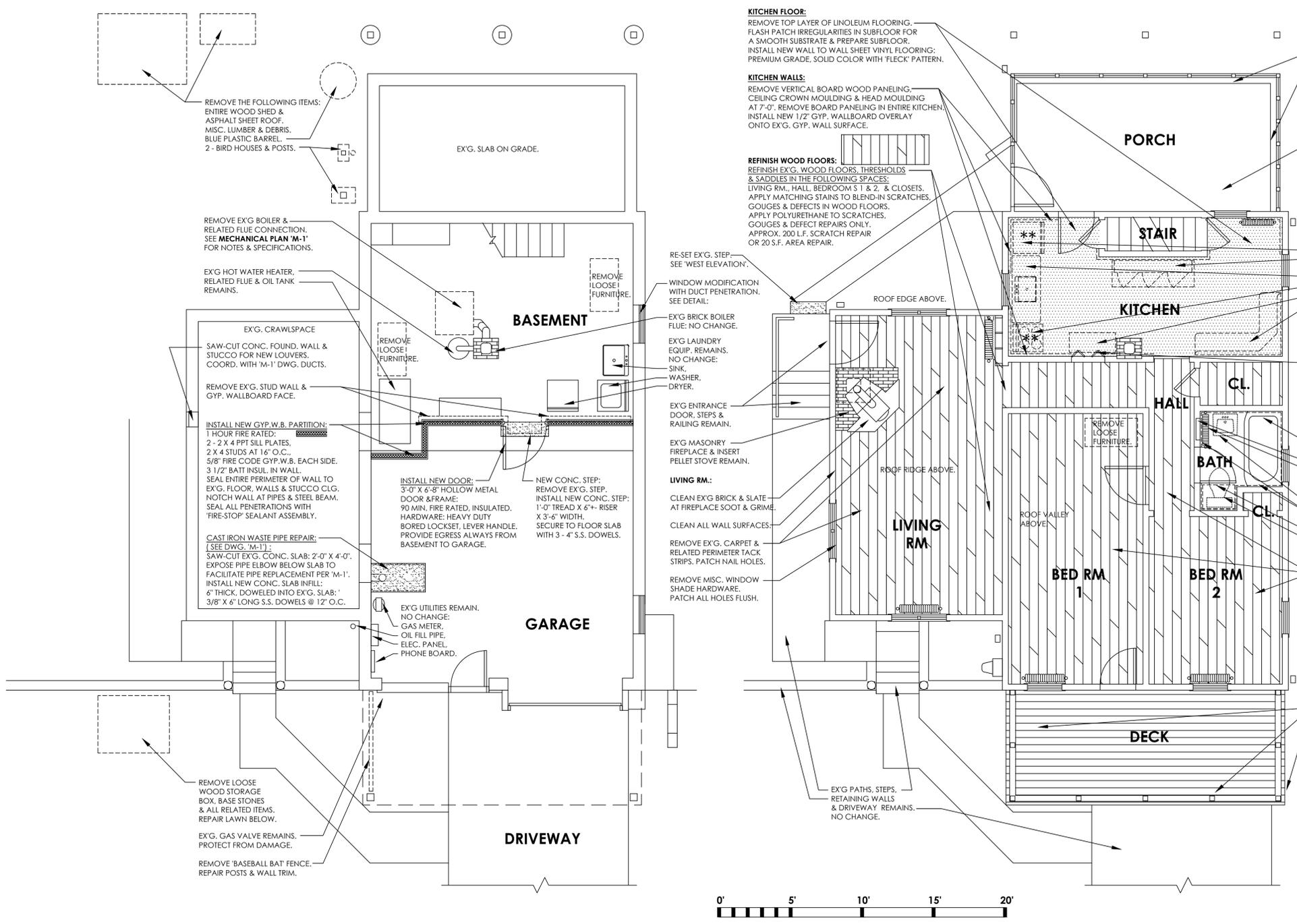
AS BUILT -- CHANGES AS NOTED
 AS BUILT -- NO CHANGES

CONTRACTOR		PROJECT COORDINATOR	
NAME		NAME	
SIGNATURE		SIGNATURE	
TITLE		TITLE	
DATE		DATE	

**WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENGINEERING**

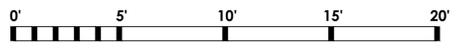
HOUSE REFURBISHMENT
41 CHURCH ST.
BEDFORD, NEW YORK
TITLE, INDEX, CODE INFORMATION

CONTRACT NUMBER 21-527	SHEET NUMBER T-1
SHEET NO. 1 OF 7	SCALE: 1/4" = 1'-0"
DATE: 11/4/21	DPW FILE NO.
61-00-T-130	REV. NO.: 0



B BASEMENT FLOOR PLAN
1/4" = 1'-0"

1 1 ST FLOOR PLAN
1/4" = 1'-0"



GENERAL NOTES

PAINTING NOTES:
PAINT ALL GYP. WALLBOARD WALL, TRIM & CEILING SURFACES IN ALL SPACES.
PRIME ALL NEW GYP. WALLBOARD PATCHES & COMPOUND WITH 2 COATS PRIMER.
PRIME & PAINT ALL EXTERIOR WOOD TRIMS, FACES, EAVES, RAKES, SOFFITS & WOOD SIDING.
PAINT MFR'S SHALL BE: BENJAMIN MOORE, SHERWIN WILLIAMS OR BEHR.

PAINT FINISHES & COLORS SHALL BE:
PRIMER SHALL BE: STAIN & COLOR HIDING;
GENERAL WALLS & CEILINGS: SEMI-GLOSS: 'LINEN WHITE';
BATHROOM CEILING: GLOSS: 'LINEN WHITE';
BATHROOM WINDOW INTERIOR: SEMI-GLOSS: 'LINEN WHITE';
INTERIOR DOORS, TRIMS FRAMES & BASE: SEMI-GLOSS: 'WHITE';
EXTERIOR DOORS & FRAMES: SEMI-GLOSS: 'WHITE';
EXTERIOR WOOD & TRIMS: SEMI-GLOSS: 'WHITE';
EXTERIOR METAL RAILINGS: SEMI-GLOSS: 'BLACK'.

NATURAL WOOD SURFACES:
INTERIOR DOORS, FRAMES & FURNISHINGS: RE-STAIN MINOR DEFECTS & DAMAGE.
APPLY FURNITURE POLISH TO CLEAN WOOD.

INTERIOR CLEANING NOTES:
PERFORM THE FOLLOWING AT ALL SPACES & ALL SURFACES:
REMOVE ALL DEBRIS, TRASH & LOOSE PERSONAL OBJECTS.
SWEEP ALL SPACES & WALLS OF DUST & WEBS.
REMOVE ALL NAILS, TACKS, STAPLES & MISC. UN-USED FASTENERS.
APPLY INSECT DE-FOGGERS THROUGHOUT HOUSE, BASEMENT & ATTIC TO REMOVE INFESTATION.
VACUUM ENTIRE HOUSE, BASEMENT & ATTIC, TO THOROUGHLY CLEAN ALL SURFACES.
PATCH ALL WALL HOLES FLUSH AT STAPLES, NAILS & TACKS;
PATCH GYP. WALLBOARD HOLES WITH JOINT COMPOUND, SAND FLUSH & PRIME PAINT.
PATCH HOLES IN WOOD BOARDS & PANELING WITH FURNITURE REPAIR PUTTY TO MATCH COLOR & TEXTURE.
SEE PLANS FOR SUPPLEMENTAL WORK NOTES.

SITE CLEARING NOTES:
PERFORM THE FOLLOWING AT SITE AREAS:
REMOVE ALL DETERIORATED WOOD PILES: APPROX. 3 CU. YDS.
REMOVE BAGS OF LEAVES: APPROX. 3 CU. YDS.
REMOVE SITE LEAVES: APPROX. 10 CU. YDS.
APPLY INSECT DE-FOGGERS THROUGHOUT HOUSE, BASEMENT & ATTIC TO REMOVE INFESTATION.
REMOVE FALLEN TREE BRANCHES: APPROX. 20 L.F.
REMOVE MISC. SECTIONS OF GARDEN FENCING.
PRUNE BACK OVERGROWTH ATOP STONE WALL ALONG DRIVEWAY.
EXPOSE STONE WALL AT DRIVEWAY.
CUT & REMOVE DEAD STUMPS, TRUNKS & SHRUBS: APPROX. 10 S.F.
MOW ENTIRE LAWN & WEED AREAS.
RE-SEED BARE AREAS: APPROX. 300 S.F.

KITCHEN FLOOR:
REMOVE TOP LAYER OF LINOLEUM FLOORING.
FLASH PATCH IRREGULARITIES IN SUBFLOOR FOR A SMOOTH SUBSTRATE & PREPARE SUBFLOOR.
INSTALL NEW WALL TO WALL SHEET VINYL FLOORING: PREMIUM GRADE, SOLID COLOR WITH 'FLECK' PATTERN.

KITCHEN WALLS:
REMOVE VERTICAL BOARD WOOD PANELING, CEILING CROWN MOULDING & HEAD MOULDING AT 7'-0". REMOVE BOARD PANELING IN ENTIRE KITCHEN.
INSTALL NEW 1/2" GYP. WALLBOARD OVERLAY ONTO EX'G. GYP. WALL SURFACE.

REFINISH WOOD FLOORS:
REFINISH EX'G. WOOD FLOORS, THRESHOLDS & SADDLES IN THE FOLLOWING SPACES:
LIVING RM., HALL, BEDROOMS 1 & 2, & CLOSETS.
APPLY MATCHING STAINS TO BLEND-IN SCRATCHES, GOUGES & DEFECTS IN WOOD FLOORS.
APPLY POLYURETHANE TO SCRATCHES, GOUGES & DEFECT REPAIRS ONLY.
APPROX. 200 L.F. SCRATCH REPAIR OR 20 S.F. AREA REPAIR.

PORCH:
REMOVE LOOSE & SPALLED PAINT AT CONC. BLOCK KNEE WALLS & WOOD FRAMING & TRIMS AT WINDOWS & DOORS. APPLY 2 COATS PRIMER AT ALL PAINT REMOVED. APPROX. 30 S.F. TOTAL AREA.
APPLY 1 COAT FINISH PAINT AT INTERIOR SURFACES OF KNEE WALLS & WOOD TRIMS AT WINDOWS.

REMOVE LOOSE & SPALLED MORTAR AT STONE FLOOR.
PATCH MORTAR TO MATCH EX'G.: APPROX. 40 L.F. TOTAL.

KITCHEN:
REFER TO:
KITCHEN PLAN - NEW WORK
FOR KITCHEN RENOVATIONS.
REMOVE THE FOLLOWING EX'G. KITCHEN FURNISHINGS:
REFRIGERATOR **
COUNTER, BASE & OVERHEAD CABINETS,
SINK & BASE CABINETS,
STOVE **
COUNTER & LEGS,
BUILT-IN SEATING.
NOTE: ** SALVAGE EX'G. REFRIGERATOR & STOVE INTACT FOR RE-INSTALLATION.

REMOVE WOOD LOUVERED SHUTTERS AT WALL OPENING.

BATHROOM:
REFER TO:
BATHROOM PLAN - NEW WORK
FOR BATHROOM RENOVATIONS.
THE FOLLOWING ITEMS SHALL REMAIN IN PLACE:
BATHTUB & RELATED FAUCETS, SPOUTS & HEADS,
WALL NICHE,
RADIATOR.

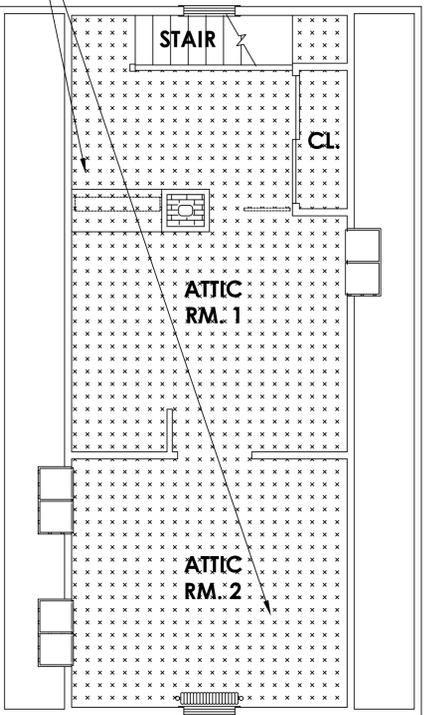
REMOVE THE FOLLOWING EX'G. BATHROOM ITEMS:
SINK & BASE CABINET,
WALL TILE, SHOWER LINER PANELS & WALLCOVERING,
CABINET OVER TOILET,
TOILET.

BEDROOMS 1 & 2, HALL & CLOSETS:
REFER TO GENERAL NOTES.

DECK:
REMOVE LOOSE & PROJECTING WOOD SPLINTERS & SAND AREA SMOOTH.
RE-STAIN ENTIRE DECK WITH EXT. TRANSPARENT STAIN, MATCH EX'G. COLOR. RE-STAIN: DECK BOARDS, POSTS, RAILINGS, BALUSTERS, HEADERS & ALL STRUCTURAL JOISTS.

ATTIC: SCOPE OF WORK:
BASE BID:
ALL EX'G. SURFACES & MATERIALS REMAIN.
THERE IS NO WORK TO BE PERFORMED IN ANY OF THE ATTIC SPACES IN THE 'BASE BID'.

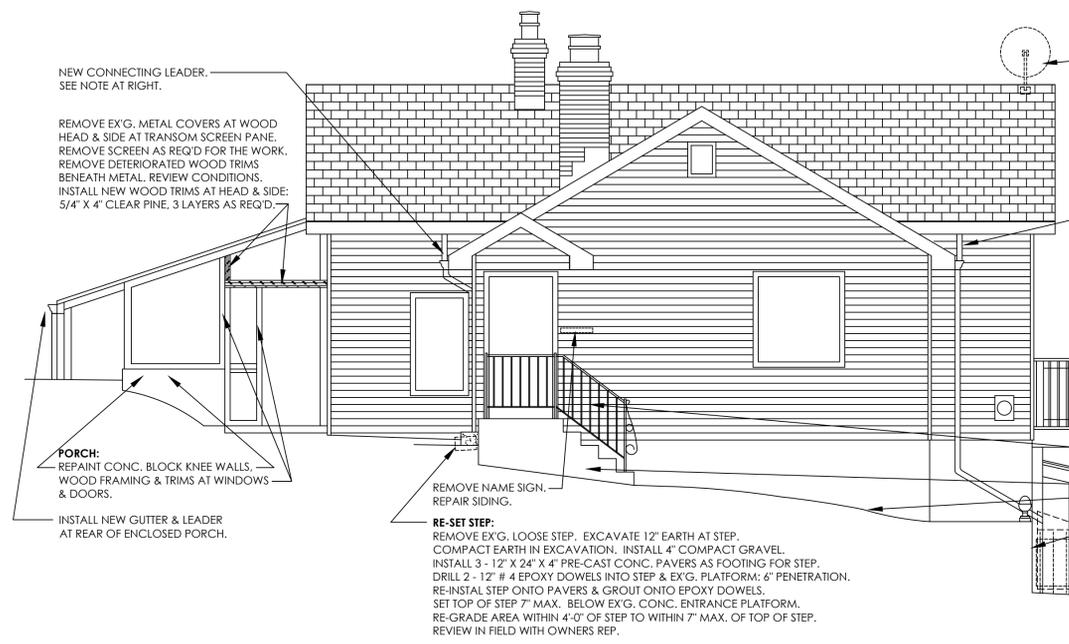
ALTERNATE # 1:
NOTE: VINYL TILES BELOW CARPET CONTAIN ASBESTOS.
PERFORM ALL WORK PER NY STATE CODE RULE 56.
PERFORM THE FOLLOWING WORK AS 'ALTERNATE # 1':
REMOVE CARPET TILES AT ENTIRE ATTIC & CLOSET FLOOR AREA.
ABATE / REMOVE VINYL ASBESTOS TILE AT ENTIRE ATTIC & CLOSET FLOOR AREA.
ABATE / REMOVE TILE MASTIC ON SUBFLOOR AS MUCH AS POSSIBLE.
SLIGHT STAINS & RESIDUE EMBEDDED IN THE WOOD GRAIN MAY REMAIN.
INSTALL 1/4" THICK 'LUAU' PLYWOOD SUB-FLOOR AT ENTIRE ATTIC & CLOSET FLOOR AREA.
DELIVER HAZARDOUS MATERIALS TO AN APPROVED DEPOSIT SITE.
FURNISH ALL 'CHAIN OF CUSTODY' DOCUMENTS & TRANSPORT MANIFESTS.



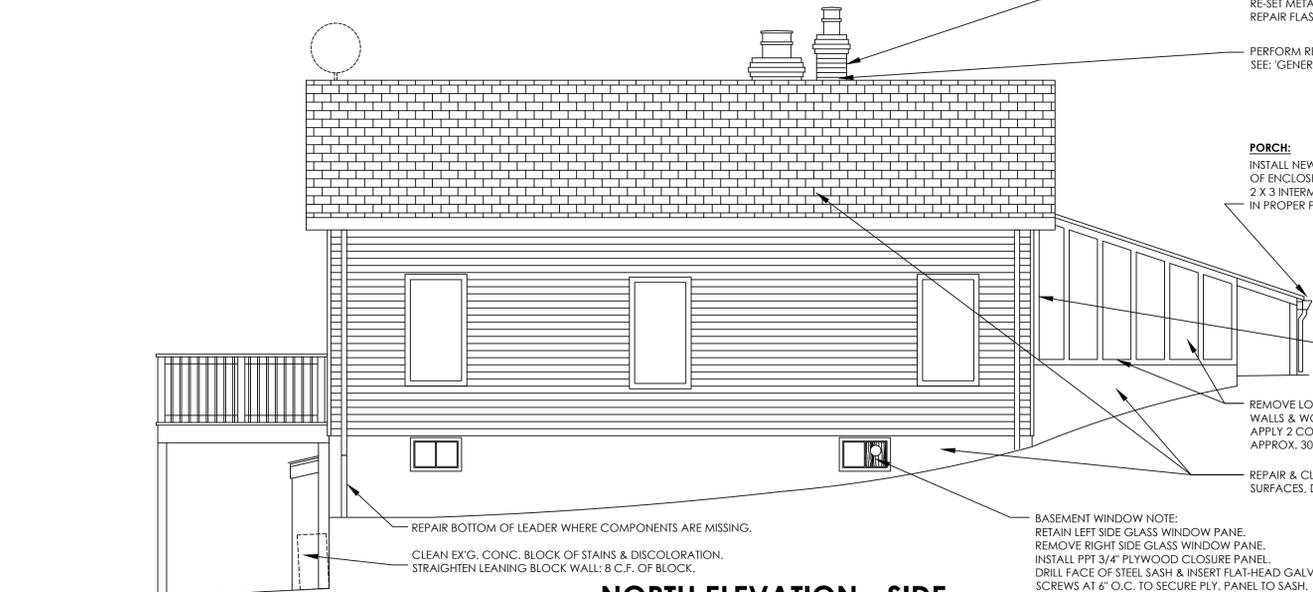
SEE NOTES ABOVE:
BASE BID & ALTERNATE # 1.
2 ATTIC PLAN
1/4" = 1'-0"

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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CONTRACTOR			PROJECT COORDINATOR	
NAME	SIGNATURE	DATE	NAME	SIGNATURE
TITLE	TITLE	TITLE	TITLE	TITLE
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING			CONTRACT NUMBER: 21-527 SHEET NUMBER: A-1 SHEET NO. 2 OF 7 SCALE: 1/4" = 1'-0" DATE: 11 / 4 / 21 DFW FILE NO. 61-00-A-131 REV. NO. 0	

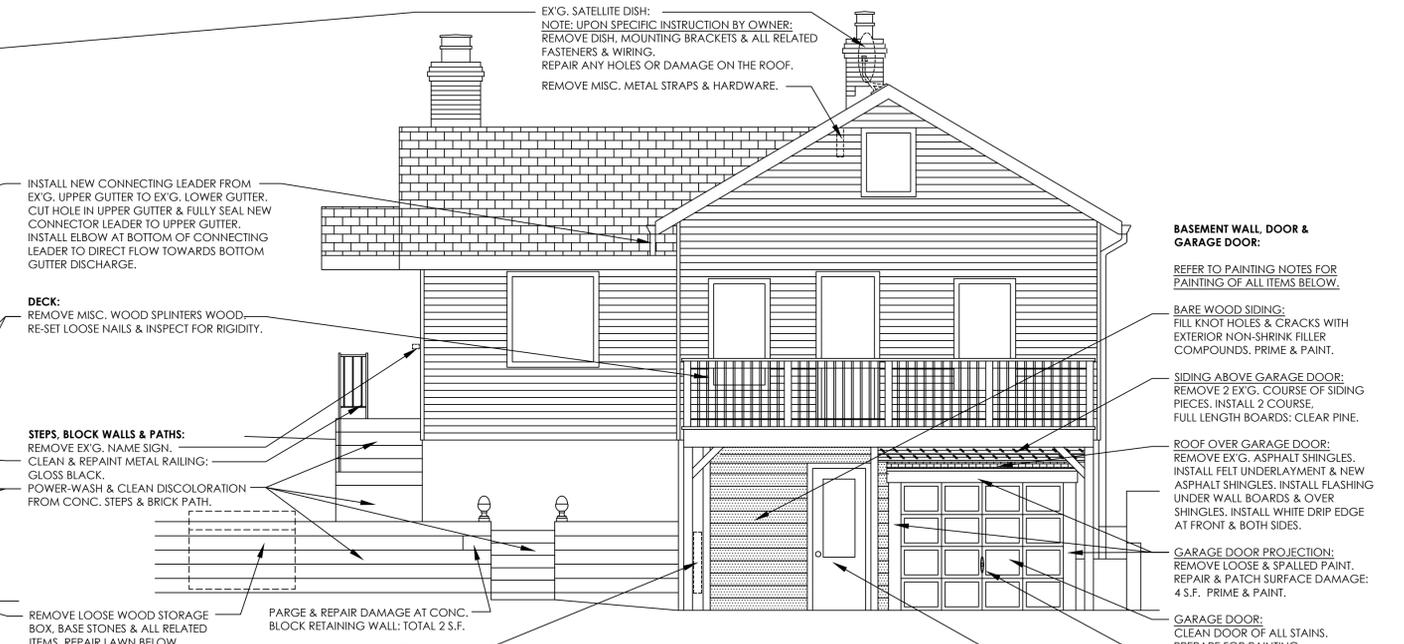
IN CHARGE OF ADAM KAPLINSKI, RA
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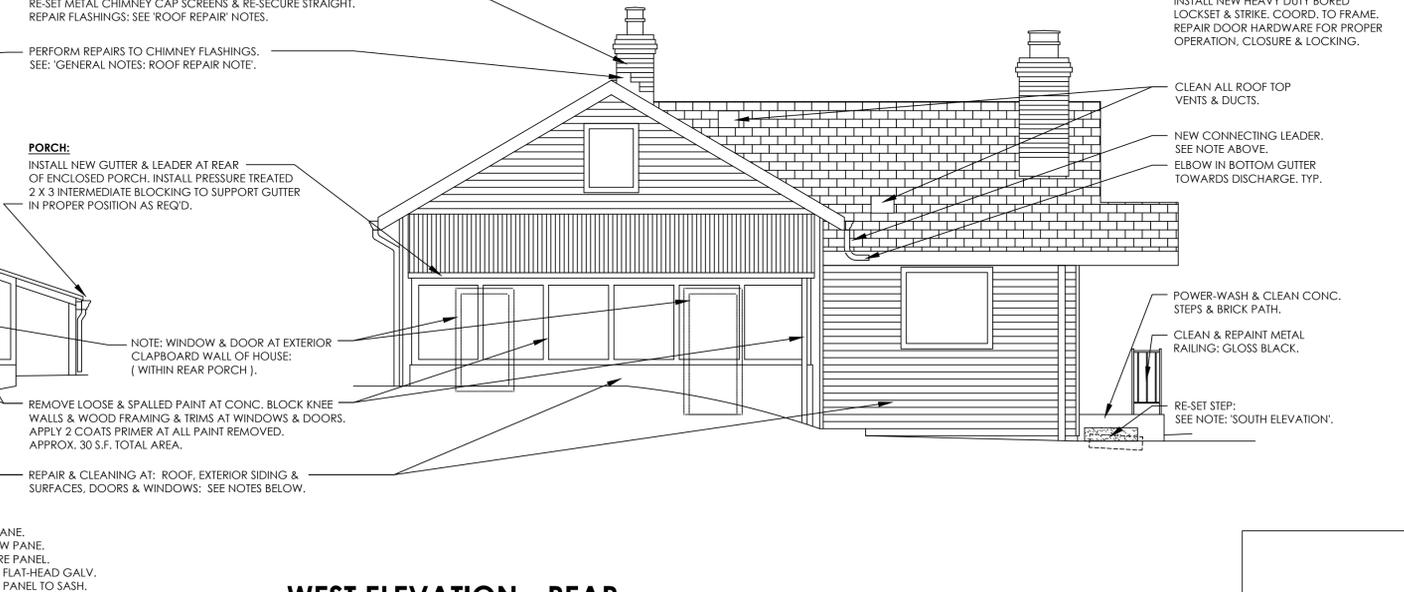
2 SOUTH ELEVATION - SIDE
1/4" = 1'-0"



4 NORTH ELEVATION - SIDE
1/4" = 1'-0"



1 EAST ELEVATION - FRONT
1/4" = 1'-0"



3 WEST ELEVATION - REAR
1/4" = 1'-0"

GENERAL NOTES

ROOF REPAIR NOTE:
REMOVE ALL ORGANIC GROWTH, WEEDS & ROOTS FROM SHINGLES & VALLEYS. PERFORM REPLACEMENT OF DETERIORATED ASPHALT SHINGLES; APPROX. 20 S.F. INSTALL NEW ROOF SHINGLES OVER GARAGE DOOR PROJECTION AS DESCRIBED. PERFORM REPLACEMENT OF ALUM. FLASHINGS WHERE DIRECTED AT CHIMNEYS, ROOF INTERSECTIONS, GUTTERS & OTHER CONDITIONS; APPROX. 50 L.F. SEAL ALL SEAMS & GAPS AT POTENTIAL LEAK AREAS AS DIRECTED; APPROX. 50 L.F.

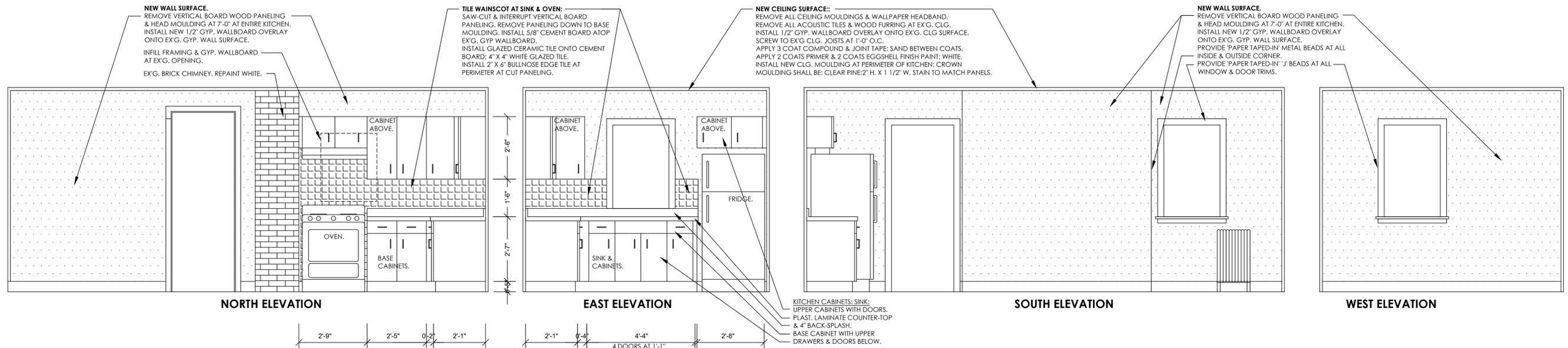
GUTTER & LEADER NOTE:
CLEAN ALL GUTTERS & LEADERS OF LEAVES & OBSTRUCTIONS. INSTALL CONNECTING LEADERS BETWEEN EX'G. GUTTERS AS DESCRIBED. INSTALL GUTTER END CLOSURES WHERE MISSING; QTY.: 6. RE-POSITION & RE-ALIGN GUTTERS FOR PROPER PITCH; 20 L.F. SEAL ALL SEAMS & GAPS AT POTENTIAL LEAK CONDITIONS; 20 L.F. INSTALL CONC. SPLASH BLOCKS AT ALL LEADERS; QTY.: 5.

POWER-WASHING NOTE:
POWER-WASH ALL EXTERIOR SURFACES WITH LOW PRESSURE WATER WITH MILD DETERGENT SOLUTION. LOOSEN ORGANIC STAINS, MOLD & MILDEW WITH A BRISTLE BRUSH & WASH AGAIN. RINSE ALL SURFACES WITH CLEAN MUNICIPAL WATER AT FAUCET PRESSURE. REPEAT WASHINGS & RINSING UNTIL STAINS ARE REMOVED.

PAINTING NOTE: SEE NOTES: 'FLOOR PLAN'.
DOOR & WINDOW:
REPAIR & SERVICE ALL EX'G. DOOR & WINDOW HARDWARE FOR PROPER OPERATION. ADJUST FOR EASY OPENING & LOCKING. CLEAN ALL DOORS & WINDOWS OF STAINS & DISCOLORATION. CLEAN ALL SCREENS. FURNISH NEW SCREENS WHERE MISSING; QTY.: 4. CLEAN WHITE ALUM. SCREEN DOORS. POLISH BARE ALUM. SCREEN DOORS. PAINT EXTERIOR FACE OF EX'G. PAINTED DOORS. WASH ALL GLASS: INTERIOR & EXTERIOR.

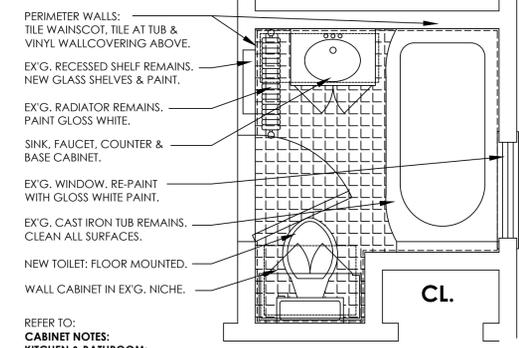
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REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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NAME _____		PROJECT COORDINATOR _____		
SIGNATURE _____		SIGNATURE _____		
TITLE _____		TITLE _____		
DATE _____		DATE _____		
WESTCHESTER COUNTY, NEW YORK				CONTRACT NUMBER
DEPARTMENT OF PUBLIC WORKS				21-527
DIVISION OF ENGINEERING				SHEET NUMBER
HOUSE REFURBISHMENT				A-2
41 CHURCH STREET				SHEET NO. 3 OF 7
BEDFORD, NEW YORK				SCALE: 1/4" = 1'-0"
EXTERIOR ELEVATIONS				DATE: 11/4/21
DPW FILE NO.				REV. NO.
61-00-A-132				0

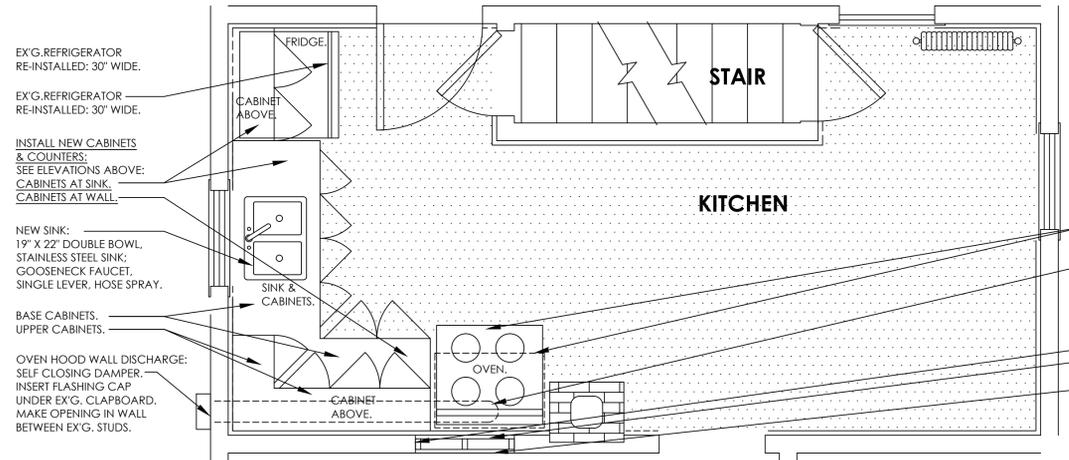


2 KITCHEN - INTERIOR ELEVATIONS
1/2" = 1'-0"

DIMENSION NOTE:
DIMENSIONS SHOWN ARE APPROX. FIELD VERIFY DIM'S. IN FIELD AFTER WALLS ARE OVERLAID WITH GYP. WALLBOARD. REVIEW KITCHEN CABINET LAYOUT & DIMENSIONS WITH ARCH. PRIOR TO ORDERING ITEMS.



3 BATHROOM PLAN - NEW WORK
1/2" = 1'-0"



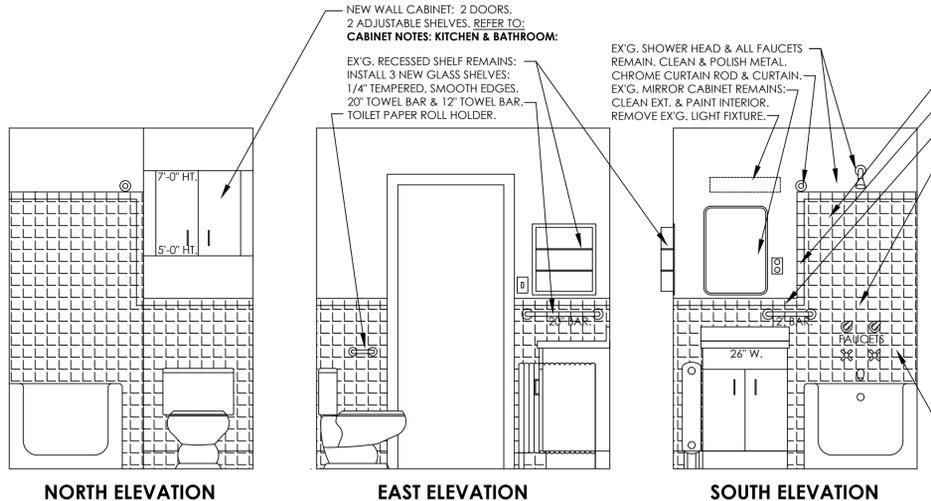
1 KITCHEN PLAN - NEW WORK
1/2" = 1'-0"

CABINET NOTES: KITCHEN & BATHROOM:
CABINETS, DOORS, DRAWERS & SHELVES SHALL BE: CABINET SIDES, DOORS & SHELVES: COMPRESSED FLAKE BOARD CORE. VISIBLE EXTERIOR FACES & EDGES: PLASTIC LAMINATE; VERTICAL GRADE: SOLID COLOR WITH 'GRANITE SPECKLE'; TAN OR SIMILAR. CONCEALED INTERIOR FACES, SHELVES & DRAWER INT.: 'MELAMINE' LAMINATE. SHELVES: 2 SHELVES PER DOOR CABINET: FULLY ADJUSTABLE HEIGHTS. METAL LADDER & CLIP SHELF SEATING HARDWARE. DOOR & DRAWER HARDWARE: DOOR HINGES: CONCEALED 'EUROPEAN' STYLE HINGES. 160 DEG. OPENING. DRAWER GLIDES: BALL BEARING, FULL EXTENSION, SELF-CLOSING. DOOR & DRAWER PULLS: 4" LONG X 1/4" DIA. 'U' DESIGN WIRE PULLS. FINISH: SATIN / BRUSHED CHROME. ADJUST ALL HINGES & DRAWERS FOR PROPER OPERATION.

EX'G. OVEN / RANGE RE-INSTALLED: 30" WIDE. EXTEND GAS PIPING TO NEW OVEN LOCATION.

PROVIDE HOOD, 10" X 3" FLAT METAL DUCT, 100 CFM FAN. ROUTE DUCT WITHIN UPPER CABINETS. DISCHARGE TO THE EXTERIOR.

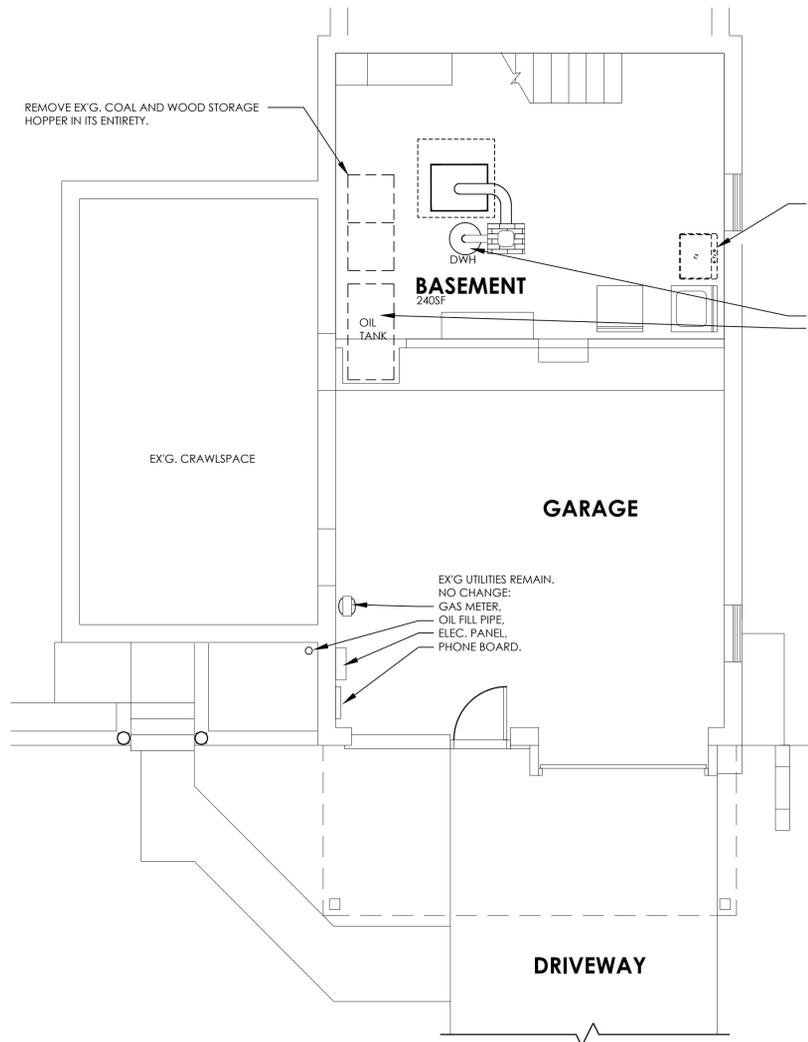
WALL INFILL: STUDS AT 12" O.C. MAX. IN EX'G. OPENING. GYP. WALLBOARD OVERLAY OVER ENTIRE EX'G. WALLS AT KITCHEN SIDE. GYP. WALLBOARD ON HALL SIDE FLUSH WITH EX'G. GYP. FINISH. BLEND JOINT COMPOUND FOR A FLUSH TRANSITION TO MAKE INFILL INDISTINGUISHABLE FRO REMAINDER OF HALL WALL.



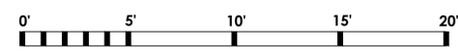
4 BATHROOM - INTERIOR ELEVATIONS
1/2" = 1'-0"

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT -- CHANGES AS NOTED <input type="checkbox"/> AS BUILT -- NO CHANGES				
CONTRACTOR			PROJECT COORDINATOR	
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TITLE	DATE			TITLE
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING				CONTRACT NUMBER 21-527
HOUSE REFURBISHMENT 41 CHURCH STREET BEDFORD, NEW YORK				SHEET NUMBER A-3
KITCHEN & BATH. -- PLAN & ELAV. -- NEW WORK				SHEET NO. 4 OF 7
SCALE: 1/2" = 1'-0" DATE: 11/4/21				REV. NO. 0
DPW FILE NO. 61-00-A-133				

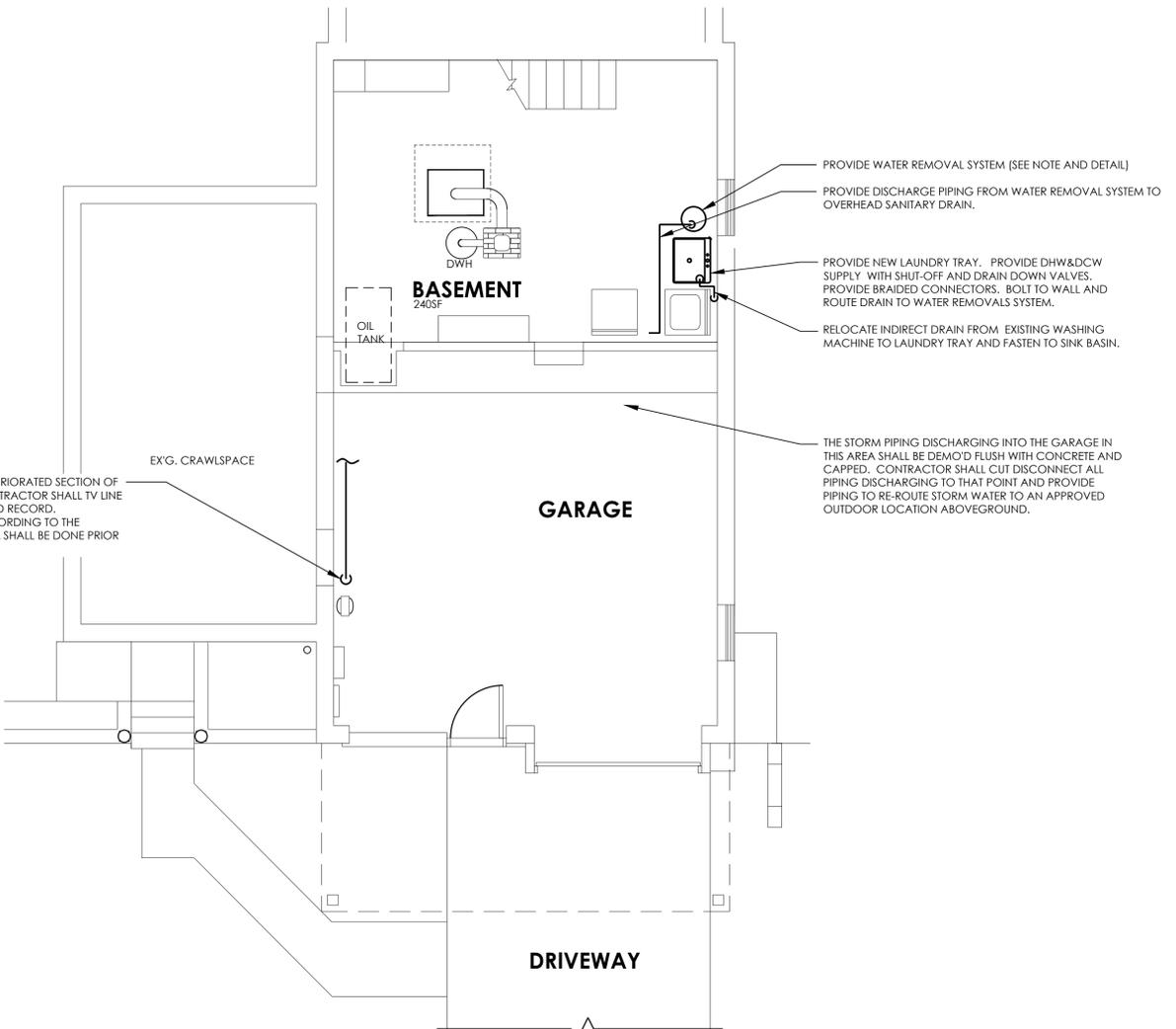
IN CHARGE OF ADAM KAPLINSKI, RA
CHECKED BY ADAM KAPLINSKI, RA
MADE BY JOHN W. LEVY, RA



A PLUMBING DEMO PLAN
1/4" = 1'-0"



- DRAINAGE NOTES:**
- CONTRACTOR SHALL "TV" THE EMBEDDED SANITARY MAIN TO INVESTIGATE THE EXTENT OF THE DAMAGE. AFTER DAMAGED PIPE IS REPAIRED, THE WASTE/STORM PIPING SYSTEM SHALL BE SUBJECTED TO A LEAK TEST. ANY LEAKS THAT PRESENT THEMSELVES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT NO ADDITIONAL COST.
 - CONTRACTOR SHALL SAW-CUT AS REQUIRED TO REPAIR AS NEEDED ALL DAMAGED WASTE AND STORM PIPING EVEN EMBEDDED IN CONCRETE IN ADDITION TO ALL OBVIOUSLY DAMAGED WASTE AND STORM PIPING EXPOSED.
 - CONTRACTOR SHALL RECONNECT ALL LEADERS TO GUTTER AND RE-FASTEN AND SUPPORT ALL LEADERS AS REQUIRED TO CARRY RAINFALL TO AN APPROVED LOCATION ABOVEGROUND.



B PLUMBING PLAN
1/4" = 1'-0"

PLUMBING EQUIPMENT & NOTES:

- WATER REMOVAL SYSTEM:** PROVIDE MODEL WRSC-6, 1/3 HP, 45GPM @ 5 FT OF HEAD, LITTLE GIANT SUBMERSIBLE UTILITY PUMP, WATER REMOVAL SYSTEM WITH 3-1/2 GAL. TANK & 8 FT POWER CORD BY FRANKLIN ELECTRIC CO. OR EQUAL (SEE DETAIL). TIE-IN EXISTING LAUNDRY SINK. ROUTE DISCHARGE PIPE TO EXISTING 4" SANITARY PIPE WITH LONG SWEEP SANITARY WYE CONNECTION.
- LAUNDRY TRAY:** PROVIDE UTILITUB LAUNDRY/UTILITY TUB MODEL 19CF AS MANUFACTURED BY E.L. MUSTEE & SONS, INC. OR APPROVED EQUAL. TUB SHALL BE ONE-PIECE MOLDED CONSTRUCTION USING STRUCTURAL THERMOPLASTICS WITH MATCHED METAL MOLDS UNDER EXTREME HEAT AND PRESSURE. TUB TO INCLUDE FAUCET WITH 6" SWING SPOUT, TWO 20" FLEXIBLE SUPPLY LINES AND SEALANT TAPE, STANDARD 1-1/2" P-TRAP WITH 12" TAILPIECE, INTEGRALLY MOLDED DRAIN ASSEMBLY, STOPPER AND HEAVY GAUGE FINISHED STEEL LEGS WITH BUILT-IN LEVELERS, 18 GALLON CAPACITY TUB, 13" DEEP, SHALL MEET ANSI Z 124-2011. COLOR: WHITE. WEIGHT: 24 LBS.

PLUMBING PIPING AND MATERIAL & NOTES:

- DOMESTIC WATER PIPING:** ASTM B 88, TYPES L, WATER TUBE, DRAWN TEMPER, 95-5 LEADLESS SOLDER OR PRESS FITTINGS. PRESS FITTINGS SHALL BE NIBCO OR EQUAL SUITABLE FOR USE IN PLUMBING OR MECHANICAL APPLICATIONS MAXIMUM OPERATING PRESSURE OF 300 PSI. CONTRACTOR SHALL INSURE TOOLS AND JAWS USED ARE COMPATIBLE FOR MATERIAL.
- PIPE INSULATION:** ARMACELL IMCOA W SS OR EQUAL. SEE BELOW FOR DIMENSIONS.
- WASTE AND VENT:** SERVICE WT, CAST IRON WITH PUSH-ON RUBBER GASKETS OR NO-HUB PIPE WITH HUSKY HEAVY COUPLINGS FOR ABOVE GRADE PIPING.
- PRESSURE REDUCING VALVE (PRV):** EXISTING TO REMAIN.
- ANGLE SILLCOCK VALVE:** BASED ON NIBCO MODEL# 763-CL-LS OR APPROVED EQUAL.
- CHECK VALVE:** PROVIDE NEW NIBCO PC-480-Y-LF LEAD-FREE BRONZE RING CHECK VALVE MSS-SP-139 OR APPROVED EQUAL.
- VACUUM BREAKER:** INSTALL VACUUM BREAKERS ON WATER SUPPLY PIPING TO ALL EXISTING HOSE BIBS. VACUUM BREAKER SHALL BE WAITS SERIES 289 OR APPROVED EQUAL.
- EXISTING S-TRAPS:** REMOVE S-TRAPS WHERE THEY EXIST. PROVIDE ISLAND VENT FITTING.

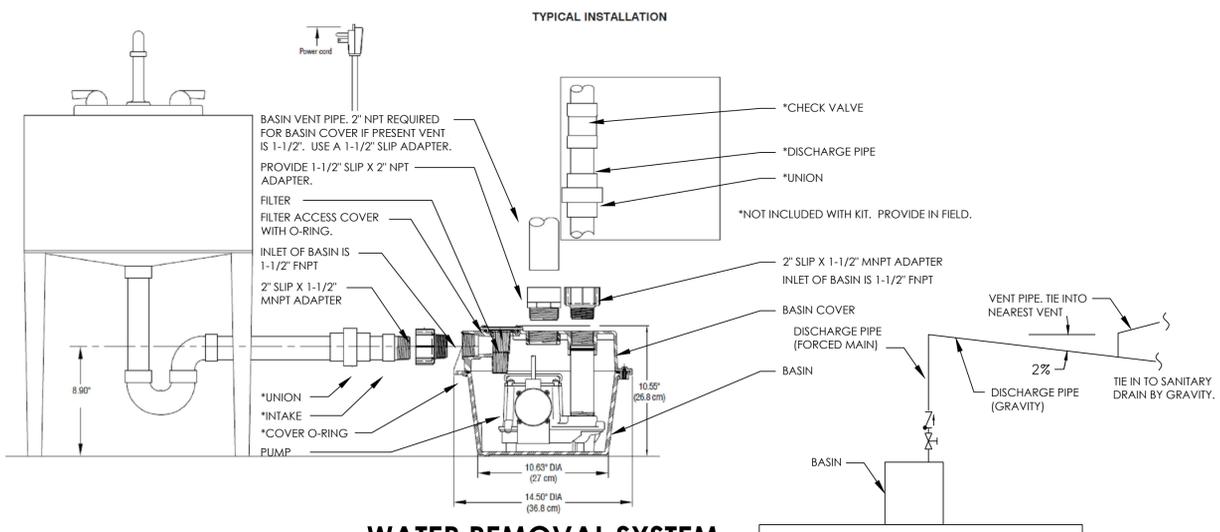
INSULATION SCHEDULE

PIPING	PIPE SIZE	INSULATION THICKNESS
DOMESTIC HOT WATER	UP TO 1"	3/4"
DOMESTIC HOT WATER	ABOVE 1"	1"
DOMESTIC COLD WATER	UP TO 1"	1/2"
DOMESTIC COLD WATER	ABOVE 1"	1/2"

TESTING NOTES:

- POTABLE WATER PIPING:** WATER SERVICE IS NOT CURRENTLY CONNECTED TO UTILITY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY, WATER SERVICE CONNECTION. CONTRACTOR SHALL PRESSURE TEST ENTIRE BUILDING FOR LEAKS. PATCH WHERE LEAKS ARE FOUND AND DISINFECT ENTIRE PIPING SYSTEM PRIOR TO CONNECTING TO PUBLIC WATER SUPPLY.
- SANITARY DRAINAGE PIPING:** CONTRACTOR SHALL TEST ENTIRE BUILDING SANITARY DRAINAGE FOR LEAKS IN AN APPROVED MANNER. CONTRACTOR SHALL REPAIR ALL PROBLEM AREAS THROUGH ANY MEANS REQUIRED INCLUDING BUT NOT LIMITED TO SAW-CUTTING OF SLABS AND WALLS.
- GAS PIPING:** CONTRACTOR SHALL PRESSURE TEST FOR LEAKS ACCORDING TO NATIONAL FUEL GAS CODE. COORDINATE WITH ENGINEER TO WITNESS TEST 72 HOURS IN ADVANCE.

IN CHARGE OF JAI PUNNOOSE, P.E.
 CHECKED BY VINCENT LEONE, P.E.
 MADE BY VINCENT LEONE, P.E.



WATER REMOVAL SYSTEM
NO SCALE

NOTE: EXISTING BOILER CONTAINS TANKLESS HEATER AND TIES IN WITH DISCHARGE OF WATER HEATER FOR REDUNDANT DOMESTIC WATER SERVICE. POTABLE WATER TAP TO EXISTING TANKLESS HEATER SHALL BE REMOVED AND CAPPED. TIE INTO DOMESTIC WATER DISTRIBUTION FROM TANKLESS WATER HEATER SHALL BE DISCONNECTED AND CAPPED.

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

RECORD DRAWING CERTIFICATION

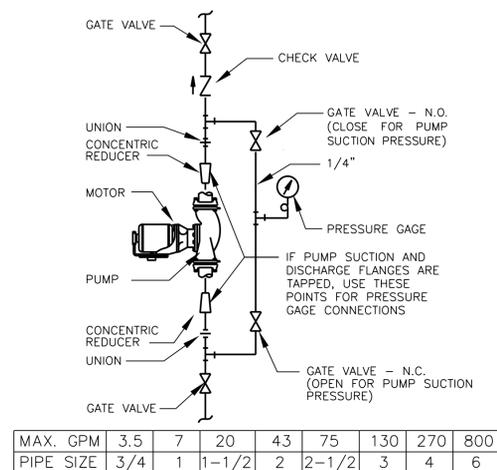
AS BUILT - CHANGES AS NOTED
 AS BUILT - NO CHANGES

CONTRACTOR		PROJECT COORDINATOR	
NAME _____	NAME _____	NAME _____	NAME _____
SIGNATURE _____	SIGNATURE _____	SIGNATURE _____	SIGNATURE _____
TITLE _____	TITLE _____	TITLE _____	TITLE _____
DATE _____	DATE _____	DATE _____	DATE _____

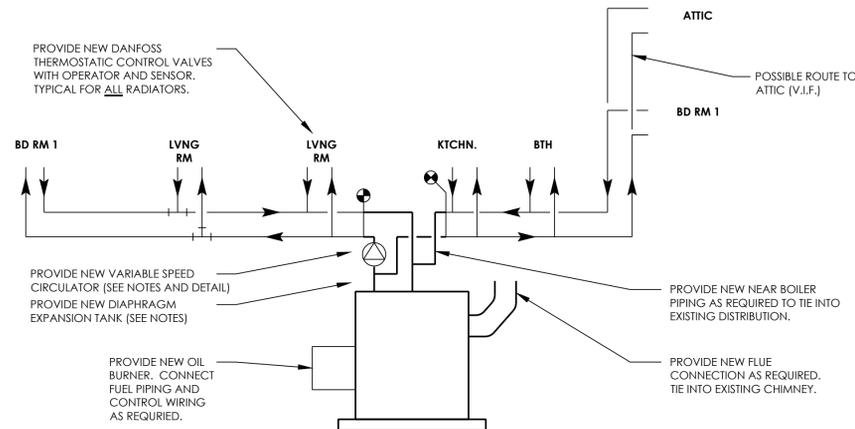
WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS
 DIVISION OF ENGINEERING

HOUSE REFURBISHMENT
 41 CHURCH ST.
 BEDFORD, NEW YORK
 PLUMBING PLAN

CONTRACT NUMBER 21-527	SHEET NUMBER P-1
SHEET NO. 5 OF 7	
SCALE: 1/4" = 1'-0" DATE: 11/4/21	
DPW FILE NO. 61-00-P-134	REV. NO. 0



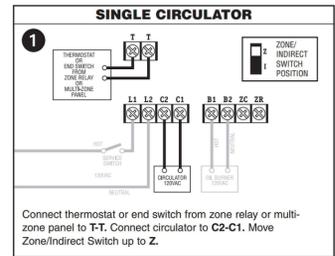
IN-LINE PUMP DETAIL 1
SCALE: NONE M-1



BOILER SCHEMATIC 2
SCALE: NONE M-1

- BOILER NOTES:**
1. PROVIDE LOW POINT DRAINS IN ACCESSIBLE LOCATIONS.
 2. MAINTAIN MANUFACTURER'S SERVICE CLEARANCES AND CLEARANCES TO COMBUSTIBLES.
 3. SEE SPECIFICATIONS FOR DETAILS ON ALL EQUIPMENT NOT FOUND HEREIN.
 4. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THE NECESSARY ADJUSTMENTS FOR THE SUCCESSFUL INSTALLATION AND OPERATION OF THE EQUIPMENT.
 5. CONTRACTOR SHALL CONFIRM DIMENSIONS FOR RIGGING ALL EQUIPMENT INTO PLACE. CONTRACTOR IS RESPONSIBLE FOR ANY DISASSEMBLING THAT MAY BE NEEDED.
 6. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL MATERIAL NECESSARY TO FACILITATE FINAL LAYOUT OF EQUIPMENT.

COMBUSTION AIR REQUIREMENT:
 NATIONAL FIRE CODE NFPA 31 3.3.14: 50FT³ PER MBH INPUT TO GAS ALL BURNING APPLIANCES.
 AREA * HEIGHT TO JOIST = VOLUME (INCLUDING SPACE BETWEEN JOISTS)
 240 FT² * 7'0" = 1,680 FT³. 1,680FT³/50FT³ = 34 MBH SUPPORTED BY SPACE. NATURAL GAS WATER HEATER + DRYER. SPACE IS CONFINED; OUTSIDE AIR COMBUSTION IS REQUIRED.
COMBUSTION AIR: COMBUSTION AIR SHALL BE PROVIDED FOR OIL FIRED BOILER(112MBH), GAS FIRED WATER HEATER(40MBH) AND GAS FIRED CLOTHES DRYER(22MBH).PROVIDE (QTY.2)-89 IN² FREE AREA OPENINGS TO THE OUTDOORS ONE OPENING SHALL BE DUCTED TO WITHIN 12" OF THE FLOOR. OPENINGS SHALL BE PROTECTED WITH LOUVERS AND 1/4" MESH INSECT SCREEN. DUCT SHALL BE 10x10 24 GA. GALVNAIZED INTERNALLY LINED WITH ANTI-MICROBIAL INSULATION.
BUILDING THERMAL ENVELOPE NOTES:
 OIL FIRED BOILER, LOCATED IN BASEMENT, SHALL BE PROVIDED WITH OUTDOOR AIR DIRECTLY FROM 2 OPENINGS TO THE OUTSIDE. BASEMENT SHALL BE CONSIDERED OUTSIDE OF BUILDING THERMAL ENVELOPE AND THE CEILING SHALL BE PROVIDED WITH R-19 INSULATION (NYS RC 2020 N1102.4.4). ALL DOMESTIC AND HEATING PIPES LOCATED WITHIN BASEMENT SHALL BE INSULATED AS BEING LOCATED IN UNCONDITIONED SPACE WITH R-VALUE NO LESS THAN R-3 (NYS RC 2020 N1103.4). SEAL ALL OPENINGS TO CONDITIONED SPACE ABOVE IN AN APPROVED MANNER. PROVIDE GASKETING TO BASEMENT DOOR TO MINIMIZE INFILTRATION BETWEEN BASEMENT AND KITCHEN.

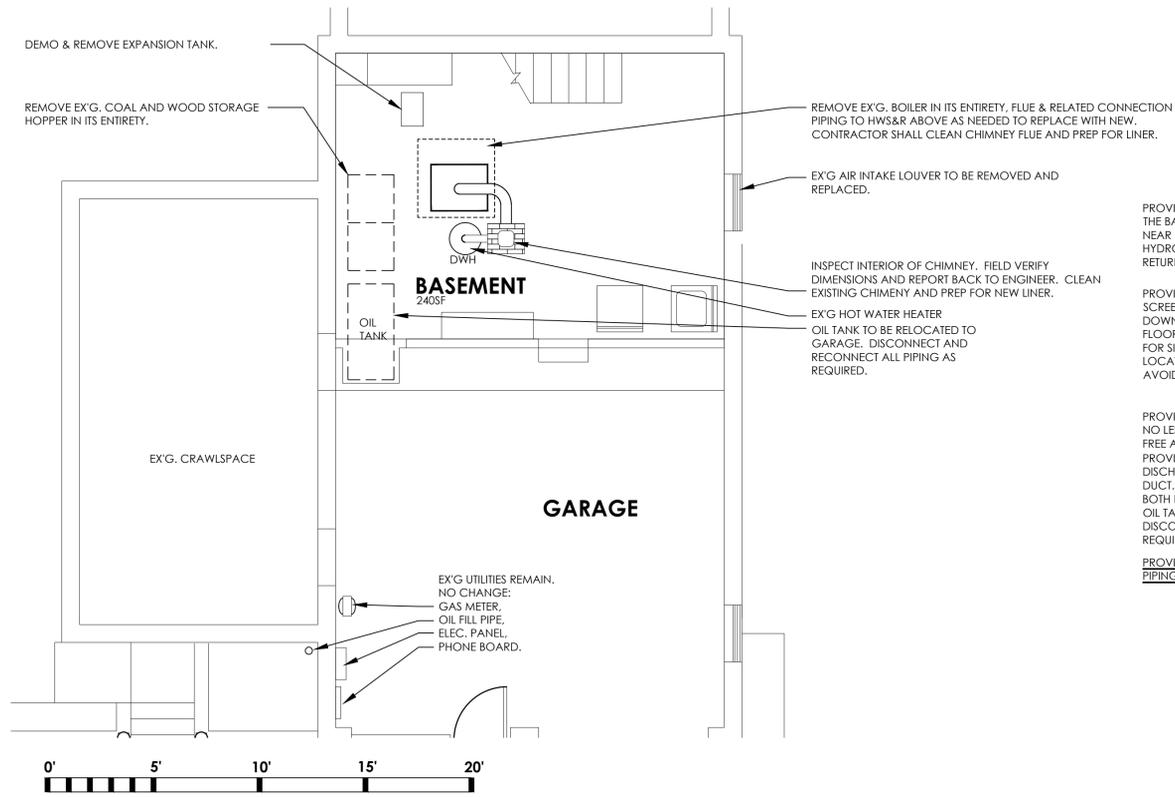


SYMBOL & ABBREVIATIONS			SYMBOL & ABBREVIATIONS		
SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
					ANGLE GLOBE VALVE
-	AFF	ABOVE FINISHED FLOOR			ANGLE GATE VALVE
-	BTU	BRITISH THERMAL UNIT			T&P RELIEF VALVE
-	CFM	CUBIC FEET PER MINUTE			FILTER
-	DIA. OR ø	DIAMETER			BALL VALVE
-	EWT	ENTERING WATER TEMPERATURE			PRESSURE GAGE
-	GPM	GALLONS PER MINUTE			CHECK VALVE
-	LF	LINEAR FEET			UNION
-	LWT	LEAVING WATER TEMPERATURE	---	EX.	EXISTING TO REMAIN
-	MBH	1000 BRITISH THERMAL UNITS PER HOUR	---	REL.	REMOVE AND RELOCATE
-	NC	NORMALLY CLOSED	---	NEW	NEW WORK
-	NO	NORMALLY OPEN	---	DEM.	EXISTING TO BE REMOVED
-	TYP.	TYPICAL	---		
-	WMS	WIRE MESH SCREEN	---		

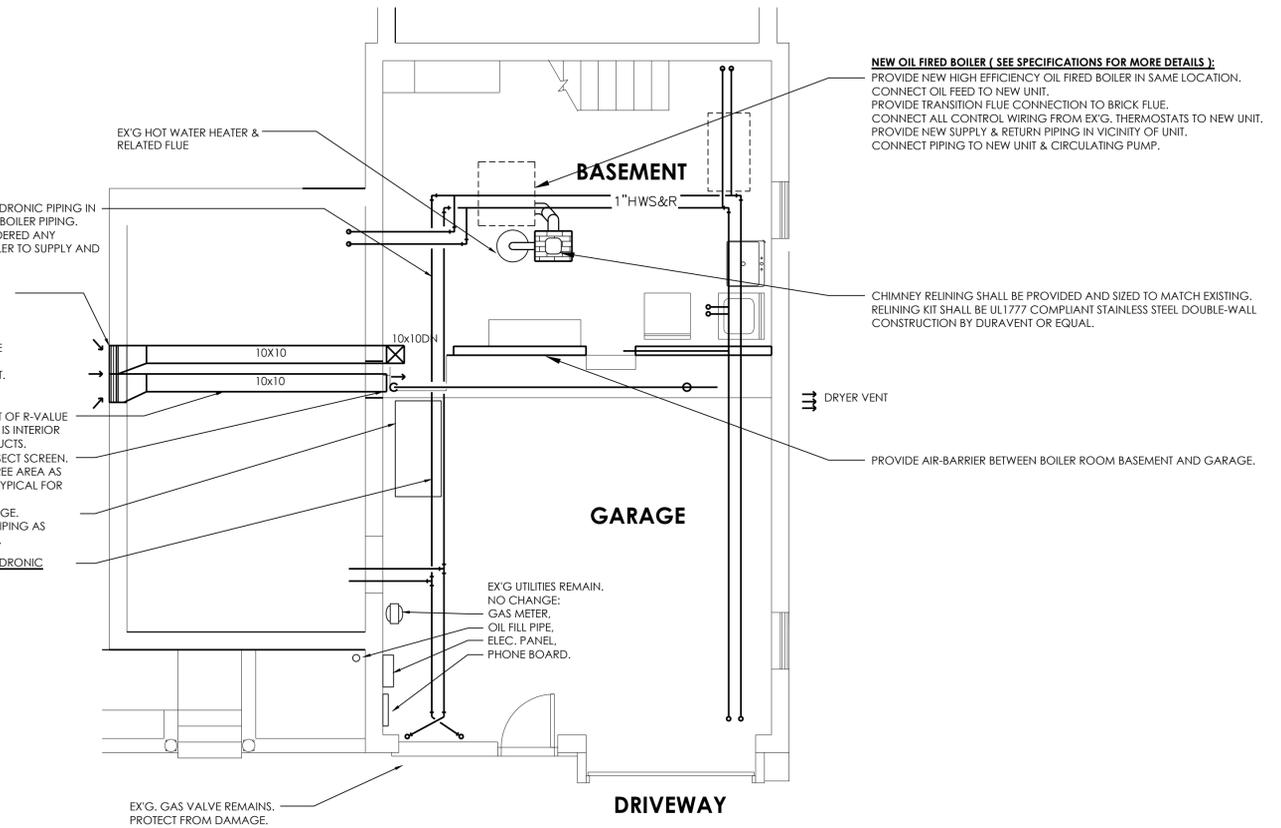
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IN CHARGE OF JAI PUNNOOSE, P.E.
 CHECKED BY VINCENT LEONE, P.E.
 MADE BY VINCENT LEONE, P.E.

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
<input type="checkbox"/> AS BUILT - CHANGES AS NOTED <input type="checkbox"/> AS BUILT - NO CHANGES				
CONTRACTOR			PROJECT COORDINATOR	
NAME	SIGNATURE	DATE	NAME	SIGNATURE
TITLE	TITLE	DATE	TITLE	DATE
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING			CONTRACT NUMBER 21-527	SHEET NUMBER M-1
HOUSE REFURBISHMENT 41 CHURCH ST. BEDFORD, NEW YORK MECHANICAL DETAILS & NOTES			SHEET NO. 6 OF 7	SCALE: AS SHOWN DATE: 11/4/21
			DPW FILE NO. 61-00-M-135	REV. NO. 0



A MECHANICAL DEMO PLAN
1/4" = 1'-0"



B MECHANICAL PLAN
1/4" = 1'-0"

MECHANICAL VENTILATION NOTE:

1. **MECHANICAL VENTILATION SYSTEM:** WHERE MECHANICAL VENTILATION SYSTEM IS REQUIRED BY BLOWER DOOR TEST, A WHOLE HOUSE ENERGY RECOVERY VENTILATOR SHALL BE PROVIDED (FRIGATE ERV 80 BY VENT-US OR EQUAL). TOTAL VENTILATION AIRFLOW FOR RESIDENCE SHALL BE 40 CFM. ERV SHALL BE PROVIDED WITH CONTROLS THAT ENABLE MANUAL OVERRIDE. ERV SHALL BE OPERATED BY AN INLINE FAN WITH A MINIMUM EFFICIENCY OF 1.2CFM/WATT. [NYSRC2020:M1103.6.1] ERV SHALL BE LOCATED IN ATTIC CRAWL SPACE, WITH OUTDOOR & EXHAUST AIR DUCTED DISCHARGES/REGISTERS TO/ FROM ATTIC AND MAIN FLOORS. ALL PENETRATIONS IN THERMAL ENVELOPE SHALL BE SEALED ACCORDING TO CODE. ALL PORTIONS OF DUCT OUTSIDE OF THE THERMAL ENVELOPE (IN ATTIC CRAWL SPACES) SHALL BE INSULATED TO A MINIMUM OF R-6 DUCT INSULATION [NYSRC2020:M1103.6.1]

1.1. **BLOWER DOOR TEST:** CONTRACTOR SHALL SUBJECT THE BUILDING TO A BLOWER DOOR TEST. TEST SHALL BE CONDUCTED BY A BPI CERTIFIED CONTRACTOR. BLOWER DOOR TEST SHALL BE IN ACCORDANCE WITH NYS ENERGY CODE. WHERE INFILTRATION IS FOUND TO BE LESS THAN 5 AIR CHANGES PER HOUR, MECHANICAL VENTILATION SYSTEM SHALL BE INSTALLED. REPORT OF BLOWER DOOR TEST SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.

GENERAL NOTES:

- SAFETY:** CONTRACTOR IS RESPONSIBLE TO PROVIDE FOR THE SAFETY OF ITS WORKERS, AND THE PUBLIC AS PER ALL LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS.
- GENERAL PROVISIONS:** THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, PIPING, VALVES, AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION, INCLUDING HOT WATER AND COLD WATER ISOLATION VALVES FOR EACH PIECE OF EQUIPMENT. CONTRACTOR SHALL PROVIDE ALL ITEMS SHOWN IN MANUFACTURER'S DOCUMENTATION THAT ARE CALLED OUT TO BE FIELD SUPPLIED IN ORDER TO PROVIDE A COMPLETE INSTALLATION.
- DEMOLITION:** REMOVE ABANDONED PIPING BACK TO MAIN OR RISER AND CAP. CAPPING AND PLUGGING OF PIPING SHALL BE DONE USING THE SAME MATERIAL AS THE PIPING. ALL DEMOLITION AND CONSTRUCTION MATERIAL DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- FIELD COORDINATING EXACT LOCATIONS:** DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ONLY. EXACT LOCATIONS OF PIPING IN FLOORS, WALLS, CEILINGS, AND CHASES SHALL BE COORDINATED WITH THE EXISTING CONDITIONS IN THE FIELD. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING SIZE AND LOCATION OF ALL EXISTING PIPING IN FIELD BEFORE SUBMITTING SHOP DRAWINGS OR COMMENCING WORK.
- CODE COMPLIANCE:** ALL REGULATIONS, RULES, ETC., OF ALL STATE, COUNTY AND LOCAL GOVERNMENTS, AND ALL UTILITY AGENCIES SHALL BE FOLLOWED BY THE CONTRACTOR. ALL WORK SHALL BE DONE IN COMPLIANCE WITH NFPA, THE N.Y. STATE AND THE LOCAL CODES.
- LICENSES:** ALL WORK ON DOMESTIC AND GAS PIPING SYSTEM SHALL BE BY PLUMBER LICENSED IN WESTCHESTER COUNTY. A COPY OF ALL LICENSES SHALL BE SUBMITTED TO OWNER AND ALL FEES PAID.
- HANGERS AND SUPPORTS:** PROVIDE SUFFICIENT CLEVIS TYPE HANGERS, SUPPORTS, RODS, BRACES, ETC. BY OATEY OR EQUAL TO PROPERLY SUPPORT PIPING. INSTALL HANGERS OVER INSULATION.
- PIPE PENETRATIONS:** PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL.
- RIGGING AND ASSEMBLY:** CONTRACTOR SHALL CONFIRM DIMENSIONS FOR RIGGING ALL EQUIPMENT INTO PLACE. CONTRACTOR IS RESPONSIBLE FOR ANY DISASSEMBLING THAT MAY BE NEEDED. GENERAL HEAT PIPING & DISTRIBUTION REMAINS.
- START-UP:** THE CONTRACTOR IS RESPONSIBLE FOR MAKING THE NECESSARY ADJUSTMENTS FOR THE SUCCESSFUL INSTALLATION AND OPERATION OF THE EQUIPMENT.

IN CHARGE OF JAI PUNNOOSE, P.E.
CHECKED BY VINCENT LEONE, P.E.
MADE BY VINCENT LEONE, P.E.

MECHANICAL NOTES:

- FIRESTOP:** AT ALL RATED PARTITIONS.
- LOW POINT DRAINS:** PROVIDE LOW POINT DRAINS IN ACCESSIBLE LOCATIONS.
- CLEARANCES:** MAINTAIN MANUFACTURER'S SERVICE CLEARANCES AND CLEARANCES TO COMBUSTIBLES.
- BOILER:** REMOVE EX'G. OIL FIRED BOILER AND REPLACE ACCORDING TO SPEC.
- FLUE & CHIMNEY:** INSPECT FLUE & CONNECTION TO CHIMNEY FOR SOUND CONDITION. PROVIDE CHIMNEY FLUE LINER AND WEATHERCAP PER SPECIFICATIONS.
- OIL TANK:** EX'G. OIL TANK, FILL PIPE & VENT REMAIN. INSPECT THESE ITEMS FOR SOUND CONDITION. CORRECT & REPAIR ANY DEFICIENCIES.
- PIPING:** CONNECT ALL PIPING. INSTALL NEW PIPING AT TRANSITIONS FROM EX'G. PIPING TO NEW EQUIPMENT.
- DOMESTIC WATER HEATER:** EX'G. GAS-FIRED WATER HEATER REMAINS. INSPECT UNIT, FLUE & CONNECTION TO CHIMNEY FOR SOUND CONDITION.
- HOUSEKEEPING PAD:** PROVIDE HOUSE KEEPING PAD FOR NEW BOILER (4" HIGH AND 6" BEYOND EQUIPMENT ON ALL SIDES). MASONRY BLOCKS OR PAVERS WILL NOT BE PERMITTED.
- TESTING:** PRESSURE TEST ALL HYDRONIC PIPING FOR LEAKS AND REPAIR AS NECESSARY IN THE PRESENCE OF COUNTY REPRESENTATIVE. TEST SHALL BE CONDUCTED AT 100 PSI FOR NO LESS THAN 15 MINUTES. [NYSRC2020:M2101.10]

CONTROL NOTES:

- THERMOSTATIC CONTROL:** CONTRACTOR SHALL PROVIDE NEW 7-DAY PROGRAMMABLE THERMOSTAT (TYPICAL FOR 1ST FLOOR).
- RADIATOR CONTROL VALVE AND ACTUATOR:** PROVIDE DANFOSS RANDAL LTD. TYPE RA-2000 (RA-FN); SENSORS RA 5060 OR APPROVED EQUAL. TYPICAL FOR ALL RADIATORS IN THE RESIDENCE.
- OUTDOOR RESET:** PROVIDE FUEL SMART HYDROSTAT MODEL 3250-PLUS OR EQUAL WITH TERMP LIMIT, LWCO CONTROL WITH THERMAL TARGETING AND OUTDOOR RESET CONTROL. CONTRACTOR SHALL PROVIDE NEW OUTDOOR RESET AND ASSOCIATED HYDROLEVEL OS-100 OUTDOOR SENSOR KIT (TEMPERATURE SENSOR INSTALLED ON THE NORTH SIDE OF THE BUILDING). CONTRACTOR SHALL PROVIDE SENSOR CABLE. [NYSRC 2020 N1103.2]
- POWER AND CONTROL WIRING:** CONTRACTOR SHALL PROVIDE ALL POWER, CONTROL WIRING, AND CONDUIT AS PART OF A COMPLETE BOILER/BURNER AND ASSOCIATED CONTROL SYSTEM INCLUDING BUT NOT LIMITED TO CONDUIT AND WIRE BETWEEN BURNER, BOILER MOUNTED CONTROLS, LIMITS, ETC.

PIPING NOTES:

- WATER PIPING:** TYPE "L" COPPER AND WROUGHT COPPER FITTINGS, 95.5 LEADLESS SOLDER OR PRESS FITTINGS. PRESS FITTINGS SHALL BE NIBCO OR EQUAL SUITABLE FOR USE IN PLUMBING OR MECHANICAL APPLICATIONS. CONTRACTOR SHALL INSURE TOOLS AND JAWS USED ARE COMPATIBLE FOR MATERIAL.
- INSULATION:** PIPE INSULATION: SELF SEALING TUBE PIPE INSULATION BY M-D BUILDING PRODUCTS OR EQUAL. INSULATION SHALL HAVE AN R-VALUE OF NOT LESS THAN R-3. [NYSRC2020:M1103.4]
- JACKETING:** FACTORY APPLIED, WHITE, FLAME RETARDANT, ALL SERVICE (AS-J) VAPOR BARRIER JACKET OF .001" ALUMINUM FOIL LAMINATED TO KRAFT PAPER WITH A FLAME RETARDANT SNUFFER TYPE ADHESIVE REINFORCED WITH GLASS FIBERS AND HAVING A SELF-SEALING LAP. PROVIDE 2" LONGITUDINAL LAP AND 4" CIRCUMFERENTIAL SEALING STRIPS. PERMEABILITY .02 PERM; SCHULLER MICRO 10K AP-T PLUS, OR APPROVED EQUAL.
- FLOW CHECK VALVE:** CONTRACTOR SHALL FURNISH NEW NIBCO PF-413-Y PRESS SYSTEM BRONZE CHECK VALVE MSS-SP-80 OR APPROVED EQUAL.
- PRESSURE RELIEF VALVE:** CONTRACTOR SHALL FURNISH 2 NEW PRVS. BOILER SIDE PRV SHALL BE 50PSI MAX.
- BALL VALVE:** CONTRACTOR SHALL FURNISH TWO-PIECE, FULL-PORT, BRONZE BALL VALVES WITH BRONZE TRIM; MSS-SP-110; 150 PSIG SWP RATING; 600 PSIG CWP RATING; BRONZE BODY MATERIAL; THREADED ENDS; PIPE OR THE SEATS; BRONZE STEM; CHROME-PLATED BRASS BALL
- ISOLATION VALVE:** CLASS 125, NRS BRONZE GATE VALVE; MSS-SP-80, TYPE 1; 200 PSIG CWP RATING; ASTM B 42, BRONZE WITH INTEGRAL SEAT AND SCREW-IN BONNET; THREADED OR SOLDER JOINTS; BRONZE STEM; SOLID WEDGE BRONZE DISC; ASBESTOS FREE PACKING; MALLEABLE IRON HAND-WHEEL.

EQUIPMENT NOTES:

- OIL FIRED BOILER:** CONTRACTOR SHALL PROVIDE NEW WEIL MCLAIN WGO-3RD CHIMNEY VENT ENERGY STAR OIL-FIRED BOILER OR EQUAL. BURNER SHALL BE SIZED FOR AN OUTPUT OF 85 MBH; .8 GPH BURNER INPUT RATING WITH AN ANNUAL FUEL USAGE EFFICIENCY (AFUE) OF 87% ACCORDING TO USDOE. [NYS RC 2020 N1103.7]. 6" VENT CONNECTION SIZE; 1.25" SUPPLY; 1" RETURN.
- CIRCULATOR:** CONTRACTOR SHALL FURNISH NEW ARMSTRONG 180203-606, MODEL COMPASS 20-20CI, CAST IRON WET ROTOR CIRCULATOR WITH CHECK VALVE, (VARIABLE SPEED), FLANGED CONNECTION, 115 VOLTS, 0-20 GPM OR EQUAL. SET TO AUTO OR PROPORTIONAL PRESSURE MODES. CIRCULATOR TO REDUCE SPEED WHEN THE VALVES IN THE SYSTEM CLOSE AND THE HEAT DEMAND IS REDUCED.
- RADIATORS:** CONTRACTOR SHALL RE-ARRANGE EXISTING RADIATORS AND BALANCE FLOWS ACCORDING TO SCHEDULE. MODIFY PIPING AS REQUIRED. WHERE PIPING IS EXPOSED, PROVIDE RADIATOR COVERS. SIZE COVERS LARGE ENOUGH TO ENCLOSE PIPING.
- EXPANSION TANK:** DEMO EXISTING EXPANSION TANK. PROVIDE NEW BASED ON BELL & GOSSETT MODEL HFT-30 BLADDER TANK, 2.5 GALLONS ACCEPTANCE VOLUME.
- CIRCUIT SETTER VALVE:** BASED ON BELL & GOSSETT MODEL CB-3/4LF OR APPROVED EQUAL.
- CONCRETE PADS:** PROVIDE NEW 4" HIGH CONCRETE PADS UNDER THE NEW BOILERS AND NEW HOT WATER HEATING PUMPS. CONCRETE SHALL BE NORMAL WEIGHT AGGREGATE USING CEMENT CONFORMING TO ASTM C150 AND WASHED CRUSHED GRAVEL AND/OR SAND. CURBS SHALL BE REINFORCED WITH WIRE FABRIC CONFORMING TO ASTM A185. DOWEL INTO EXISTING SLAB AND EXISTING BASES USING #4 DOWELS PLACED 12" ON CENTER. PRIOR TO POURING CONCRETE THE EXISTING FLOOR SLABS SHALL BE THOROUGHLY PREPARED BY REMOVING ALL DIRT, OIL, GREASE AND PAINT WITH SUITABLE CHEMICAL CLEANING, ROUGHEN SURFACES AND APPLY A SUITABLE CONCRETE BONDING AGENT. CONCRETE TO BE 5000 PSI MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS. EXISTING PADS SHALL BE CHOPPED OUT. CONTRACTOR SHALL INSTALL NEW METAL RAIL IN BOILER CONCRETE PADS FOR MOUNTING BOILERS AND ALLOW FOR SMOOTH ASSEMBLY AND BOLT MAKE-UP OR BOILER SECTIONS PER MANUFACTURER REQUIREMENTS.
- HIGH CAPACITY AIR VENT:** BASED ON SPIROVENT JR-3 JUNIOR MICROBUBBLE SEPARATOR OR APPROVED EQUAL.
- LOW CAPACITY AIR VENT:** BASED ON BELL & GOSSETT MODEL 97 AUTOMATIC AIR VENT OR APPROVED EQUAL.
- REFER TO SPECIFICATION SECTIONS FOR FURTHER DETAILS ON ABOVE MENTIONED EQUIPMENT.
- RANGE HOOD:** REPLACE RANGE VENT HOOD WITH WHIRLPOOL 30" DUCTED RANGE HOOD IN STAINLESS STEEL, MODEL # UXT4230ADS, DUCTED 7" ROUND TO EXTERIOR, OR APPROVED EQUAL. PROVIDE RAIN CAP WITH DAMPER.
- LOUVER:** PROVIDE GREENHECK MODEL FDS-402 OR APPROVED EQUAL. TOTAL FREE AREA SHALL BE 180 in² WITH INSECT SCREEN.

RADIATOR SCHEDULE

RADIATOR TAG	RADIATOR		LOCATION	
	MBH	GPM	EXISTING	NEW
RAD-1	8.25	.85	LIVING	KITCHEN
RAD-2	8.25	.85	LIVING	LIVING
RAD-3	5.1	.55	BED 1	LIVING
RAD-4	5.2	.55	BED 2	ATTIC
RAD-5	1.7	.20	BATH	BED 1
RAD-6	7.6	.80	KITCHEN	BED 2
RAD-7	24.5	2.5	ATTIC	BATH

LEGAL NOTICE:
ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER DIRECTION OF THE LICENSED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE VII, SECT. 69.5 (B) OF NEW YORK STATE LAW.

WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS AND CONDITIONS ON THE JOB. THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
CONTRACTOR		PROJECT COORDINATOR		
NAME	DATE	NAME	DATE	
SIGNATURE		SIGNATURE		
TITLE		TITLE		
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING				CONTRACT NUMBER 21-527
HOUSE REFURBISHMENT 41 CHURCH ST. BEDFORD, NEW YORK MECHANICAL PLAN				SHEET NUMBER M-2
				SHEET NO. 7 OF 7
				SCALE: 1/4" = 1'-0" DATE: 11/4/21
				DPW FILE NO. 61-00-M-136
				REV. NO. 0