

ABBREVIATIONS			
&	= AND	JAN	= JANITOR
∅	= DIAMETER OR ROUND	MAX	= MAXIMUM
ADD'L	= ADDITIONAL	MC	= MECHANICAL CONTRACTOR
AFF	= ABOVE FINISHED FLOOR	MECH	= MECHANICAL
ALT	= ALTERNATE	MIN	= MINIMUM
ARCH.	= ARCHITECTURAL	NTS	= NOT TO SCALE
BLDG	= BUILDING	PC	= PLUMBING CONTRACTOR
CD	= CONDENSATE DRAIN	PV	= PLUMBING VENT
CDP	= CONDENSATE DRAIN PUMP	RD	= ROOF DRAIN
CLG	= CEILING	RL	= ROOF LEADER
CO	= CLEANOUT	SPEC	= SPECIFICATION
CODP	= CLEANOUT DECK PLATE	SP	= SUMP PUMP
COWP	= CLEANOUT WALL PLATE	SS	= STAINLESS STEEL
DCW	= DOMESTIC COLD WATER	STD	= STANDARD
DDC	= DIRECT DIGITAL CONTROL	T&P	= TEMPERATURE & PRESSURE
DHW	= DOMESTIC HOT WATER	TMV	= THERMOSTATIC MIXING VALVE
DHWR	= DOMESTIC HOT WATER RETURN	TYP	= TYPICAL
DN	= DOWN	VTR	= VENT THROUGH ROOF
DWG	= DRAWING	W/	= WITH
EA	= EACH		
ESP	= ELEVATOR SUMP PUMP		
EXIST	= EXISTING		
FD	= FLOOR DRAIN		
GC	= GENERAL CONTRACTOR		
GPH	= GALLON PER HOUR		
GPM	= GALLON PER MINUTE		
HWH	= DOMESTIC HOT WATER HEATER		
ID	= INSIDE DIAMETER (DIM)		
IN	= INCH		
INFO	= INFORMATION		

PIPING LEGEND & SYMBOLS		NOT TO SCALE
	SANITARY WASTE/ROOF LEADER PIPING ABOVE GRADE	
	SANITARY WASTE/STORM PIPING BELOW SLAB	
	SANITARY VENT PIPING	
	DOMESTIC COLD WATER (DCW) PIPING	
	DOMESTIC HOT WATER (DHW) PIPING	
	DOMESTIC HOT WATER RETURN (DHWR) PIPING	
	GAS PIPING	
	CONDENSATE DRAIN PIPING	
	FIRE PROTECTION PIPING	
	VACUUM PIPING	
	PIPE TURN UP	
	PIPE TURN DOWN	
	PIPE TOP CONNECTION	
	PIPE BOTTOM CONNECTION	
	SHUTOFF BALL VALVE	
	POINT OF CONNECTION OF NEW PIPING TO EXISTING	
	POINT OF DISCONNECTION OF DEMOLISHED PIPING FROM EXISTING	

GENERAL CONSTRUCTION NOTES	
1.	REFER TO "MULTIPLE PRIME CONTRACT NOTES" ON DWG. A1.00 & SPECIFICATIONS FOR CONTRACTORS' RESPONSIBILITIES.
2.	GC IS RESPONSIBLE FOR CUTTING OF ALL WALLS, FLOORS, CEILING, ROOF, ETC. FOR ALL PLUMBING PIPE WALL & FLOOR & ROOF PENETRATIONS. PC TO COORDINATE LOCATIONS & SIZES W/ GC.
3.	GC IS REQUIRED TO PATCH (TO MATCH EXISTING), IMMEDIATELY AFTER REMOVAL, ALL WALL, FLOOR, CLG. & ROOF OPENINGS WHERE EXISTING EQUIPMENT, PIPES, ETC. ARE BEING REMOVED. SEAL OPENING WITH 2 HOUR FIRE BARRIER CAULK. SEE GENERAL LOCATIONS ON PLUMBING DEMOLITION PLANS. PC TO COORDINATE W/ GC.
4.	WHERE A FIREPROOFING MATERIAL THAT IS INTEGRAL TO THE RATING OF AN EXISTING FIRE-RATED ASSEMBLY IS REMOVED OR DISTURBED, CONTRACTOR IS REQUIRED TO REPLACE THE MATERIAL TO PRESERVE THE RATING.

PLUMBING SYSTEM MATERIALS	
PIPING:	WASTE & VENT PIPING BELOW GRADE SHALL BE SERVICE WEIGHT CAST IRON PIPE WITH GASKETS, ABOVE GRADE SHALL BE NO-HUB SERVICE WEIGHT CAST IRON PIPE WITH STAINLESS STEEL SHIELDED COUPLINGS.
	ROOF LEADER & STORM PIPING BELOW GRADE SHALL BE SERVICE WEIGHT CAST IRON PIPE WITH GASKETS, ABOVE GRADE SHALL BE NO-HUB SERVICE WEIGHT CAST IRON PIPE WITH STAINLESS STEEL SHIELDED COUPLINGS.
	DOMESTIC HOT AND COLD WATER PIPING SHALL BE TYPE 'L' COPPER PIPE WITH WROUGHT COPPER SOLDER FITTINGS (LEAD-FREE SOLDER). BELOW GRADE SHALL BE TYPE 'K' COPPER WITHOUT FITTINGS.
	GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON THREADED FITTINGS (PIPE SIZES 2-1/2" & SMALLER) AND WELDED FITTINGS (PIPE SIZES 3" & LARGER). PRIME & PAINT W/ TWO (2) FINISH COATS OF YELLOW COLOR PAINT.
	CONDENSATE DRAIN PIPING SHALL BE TYPE "L" COPPER PIPE WITH WROUGHT COPPER SOLDER FITTINGS.
	GAS VENT PIPING SHALL BE SCH. 40 BLACK STEEL PIPE W/ THREADED FITTINGS.
INSULATION:	ALL DOMESTIC HOT AND COLD WATER PIPING SHALL BE INSULATED WITH FIBERGLASS PIPE INSULATION WITH ASJ JACKET. REFER TO SPECIFICATIONS FOR INSULATION THICKNESS.
	ALL ROOF LEADER & STORM PIPING ABOVE GRADE SHALL BE INSULATED WITH FIBERGLASS PIPE INSULATION WITH ASJ JACKET. REFER TO SPECIFICATIONS FOR INSULATION THICKNESS.
	ALL CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1" THICK FLEXIBLE ELASTOMERIC INSULATION (AP ARMAFLEX BLACK LAPSEAL OR APPROVED EQUAL).
CLEANOUTS:	FLOOR: J.R. SMITH #4023S W/ ROUND NICKEL-BRONZE TOP. WALL: J.R. SMITH #4532S W/ ROUND STAINLESS STEEL TOP.
PIPE INSULATION/COVERS:	FOR ALL LAVATORIES, INSTALL PROTECTIVE ENCLOSURE "LAV SHIELD" W/ TAMPER-RESISTANT SCREWS BY TRUEBRO OR APPROVED EQUAL.
VALVES & FITTINGS:	ALL VALVES & FITTINGS FOR DOMESTIC WATER SYSTEM SHALL BE LEAD FREE TYPE IN COMPLIANCE W/ REQUIREMENTS OF NSF/ANSI STANDARD 61. ALL BALL VALVES SHALL BE FULL-PORT TYPE.
PENETRATION FIRESTOPPING:	ALL PIPE PENETRATIONS (AT WALL, FLOOR, CHASE, ETC.) SHALL BE SEALED & CAULKED W/ 2 HR RATED FIRESTOPPING MATERIALS.

PLUMBING GENERAL NOTES	
1.	ALL WORK SHALL CONFORM TO LATEST EDITION OF NEW YORK STATE ENERGY CODE & PLUMBING CODE, AND ALL OTHER APPLICABLE CODES, ORDINANCES, AND LOCAL AUTHORITY HAVING JURISDICTION.
2.	CONTRACTOR SHALL VISIT JOB SITE AND NOTE ALL EXISTING CONDITIONS TO BE MET BEFORE SUBMITTING BID. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND SHOW THE INTENT OF WORK.
3.	CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE EXTENT AND SCOPE OF THE WORK PRIOR TO SUBMITTING BIDS OR COMMENCING WORK.
4.	CONTRACTOR TO PROCURE AND PAY FOR ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT WORK, OBTAIN AND PAY FOR ALL NECESSARY CERTIFICATES OF APPROVAL FOR WORK, AND PAY FOR ANY LEGAL FEES.
5.	INSTALLATION TO COMPLY WITH ALL FEDERAL, STATE, MUNICIPAL LAWS, AND ALL CODES, RULES, ORDINANCES, AND REGULATIONS OF HEALTH, PUBLIC OR OTHER AUTHORITIES CONTROLLING OR LIMITING THE METHODS, MATERIALS TO BE USED OR ACTIONS OF THOSE EMPLOYED IN THE WORK.
6.	CONTRACTOR SHALL REVIEW DRAWINGS AND FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL REPORT ANY DISCREPANCIES, AND ADDRESS ALL QUESTIONS TO ARCHITECT/ENGINEER PRIOR TO COMMENCING WORK.
7.	PIPE INSTALLATION AS FOLLOWS: a) RUN ALL PIPING CONCEALED IN CEILINGS, WALLS AND PARTITIONS. b) ALL PIPING TO BE PITCHED TO LOW POINTS WITH DRAIN VALVES. STORM AND WASTE PIPING SHALL BE SLOPED PER LATEST PLUMBING CODE. c) SLEEVE PIPING THAT PASSES THROUGH WALLS. d) INSTALL PITCH POCKETS & FLASH ALL PIPING THAT PASSES THROUGH ROOF. e) PROVIDE ROD HANGERS WITH CLEVIS PIPE SUPPORT PER SPECIFICATION. f) PROVIDE VALVES REQUIRED FOR COMPLETE CONTROL OF ALL SYSTEMS. STOP VALVES FOR SUPPLY TO ALL FIXTURES TO BE CHROME PLATED WHERE EXPOSED. g) PROVIDE ACCESS DOORS FOR ALL CONCEALED VALVES AND CLEANOUTS. h) CORE-DRILL FLOOR SLABS & PROVIDE 2-HR RATED FIRE STOPPING MATERIALS FOR ALL PIPE PENETRATION THROUGH FLOOR SLABS.
8.	CONTRACTOR TO PERFORM ALL TESTING OF THE PLUMBING WORK IN THE PRESENCE OF THE OWNER. PROVIDE ALL APPARATUS, TEMPORARY CONNECTIONS, AND OTHER REQUIREMENTS TO DO SUCH TESTS. ANY DEFECTS, LEAKS, ETC. WILL BE REPLACED AND TEST REPEATED UNTIL TEST REQUIREMENTS ARE MET.
9.	SUBMIT SHOP DRAWINGS OF ALL WORK TO BE DONE, EQUIPMENT, AND FIXTURES FURNISHED.
10.	PLUMBING CONTRACTOR TO CARRY OUT PERIODIC CLEANING TO REMOVE RUBBISH ETC., TO LEAVE PREMISES FREE FROM DEBRIS, AND DISCARDED MATERIALS. AFTER INSTALLATION, CLEAN FIXTURES, FITTINGS, ETC. AND LEAVE READY FOR USE.
11.	CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF ALL DEMOLISHED MATERIAL OF SITE IN AN APPROVED MANNER.
12.	CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP WORK AREAS UPON COMPLETION OF WORK.

Date: 1/10/20
Checked: AL
Drawn: AL/IM

MICHAEL J. MCGOVERN, P.A.
REGISTERED ARCHITECT
License No. 022237-1

Revisions:

ISSUE TO BID
11/23/20

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW. THESE DOCUMENTS REMAIN THE EXCLUSIVE PROPERTY OF THE ENGINEER, AND MAY NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

LAN ASSOCIATES
engineering • planning • architecture • surveying
252 MAIN STREET, GOSHEN, NEW YORK 10924 (845)615-0350

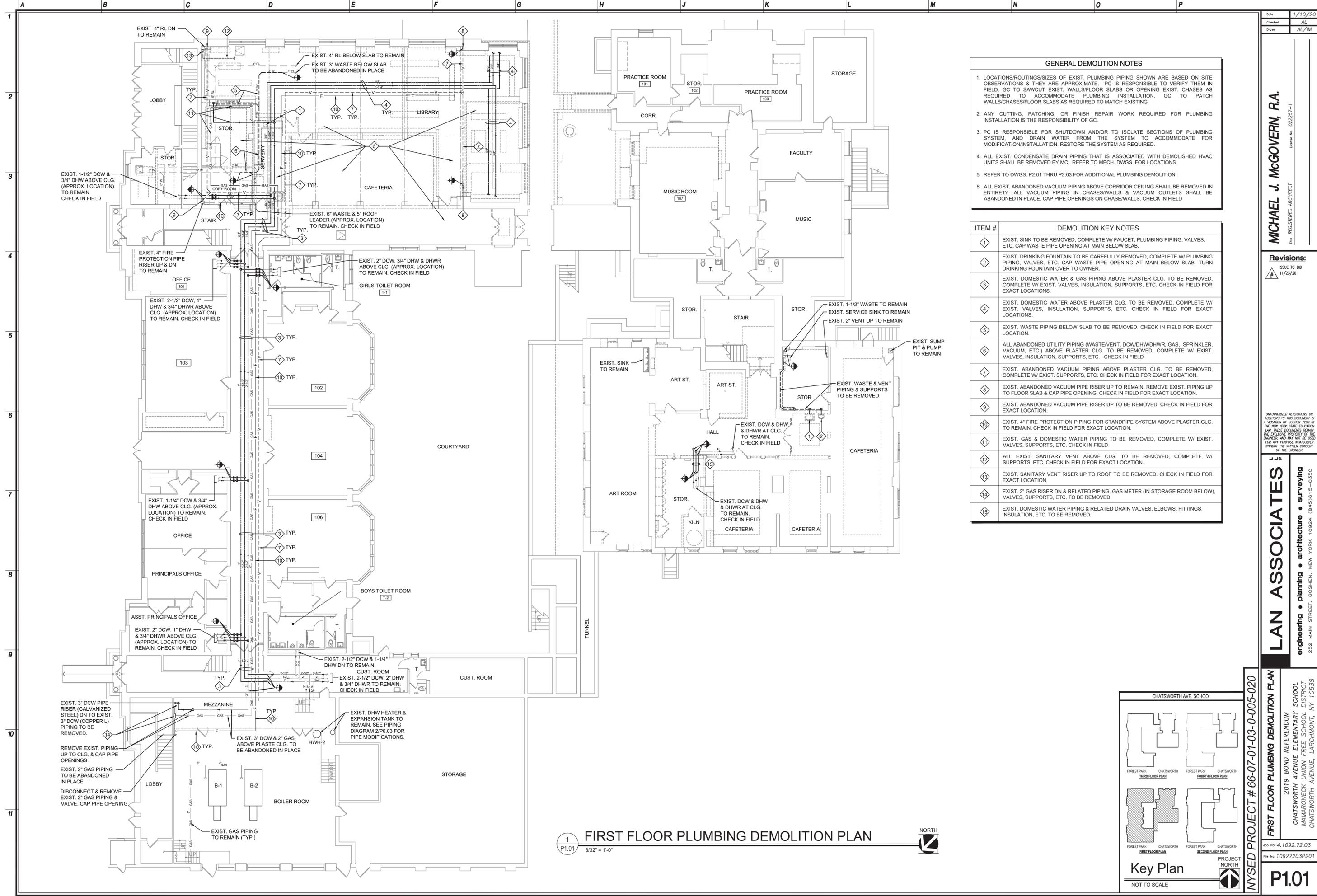
PLUMBING NOTES

2019 BOND REFERENDUM
CHATS WORTH AVENUE ELEMENTARY SCHOOL
MAMARONECK UNION FREE SCHOOL DISTRICT
CHATS WORTH AVENUE, LARCHMONT, NY 10538

Job No. 4.1092.72.03
File No. 10927203P201

P0.01

NYSED PROJECT # 66-07-01-03-0-005-020



GENERAL DEMOLITION NOTES

1. LOCATIONS/ROUTINGS/SIZES OF EXIST. PLUMBING PIPING SHOWN ARE BASED ON SITE OBSERVATIONS & THEY ARE APPROXIMATE. PC IS RESPONSIBLE TO VERIFY THEM IN FIELD. GC TO SAWCUT EXIST. WALLS/FLOOR SLABS OR OPENING EXIST. CHASES AS REQUIRED TO ACCOMMODATE PLUMBING INSTALLATION. GC TO PATCH WALLS/CHASES/FLOOR SLABS AS REQUIRED TO MATCH EXISTING.
2. ANY CUTTING, PATCHING, OR FINISH REPAIR WORK REQUIRED FOR PLUMBING INSTALLATION IS THE RESPONSIBILITY OF GC.
3. PC IS RESPONSIBLE FOR SHUTDOWN AND/OR TO ISOLATE SECTIONS OF PLUMBING SYSTEM, AND DRAIN WATER FROM THE SYSTEM TO ACCOMMODATE FOR MODIFICATION/INSTALLATION. RESTORE THE SYSTEM AS REQUIRED.
4. ALL EXIST. CONDENSATE DRAIN PIPING THAT IS ASSOCIATED WITH DEMOLISHED HVAC UNITS SHALL BE REMOVED BY MC. REFER TO MECH. DWGS. FOR LOCATIONS.
5. REFER TO DWGS. P2.01 THRU P2.03 FOR ADDITIONAL PLUMBING DEMOLITION.
6. ALL EXIST. ABANDONED VACUUM PIPING ABOVE CORRIDOR CEILING SHALL BE REMOVED IN ENTIRETY. ALL VACUUM PIPING IN CHASES/WALLS & VACUUM OUTLETS SHALL BE ABANDONED IN PLACE. CAP PIPE OPENINGS ON CHASE/WALLS. CHECK IN FIELD

ITEM #	DEMOLITION KEY NOTES
1	EXIST. SINK TO BE REMOVED, COMPLETE W/ FAUCET, PLUMBING PIPING, VALVES, ETC. CAP WASTE PIPE OPENING AT MAIN BELOW SLAB.
2	EXIST. DRINKING FOUNTAIN TO BE CAREFULLY REMOVED, COMPLETE W/ PLUMBING PIPING, VALVES, ETC. CAP WASTE PIPE OPENING AT MAIN BELOW SLAB. TURN DRINKING FOUNTAIN OVER TO OWNER.
3	EXIST. DOMESTIC WATER & GAS PIPING ABOVE PLASTER CLG. TO BE REMOVED, COMPLETE W/ EXIST. VALVES, INSULATION, SUPPORTS, ETC. CHECK IN FIELD FOR EXACT LOCATIONS.
4	EXIST. DOMESTIC WATER ABOVE PLASTER CLG. TO BE REMOVED, COMPLETE W/ EXIST. VALVES, INSULATION, SUPPORTS, ETC. CHECK IN FIELD FOR EXACT LOCATIONS.
5	EXIST. WASTE PIPING BELOW SLAB TO BE REMOVED. CHECK IN FIELD FOR EXACT LOCATION.
6	ALL ABANDONED UTILITY PIPING (WASTE/VENT, DCW/DHW/DHWR, GAS, SPRINKLER, VACUUM, ETC.) ABOVE PLASTER CLG. TO BE REMOVED, COMPLETE W/ EXIST. VALVES, INSULATION, SUPPORTS, ETC. CHECK IN FIELD
7	EXIST. ABANDONED VACUUM PIPING ABOVE PLASTER CLG. TO BE REMOVED, COMPLETE W/ EXIST. SUPPORTS, ETC. CHECK IN FIELD FOR EXACT LOCATION.
8	EXIST. ABANDONED VACUUM PIPE RISER UP TO REMAIN. REMOVE EXIST. PIPING UP TO FLOOR SLAB & CAP PIPE OPENING. CHECK IN FIELD FOR EXACT LOCATION.
9	EXIST. ABANDONED VACUUM PIPE RISER UP TO BE REMOVED. CHECK IN FIELD FOR EXACT LOCATION.
10	EXIST. 4" FIRE PROTECTION PIPING FOR STANDPIPE SYSTEM ABOVE PLASTER CLG. TO REMAIN. CHECK IN FIELD FOR EXACT LOCATION.
11	EXIST. GAS & DOMESTIC WATER PIPING TO BE REMOVED, COMPLETE W/ EXIST. VALVES, SUPPORTS, ETC. CHECK IN FIELD
12	ALL EXIST. SANITARY VENT ABOVE CLG. TO BE REMOVED, COMPLETE W/ SUPPORTS, ETC. CHECK IN FIELD FOR EXACT LOCATION.
13	EXIST. SANITARY VENT RISER UP TO ROOF TO BE REMOVED. CHECK IN FIELD FOR EXACT LOCATION.
14	EXIST. 2" GAS RISER DN & RELATED PIPING, GAS METER (IN STORAGE ROOM BELOW), VALVES, SUPPORTS, ETC. TO BE REMOVED.
15	EXIST. DOMESTIC WATER PIPING & RELATED DRAIN VALVES, ELBOWS, FITTINGS, INSULATION, ETC. TO BE REMOVED.

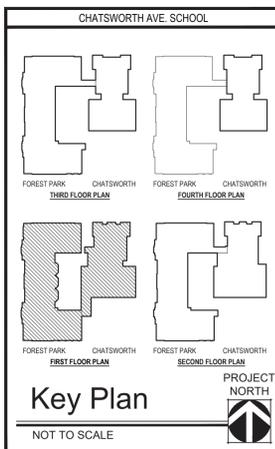
Date: 1/10/20
 Checked: AL
 Drawn: AL/IM
MICHAEL J. MCGOVERN, R.A.
 THE REGISTERED ARCHITECT
 License No. 022257-1

Revisions:
 ISSUE TO BLD
 11/23/20

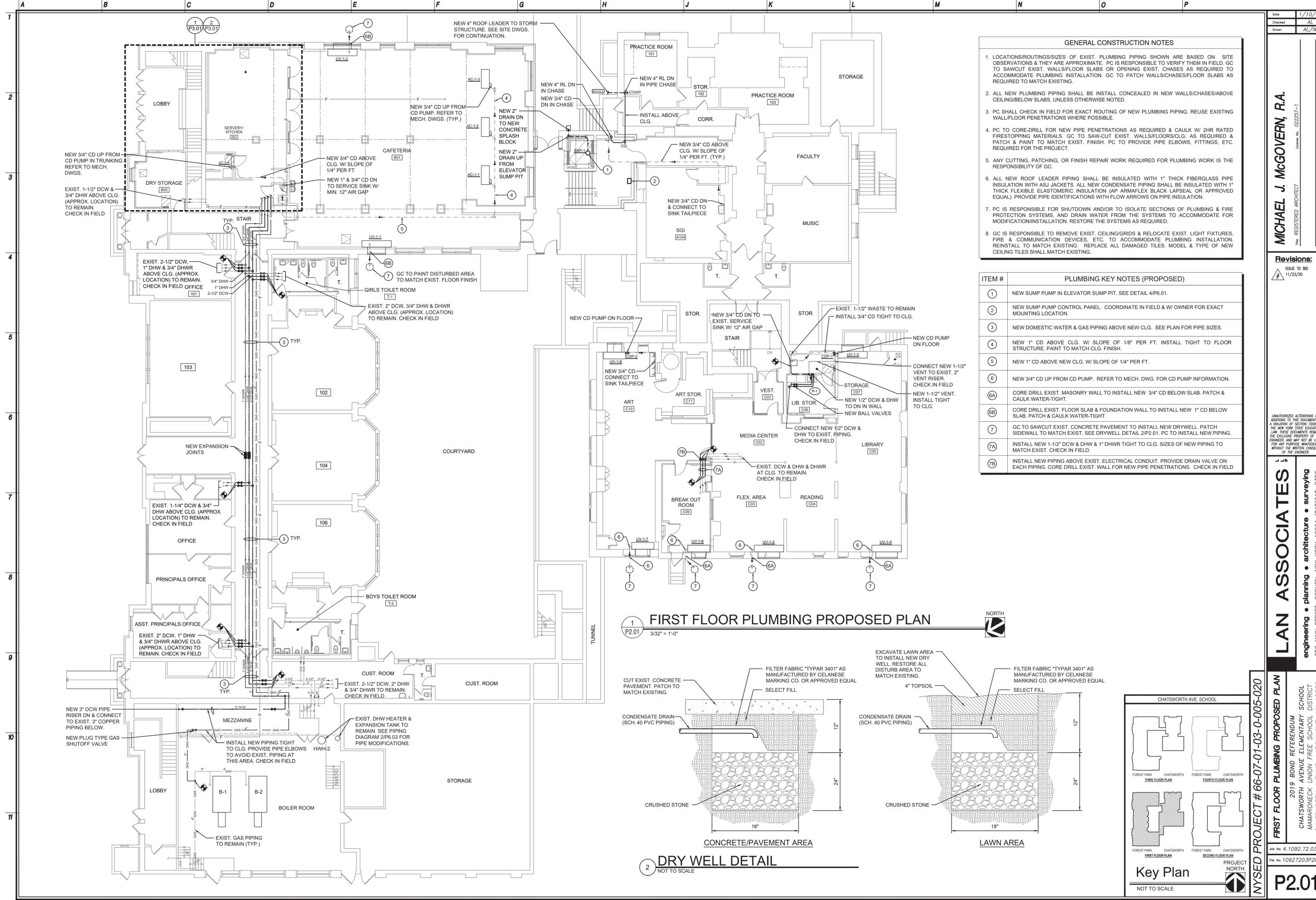
UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW. THESE DOCUMENTS REMAIN THE EXCLUSIVE PROPERTY OF THE ENGINEER, AND MAY NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

LAN ASSOCIATES
 engineering • planning • architecture • surveying
 252 MAIN STREET, GOSHEN, NEW YORK 10924 (845)815-0350

NYSED PROJECT # 66-07-01-03-0-005-020
FIRST FLOOR PLUMBING DEMOLITION PLAN
 2019 BOND REFERENDUM
 CHATSWORTH AVENUE ELEMENTARY SCHOOL
 MAMARONECK UNION FREE SCHOOL DISTRICT
 CHATSWORTH AVENUE, LARCHMONT, NY 10538
 Job No. 4.1092.72.03
 File No. 10927203P201
P1.01



1 FIRST FLOOR PLUMBING DEMOLITION PLAN
 P1.01 3/32" = 1'-0"
 NORTH

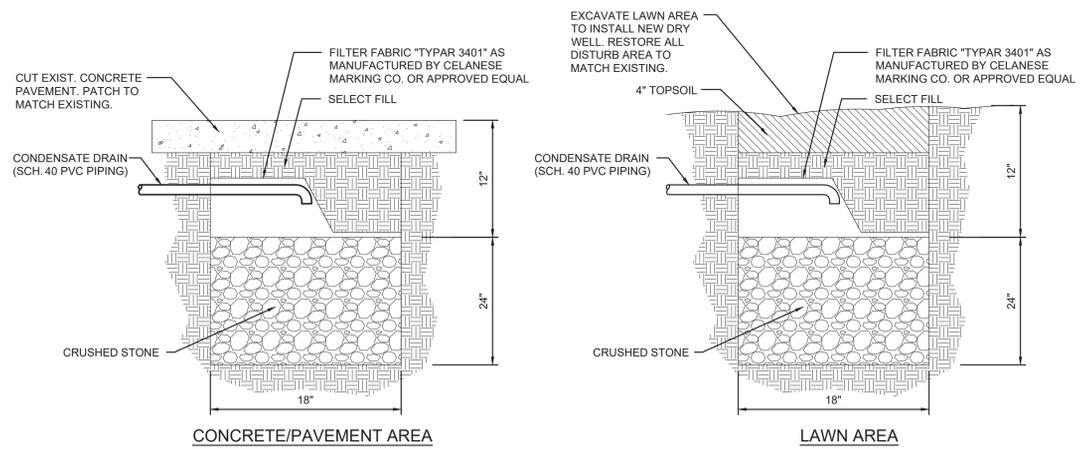


- GENERAL CONSTRUCTION NOTES**
- LOCATIONS/ROUTINGS/SIZES OF EXIST. PLUMBING PIPING SHOWN ARE BASED ON SITE OBSERVATIONS & THEY ARE APPROXIMATE. PC IS RESPONSIBLE TO VERIFY THEM IN FIELD. GC TO SAWCUT EXIST. WALLS/FLOOR SLABS OR OPENING EXIST. CHASES AS REQUIRED TO ACCOMMODATE PLUMBING INSTALLATION. GC TO PATCH WALLS/CHASES/FLOOR SLABS AS REQUIRED TO MATCH EXISTING.
 - ALL NEW PLUMBING PIPING SHALL BE INSTALL CONCEALED IN NEW WALLS/CHASES/ABOVE CEILING/BELOW SLABS, UNLESS OTHERWISE NOTED.
 - PC SHALL CHECK IN FIELD FOR EXACT ROUTING OF NEW PLUMBING PIPING. REUSE EXISTING WALL/FLOOR PENETRATIONS WHERE POSSIBLE.
 - PC TO CORE-DRILL FOR NEW PIPE PENETRATIONS AS REQUIRED & CAULK W/ 2HR RATED FIRESTOPPING MATERIALS. GC TO SAW-CUT EXIST. WALLS/FLOORS/CLG. AS REQUIRED & PATCH & PAINT TO MATCH EXIST. FINISH. PC TO PROVIDE PIPE ELBOWS, FITTINGS, ETC. REQUIRED FOR THE PROJECT.
 - ANY CUTTING, PATCHING, OR FINISH REPAIR WORK REQUIRED FOR PLUMBING WORK IS THE RESPONSIBILITY OF GC.
 - ALL NEW ROOF LEADER PIPING SHALL BE INSULATED WITH 1" THICK FIBERGLASS PIPE INSULATION WITH ASJ JACKETS. ALL NEW CONDENSATE PIPING SHALL BE INSULATED WITH 1" THICK FLEXIBLE ELASTOMERIC INSULATION (AP ARMAFLEX BLACK LAPSEAL OR APPROVED EQUAL). PROVIDE PIPE IDENTIFICATIONS WITH FLOW ARROWS ON PIPE INSULATION.
 - PC IS RESPONSIBLE FOR SHUTDOWN AND/OR TO ISOLATE SECTIONS OF PLUMBING & FIRE PROTECTION SYSTEMS, AND DRAIN WATER FROM THE SYSTEMS TO ACCOMMODATE FOR MODIFICATION/INSTALLATION. RESTORE THE SYSTEMS AS REQUIRED.
 - GC IS RESPONSIBLE TO REMOVE EXIST. CEILING/GRIDS & RELOCATE EXIST. LIGHT FIXTURES, FIRE & COMMUNICATION DEVICES, ETC. TO ACCOMMODATE PLUMBING INSTALLATION. REINSTALL TO MATCH EXISTING. REPLACE ALL DAMAGED TILES. MODEL & TYPE OF NEW CEILING TILES SHALL MATCH EXISTING.

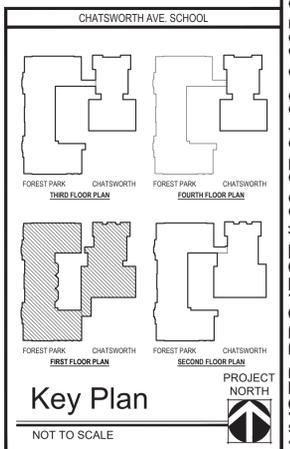
ITEM #	PLUMBING KEY NOTES (PROPOSED)
1	NEW SUMP PUMP IN ELEVATOR SUMP PIT. SEE DETAIL 4/P6.01.
2	NEW SUMP PUMP CONTROL PANEL. COORDINATE IN FIELD & W/ OWNER FOR EXACT MOUNTING LOCATION.
3	NEW DOMESTIC WATER & GAS PIPING ABOVE NEW CLG. SEE PLAN FOR PIPE SIZES.
4	NEW 1" CD ABOVE CLG. W/ SLOPE OF 1/8" PER FT. INSTALL TIGHT TO FLOOR STRUCTURE. PAINT TO MATCH CLG. FINISH.
5	NEW 1" CD ABOVE NEW CLG. W/ SLOPE OF 1/4" PER FT.
6	NEW 3/4" CD UP FROM CD PUMP. REFER TO MECH. DWG. FOR CD PUMP INFORMATION.
6A	CORE DRILL EXIST. MASONRY WALL TO INSTALL NEW 3/4" CD BELOW SLAB. PATCH & CAULK WATER-TIGHT.
6B	CORE DRILL EXIST. FLOOR SLAB & FOUNDATION WALL TO INSTALL NEW 1" CD BELOW SLAB. PATCH & CAULK WATER-TIGHT.
7	GC TO SAWCUT EXIST. CONCRETE PAVEMENT TO INSTALL NEW DRYWELL. PATCH SIDEWALL TO MATCH EXIST. SEE DRYWELL DETAIL 2/P2.01. PC TO INSTALL NEW PIPING.
7A	INSTALL NEW 1-1/2" DCW & DHW & 1" DHWR TIGHT TO CLG. SIZES OF NEW PIPING TO MATCH EXIST. CHECK IN FIELD.
7B	INSTALL NEW PIPING ABOVE EXIST. ELECTRICAL CONDUIT. PROVIDE DRAIN VALVE ON EACH PIPING. CORE DRILL EXIST. WALL FOR NEW PIPE PENETRATIONS. CHECK IN FIELD.

1 FIRST FLOOR PLUMBING PROPOSED PLAN

3/32" = 1'-0"



2 DRY WELL DETAIL
NOT TO SCALE



Date: 1/10/20
Checked: AL
Drawn: AL/IM

MICHAEL J. MCGOVERN, R.A.
REGISTERED ARCHITECT
License No. 022257-1

Revisions:
ISSUE TO BID 1/23/20

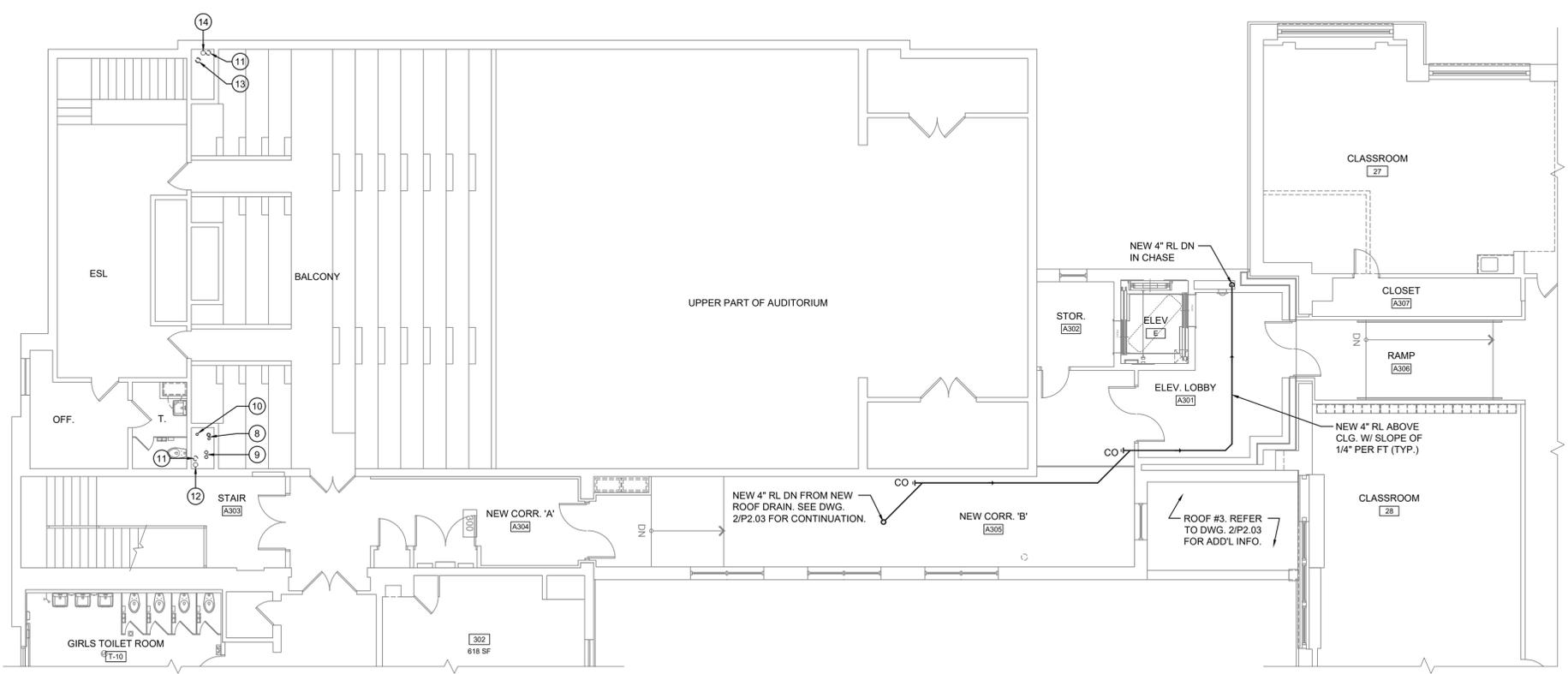
UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW. THESE DOCUMENTS REMAIN THE EXCLUSIVE PROPERTY OF THE ENGINEER, AND MAY NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

LAN ASSOCIATES
engineering • planning • architecture • surveying
252 MAIN STREET, GOSHEN, NEW YORK 10924 (845)815-0350

NYSED PROJECT # 66-07-01-03-0-005-020
FIRST FLOOR PLUMBING PROPOSED PLAN
2019 BOND REFERENDUM
CHATSWORTH AVENUE ELEMENTARY SCHOOL
MAMARONECK UNION FREE SCHOOL DISTRICT
CHATSWORTH AVENUE, LARCHMONT, NY 10538

Job No. 4.1092.72.03
Rev. No. 10927203P201

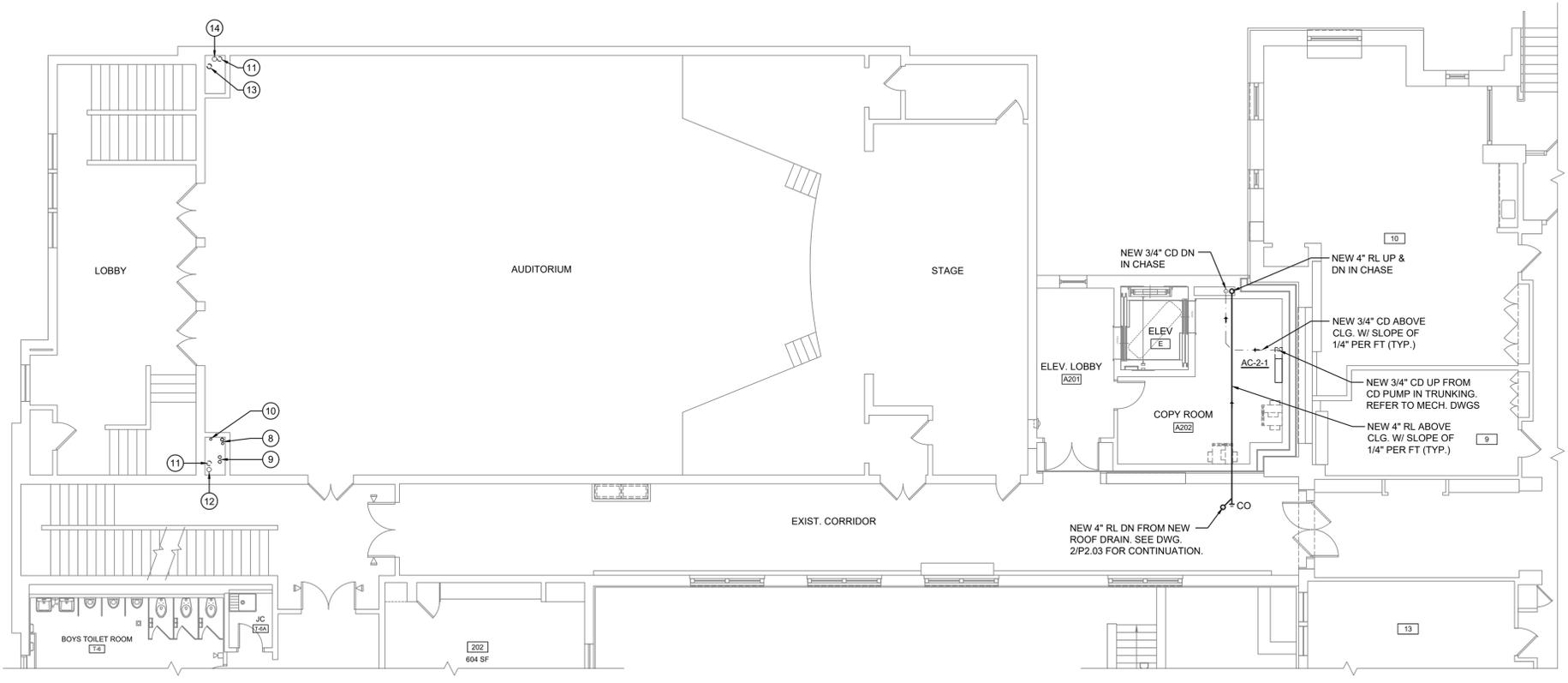
P2.01



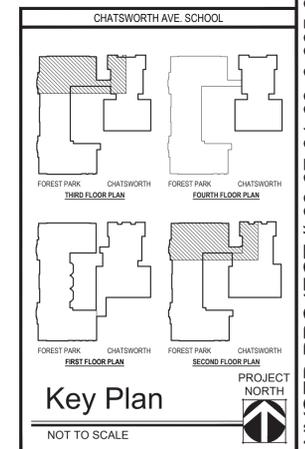
2 PARTIAL THIRD FLOOR PLUMBING PROPOSED PLAN
 1/8" = 1'-0" NORTH

- GENERAL CONSTRUCTION NOTES**
1. LOCATIONS/ROUTINGS/SIZES OF EXIST. PLUMBING PIPING SHOWN ARE BASED ON SITE OBSERVATIONS & THEY ARE APPROXIMATE. PC IS RESPONSIBLE TO VERIFY THEM IN FIELD. GC TO SAWCUT EXIST. WALLS/FLOOR SLABS OR OPENING EXIST. CHASES AS REQUIRED TO ACCOMMODATE PLUMBING INSTALLATION. GC TO PATCH WALLS/CHASES/FLOOR SLABS AS REQUIRED TO MATCH EXISTING.
 2. ALL NEW PLUMBING PIPING SHALL BE INSTALL CONCEALED IN NEW WALLS/CHASES/ABOVE CEILING/BELOW SLABS, UNLESS OTHERWISE NOTED.
 3. PC SHALL CHECK IN FIELD FOR EXACT ROUTING OF NEW PLUMBING PIPING. REUSE EXISTING WALL/FLOOR PENETRATIONS WHERE POSSIBLE.
 4. PC TO CORE-DRILL FOR NEW PIPE PENETRATIONS AS REQUIRED & CAULK W/ 2HR RATED FIRESTOPPING MATERIALS. GC TO SAW-CUT EXIST. WALLS/FLOORS/CLG. AS REQUIRED & PATCH & PAINT TO MATCH EXIST. FINISH. PC TO PROVIDE PIPE ELBOWS, FITTINGS, ETC. REQUIRED FOR THE PROJECT.
 5. ANY CUTTING, PATCHING, OR FINISH REPAIR WORK REQUIRED FOR PLUMBING INSTALLATION IS THE RESPONSIBILITY OF GC.
 6. ALL NEW ROOF LEADER PIPING SHALL BE INSULATED WITH 1" THICK FIBERGLASS PIPE INSULATION WITH ASJ JACKETS. ALL NEW CONDENSATE PIPING SHALL BE INSULATED WITH 1" THICK FLEXIBLE ELASTOMERIC INSULATION (AP ARMAFLEX BLACK LAPSEAL OR APPROVED EQUAL). PROVIDE PIPE IDENTIFICATIONS WITH FLOW ARROWS ON PIPE INSULATION.
 7. PC IS RESPONSIBLE FOR SHUTDOWN AND/OR TO ISOLATE SECTIONS OF PLUMBING & FIRE PROTECTION SYSTEMS, AND DRAIN WATER FROM THE SYSTEMS TO ACCOMMODATE FOR MODIFICATION/INSTALLATION. RESTORE THE SYSTEMS AS REQUIRED.
 8. GC IS RESPONSIBLE TO REMOVE EXIST. CEILING/GRIDS & RELOCATE EXIST. LIGHT FIXTURES, FIRE & COMMUNICATION DEVICES, ETC. TO ACCOMMODATE PLUMBING INSTALLATION. REINSTALL TO MATCH EXISTING. REPLACE ALL DAMAGED TILES. MODEL & TYPE OF NEW CEILING TILES SHALL MATCH EXISTING.

ITEM #	PLUMBING KEY NOTES
8	NEW 4" GAS & 1" GAS VENT UP & DN IN EXIST. CHASE. SUPPORT OFF EXIST. CHASE WALL AT 6'-0" O.C. W/ SUPPORT BRACKETS.
9	NEW 4"Ø AIR INTAKE PIPE & 4"Ø FLUE VENT UP & DN IN EXIST. CHASE. SUPPORT OFF EXIST. CHASE WALL AT 6'-0" O.C. W/ SUPPORT BRACKETS.
10	NEW 2" SANITARY VENT UP & DN IN EXIST. CHASE. SUPPORT OFF EXIST. CHASE WALL AT 6'-0" O.C. W/ SUPPORT BRACKETS.
11	EXIST. ABANDONED VACUUM PIPE RISER & SUPPORTS TO BE REMOVED. DISCONNECT ALL BRANCH PIPING TO VACUUM PORT & CAP PIPE OPENING. CHECK IN FIELD FOR EXACT LOCATION.
12	EXIST. 4" FIRE PROTECTION PIPE RISER TO REMAIN. CHECK IN FIELD FOR EXACT LOCATION.
13	EXIST. 2" SANITARY VENT RISER & SUPPORTS TO BE REMOVED. CHECK IN FIELD FOR EXACT LOCATION.
14	EXIST. 4" ROOF LEADER PIPE RISER TO REMAIN. CHECK IN FIELD FOR EXACT LOCATION.



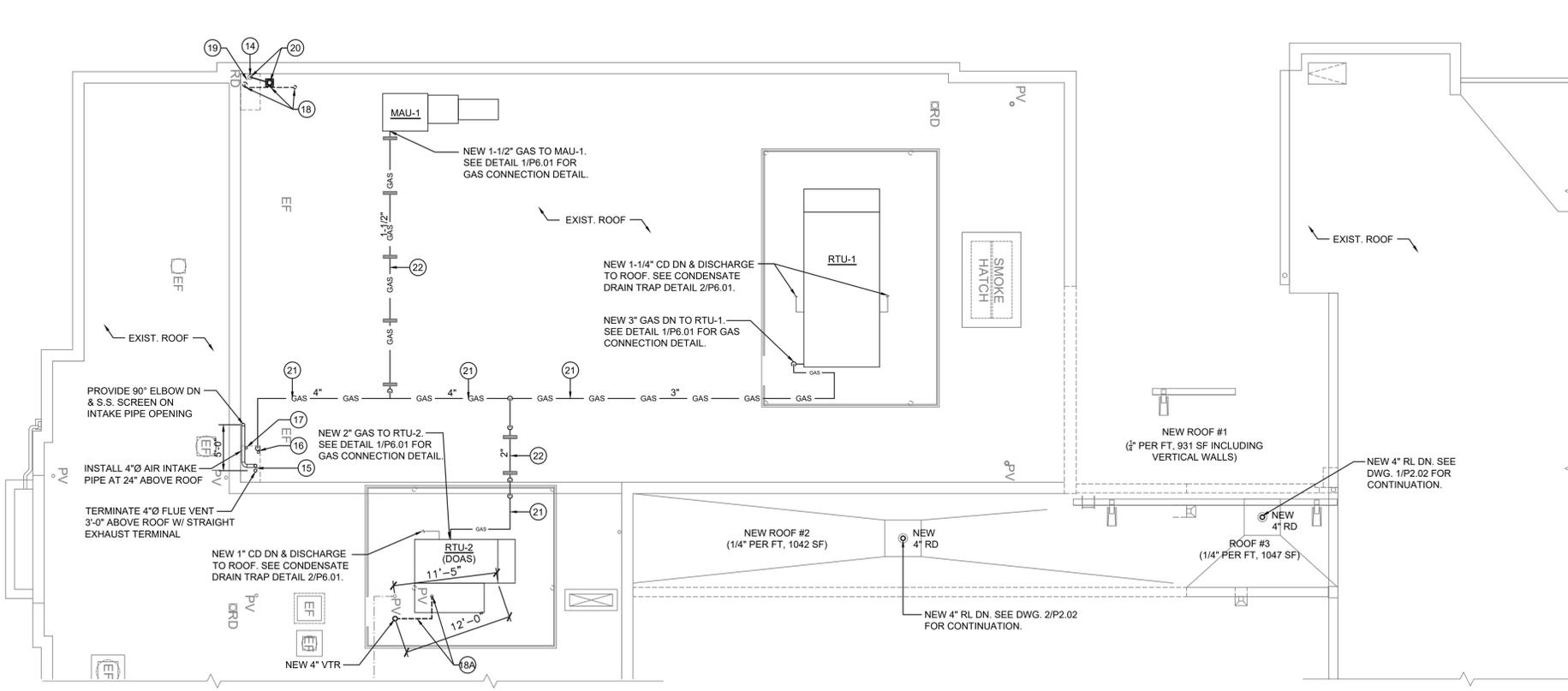
1 PARTIAL SECOND FLOOR PLUMBING PROPOSED PLAN
 1/8" = 1'-0" NORTH



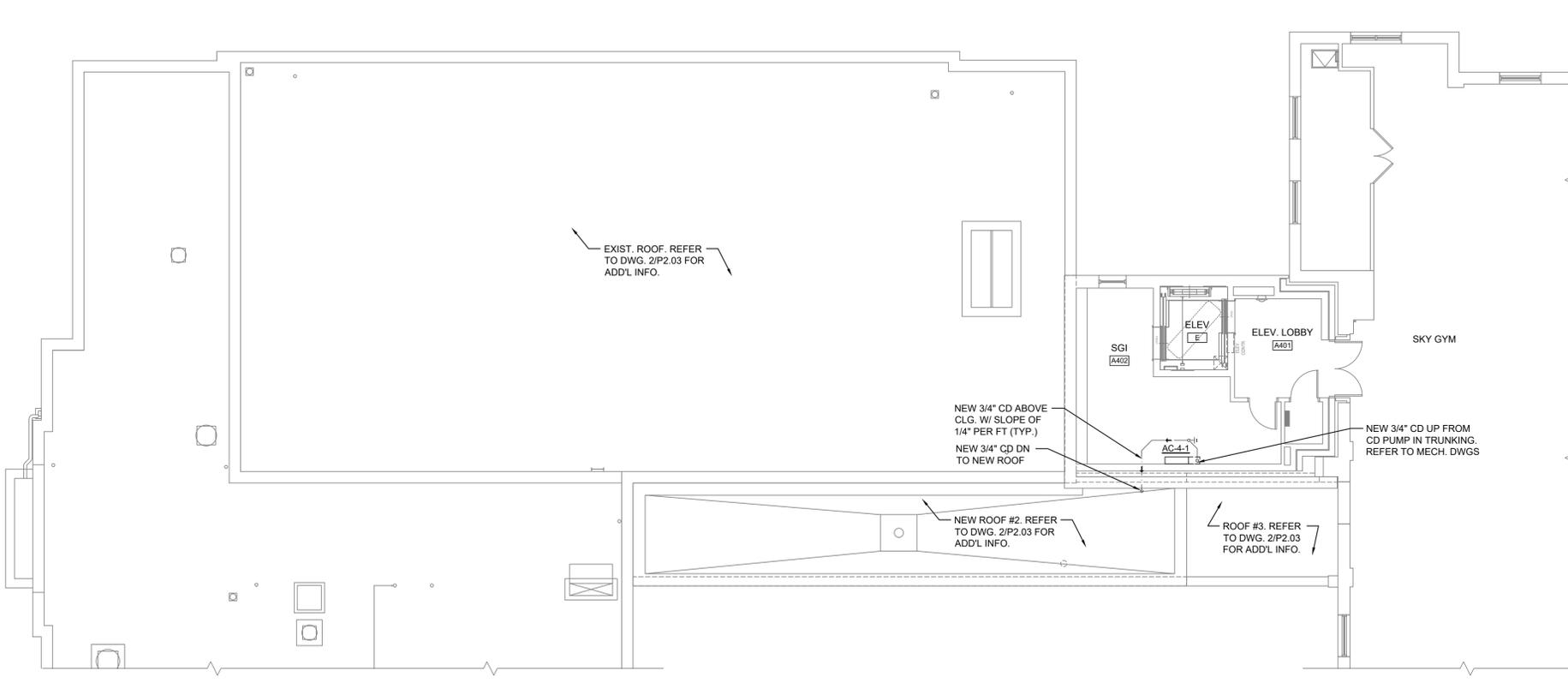
NYSED PROJECT # 66-07-01-03-0-005-020

1
2
3
4
5
6
7
8
9
10
11

A B C D E F G H J K L M N O P



2
P2.03
1/8" = 1'-0"
PARTIAL ROOF PLUMBING PROPOSED PLAN

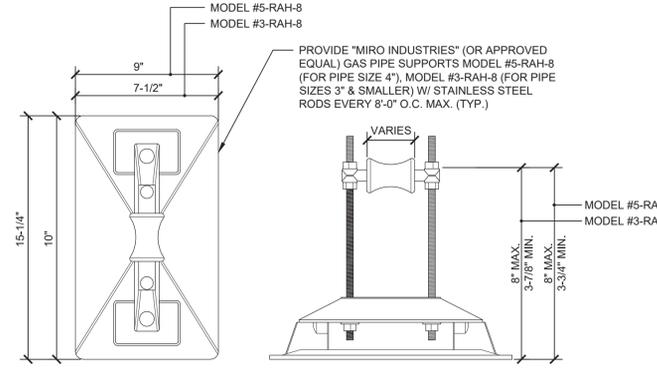


1
P2.03
1/8" = 1'-0"
PARTIAL FOURTH FLOOR PLUMBING PROPOSED PLAN

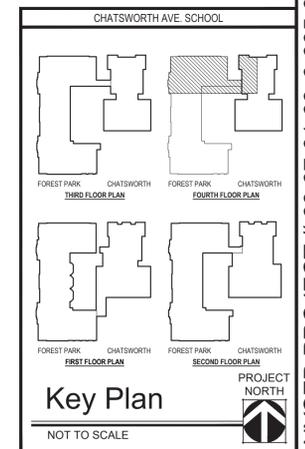


- GENERAL CONSTRUCTION NOTES**
- LOCATIONS/ROUTINGS/SIZES OF EXIST. PLUMBING PIPING SHOWN ARE BASED ON SITE OBSERVATIONS & THEY ARE APPROXIMATE. PC IS RESPONSIBLE TO VERIFY THEM IN FIELD. GC TO SAWCUT EXIST. WALLS/FLOOR SLABS OR OPENING EXIST. CHASES AS REQUIRED TO ACCOMMODATE PLUMBING INSTALLATION. GC TO PATCH WALLS/CHASES/FLOOR SLABS AS REQUIRED TO MATCH EXISTING.
 - ALL NEW PLUMBING PIPING SHALL BE INSTALL CONCEALED IN NEW WALLS/CHASES/ABOVE CEILING/BELOW SLABS, UNLESS OTHERWISE NOTED.
 - PC SHALL CHECK IN FIELD FOR EXACT ROUTING OF NEW PLUMBING PIPING. REUSE EXISTING WALL/FLOOR PENETRATIONS WHERE POSSIBLE.
 - PC TO CORE-DRILL FOR NEW PIPE PENETRATIONS AS REQUIRED & CAULK W/ 2HR RATED FIRESTOPPING MATERIALS. GC TO SAW-CUT EXIST. WALLS/FLOORS/CLG. AS REQUIRED & PATCH & PAINT TO MATCH EXIST. FINISH. PC TO PROVIDE PIPE ELBOWS, FITTINGS, ETC. REQUIRED FOR THE PROJECT.
 - ANY CUTTING, PATCHING, OR FINISH REPAIR WORK REQUIRED FOR PLUMBING INSTALLATION IS THE RESPONSIBILITY OF GC.
 - ALL NEW ROOF LEADER PIPING SHALL BE INSULATED WITH 1" THICK FIBERGLASS PIPE INSULATION WITH ASJ JACKETS. ALL NEW CONDENSATE PIPING SHALL BE INSULATED WITH 1" THICK FLEXIBLE ELASTOMERIC INSULATION (AP ARMAFLEX BLACK LAPSEAL OR APPROVED EQUAL). PROVIDE PIPE IDENTIFICATIONS WITH FLOW ARROWS ON PIPE INSULATION.
 - PC IS RESPONSIBLE FOR SHUTDOWN AND/OR TO ISOLATE SECTIONS OF PLUMBING & FIRE PROTECTION SYSTEMS, AND DRAIN WATER FROM THE SYSTEMS TO ACCOMMODATE FOR MODIFICATION/INSTALLATION. RESTORE THE SYSTEMS AS REQUIRED.
 - GC IS RESPONSIBLE TO REMOVE EXIST. CEILING/GRIDS & RELOCATE EXIST. LIGHT FIXTURES, FIRE & COMMUNICATION DEVICES, ETC. TO ACCOMMODATE PLUMBING INSTALLATION. REINSTALL TO MATCH EXISTING. REPLACE ALL DAMAGED TILES. MODEL & TYPE OF NEW CEILING TILES SHALL MATCH EXISTING.

ITEM #	PLUMBING KEY NOTES
14	EXIST. 4" ROOF LEADER PIPE RISER TO REMAIN. CHECK IN FIELD FOR EXACT LOCATION.
15	NEW 4" AIR INTAKE PIPE & 4" FLUE VENT UP IN NEW PITCH POCKET. TERMINATE 4" FLUE VENT 3'-0" ABOVE ROOF W/ STRAIGHT EXHAUST TERMINAL.
16	NEW 4" GAS & 1" GAS VENT UP IN NEW PITCH POCKET. TERMINATE 1" GAS VENT 3'-0" ABOVE ROOF W/ RAIN CAP.
17	NEW 2" SANITARY VENT UP IN NEW PITCH POCKET. TERMINATE 12" ABOVE ROOF.
18	EXIST. 2" SANITARY VENT RISER, PIPING & VTR ON ROOF TO BE REMOVED. GC TO SAWCUT EXIST. ROOF AS REQUIRED & PATCH TO MATCH EXIST. CHECK IN FIELD FOR EXACT LOCATION.
18A	PC TO REMOVE EXIST. 4" VTR ON ROOF TO ACCOMMODATE INSTALLATION OF NEW RTU-2. PC TO INSTALL NEW 4" SANITARY VENT ABOVE CLG. OF CLASSROOM & CONNECT TO EXIST. PLUMBING VENT RISER & NEW 4" VTR ON ROOF. GC TO SAWCUT EXIST. CHASE & CORE DRILL EXIST. ROOF AS REQUIRED & PATCH ALL OPENINGS & PAINT TO MATCH EXIST.
19	EXIST. 4" ROOF DRAIN & RELATED PIPING TO BE REMOVED.
20	NEW 4" ROOF DRAIN & 4" ROOF LEADER. CONNECT NEW 4" ROOF LEADER TO EXIST. RISER. GC TO SAWCUT EXIST. ROOF AS REQUIRED & PATCH TO MATCH EXIST. CHECK IN FIELD FOR EXACT LOCATION.
21	NEW GAS PIPING. SUPPORT OFF NEW DUCT SUPPORTS. REFER TO MECH. DWGS. FOR LOCATIONS. PRIME ALL ROOFTOP GAS PIPING & PAINT W/ TWO (2) FINISH COATS OF YELLOW COLOR.
22	NEW GAS PIPING ON NEW ROOFTOP SUPPORTS AT MAX. 8'-0" O.C. PRIME ALL ROOFTOP GAS PIPING & PAINT W/ 2 FINISH COATS OF YELLOW COLOR PAINT (TYP.). SEE SUPPORT DETAIL 3/P2.03.



3
NOT TO SCALE
ROOFTOP GAS PIPE SUPPORT DETAIL



Date: 1/10/20
Checked: AL
Drawn: AL/IM

MICHAEL J. MCGOVERN, P.E.
REGISTERED ARCHITECT
License No. 022257-1

Revisions:
ISSUE TO BID 1/23/20

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW. THESE DOCUMENTS REMAIN THE EXCLUSIVE PROPERTY OF THE ENGINEER, AND MAY NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

LAN ASSOCIATES
engineering • planning • architecture • surveying
252 MAIN STREET, GOSHEN, NEW YORK 10924 (845)815-0350

PLUMBING PROPOSED PLANS
2019 BOND REFERENDUM
CHATSWORTH AVENUE ELEMENTARY SCHOOL
MAMARONECK UNION FREE SCHOOL DISTRICT
CHATSWORTH AVENUE, LARCHMONT, NY 10538

Job No. 4.1092.72.03
Plan No. 10927203P201

P2.03

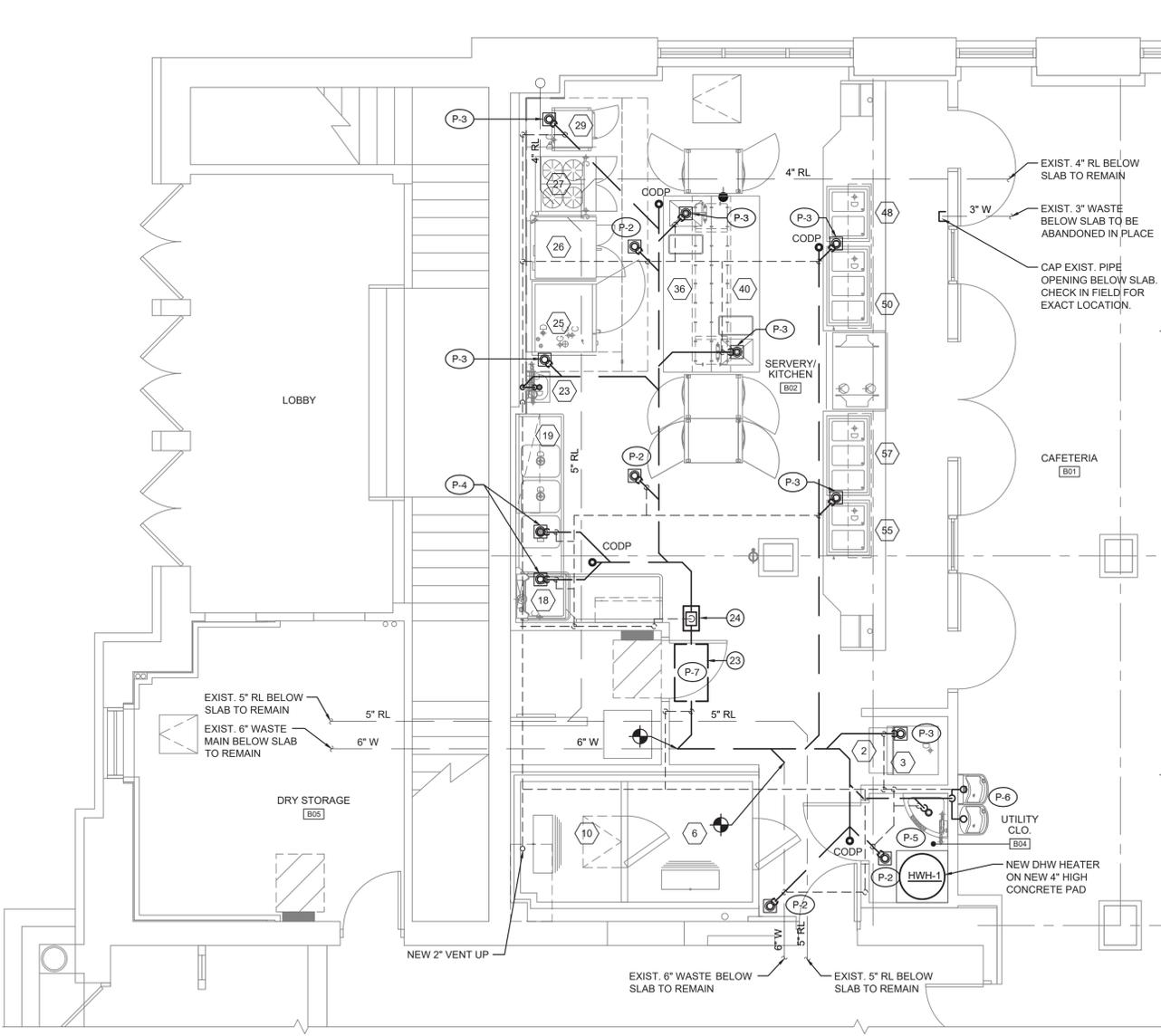
KITCHEN EQUIPMENT PLUMBING REQUIREMENTS								
ITEM NO.	EQUIPMENT DESCRIPTION	QTY	DCW SIZE (IN)	DHW SIZE (IN)	DIRECT WASTE SIZE (IN)	INDIRECT WASTE SIZE (IN)	GAS CONNECTION SIZE (IN)	GAS LOAD (CFH)
2	BIN, ICE	1				1		
3	ICE CUBE MACHINE, AIR COOLED	1	3/4			1		
4	FILTER SYSTEM FOR ITEM #3	1	3/4					
6	WALK-IN COOLER	1						
8	REFRIGERATION TO ITEM #6	1				3/4		
10	WALK-IN FREEZER	1						
11	REFRIGERATION TO ITEM #10	1				3/4		
18	WAREWASHER, DOOR TYPE, VENTLESS	1	1/2	1/2		1-1/2		
19	3-COMPARTMENT SINK, POTWASH	1	(2) 1/2	(2) 1/2		(3) 2		
23	SINK, HAND WITH SOAP DISPENSER	1	1/2	1/2	1-1/2			
24	FILTER SYSTEM FOR ITEM #25	1	3/4					
25	OVEN-STEAMER, COMBI, GAS	1	(2) 3/4			2	1	152
26	OVEN, CONVECTION, GAS						1	120
27	RANGE, HEAVY DUTY, GAS	1					3/4	180
29	STEAMER, ATMOSPHERIC	1	(2) 3/4			(2) 3/4	1	120
36	WORK TABLE W/ SINK	1	1/2	1/2		2		
40	WORK COUNTER W/ SINK	1	1/2	1/2		2		
48	DROP-IN, HOT/COLD UNIT	1				3/4		
50	DROP-IN, HOT/COLD UNIT	1				3/4		
55	DROP-IN, HOT/COLD UNIT	1				3/4		
57	DROP-IN, HOT/COLD UNIT	1				3/4		

NOTES:
 1. REFER TO FOOD SERVICE DETAILS AND SCHEDULES ON ALL FS DWGS. FOR ADD'L INFO. PLUMBING SUBCONTRACTOR IS RESPONSIBLE TO INSTALL ALL PLUMBING PIPING, VALVES, ETC.
 2. FAUCETS PROVIDED BY FOOD SERVICE CONTRACTOR WILL MEET THE LEAD-FREE REQUIREMENTS OF NSF 61.

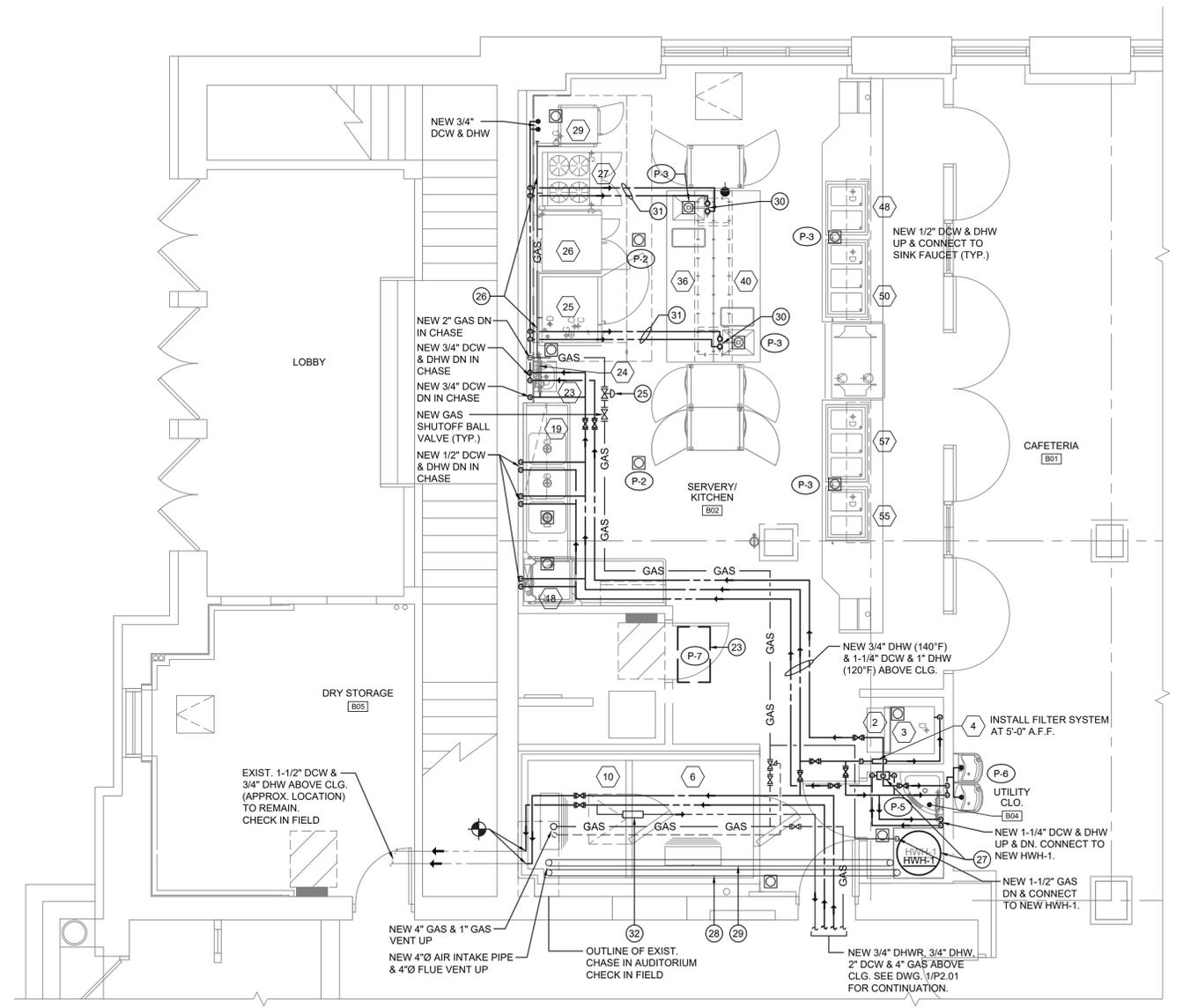
PLUMBING KEY NOTES (PROPOSED)	
23	NEW GREASE INTERCEPTOR. GC TO SAWCUT EXIST. FLOOR SLAB & PC TO INSTALL NEW INTERCEPTOR FLUSH TO FINISHED FLOOR. GC TO PATCH FLOOR AS REQUIRED.
24	PROVIDE NEW 18"x18" S.S. BOX W/ COVER FOR NEW AIR CONTROL FITTING. DEPTH OF NEW BOX SHALL BE DETERMINED IN FIELD. GC TO SAW CUT EXIST. FLOOR SLAB & PC TO INSTALL NEW BOX FLUSH TO FINISHED FLOOR.
25	NEW MECHANICAL GAS CONTROL VALVE. INTERLOCK W/ NEW KITCHEN HOOD FIRE SUPPRESSION SYSTEM. INSTALL GAS VALVE AT UPSTREAM OF GAS PIPING TO GAS APPLIANCES, TO SHUT OFF GAS SUPPLY ON ACTIVATION OF FIRE SUPPRESSION SYSTEM. THE GAS SUPPLY SHALL REMAIN OFF UNTIL IT IS MANUALLY RESET. SEE FS DWGS. FOR ADD'L INFO.
26	NEW 2" GAS PIPE HEADER BEHIND APPLIANCES. CONNECT TO EACH APPLIANCE W/ A FLEXIBLE APPLIANCE-RATED GAS CONNECTOR & SHUTOFF BALL VALVE. SEE FS DWGS. FOR GAS CONNECTION DETAIL.
27	NEW GAS-FIRED DHW HEATER W/ DHW MIXING VALVE ON WALL. SEE PIPING DIAGRAM 1/P6.03.
28	NEW 4" Ø FLUE VENT (SCH. 40 CPVC) ABOVE CLG
29	NEW 4" Ø AIR INTAKE PIPE (SCH. 40 PVC) ABOVE CLG.
30	NEW 3/4" DCW & DHW UP FROM UNDERGROUND. NEW 1/2" DCW & DHW TO SINK.
31	NEW 3/4" DCW & DHW BELOW SLAB.
32	NEW 3/4" DHWR BALANCING VALVE ASSEMBLY. SEE DETAIL 3/P6.03. BALANCE TO 0.5 GPM.

GENERAL CONSTRUCTION NOTES

- LOCATIONS/ROUTINGS/SIZES OF EXIST. PLUMBING PIPING SHOWN ARE BASED ON EXIST. DRAWINGS & SITE OBSERVATIONS & THEY ARE APPROXIMATE. PC IS RESPONSIBLE TO VERIFY IN FIELD. GC TO SAWCUT EXIST. WALLS/FLOOR SLABS AS REQUIRED TO ACCOMMODATE PLUMBING INSTALLATION & PATCH AS REQUIRED.
- ALL NEW WATER PIPING & VENT PIPING SHALL BE INSTALL CONCEALED IN NEW WALLS/CHASES/ABOVE CEILING, UNLESS OTHERWISE NOTED.
- PC SHALL CHECK IN FIELD FOR EXACT ROUTING OF NEW PLUMBING PIPING. REUSE EXIST. WALL/FLOOR PENETRATIONS WHERE POSSIBLE.
- PC TO CORE-DRILL FOR NEW PIPE PENETRATIONS AS REQUIRED & CAULK W/ 2HR RATED FIRESTOPPING MATERIALS. GC TO SAW-CUT EXIST. WALLS/FLOORS AS REQUIRED & PATCH & PAINT TO MATCH EXIST. FINISH. PC TO PROVIDE PIPE ELBOWS, FITTINGS, ETC. REQUIRED FOR THE PROJECT.
- ANY CUTTING, PATCHING, OR FINISH REPAIR WORK REQUIRED FOR PLUMBING INSTALLATION IS THE RESPONSIBILITY OF GC.
- ALL NEW WATER PIPING SHALL BE INSULATED WITH FIBERGLASS PIPE INSULATION WITH ASJ JACKETS. PROVIDE PIPE IDENTIFICATIONS WITH FLOW ARROWS ON PIPE INSULATION.
- PC IS RESPONSIBLE FOR SHUTDOWN AND/OR TO ISOLATE SECTIONS OF PLUMBING SYSTEM, AND DRAIN WATER FROM THE SYSTEM TO ACCOMMODATE FOR MODIFICATION/INSTALLATION. RESTORE THE SYSTEM AS REQUIRED.
- NOT ALL NEW PIPING, VALVES, ETC. FOR KITCHEN EQUIPMENT ARE SHOWN ON PLANS. PC IS REQUIRED TO INSTALL REQUIRED PIPING, VALVES, FITTING, ETC. FOR A COMPLETE & OPERATIONAL PLUMBING SYSTEM.
- GC TO OPEN FLOOR SLABS & PC TO VERIFY INVERTS OF EXIST. SANITARY WASTE PIPING BELOW SLAB IN FIELD PRIOR TO CONNECTIONS OF NEW PIPING TO EXIST. PC TO COORDINATE LOCATIONS WITH GC. GC TO PATCH FLOOR SLABS TO MATCH EXIST.



1 P3.01 KITCHEN WASTE PIPING PROPOSED PLAN
 1/4" = 1'-0" NORTH



2 P3.01 KITCHEN DOMESTIC WATER & GAS PIPING PROPOSED PLAN
 1/4" = 1'-0" NORTH

Date: 1/10/20
 Checked: AL
 Drawn: AL/IM
MICHAEL J. MCGOVERN, R.A.
 LICENSE NO. 022257-1
 REGISTERED ARCHITECT

Revisions:
 ISSUE TO BO
 1/23/20

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW. THESE DOCUMENTS REMAIN THE EXCLUSIVE PROPERTY OF THE ENGINEER, AND MAY NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

LAN ASSOCIATES
 engineering • planning • architecture • surveying
 252 MAIN STREET, GOSHEN, NEW YORK 10924 (845)815-0350

KITCHEN PLUMBING PROPOSED PLANS
 2019 BOND REFERENDUM
 CHATSWORTH AVENUE ELEMENTARY SCHOOL
 MAMARONECK UNION FREE SCHOOL DISTRICT
 CHATSWORTH AVENUE, LARCHMONT, NY 10538

Job No. 4.1092.72.03
 File No. 10927203P201

P3.01

NYS ED PROJECT # 66-07-01-03-0-005-020

PLUMBING FIXTURE SCHEDULE

NUMBER	FIXTURE	MANUFACTURER	TYPE & MODEL NO.	TRIM NO.	SUPPLY PIPE NO.	TRAP NO.	SUPPORT NO.	PIPE SIZES					DFU	WSFU	DESCRIPTION
								TRAP	WASTE	VENT	DCW	DHW			
(P-1)	SINK	ELKAY	LRAD252265	ELKAY LK810GN08T4	McGUIRE LF158	McGUIRE 8902C	COUNTER-TOP	1-1/2" x 1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	2	1	25"x22" TOP MOUNTED SINK W/ 3 HOLE 18 GAUGE 304 STAINLESS STEEL. PROVIDE W/ EXPOSED DECK FAUCET W/ 8" GOOSENECK SPOUT 4" WRIST-BLADE HANDLES, ELKAY GRID DRAIN & TAILPIECE #LK18B & WATTS TMV #LFUSG-NM2. INSTALL TO MEET ADA REQUIREMENTS.
(P-2)	3" FLOOR DRAIN	J.R. SMITH	#2110Y	-	-	P-TRAP	-	3"	3"	2"	-	-	5	-	FLOOR DRAIN W/ HINGED GRATE, SEDIMENT BUCKET, NICKEL BRONZE ROUND TOP & J.R. SMITH QUAD CLOSE TRAP SEAL.
(P-3)	3" INDIRECT FLOOR DRAIN	J.R. SMITH	#3041	-	-	P-TRAP	-	3"	3"	2"	-	-	-	-	INDIRECT WASTE DRAIN W/ ALUMINUM RECESSED GRATE, SEDIMENT BUCKET & NICKEL BRONZE TOP.
(P-4)	4" INDIRECT FLOOR DRAIN	J.R. SMITH	#3041	-	-	P-TRAP	-	4"	4"	2"	-	-	-	-	INDIRECT WASTE DRAIN W/ ALUMINUM RECESSED GRATE, SEDIMENT BUCKET & NICKEL BRONZE TOP.
(P-5)	SERVICE SINK	FLORESTONE	99	-	-	P-TRAP	FLOOR MOUNTED	3"	3"	2"	3/4"	3/4"	3	3	HALF ROUND TERRAZZO MOP RECEPTOR. PROVIDE W/ MR-371 SPEAKMAN FAUCET W/ VACUUM BREAKER, DOUBLE STOPS AND BUCKET HOOK W/ BRACE, MR-370 5/8" HOSE & 5' LONG W/ CLAMP, MR-372 MOP HANGER W/ 3 CLAMPS, MR-374 WEDGE-LOK 3" DRAIN SEAL, MR-375 FLAT STRAINER, & MR-377 TWO (2) 32" PANELS.
(P-6)	BOTTLE FILLER STATION W/ BI-LEVEL WATER COOLERS	ELKAY	LZSTL8WSSP	-	McGUIRE LFS107	McGUIRE 201C	WALL-MOUNTED	1-1/4" x 1-1/2"	1-1/2"	1-1/2"	1/2"	-	0.5	0.5	EZH2O BOTTLE FILLING STATION W/ FILTERED BI-LEVEL LZ COOLERS, S.S. BASIN W/ INTEGRAL DRAIN, S.S. COOLER CABINET, VANDAL-RESISTANT BUBBLER, WALL MOUNTING PLATE & WATERSETRY PLUS FILTER. PROVIDE W/ SPARE FILTERS #51300C-3PK. INSTALL TO MEET ADA REQUIREMENTS.
(P-7)	GREASE INTERCEPTOR	J.R. SMITH	#8050	-	-	-	-	-	-	-	-	-	-	-	STEEL INTERCEPTOR W/ FLOW RATE OF 50 GPM & GREASE CAPACITY OF 100 LB. PROVIDE W/ PDI CERTIFICATION SEAL, FLOW CONTROL FITTING, ANCHOR FLANGE, EXTENSION (VERIFY HEIGHT IN FIELD) & NON-SKID ALUMINUM COVER.
	ROOF DRAIN	J.R. SMITH	#1015Y	-	-	-	-	-	-	-	-	-	-	-	PROVIDE W/ UNDERDECK CLAMP & CAST IRON DOME. REFER TO DWGS. FOR SIZES.

DOMESTIC HOT WATER HEATER SCHEDULE

(LAARS AS STANDARD)

TAG No.	SERVICE	INPUT RATING (MBH)	RECOVERY RATE @ 100°F RISE (GPH)	STORAGE CAPACITY (GAL.)	THERMAL EFFICIENCY (%)	FLUE SIZE & TYPE	ELECTRIC DATA VOLT/PH/Hz	MODEL & MANUFACTURER	DIMENSION DIA. x H (IN.)	APPROX. WEIGHT (LB.)	REMARKS
HWH-1	KITCHEN DHW SYSTEM	199	309	100	98.5	4"Ø PVC	115/1/60	UHE-100T-199E-3NA LAARS	28 x 78	900	SEE NOTES

NOTES:
 1. ASME RATED HEATER W/ STANDARD 150 PSI TEMPERATURE & PRESSURE RELIEF VALVE.
 2. PROVIDE W/ PVC CONCENTRIC VENT KIT FOR EACH HEATER.
 3. PROVIDE A CONDENSATE DRAIN (SCH.40 PVC) ON BOTTOM OF EXHAUST FLUE VENT & CONDENSATE ACID NEUTRALIZATION TUBE MODEL #JM-3 FOR EACH HEATER. PIPE TO NEAREST FLOOR DRAIN W/ A PROPER PITCH.

ELEVATOR SUMP PUMP SCHEDULE

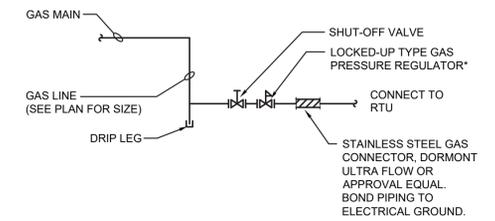
(GOULDS PUMP AS STANDARD)

TAG No.	LOCATION	GPM	HD (FT)	HP	RPM	ELECTRICAL DATA VOLT/PH/Hz	MODEL & MANUFACTURER	REMARKS
ESP-1	ELEVATOR SUMP PIT	50	15	1/3	3,450	115/1/60	ELKTWE051H GOULDS PUMP	ELEVATOR SUMP PUMP. PROVIDE W/ CONTROL PANEL (ITT CENTRIPRO MODEL #A1SEE1) WITH LIQUID SMART SWITCH & HIGH ALARM CONTROLS, OIL SMART SWITCH (ITT CENTRIPRO MODEL #A1SEEWAWTER), & CHECK & SHUTOFF VALVES.

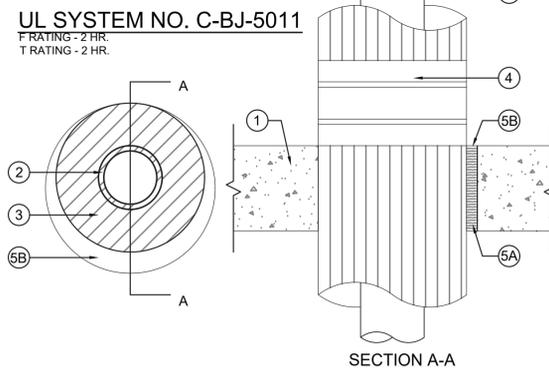
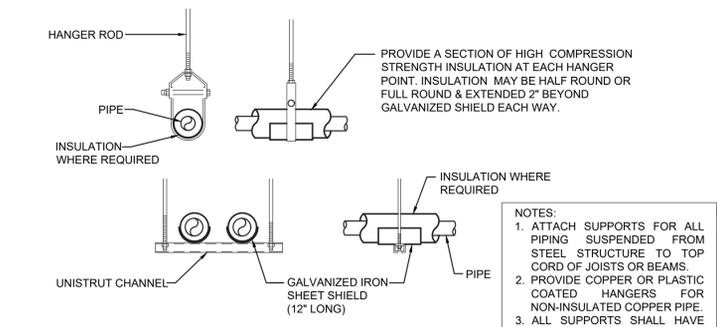
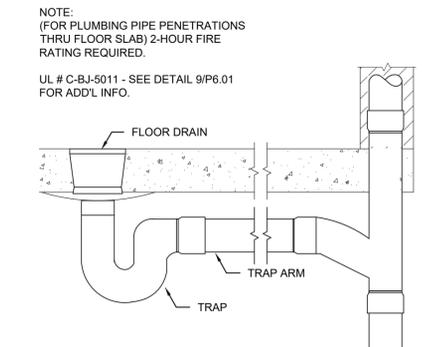
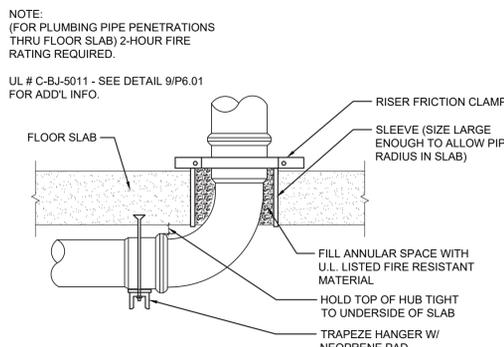
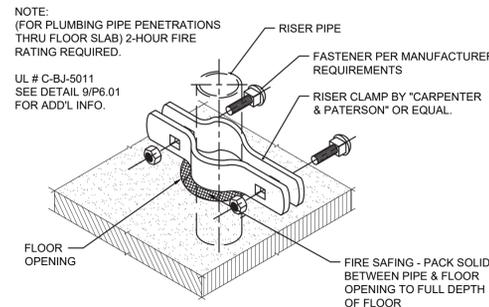
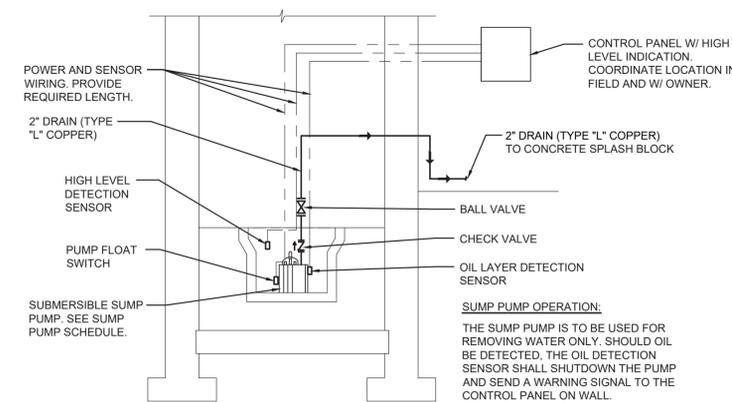
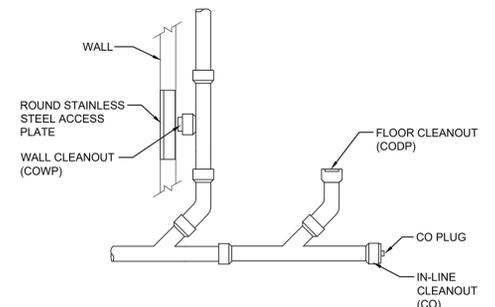
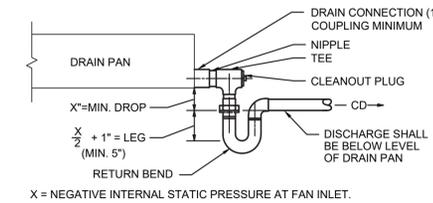
CONDENSATE DRAIN PUMP SCHEDULE

(LITTLE GIANT AS STANDARD)

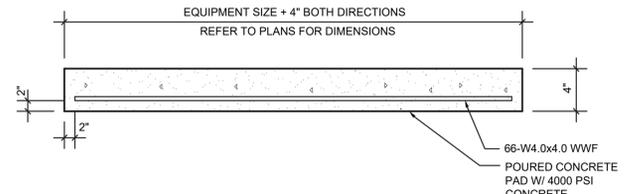
TAG No.	UNIT SERVED	LOCATION	PERFORMANCE (GPH @ HEAD)	SHUT OFF FEET	ELECTRICAL DATA			MODEL & MANUFACTURER	UNIT DIMENSIONS (L x W x H) (IN)	APPROX. WEIGHT (LBS.)	REMARKS	
			10'		HP	VOLT/PH/Hz	AMPS					WATTS
CDP-1, 2	NEW UVs	STORAGE C07 & ART C10	48	20	1/30	115/1/60	1.5	93	VCMA-20UL LITTLE GIANT	10-1/2 x 5-1/8 x 7-1/8	5.0	



- NOTES:
 1. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP.
 2. PITCH DRAIN FOR PROPER RUN-OFF.
 3. MANUALLY, PRIME FILL TRAP BEFORE START-UP TO FORM INITIAL DRAIN SEAL.
 4. SUPPORT LENGTHY DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.



- 6 BASE OF STACK DETAIL**
NOT TO SCALE
- Floor or Wall Assembly - Min 5-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam. of opening is 14 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
 - Through Penetrants - One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly.
 - Pipe Covering* - Cellular Glass Insulation - Max 3 in. thick cellular glass units sized to the outside diam. of the steel pipe and supplied in nom 24 in. long half sections or nom 18 in. long segments. The annular space shall be min 0.3 in. (point contact) to max 2 in. Pipe insulation installed on pipe in accordance with the manufacturer's instructions. PITTSBURGH CORING CORP - FOAMGLAS
 - Metal Jacket - Min. 12 in. long jacket formed on min. 0.010 in. thick steel or aluminum sheet cut to wrap tightly around the pipe insulation with a min. 2 in. lap. Jacket secured with min. 1/2 in. wide stainless steel hose clamps or bands located within 2 in. of each end of the jacket and spaced a max. of 10 in. O.C.
 - Jacket to be installed with edges abutting surface of caulk fill material (Item 5) on both surfaces of wall. Metal jacket to be used in addition to any other jacketing material which may be required to or desired on the pipe insulation.
- Firestop System - The firestop system shall consist of the following:
 A Packaging Material - Min 5 in. thickness of min. 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packaging material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
 B Fill, Void or Cavity Material* - Sealant - Min. 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At point contact location between penetrant and periphery of opening, a min. 1/2 in. diam. bead of fill material shall be applied at the periphery of opening/pipe covering interface on top surface of floor assembly or both surfaces of wall assembly.
 *Bearing the UL Classification Mark

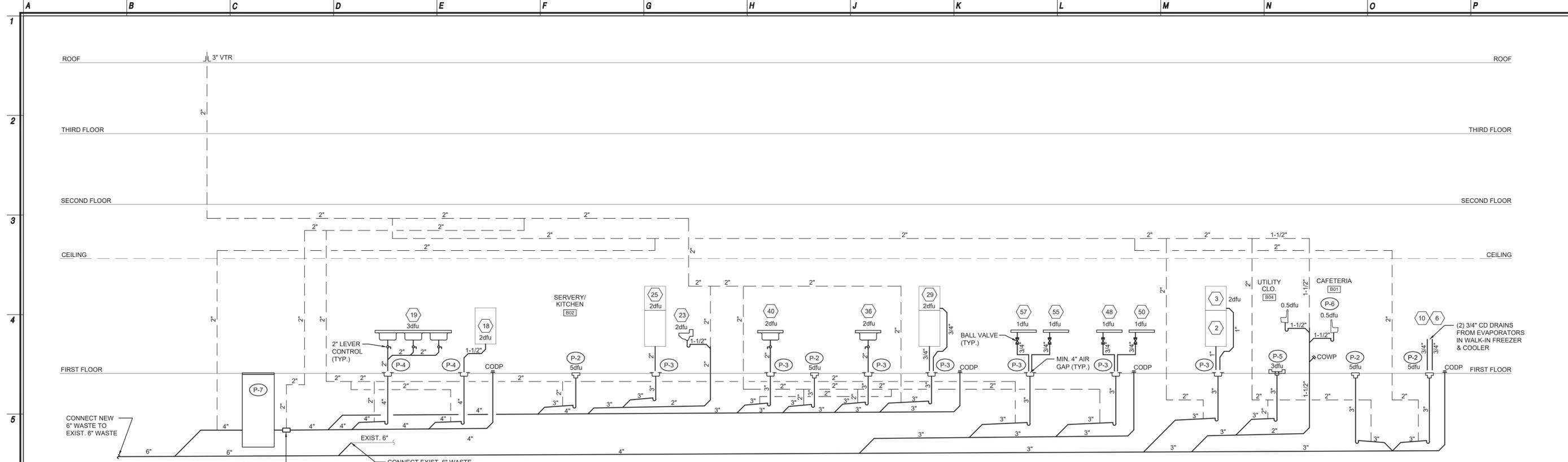


MICHAEL J. MCGOVERN, R.A.
 LICENSE NO. 022257-1
 REGISTERED ARCHITECT

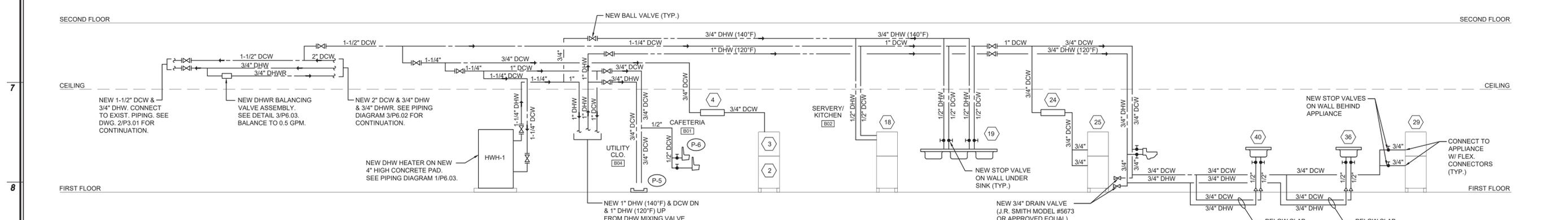
Revisions:
 ISSUE TO BID 11/23/20

LAN ASSOCIATES
 engineering • planning • architecture • surveying
 252 MAIN STREET, GOSHEN, NEW YORK 10924 • (845)615-0350

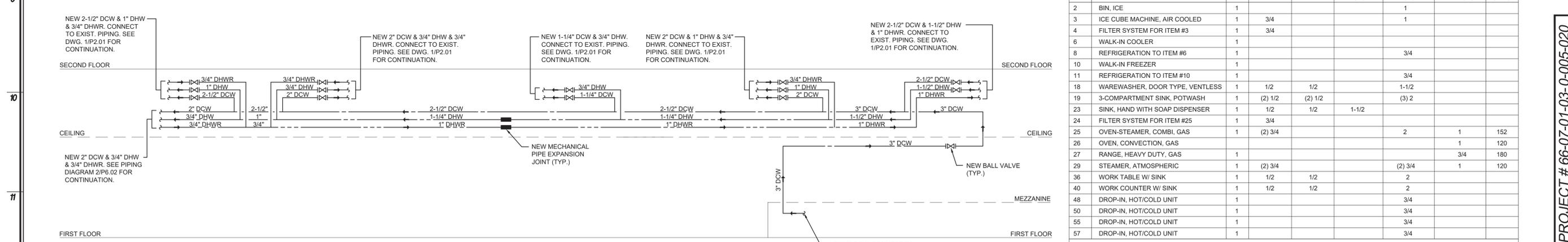
PLUMBING SCHEDULES & DETAILS
 2019 BOND REFERENDUM
 CHATSWORTH AVENUE ELEMENTARY SCHOOL
 MAMARONECK UNION FREE SCHOOL DISTRICT
 CHATSWORTH AVENUE, LARCHMONT, NY 10538
 Job No. 4.1092.72.03
 File No. 10927203P201
P6.01



1 SANITARY PIPING RISER DIAGRAM
NOT TO SCALE



2 DOMESTIC WATER PIPING RISER DIAGRAM
NOT TO SCALE



3 DOMESTIC WATER PIPING RISER DIAGRAM
NOT TO SCALE

KITCHEN EQUIPMENT PLUMBING REQUIREMENTS								
ITEM NO.	EQUIPMENT DESCRIPTION	QTY	DCW SIZE (IN)	DHW SIZE (IN)	DIRECT WASTE SIZE (IN)	INDIRECT WASTE SIZE (IN)	GAS CONNECTION SIZE (IN)	GAS LOAD (CFH)
2	BIN, ICE	1				1		
3	ICE CUBE MACHINE, AIR COOLED	1	3/4"			1		
4	FILTER SYSTEM FOR ITEM #3	1	3/4"					
6	WALK-IN COOLER	1						
8	REFRIGERATION TO ITEM #6	1				3/4"		
10	WALK-IN FREEZER	1						
11	REFRIGERATION TO ITEM #10	1				3/4"		
18	WAREWASHER, DOOR TYPE, VENTLESS	1	1/2"	1/2"		1-1/2"		
19	3-COMPARTMENT SINK, POTWASH	1	(2) 1/2"	(2) 1/2"		(3) 2"		
23	SINK, HAND WITH SOAP DISPENSER	1	1/2"	1/2"		1-1/2"		
24	FILTER SYSTEM FOR ITEM #25	1	3/4"					
25	OVEN-STEAMER, COMBI, GAS	1	(2) 3/4"			2"	1"	152
26	OVEN, CONVECTION, GAS						1"	120
27	RANGE, HEAVY DUTY, GAS	1					3/4"	180
29	STEAMER, ATMOSPHERIC	1	(2) 3/4"			(2) 3/4"	1"	120
36	WORK TABLE W/ SINK	1	1/2"	1/2"		2"		
40	WORK COUNTER W/ SINK	1	1/2"	1/2"		2"		
48	DROP-IN, HOT/COLD UNIT	1				3/4"		
50	DROP-IN, HOT/COLD UNIT	1				3/4"		
55	DROP-IN, HOT/COLD UNIT	1				3/4"		
57	DROP-IN, HOT/COLD UNIT	1				3/4"		

NOTES:
1. REFER TO FOOD SERVICE DETAILS AND SCHEDULES ON ALL FS DWGS. FOR ADD'L INFO. PLUMBING SUBCONTRACTOR IS RESPONSIBLE TO INSTALL ALL PLUMBING PIPING, VALVES, ETC.
2. FAUCETS PROVIDED BY FOOD SERVICE CONTRACTOR WILL MEET THE LEAD-FREE REQUIREMENTS OF NSF 61.

Date: 1/10/20
Checked: AL
Drawn: AL/IM

MICHAEL J. MCGOVERN, P.E.
REGISTERED ARCHITECT
License No. 022257-1

Revisions:
ISSUE TO BO 11/23/20

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW. THESE DOCUMENTS REMAIN THE EXCLUSIVE PROPERTY OF THE ENGINEER, AND MAY NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

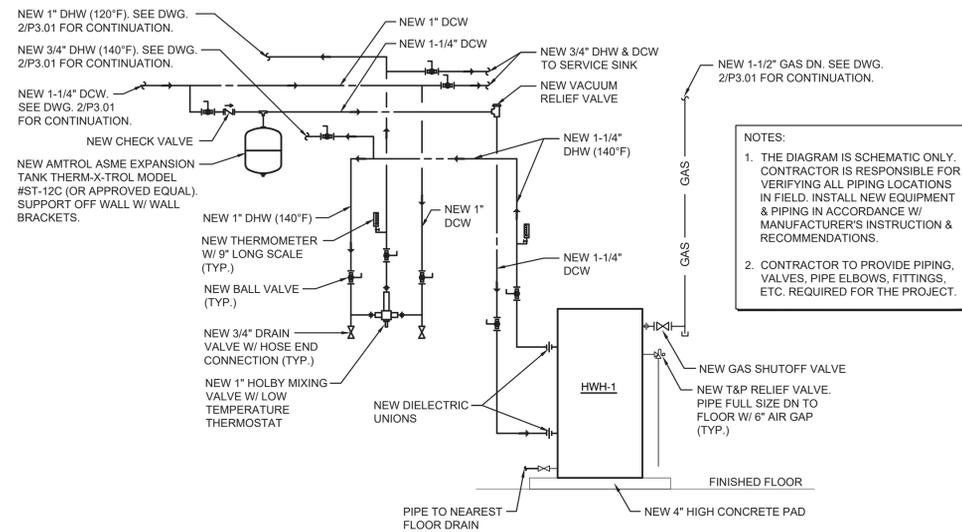
LAN ASSOCIATES
engineering • planning • architecture • surveying
252 MAIN STREET, GOSHEN, NEW YORK 10924 • (845) 613-0350

PLUMBING RISER DIAGRAMS
2019 BOND REFERENDUM
CHATSWORTH AVENUE ELEMENTARY SCHOOL
MAMARONECK UNION FREE SCHOOL DISTRICT
CHATSWORTH AVENUE, LARCHMONT, NY 10538

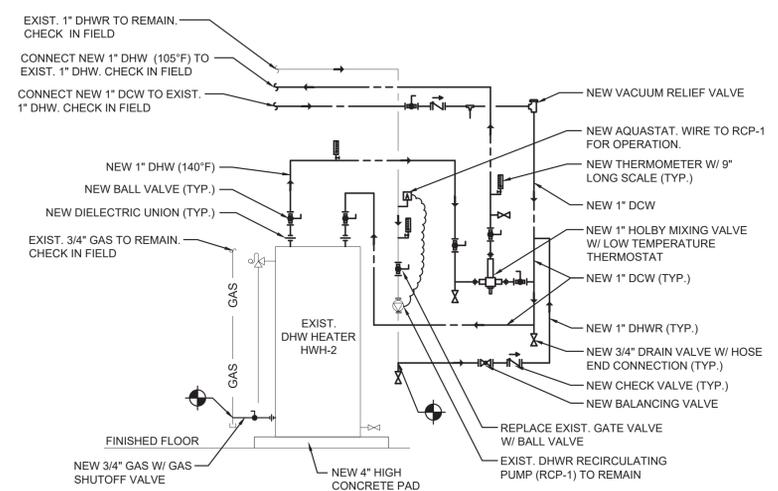
Job No. 4.1092.72.03
File No. 10927203P201

P6.02

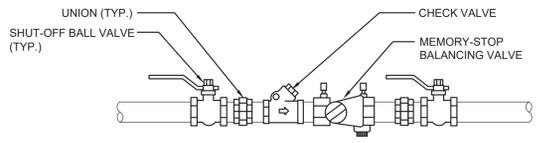
NYSED PROJECT # 66-07-01-03-0-005-020



1 KITCHEN DHW SYSTEM PIPING DIAGRAM
NOT TO SCALE

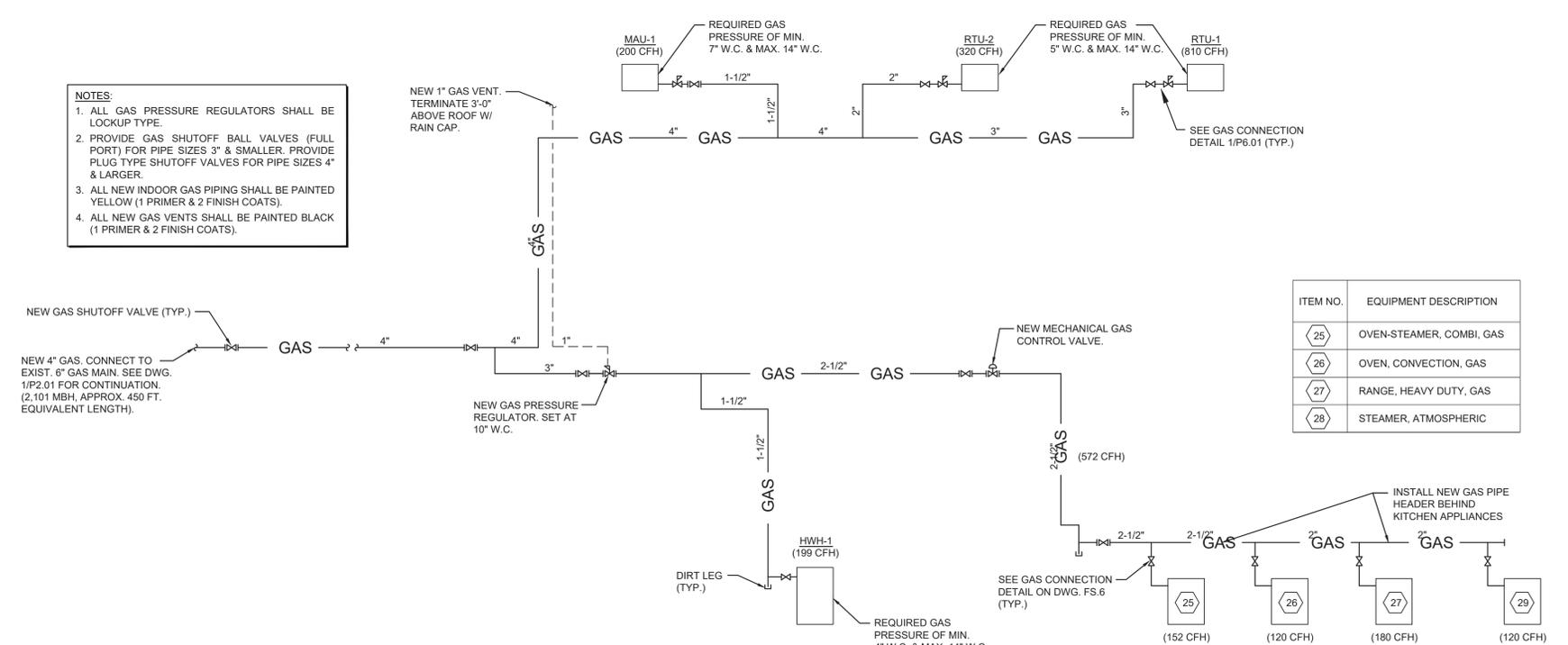


2 EXIST. DHW SYSTEM PIPING DIAGRAM
NOT TO SCALE



NOTES
1. ALL THREADED PIPING BETWEEN UNIONS SHALL BE BRASS.
2. INSTALL DIELECTRIC UNIONS FOR PIPING CONNECTIONS OF DISSIMILAR METALS.

3 DHWR BALANCING ASSEMBLY DETAIL
NOT TO SCALE



4 GAS PIPING RISER DIAGRAM
NOT TO SCALE

ITEM NO.	EQUIPMENT DESCRIPTION
25	OVEN-STEAMER, COMBI, GAS
26	OVEN, CONVECTION, GAS
27	RANGE, HEAVY DUTY, GAS
28	STEAMER, ATMOSPHERIC

Date: 1/10/20
Checked: AL
Drawn: AL/IM

MICHAEL J. MCGOVERN, P.E.
REGISTERED ARCHITECT
License No. 022257-1

Revisions:
11/23/20
ISSUE TO BID

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW. THESE DOCUMENTS REMAIN THE EXCLUSIVE PROPERTY OF THE ENGINEER, AND MAY NOT BE USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

J.J.B.
LAN ASSOCIATES
engineering • planning • architecture • surveying
252 MAIN STREET, GOSHEN, NEW YORK 10924 (845) 615-0350

PLUMBING DIAGRAMS & DETAILS
2019 BOND REFERENDUM
CHATSWORTH AVENUE ELEMENTARY SCHOOL
MAMARONECK UNION FREE SCHOOL DISTRICT
CHATSWORTH AVENUE, LARCHMONT, NY 10538

Job No. 4.1092.72.03
File No. 10927203P201

P6.03

NYS ED PROJECT # 66-07-01-03-0-005-020