Reconstruction To:
Plattekill Elementary School

62-18-01-06-0-005-018

Project Location Map

N

Wallkill Central School District
Wallkill, New York

Drawing List

GENERAL

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G100 Symbols and Abbreviations

Plattekill Elementary School

CODE COMPLIANCE

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DG351 First Floor - Scope of Work and Rescue Window Locations

PLUMBING

DP001 Site Plan

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Drawn By:	Date:	Drawing Number:
TTAE	12/18/2023	AA130
Project No.:		
17597-22002B		

BUILDING DESIGNATOR

DISCIPLINE DESIGNATOR

SHEET TYPE DESIGNATOR

SHEET SEQUENCE DESIGNATOR

TETRA TECH
ARCHITECTS & ENGINEERS

Architecture Engineering Planning
for High Performance Facilities

To the best of the Architect's knowledge, information and belief, the design of this project conforms to all applicable provisions of the New York State Uniform Fire Prevention and Building Code, the New York State Energy Conservation Code, and the building standards of the New York State Education Department.

BID SET

17597-22002B
12/18/2023

Set No.

Drawing Number:
G001

Tetra Tech Engineers, Architects & Landscape Architects, P.C.

Site Symbols

Symbol	Description
+ 83.36	SPOT ELEVATION
+ 99.50 TC / 99.00 BC	TOP OF CURB ELEVATION / BOTTOM OF CURB ELEVATION
+ 83.36	EXISTING SPOT ELEVATION
136	CONTOUR
136	EXISTING CONTOUR
TB-1	SOIL TEST BORING
TP-1	TEST PIT LOCATION
	TREE OR SHRUB
	TREE OR SHRUB TO REMAIN
	TREE OR SHRUB TO BE REMOVED
	ASPHALT PAVING OR TOP COURSE
	HEAVY-DUTY ASPHALT PAVING
	REMOVE AND REPLACE ASPHALT PAVING
	CONCRETE PAVING
	CONCRETE SECTION
	CURBING
	CURBING TO REMAIN
	CURBING TO BE REMOVED
	FENCING
	FENCING TO REMAIN
	FENCING TO BE REMOVED
	SILT FENCING
	TEMPORARY CONSTRUCTION FENCING
	HAY BALES
	TEMPORARY TREE PROTECTION
	UTILITY POLE
	UTILITY POLE TO REMAIN
	UTILITY POLE TO BE REMOVED
	NEW OR RELOCATED FIRE HYDRANT
	FIRE HYDRANT TO REMAIN
	DROP INLET
	CATCH BASIN
	STORM/SANITARY MANHOLE
	DROP INLET TO REMAIN
	MANHOLE/CATCH BASIN/DRYWELL TO REMAIN
	DRYWELL W/ GRATE
	DRYWELL W/ SOLID COVER TO GRADE
	DRYWELL W/ COVER BURIED
ST	STORM LINE WITH HEADWALL
ST	STORM LINE WITH ENDWALL
ST	STORM LINE WITH END SECTION
ST	STORM PIPE
ST	STORM PIPE TO REMAIN
ST	STORM PIPE TO BE REMOVED/ABANDONED
UD	UNDERDRAIN
UD	UNDERDRAIN TO REMAIN
UD	UNDERDRAIN TO BE REMOVED/ABANDONED
SAN	SANITARY LINE
SAN	SANITARY LINE TO REMAIN
SAN	SANITARY LINE TO BE REMOVED/ABANDONED
G	GAS LINE
G	GAS LINE TO REMAIN
G	GAS LINE TO BE REMOVED/ABANDONED
W	WATER LINE
W	WATER LINE TO REMAIN
W	WATER LINE TO BE REMOVED/ABANDONED
CO	STORM/SANITARY CLEANOUT
	GATE VALVE
	SIGN POST
	UNIVERSAL HANDICAP SYMBOL
	REMOVAL
	RIP-RAP

Architectural Symbols

Symbol	Description
	EXISTING TO REMAIN
	DEMOLITION WORK
	NEW WORK IN EXISTING (MATERIAL INDICATION VARIES)
	NEW WORK (MATERIAL INDICATION VARIES)
	CMU AND BRICK CAVITY WALL
	CMU WALL
	GYPSUM BOARD PARTITION W/ METAL STUD WALL
	OPERABLE PARTITION
100 / 1	DOOR NUMBER (ROOM NO W/ DOOR NO)
A	WINDOW TYPE
126	RELOCATED EQUIPMENT FURNITURE OR CASEWORK NUMBER
P3.8	PARTITION TYPE
MGM	BOARD UNIT SYMBOL
	FINISH CHANGE

ROOF SYMBOLS

Symbol	Description
	AREA OF TAPERED INSULATION
	EXISTING ROOF DRAIN WITH RETROFIT ROOF DRAIN INSERT IN NEW FACTORY-TAPERED SUMP
	EJ/CONTROL JOINT
TAPERED 1/4"/FT	DIRECTION OF DOWNWARD SLOPE AND DEGREE OF SLOPE OF TAPERED INSULATION (MINIMUM 1/8"/FT, TYP UNO)
OR	DIRECTION OF DOWNWARD SLOPE OF TAPERED INSULATION CRICKET (MINIMUM 1/4"/FT, TYP UNO)
SLOPE STRU	DIRECTION OF DOWNWARD SLOPE OF ROLLED OR SLOPED STRUCTURE
+X"	TOTAL THICKNESS OF INSULATION
+X" FLAT	TOTAL THICKNESS OF AREA OF FLAT INSULATION
RS-X	DESIGNATES ROOF SYSTEM TYPE
	WALKWAY PAD
S L	SKYLIGHT (REINSTALLED OR REPLACED)
	SMOKE VENT OR ROOF HATCH
OR	PIPE PENETRATION
OR	ROOFTOP HOOD ON CURB, TYP
	ROOFTOP EQUIPMENT ON CURB, TYP (SHAPE AND SIZE VARY)

REFLECTED CEILING SYMBOLS

Symbol	Description
A 0'-0"	BOTTOM OF CEILING AFF
	CEILING MATERIAL
	CEILING HUNG UNIT VENTILATOR OR CEILING HUNG FAN COIL UNIT
	CEILING RETURN/EXHAUST GRILLE
	CEILING SUPPLY DIFFUSER/GRILLE
	EXIT LIGHT
	2 X 4 FIXTURE IN 2 X 2 PATTERN

Structural Symbols

Symbol	Description
	INDICATES AREA IS EXISTING
	INDICATES SLAB IS DEPRESSED OR RECESSED
[-4'-0] [-3'-0] <-1'-8>	TOP OF FTG ELEVATION FROM DATUM
	CONTINUOUS FTG
	FOUNDATION WALL
	BM POCKET ELEVATION FROM DATUM
	STEPPED FOOTING
P1 (-8)	INDICATES PIER TYPE
	TOP OF PIER ELEVATION FROM DATUM
F4 [-3'-0]	TOP OF FOOTING ELEVATION FROM DATUM
	INDICATES FOOTING TYPE REFER TO FOOTING SCHEDULE
RD	INDICATES A FRAMED ROOF OR FLOOR OPNG COORD SIZE AND LOCATION
	INDICATES FRAMED OPNG IS FOR: RD = ROOF DRAIN, ME = MECH EQUIP, SL = SKYLIGHT, SH = SMOKE HATCH, AH = ACCESS HATCH
(-6) W8X15 [14] (GIR) 21K 0.7 21K	ELEVATION FROM DRAWING DATUM
	BEAM SIZE
	NUMBER OF SHEAR STUDS OVER FULL LENGTH OF BEAM
	INDICATES TOP OF BEAM AT ADJ GIRDER ELEV
	END REACTION- KIPS
	DEFLECTION (INCHES) APPROX W/ WET CONC
L-2	LINTEL DESIGNATION SEE SCHEDULE
	INDICATES LINTEL CONNECTION TO COLUMN
E	INDICATES MEMBER IS EXISTING
	INDICATES BEAM SPLICE
	INDICATES MOMENT CONNECTION
	OVER COLUMN
	INDICATES SHEAR WALL CONNECTION TO BEAM
	INDICATES BM TO HAVE TOP OF WALL CLIPS
12K3	JOIST DESIGNATION
	INDICATES BEAM FRAMES
	HORIZONTAL BRIDGING
	JOIST
	DIAGONAL BRIDGING
	MASONRY LOAD BEARING WALL
	SHEAR WALL SEE SCHEDULE
	CFMF BEARING WALL
	FIREWALL
SW1	WALL TYPE

Mechanical Symbols

Symbol	Description
TAG NO. / VALUE	EQUIPMENT TAG (NON-MOTORIZED) / CFM, GPM, CAPACITY
TAG NO. / VALUE	EQUIPMENT TAG (MOTORIZED)
TAG NO. / NECK SZ. / CFM	REGISTER, GRILLE, DIFFUSER
FTR-TYPE / ENC. LENGTH / ELEM. LENGTH / GPM	FIN TUBE RADIATION; ENCLOSURE NOTED AS: W/W: WALL TO WALL, W/U: WALL TO UNIT, W/D: WALL TO DOOR, ETC...
	SUPPLY DUCT - POSITIVE PRESSURE
	RETURN DUCT - NEGATIVE PRESSURE
	EXHAUST DUCT - NEGATIVE PRESSURE
8x8	DUCTWORK, FIRST VALUE IS SIZE OF SIDE IN VIEW
	DUCT TRANSITION
	DUCT OFFSET
	RECTANGULAR ELBOW W/TURNING VANES
	RECTANGULAR ELBOW
	ROUND DUCTWORK W/ MITERED ELBOW
	RADIUS ELBOW W/ TURNING/SPLITTER VANES
	RADIUS ELBOW
	STANDARD BRANCH DUCT W/VOLUME DAMPER
	ACOUSTICALLY LINED DUCTWORK
	ACOUSTICALLY LINED DUCTWORK (UP/DOWN)
OR	FLEXIBLE DUCT
	VOLUME DAMPER
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	FIRE AND SMOKE DAMPER
AAD	AUTOMATIC AIR DAMPER
BDD	BACKDRAFT DAMPER
	EXISTING DUCTWORK
	AIR FLOW
	DUCT AIR FLOW
	EXISTING MECHANICAL EQUIPMENT TO BE REMOVED
	EXISTING MECHANICAL EQUIPMENT
	MECHANICAL EQUIPMENT
	ACCESS CLEARANCE
ATV	ATMOSPHERIC VENT
BBD	BOILER BLOW DOWN
CWS	CHILLED WATER SUPPLY
CWR	CHILLED WATER RETURN
CGS	CHILLED GLYCOL SUPPLY
CGR	CHILLED GLYCOL RETURN
CD	CONDENSATE DRAIN
C	CONDENSER WATER SUPPLY
CR	CONDENSER WATER RETURN
GS	GLYCOL SUPPLY
GR	GLYCOL RETURN
HGS	HOT GLYCOL SUPPLY
HGR	HOT GLYCOL RETURN
HPWS	HEAT PUMP SUPPLY
HPWR	HEAT PUMP RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HCS	HOT/CHILLED WATER SUPPLY
HCR	HOT/CHILLED WATER RETURN
LPS	LOW PRESSURE STEAM
LPC	LOW PRESSURE CONDENSATE
LPWC	LOW PRESSURE STEAM WET (FLOODED) CONDENSATE
MU	MECHANICAL EQUIPMENT MAKE-UP COLD WATER(NON-POTABLE)
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
HG	REFRIGERANT HOT GAS
PD	PUMP DISCHARGE
	REMOVE EXG. DUCT, PIPING, EQUIPMENT
EXG	EXISTING HVAC PIPE
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION
	PIPE ELBOW DOWN
	PIPE ELBOW UP
	PIPE DOWN WITH CLEANOUT AT BASE
	PIPE DOWN WITH SHUTOFF VALVE
	CAP OR PLUG
	UNION CONNECTION
	FLANGE CONNECTION
	PIPING REDUCER (CONCENTRIC)
	PIPING REDUCER (ECCENTRIC)
	PIPE ANCHOR
	PIPE GUIDE
	EXPANSION COMPENSATOR
	EXPANSION JOINT
	FLEX CONNECTOR
	TEMPERATURE OR PRESSURE PROBE WELL
	THERMOMETER
P	PRESSURE SWITCH
P	PRESSURE GAUGE
TP	TEMPERATURE/ PRESSURE GAUGE
V	MANUAL AIR VENT
AV	AUTOMATIC AIR VENT
SV	STEAM VENT
VB	VACUUM BREAKER
F	FLOW SWITCH
M	FLOW METER
	ORIFICE METER
	VENTURI FLOW METER
	WYE STRAINER
	WYE STRAINER WITH BLOW DOWN VALVE
	DIRECTION OF FLOW
	PIPE BREAK
M	WATER METER
	BASKET STRAINER
	DUPLEX BASKET STRAINER
A	AQUASTAT
D	PITCH PIPING (DOWN)
	AUTOMATIC FLOW CONTROL VALVE
	BACKFLOW PREVENTOR
B	BALANCING VALVE
	BALL VALVE
	EXISTING BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	2-WAY CONTROL MODULATING VALVE
	3-WAY CONTROL, MODULATING VALVE (INSTALL STEM VERTICAL)
	3-WAY CONTROL, THERMOSTATIC MIXING VALVE (SELF-CONTAINED)
S	SOLENOID (ELECTRIC) ON/OFF
M	MOTORIZED MODULATING VALVE
	FUSIBLE LINK VALVE
	GAS PRESSURE REGULATOR VALVE
	TRIPLE DUTY VALVE
	GATE VALVE
	GLOBE VALVE
	OS&Y GATE VALVE
	PLUG VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	STEAM TRAP
T	THERMOSTATIC STEAM TRAP
FT	FLOAT AND THERMOSTATIC STEAM TRAP
B	BUCKET STEAM TRAP
	AIR SEPARATOR
	CIRCULATING PUMP
	WATER HAMMER ARRESTOR
	CLEANOUT PLUG
CODP	CLEANOUT DECK PLATE
F	FIRE RISER VALVE ASSEMBLY
BS	BURNER SHUT OFF
H	HUMIDISTAT
H S	HUMIDITY SENSOR
H SG	HUMIDITY SENSOR W/ GUARD
P S	PRESSURE SENSOR
P SG	PRESSURE SENSOR W/ GUARD
S	SWITCH
T	THERMOSTAT
T G	THERMOSTAT W/ GUARD
T S	TEMPERATURE SENSOR
CO2	CO2 SENSOR
POC	POINT OF CONNECTION
	FIRE DEPARTMENT CONNECTION
	CONNECTION TO EXISTING PIPING
	PLATE STRAINER
	HOSE BIBB
CA	COMPRESSED AIR
LV	LABORATORY VENT
LW	LABORATORY WASTE
LW	LABORATORY WASTE (BURIED)
V	VENT
SAN	SANITARY (ABOVE GRADE)
SAN	SANITARY (BURIED)
IW	INDIRECT WASTE
ST	STORM (ABOVE GRADE)
ST	STORM (BURIED)
SP	FIRE STANDPIPE
F	FIRE MAIN
SPRK	FIRE SPRINKLER
	EXISTING COLD WATER
	EXISTING HOT WATER
	EXG HOT WATER RETURN
110° HW	EXISTING 110° HOT WATER
140° HW	EXISTING 140° HOT WATER
180° HW	EXISTING 180° HOT WATER
	COLD WATER
	HOT WATER
	HOT WATER RETURN
110° HW	110° HOT WATER
140° HW	140° HOT WATER
180° HW	180° HOT WATER
TW	TEMPERED (HOT) WATER
RAW	RAW WATER
SW	SOFT WATER
DE	DEIONIZED WATER
DI	DISTILLED WATER
G	GAS
P	PROPANE
D	DIESEL FUEL
U	UNLEADED GASOLINE
FOS	EXG FUEL OIL SUPPLY
FOS	FUEL OIL SUPPLY
FOR	EXG FUEL OIL RETURN
FOR	FUEL OIL RETURN
FOV	EXG FUEL OIL VENT
FOV	FUEL OIL VENT
MU	MECHANICAL EQUIPMENT MAKE-UP COLD WATER (NON-POTABLE)
	EXISTING ROOF DRAIN
	ROOF DRAIN REPLACING EXG
	ROOF DRAIN
	SCUPPER ROOF DRAIN
	EXG PLUMBING FIXTURE TO BE REMOVED
	EXG PLUMBING FIXTURE
	PLUMBING FIXTURE
	FLOOR DRAINS
	FLOOR SINK
	WALL HYDRANT
	FIRE HOSE CABINET
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	RECESSED SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD

Electrical and Technology Symbols

Symbol	Description
#	LIGHT FIXTURE # DENOTES TYPE
#	LIGHT FIXTURE # DENOTES TYPE
	RETROFITTED LIGHT FIXTURE AS NOTED
#	COMBINATION EXIT/EMERGENCY LIGHT # DENOTES TYPE
#	EMERGENCY LIGHT W/BATTERY PACK # DENOTES TYPE
#	EMER. LIGHT/WALL MOUNT # DENOTES TYPE
	EMERGENCY FIXTURE # DENOTES TYPE
#	EMERGENCY FIXTURE # DENOTES TYPE
#	EXIT LIGHT- CEILING MOUNTED # DENOTES TYPE
#	EXIT LIGHT -WALL MOUNTED # DENOTES TYPE
DLS	DAYLIGHT SENSOR
AR #	AREA OF RESCUE LIGHT FIXTURE # DENOTES TYPE
#	POLE MOUNTED SITE LIGHT # DENOTES TYPE
$	LIGHT SWITCH (LINE VOLTAGE): K - KEY OPERATED, 3 - 3 WAY, 4 - 4 WAY
$	LIGHT SWITCH (LOW VOLTAGE)
TC	TIME CLOCK
OS	OCCUPANCY SENSOR
VS	VACANCY SENSOR
PC	PHOTO CELL
LC	LIGHTING CONTROL
F	FIRE ALARM MANUAL PULL STATION
F F	FIRE ALARM BELL- W/STROBE W/0 STROBE
F F	FIRE ALARM HORN- W/STROBE W/0 STROBE
S	SMOKE DETECTOR
B	BEAM SMOKE DETECTOR
S D	DUCT SMOKE DETECTOR
H	RATE OF RISE HEAT DETECTOR
H F	FIXED HEAT DETECTOR
S	FIRE ALARM STROBE LIGHT
DH	MAGNETIC DOOR HOLDER
A	FIRE ALARM / VOICE NOTIFICATION SPEAKER (WALL)
A	FIRE ALARM / VOICE NOTIFICATION SPEAKER (CEILING)
A	FIRE ALARM / VOICE NOTIFICATION SPEAKER STROBE (CEILING)
A	FIRE ALARM / VOICE NOTIFICATION SPEAKER STROBE (WALL)
A	FIRE ALARM / VOICE NOTIFICATION STROBE (WALL)
R	RELAY
RTS	REMOTE INDICATOR TEST SWITCH
FS	SPRINKLER FLOW SWITCH
TS	SPRINKLER TAMPER SWITCH
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAGA	FIRE ALARM GRAPHIC ANNUNCIATOR
CS	CONTROL STATION- TYPE AS DESCRIBED ON DWGS.
HCL	HOUSE LIGHTING CONTROL STATION
DCR	DIMMER CONTROL OUTLET
AR	AREA OF RESCUE STATION
MJ	MICROPHONE JACK
SJ	SPEAKER JACK
P	HOUSE LIGHT PANIC STATION
AI	AUDITORIUM INTERCOM
S	COMBINATION CLOCK/SPEAKER
	CLOCK
	EXISTING TELEPHONE
	TELEPHONE OUTLET: W - WALL MOUNT AT 54" AFF, IC - INTERCOM SOUND SYSTEM HAND SET, BLANK - WALL MOUNT AT 16" AFF
	FLOOR TELEPHONE OUTLET
	INTERCOM CALL SWITCH
TV	TELEVISION OUTLET
CO	COMPUTER OUTLET
A/V	AUDIO/VIDEO OUTLET
	PROJECTOR MOUNTING TILE
	CABLE TRAY - LADDER TYPE
	CABLE TRAY - BASKET TYPE
SR	SURFACE RACEWAY TYPE AS DESCRIBED ON DWGS.
CI	COMMUNICATION INTERFACE OUTLET
S	CEILING MOUNT SPEAKER
S	WALL MOUNT SPEAKER
VC	VOLUME CONTROL
H	HORN SPEAKER
P	PROGRAM BELL
FB	FLOOR BOX
DR	DOOR RELEASE
SE	SECURITY ALARM HORN
SE	SECURITY SENSOR: GB - GLASS BREAK, MD - MOTION DETECTOR, SD - SOUND DETECTOR
DC	SECURITY DOOR CONTACT
KP #	SECURITY SYSTEM KEYPAD # DENOTES DESIGNATION
#	SECURITY CAMERA # DENOTES DESIGNATION
REX	SECURITY REQUEST TO EXIT SENSOR
PS #	LOW-VOLTAGE POWER SUPPLY # DENOTES DESIGNATION
ELH	SECURITY ELECTRIC LOCKING HARDWARE
IC #	DOOR INTERCOM CALL STATION # DENOTES DESIGNATION
CR #	ACCESS CONTROL CARD READER # DENOTES DESIGNATION
ADA	ADA PUSH BUTTON
MON	SECURITY CCTV MONITOR
DB	SECURITY DURESS BUTTON
	EXISTING PANEL TO REMAIN
	EXISTING PANEL TO REPLACE
	NEW PANEL
SPD	SURGE PROTECTION DEVICE
	MOTOR
LABEL #	NEW MOTOR SEE SCHEDULE FOR DESCRIPTION
PB	PULL BOX
J	JUNCTION BOX
H	HAND/HAIR DRYER
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE
	DUPLEX FLOOR RECEPTACLE
CR	CORD REEL
	TELE./DATA POWER POLE
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MOTOR STARTER
	COMBINATION STARTER
C	CONTACTOR
CB	ENCLOSED CIRCUIT BREAKER
	EQUIPMENT CONNECTION
	EMERGENCY OFF BUTTON
T#	TRANSFORMER # DENOTES DESIGNATION REFER TO RISER DIAGRAM
P	UTILITY POLE
UT	UNDERGROUND TELEPHONE
T	OVERHEAD TELEPHONE
UTV	UNDERGROUND TELEVISION
TV	OVERHEAD TELEVISION
UL	UNDERGROUND LIGHTING
L	OVERHEAD LIGHTING
UE	UNDERGROUND ELECTRIC
E	OVERHEAD ELECTRIC
UC	UNDERGROUND COMMUNICATIONS
C	OVERHEAD COMMUNICATIONS

Symbol Tags

- F = REMOVE EXISTING
- F E = EXISTING TO REMAIN
- F RL = RELOCATE EXISTING
- F RE = REPLACE EXISTING

TYPICAL FOR ALL ELEC SYMBOLS

- AC = ABOVE CEILING
- AUX = AUXILLARY CONTACT
- WP = WEATHERPROOF
- WG = WIRE GUARD
- A = ABOVE (CASEWORK)
- B = BELOW (CASEWORK)
- H = HORIZONTAL
- TK = TOE KICK
- TS = TEACHER STATION
- USB = UNIVERSAL SERIAL BUS

Standard Symbols

Symbol	Description
2 / A12	STANDARD REFERENCE BUBBLE: DETAIL NUMBER, DRAWING NUMBER
Floor Plan 1/8"=1'-0"	DRAWING TITLE & SCALE
2 / A112	BUILDING SECTION
CLL	CONTRACT LIMIT LINE
	ADA 5' TURNING RADIUS
100'-0" 1st FF	ELEVATION CALL OUT
2 / A112	WALL SECTION
2 / A12	ELEVATION
1 / 4 A112 2 / 3	INTERIOR ELEVATION
2 / A112	DETAIL
N	NORTH ARROW
CLASSROOM 101	ROOM NAME AND NUMBER
	PROPERTY LINE
	CUT LINE
A	COLUMN CENTER LINE
	CENTER LINE
A B / A B	MATCH LINE
5	DRAWING REVISION NUMBER
	EARTH
	GRAVEL
	SAND
	CONCRETE
	NEW ASPHALT PAVING OR TOP COURSE
	NEW HEAVY-DUTY ASPHALT PAVING
	REMOVE AND REPLACE ASPHALT PAVING
	BRICK
	CONCRETE MASONRY UNITS
	STONE
	FINISHED WOOD TRIM
	PLYWOOD
	INSULATION (LOOSE OR BATT)
	ROUGH WOOD
	STRUCTURAL GLAZED TILE
	RIGID INSULATION
	METAL, STEEL
	TERRAZZO
	ACOUSTICAL PANEL
	CERAMIC TILE
	RESILIENT FLOORING
	GLASS (LARGE SCALE)
	PLASTER, CEMENT, GROUT, GYPSUM WALL BOARD

Abbreviations

Abbreviation	Meaning
A	
A/S	AIR SEPARATOR
AAC	ASBESTOS ABATEMENT CONTRACTOR
AAD	AUTOMATIC AIR DAMPER
AB	ANCHOR BOLT, AIR BARRIER
AC	AIR CONDITIONING, ALTERNATING CURRENT
ACCMP	ASPHALT COATED CORR METAL PIPE
ACM	ASBESTOS CONTAINING MATERIAL
ACT	ACOUSTICAL CEILING TILE
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
ADA	AMERICAN DISABILITIES ACT
ADD	ADDENDUM
ADDL	ADDITIONAL
ADDN	ADDITION
ADH	ADHESIVE
ADJ	ADJACENT
ADR	ACCESS DOOR
AESS	ARCH EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
AH	ACCESS HATCH
AHU	AIR HANDLING UNIT
AIB	AIR INFILTRATION BARRIER
ALT	ALTERNATE
ALTB	ACOUSTICALLY LINED TRANSFER BOX
ALTN	ALTERATION
ALUM	ALUMINUM
AMP	AMPERE
ANOD	ANODIZED
ANT	ACID NEUTRALIZATION TANK
AP	ACCESS PANEL, APPROX, APPROXIMATE(LY)
APC	ARCHITECTURAL PRECAST CONCRETE
ARCH	ARCHITECT (URAL)
ASB	ASBESTOS
ASPH	ASPHALT
ATV	ATMOSPHERIC VENT
AUD	AUDITORIUM
AUTO	AUTOMATIC
AVE	AVERAGE
B	
B	BOILER, BRICK, BOTTOM
BB	BASKETBALL
BBD	BOILER BLOWDOWN
BC	BOTTOM OF CURB
BCU	BLOWER COIL UNIT
BCX	BOTTOM CHORD EXTENSION
BD	BOARD
BDD	BACKDRAFT DAMPER
BF	BACK FLOW PREVENTER
BG	BOTTOM GRILLE
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BO	BY OTHERS
BOD	BOTTOM OF DUCT
BOF	BOTTOM OF FOOTING
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BPL	BEARING PLATE
BR	BOTTOM REGISTER
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BRSH	BRICKSHELF
BRZ	BRONZE
BS	BOTH SIDES, BOTTOM OF STAIR
BSMT	BASEMENT
BSPL	BACKSPLASH
BT	BENT
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
BUR	BUILT-UP ROOFING
BW	BOTTOM OF WALL
BWC	BACK WATER CHECK VALVE
C	
C	CONDUIT, CONVECTOR, CONDENSOR, COMMON, CARPET
CA	COMPRESSED AIR
CAB	CABINET
CATV	CABLE TELEVISION
CB	CATCH BASIN, CIRCUIT BREAKER, CHALKBOARD
CCTV	CLOSED CIRCUIT TELEVISION
CD	CEILING DIFFUSER, CONDENSATE DRAIN
CEM	CEMENT
CER	CERAMIC
CF	CUBIC FEET, CEILING FAN
CFM	CUBIC FEET PER MINUTE
CFMF	COLD FORMED METAL FRAMING
CFT	CERAMIC FLOOR TILE
CG	CEILING GRILLE
CHAN	CHANNEL
CHUV	CEILING HUNG UNIT VENTILATOR
CI	CAST IRON
CIP	CAST IN PLACE
CIRC	CIRCUMFERENCE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLKG	CAULKING
CLL	CONTRACT LIMIT LINE
CLR	CLEAR (ING) (ENCE)
CLRM	CLASSROOM
CMP	CORRUGATED METAL PANEL
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
CODP	CLEAN OUT DECK PLATE
COL	COLUMN
COMB	COMBINATION
COMP	COMPRESS (ED) (ION) (IBLE), COMPOSITE
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACT (OR)
COORD	COORDINATE
CORR	CORRUGATED, CORRIDOR
COWP	CLEAN OUT WALL PLATE
CPVC	CHLORINATED POLY VINYL CHLORIDE
CR	CEILING REGISTER
CRS	COURSE (S)
CSK	COUNTERSINK
CSMT	CASEMENT
CT	COMPUTER TERMINAL, CERAMIC BASE TILE
CTD	COATED
CTOP	COUNTER TOP
CTR	CENTER
CU	CUBIC
CUH	CABINET UNIT HEATER
CV	CONVECTOR, CURB VALVE
CW	COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
CWT	CERAMIC WALL TILE
D	
D	DIESEL FUEL, DEPTH
DB	DRY BULB
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DE	DELONIZED WATER
DEG	DEGREES
DEMO	DEMOLISH
DEP	DEPRESS (ED) (ION)
DET	DETAIL (ED)
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DHU	DEHUMIDIFICATION UNIT
DI	DROP INLET, DUCTILE IRON, DISTILLED WATER
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIST	DISTANCE
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DO	DITTO
DP	DAMPPROOF (ING)
DPR	DAMPER
DR	DOOR, DEEP RIB
DS	DOWNSPOUT, DRAINAGE STRUCTURE
DT	DRAIN TILE
DTA	DOVETAIL ANCHOR
DTL	DETAIL
DTR	DUAL TEMPERATURE RETURN
DTS	DUAL TEMPERATURE SUPPLY
DW	DUMBWAITER, DISHWASHER
DWG	DRAWING
DWL	DOWEL
DWR	DRAWER
E	
E	EAST
EA	EXHAUST AIR, EACH
EAT	ENTERING AIR TEMPERATURE
EB	EXPANSION BOLT
EC	ELECTRICAL CONTRACTOR
ECF	ENHANCED CONCRETE FLOORING
EF	EACH FACE, EXHAUST FAN
EIFS	EXTERIOR INSULATION SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC (AL)
ELEM	ELEMENT
ELEV	ELEVATION, ELEVATOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENC	ENCLOSURE
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL, EQUIVALENT
EQC	EQUIPMENT CONTRACTOR
EQUIP	EQUIPMENT
ES	EXPOSED SURFACE, EXPOSED STRUCTURE
ESF	ELASTIC SHEET FLASHING
ESM	ELASTIC SHEET MEMBRANE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXG	EXISTING
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR, EXTERNAL
F	
F	FAHRENHEIT
FA	FIRE ALARM
FAI	FRESH AIR INTAKE
FCU	FAN COOLING UNIT
FD	FLOOR DRAIN, FIRE DAMPER
FDC	FDCFIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR, FACTORY FINISH
FFE	FINISH FLOOR ELEVATION
FFL	FINISH FLOOR LINE
FG	FLOOR GRILLE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH (ED)
FIXT	FIXTURE
FL	FLUSH
FLD	FLOOR DUCT
FLEX	FLEXIBLE
FLG	FLASHING
FLR	FLOOR (ING)
FLUOR	FLUORESCENT
FM	FLOOR MOUNTED
FMC	FLEXIBLE METAL CONDUIT
FND	FOUNDATION
FOB	FREIGHT ON BOARD, FLAT ON BOTTOM
FOG	FUEL OIL GAUGE
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOT	FLAT ON TOP
FP	FIREPROOF (ING)
FPM	FEET PER MINUTE
FR	FRAME, FLOOR REGISTER
FRA	FRESH AIR
FRC	FIRE RESISTANT COATING
FRP	FIBERGLASS REINFORCED PANEL
FRT	FIRE RETARDANT
FS	FLOOR SINK
FSD	FIRE AND SMOKE DAMPER
FT	FEET, FLOOR TREATMENT
FTG	FOOTING
FTR	FIN TUBE RADIATION
FV	FLUSH VALVE
G	
G	GAS, GLYCOL
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GASK	GASKET (ED)
GC	GENERAL CONTRACT (OR)
GCMU	GLAZED CONCRETE MASONRY UNIT
GCO	GRADE CLEANOUT GF GROUND FACE
GL	GLASS, GLAZING
GND	GROUND
GPM	GALLONS PER MINUTE
GR	GRADE (ING), GLYCOL RETURN
GS	GLYCOL SUPPLY
GVL	GRAVEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	
H	HEIGHT
HB	HOSE BIB
HBD	HARD BOARD
HC	HEATING CONTRACT (OR), HANDICAP
HCR	HOT/CHILLED RETURN
HCS	HOT/CHILLED SUPPLY
HD	HEAVY DUTY
HDPE	HIGH DENSITY POLYETHYLENE
HDR	HEADER
HDW	HARDWARE
HG	HOT GLYCOL
HIP	HIGH IMPACT PANEL
HM	HOLLOW METAL
HORZ	HORIZONTAL
HP	HORSEPOWER, HIGH PRESSURE, HEAT PUMP
HPC	HIGH PERFORMANCE COATING
HPL	HIGH PRESSURE LAMINATE
HPR	HEAT PUMP LOOP WATER RETURN
HPS	HEAT PUMP LOOP WATER SUPPLY
HR	HANDRAIL, HOUR
HT	HEIGHT
HTG	HEATING
HV	HIGH VOLTAGE
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HVU	HEATING AND VENTILATING UNIT
HW	HOT WATER
HWH	HOT WATER HEATER
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
I	
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
INCL	INCLUDE (D) (ING)
INS	INSULATE (D) (ION)
INT	INTERIOR
INV	INVERT
IP	IRON PIPE
IPS	IRON PIPE SIZE
IW	INDIRECT WASTE
J	
J	JANITORS CLOSET
JAN	JANITORS CLOSET
JB	JUNCTION BOX
JC	JANITORS CLOSET
JCT	JUNCTION
JT	JOINT
K	
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT PER HOUR
L	
L	LENGTH, LONG
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE (D)
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LB	POUND
LBL	LABEL
LBP	LEAD BASED PAINT
LC	LANDSCAPE CONTRACTOR (SITE)
LCC	LEAD COATED COPPER
LDR	LEADER
LEV	LEVEL
LF	LINEAR FOOT
LFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT
LFNC	LIQUID-TIGHT FLEXIBLE NONMETALLIC CONDUIT
LG	LENGTH, LONG
LGI	LARGE GROUP INSTRUCTION
LH	LEFT HAND
LIN	LINEAR
LKR	LOCKER
LL	LIVE LOAD
LP	LOW PRESSURE
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LPT	LOW POINT
LS	LINOLEUM SHEET
LT	LIGHT, LINOLEUM TILE
LTL	LINTEL
LV	LABORATORY VENT, LOW VOLTAGE
LVR	LOUVER
LW	LABORATORY WASTE
LWT	LEAVING WATER TEMPERATURE
M	
MAN	MANUAL
MAS	MASONRY
MAT	MATERIAL
MAU	MAKE UP AIR UNIT
MAX	MAXIMUM
MB	MARKER BOARD
MBH	THOUSAND BTUH
MBR	MEMBER
MD	MOTORIZED DAMPER
ME	MECHANICAL EQUIPMENT
MECH	MECHANICAL (LY)
MED	MEDIUM
MEMB	MEMBRANE
MF	MIXING FAUCET
MFR	MANUFACTURE (R)
MH	MAN HOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOD	MODULE (OR), MODEL
MP	MULTICOLOR WALL COATING
MR	MOP RECEPTOR
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MTH	MARBLE THRESHOLD
MTL	METAL
MTR	METER
MULL	MULLION
MVEJ	MASONRY VENEER EXPANSION JOINT
N	
N	NORTH
NAT	NATURAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEG	NEGATIVE
NEUT	NEUTRALIZATION
NIC	NOT IN CONTRACT
NO	NUMBER, NORMALLY OPEN
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O	
OA	OVERALL, OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OPP HD	OPPOSITE HAND
P	
P	PAINT SURFACE(S) INCLUDING SOFFITS
PAR	PARALLEL
PART	PARTITION
PC	PLUMBING CONTRACT (OR), PIGMENTED CONCRETE
PCC	PRECAST CONCRETE
PE	PORCELAIN ENAMEL
PENC	PRE-EXISTING NON-CONFORMING
PERF	PERFORATE (ION) (ED)
PERI	PERIMETER
PERP	PERPENDICULAR
PL	PLATE, PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER, PLASTIC
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PM	PLUGMOLD
PNL	PANEL
POC	POINT OF CURVATURE, POINT OF CONNECTION
POL	POLISHED
POS	POSITIVE
POT	POINT OF TANGENCY
PR	PAIR
PRE	POWER ROOF EXHAUSTER
PREP	PREPARE (ATION)
PRF	PREFORMED
PROJ	PROJECT
PS	PAINT EXPOSED STRUCTURE/DECK
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT, PORCELAIN TILE
PTD	PAINTED
PTFR	PRESSURE TREATED FIRE RETARDANT
PTP	PRESSURE TREATED PRESERVATIVE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWE	POWER WALL EXHAUSTER
Q	
QF	QUARTZ FLOORING
QT	QUARRY TILE
R	
R	RADIUS, RETURN, REFRIGERANT
RA	RETURN AIR
RAD	RADIATION
RAF	RETURN AIR FAN, RESILIENT ATHLETIC FLOORING
RB	RESILIENT BASE
RC	ROOFING CONTRACT (OR)
RCA	RECYCLED CONCRETE AGGREGATE
RCP	REINFORCED CONCRETE PIPE, REFLECTED CEILING PLAN
RCU	REMOTE CONDENSING UNIT
RD	ROOF DRAIN
RECEPT	RECEPTACLE
REF	REFERENCE
REFL	REFLECT (ED) (IVE) (OR)
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE (D) (ING)
REM	REMOVED
REQD	REQUIRED
RESIL	RESILIENT
RET	RETAINING, RETURN
REV	REVISION, REVISED, REVEAL
RF	RUBBER FLOORING
RFG	ROOFING
RFH	ROOF HATCH
RFM	RECESSED FLOOR MAT
RG	RETURN GRILLE
RGS	RIGID GALVANIZED STEEL
RH	RIGHT HAND
RHC	REHEAT COIL
RI	ROUGH-IN
RL	RAIN LEADER
RLG	RAIL(ING)
RM	ROOM
RMC	RIGID METAL CONDUIT
RNC	RIGID NONMETALLIC CONDUIT
RNT	RUNNING TRAP
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPM	REVOLUTIONS PER MINUTE
RR	REMOVE EXISTING AND REPLACE WITH NEW
RS	RUBBER STAIR TREAD/RISER
RTH	ROOF TOP HOOD
RTU	ROOF TOP UNIT
RW	RAW WATER
S	
S	SOUTH, SUPPLY, SURGE PROTECTED
SA	SUPPLY AIR
SAN	SANITARY
SAS	SMOOTH ALL SIDES
SC	SOLID CORE, SILL COCK, SEALED CONCRETE
SCHED	SCHEDULE
SCT	STRUCTURAL CLAY TILE
SD	STORM DRAIN, SPLITTER DAMPER, SMOKE DAMPER
SEC	SECTION
SF	SQUARE FEET
SGI	SMALL GROUP INSTRUCTION
SGT	STRUCTURAL GLAZED TILE
SH	SHELF, SHELVING, SMOKE HATCH
SHR	SHOWER, SHEAR WALL
SHT	SHEET
SHTHG	SHEATHING
SIM	SIMILAR
SK	SINK
SL	SOUND LINED, SKYLIGHT
SLC	SILLCOCK
SLV	SLEEVE
SLVR	STORM LOUVER
SMH	SANITARY MANHOLE
SOG	SLAB ON GRADE
SP	STATIC PRESSURE, STANDPIPE, SPACE (ING) (ES)
SPEC	SPECIFICATION (S)
SPKR	SPRINKLER
SPL	SPECIAL
SQ	SQUARE
SS	STAINLESS STEEL
SST	STRUCTURAL STEEL TUBING
ST	STORM, STORAGE
STA	STATION
STC	SHOWER TEMPERATURE CONTROLLER, STAINED CONCRETE
STD	STANDARD
STG	SEATING
STL	STEEL
STN	STAIN (ED)
STOR	STORAGE
STRU	STRUCTURAL
SURF	SURFACE
SUSP	SUSPSUSPENDED
SV	SHEET VINYL, STEAM VENT
SW	SWITCH, SOFTENED WATER
SWCI	SERVICE WEIGHT CAST IRON
SYM	SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
T	
T	TREAD, TOP, TOILET ROOM, TONS, TERRAZZO
TB	TOP AND BOTTOM, TACK BOARD, TERRAZZO BASE
TBD	TO BE DETERMINED
TC	TEMPERATURE CONTROL, TEMPERED CLEAR, TELECOMMUNICATION CONTRACTOR, TOP OF CURB
TCX	TOP CHORD EXTENTION
TDV	TRIPLE DUTY VALVE
TEL	TELEPHONE
TEMP	TEMPERATURE
TG	TOP GRILLE, TONGUE AND GROOVE
THK	THICKNESS
THR	THRESHOLD
TME	TO MATCH EXISTING
TMV	THERMOSTATIC MIXING VALVE
TOD	TOP OF DUCT
TOF	TOP OF FASCIA, TOP OF FOOTING
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOP	TOP OF PIPE, TOP OF PIER
TOS	TOP OF STEEL, TOP OF STAIR
TPART	TOILET PARTITION
TR	TOP REGISTER
TRN	TRANSOM
TS	TOP OF STAIR
TV	TELEVISION
TW	TEMPERED WATER, TOP OF WALL
TYP	TYPICAL
U	
UC	UNDERCUT
UD	UNDERDRAIN
UE	UNDERGROUND ELECTRIC
UG	UNDERGROUND
UH	UNIT HEATER
UNF	UNFINISHED
UNIF	UNIFORM
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UT	UNDERGROUND TELEPHONE
UV	UNIT VENTILATOR
V	
V	VENT, VOLT
VAR	VARIES, VARIABLE
VARN	VARNISH
VAT	VINYL ASBESTOS TILE
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER, VAPOR RETARDER BARRIER, VOLLEYBALL
VCB	VENTED COVE BASE
VCT	VINYL COMPOSITE TILE
VD	VOLUME DAMPER
VERM	VERMICULITE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIN	VINYL
VIT	VITREOUS TILE
VNR	VENEER
VOL	VOLUME
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	
W	WEST, WIDTH, WIDE, WASTE, WATT
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER CLOSET, WALL COVERING
WD	WOOD, WOOD FLOORING
WDW	WINDOW
WDWC	WINDOW CONTRACTOR
WF	WASH FOUNTAIN
WG	WALL GRILLE, WATER GAUGE
WH	WALL HUNG, WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WI	WROUGHT IRON
WM	WIREMOLD
WP	WATER PROOFING, WORKING POINT
WR	WATER REPELLENT, WIDE RIB, WALL REGISTER
WS	WATER STOP
WSCT	WAINSCOT
WT	WEIGHT
WWHP	WATER TO WATER HEAT PUMP
WWR	WELDED WIRE REINFORCEMENT
X	
XHCI	EXTRA HEAVY CAST IRON
Y	
YD	YARD DRAIN, YARD

S.E.D. Control No. 62-18-01-06-0-005-018

Rev. No.:	Date:	Description:

WALLKILL CENTRAL SCHOOL DISTRICT (Established 1938)

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BID SET

Tetra Tech Engineers, Architects & Landscape Architects, P.C.

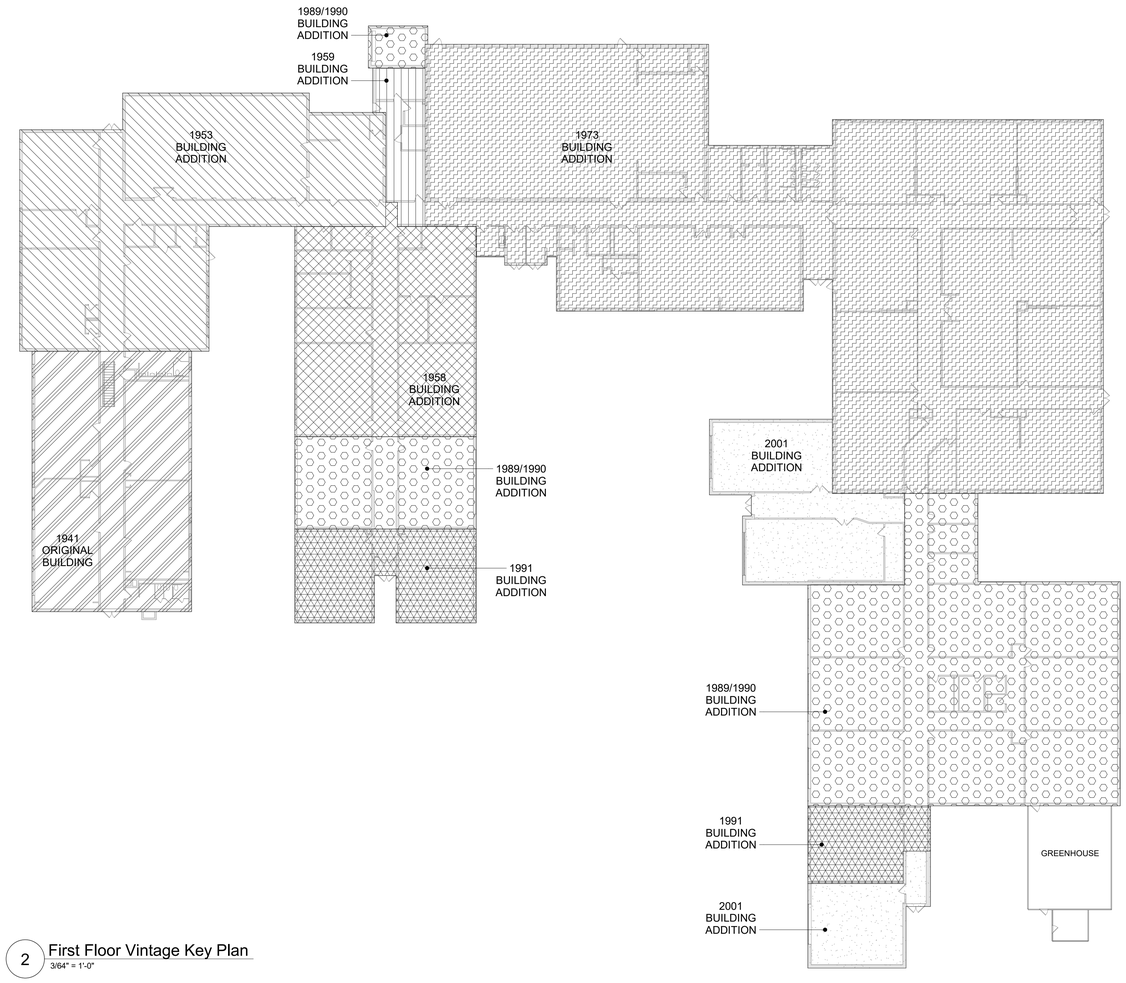
TETRA TECH ARCHITECTS & ENGINEERS

Wallkill Central School District
Wallkill, New York

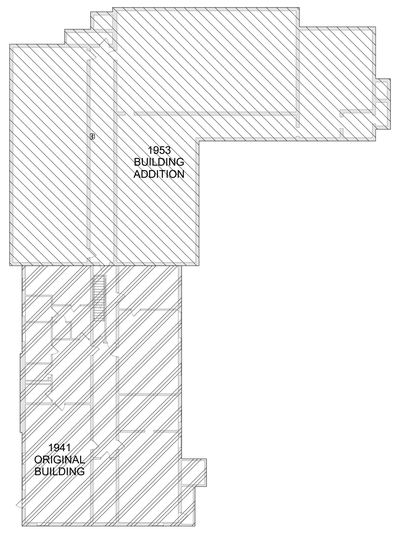
Reconstruction To:
Plattekill Elementary School

Symbols and Abbreviations

Drawn By:	Date:	Drawing Number:
TTAE	12/18/2023	G100
Project No.: 17597-22002B		



2 First Floor Vintage Key Plan
3/64" = 1'-0"



1 Basement Floor Vintage Key Plan
3/64" = 1'-0"

Code Compliance Review

PROJECT LOCATION:
1270 NY ROUTE 32, PLATTEKILL NY 12568
BOUNDED BY BONA VENTURA AVENUE TO THE SOUTH, LAVOLETTA STREET TO THE NORTH, AND 3RD STREET TO THE WEST.

PROJECT DESCRIPTION:
THIS PROJECT INCLUDES THE REPLACEMENT OF BUILDING PLUMBING COMPONENTS INCLUDING WELL PUMPS, COLD WATER PIPING AND THE INCLUSION OF A NEW CHLORINE INJECTION SYSTEM.

WORK GENERALLY CONSISTS OF THE FOLLOWING:
ALTERATIONS - LEVEL 1
- REPLACEMENT OF TWO WELL PUMPS AND ASSOCIATED PIPING, WIRING AND CONTROLS.
- REPLACEMENT OF COLD WATER PIPING
- NEW CHLORINE INJECTION SYSTEM AND ASSOCIATED VALVES.

APPLICABLE CODES AND STANDARDS:

BASED ON THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, 2020 BCNYS, 2020 EBCNYS AND 2020 ECCNYS, ICC A117.1-09 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES AND COMMISSIONER OF EDUCATIONS 155 REGULATIONS (SED MPS-22).

BUILDING DATA:

BUILDING: PLATTEKILL ELEMENTARY SCHOOL
1270 NY ROUTE 32
PLATTEKILL, NY 12568

DESCRIPTION: SINGLE STORY MASONRY AND REINFORCED CONCRETE BUILDING WITH PARTIAL BASEMENT.

YEAR BUILT: 1941
ADDITIONS: 1953, 1958, 1973, 1989 / 1990, 1991, 2001

BUILDING AREA: BASEMENT 5,193 SQFT
1ST FLOOR 61,147 SQFT

TOTAL GROSS AREA= 66,340 SQFT

CODE DATA SUMMARY:

USE GROUP: E : EDUCATION

CONSTRUCTION TYPE -

EXISTING: IIB

NEW: IIB

SPRINKLERED: NO

WORK AREA:

LOCATION	AREA	% OF TOTAL
BASEMENT	5,900 SF	8.8%

PATH OF CODE COMPLIANCE:

2020 EXISTING BUILDING CODE of NYS
301.3.2 WORK AREA COMPLIANCE METHOD

CHAPTER 6 - CLASSIFICATION OF WORK
602 ALTERATION - LEVEL 1 (CHAPTER 7)

NEW CONSTRUCTION WILL COMPLY WITH REQUIREMENTS OF THE 2020 BCNYS, 2020 EBCNYS AND 2020 ECCNYS, ICC A117.1-09 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES AND COMMISSIONER OF EDUCATIONS 155 REGULATIONS (SED MPS-22).

General Code Notes

A. COORDINATE WITH FLOOR PLANS, WALL SECTIONS AND PARTITION TYPES FOR RATED WALL TYPES AND LOCATIONS. IMMEDIATELY NOTIFY ARCHITECT OF ANY WALL RATING DISCREPANCIES BETWEEN DRAWINGS.

B. ALL WALLS, INCLUDING AT CORRIDORS, SHALL EXTEND COMPLETELY TO THE UNDERSIDE OF DECKING, SUPPORTING STRUCTURE OR ROOF ABOVE, TYPICAL UNLESS NOTED OTHERWISE.

C. AT AREAS OF PROJECT WORK, COMPLETELY SEAL ALL PENETRATIONS REQUIRED TO COMPLY WITH FIRE RESISTANCE RATINGS IDENTIFIED ON THE DRAWINGS, REGARDLESS IF WALL IS NEW OR EXISTING, TYPICAL UNLESS NOTED OTHERWISE.

Legend

ALL WALLS, INCLUDING CORRIDOR WALLS, EXTEND TO THE ROOF DECK OR FLOOR DECK ABOVE UNLESS NOTED OTHERWISE.

RW RESCUE WINDOW

- 1941 ORIGINAL BUILDING
- 1953 BUILDING ADDITION
- 1958 BUILDING ADDITION
- 1959 BUILDING ADDITION
- 1973 BUILDING ADDITION
- 1989/1990 BUILDING ADDITION
- 1991 BUILDING ADDITION
- 2001 BUILDING ADDITION

S.E.D. Control No. 62-18-01-06-0-005-018

Rev. No.:	Date:	Description:

WALLKILL CENTRAL SCHOOL DISTRICT

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Tetra Tech Engineers, Architects & Landscape Architects, P.C.

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

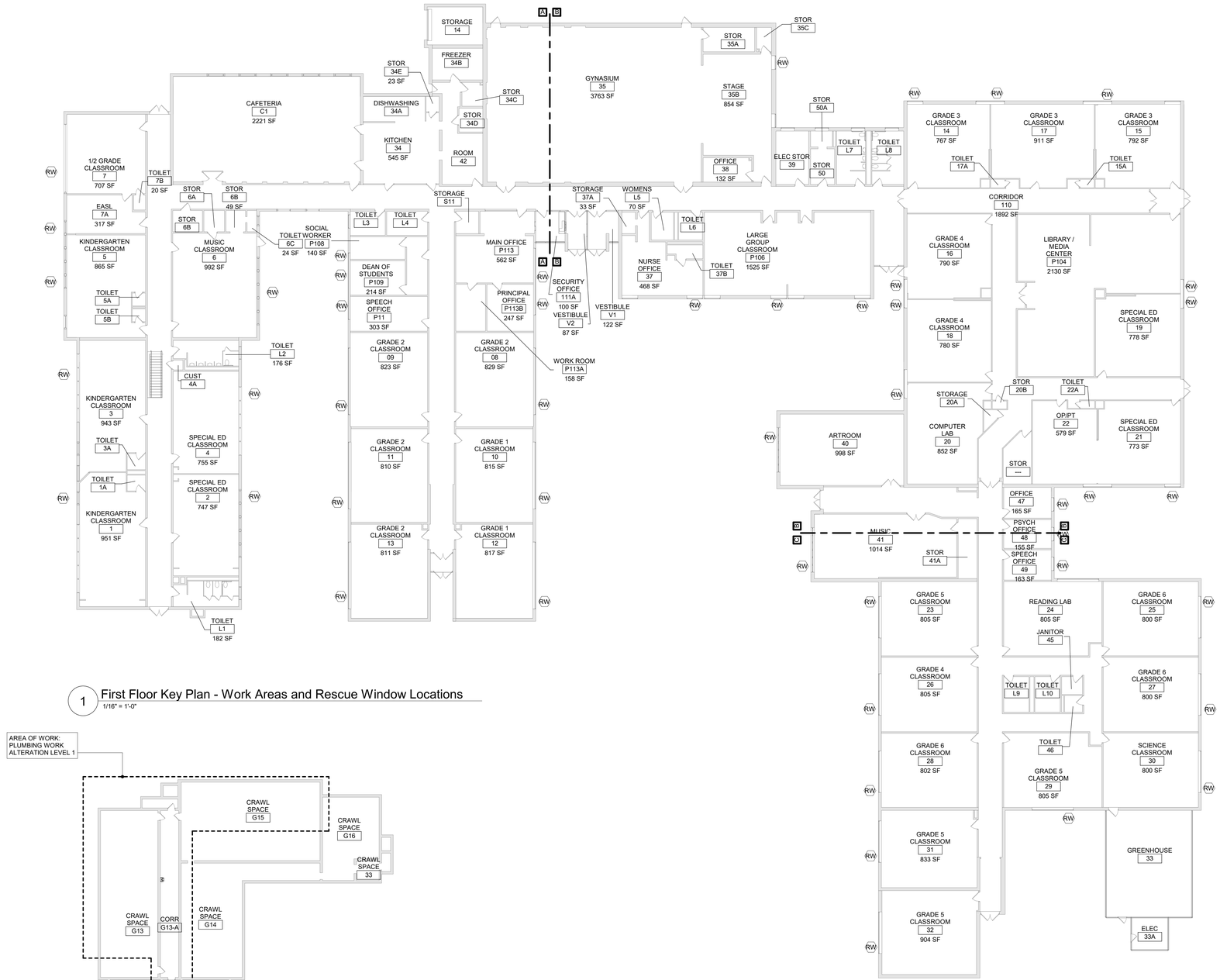
Wallkill Central School District
Wallkill, New York

Reconstruction to:
Plattekill Elementary School

Code Compliance Review

Drawn By:	Date:	Drawing Number:
TS	12/18/2023	DG350

Project No.:
17597-22002B



1 First Floor Key Plan - Work Areas and Rescue Window Locations
1/16" = 1'-0"

2 Basement Floor Plan - Work Area
3/64" = 1'-0"

General Code Notes

A. COORDINATE WITH FLOOR PLANS, WALL SECTIONS AND PARTITION TYPES FOR RATED WALL TYPES AND LOCATIONS. IMMEDIATELY NOTIFY ARCHITECT OF ANY WALL RATING DISCREPANCIES BETWEEN DRAWINGS.

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C. AT AREAS OF PROJECT WORK, COMPLETELY SEAL ALL PENETRATIONS REQUIRED TO COMPLY WITH FIRE RESISTANCE RATINGS IDENTIFIED ON THE DRAWINGS, REGARDLESS IF WALL IS NEW OR EXISTING, TYPICAL UNLESS NOTED OTHERWISE.

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RW RESCUE WINDOW

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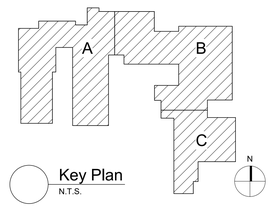

S.E.D. Control No. 62-18-01-06-0-005-018

Rev. No.:	Date:	Description:

WALLKILL CENTRAL SCHOOL DISTRICT

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Tetra Tech Engineers, Architects & Landscape Architects, P.C.

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

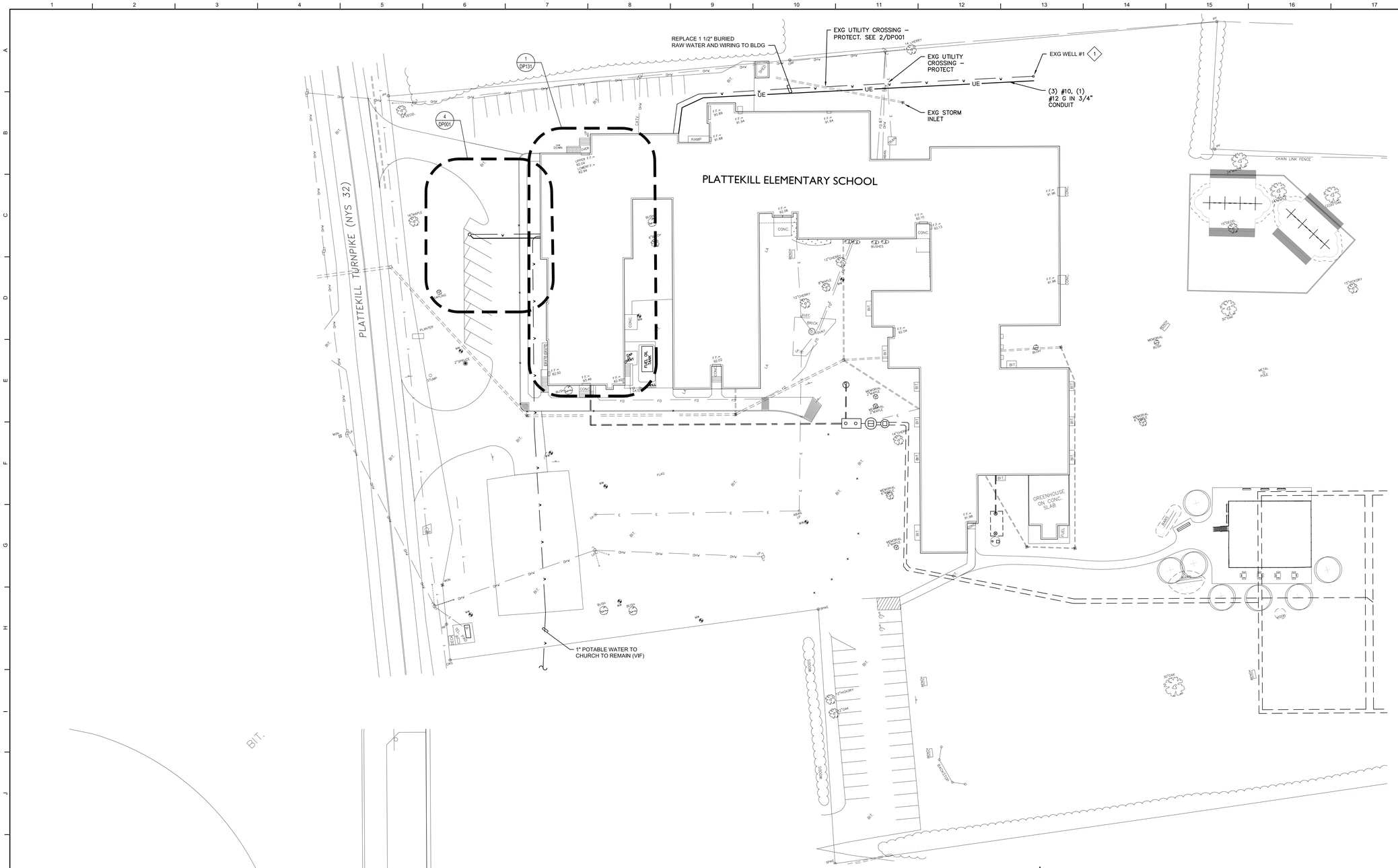
Wallkill Central School District
Wallkill, New York

Reconstruction to:
Plattekill Elementary School

First Floor - Scope of Work and Rescue Window Locations

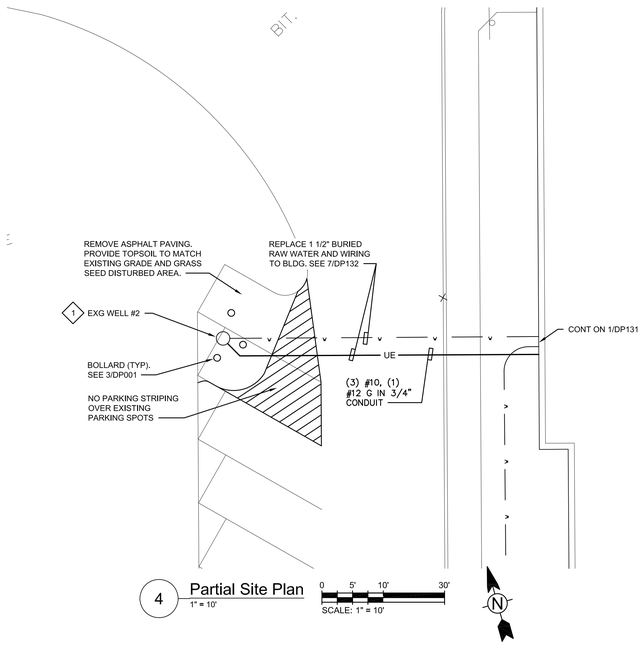
Drawn By:	Date:	Drawing Number:
TS	12/18/2023	DG351

Project No.: 17597-22002B



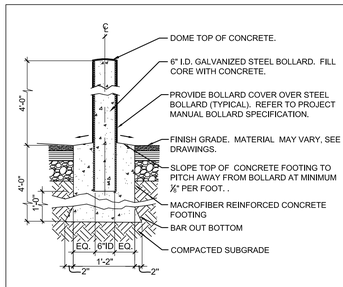
1 Site Plan
1" = 30'

SCALE: 1" = 30'

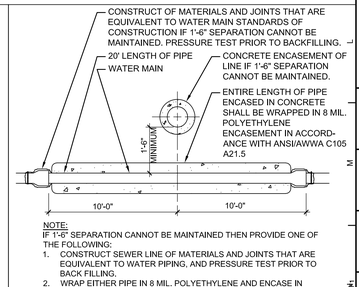


4 Partial Site Plan
1" = 10'

SCALE: 1" = 10'



3 Bollard - Steel Pipe with Bollard Cover
NTS



NOTE:
IF 1'-6" SEPARATION CANNOT BE MAINTAINED THEN PROVIDE ONE OF THE FOLLOWING:
1. CONSTRUCT SEWER LINE OF MATERIALS AND JOINTS THAT ARE EQUIVALENT TO WATER PIPING, AND PRESSURE TEST PRIOR TO BACK FILLING.
2. WRAP EITHER PIPE IN 8 MIL. POLYETHYLENE AND ENCASE IN CONCRETE IN ACCORDANCE WITH ANSI /AWWA C105 A21.5

2 Pipe Crossing
NTS

General Notes

A. VERIFY ALL PIPING LOCATIONS, SIZES, AND ARRANGEMENTS IN FIELD PRIOR TO BID. NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES.

B. LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS.

C. INCLUDE TRENCHING, CUTTING AND PATCHING OF FLOORS, WALLS AND CEILINGS, INCLUDING CEILING TILE REMOVAL AND REPLACEMENT, WHEN REQUIRED FOR PLUMBING WORK. PATCH ABANDONED OPENINGS AND DISTURBED FINISHES TO MATCH EXISTING. TAKE PRECAUTIONS TO PROTECT STRUCTURAL INTEGRITY OF FLOOR OR WALLS WHEN TRENCHING OR CUTTING.

D. MATERIALS FOR PLUMBING INSTALLATION SHALL BE NEW, UNLESS SPECIFICALLY NOTED OTHERWISE.

E. NO PART OF PUBLIC WATER SUPPLY MAY BE PLACED INTO SERVICE UNTIL FINAL APPROVAL FROM ULSTER COUNTY DEPARTMENT OF HEALTH IS RECEIVED.

F. ANY ADDITIONAL TREATMENT REQUIREMENTS TO MEET NEW YORK CODE, RULES AND REGULATIONS WILL BE ISSUED BY ARCHITECT AFTER FINAL WATER LAB ANALYSIS IS SUBMITTED AND PRIOR TO PLACING THE WELLS INTO SERVICE.

Plumbing Notes

1 REMOVE EXISTING MANHOLE AND EXTENSION CASING TO PROVIDE CONDITION SHOWN ON 8/DP132. REMOVE EXISTING WELL PUMP, 1 1/2" DROP TUBE, AND WIRING IN EXISTING WELL CASING. WELLS ARE 6-5/8" DIAMETER AND APPROXIMATELY 225 FEET DEEP. VERIFY IN FIELD ACTUAL DEPTH AND NOTIFY ENGINEER IN WRITING. REHABILITATE WELL BY UTILIZING CO2 INJECTION OR HYDRO FRACTURING IN ACCORDANCE WITH NYSDOH AND NYDEC REQUIREMENTS. PERFORM A WELL YIELD TEST AND LAB ANALYSIS OF WATER QUALITY FOR EACH WELL AFTER REHABILITATION. NOTIFY ARCHITECT IN WRITING THE RESULTS. REPLACE WELL PUMP, 1 1/2" DROP TUBE, PITLESS UNIT AND POWER WIRING, AND INSTALL WITHIN EXISTING WELL CASING. REPLACE WELL CAPS AND EXTEND TO MINIMUM 18" ABOVE GRADE. SEE WELL PUMP SCHEDULE ON DP131 AND DETAILS ON DP132. FINAL WELL PUMP SELECTION WILL BE MADE AFTER WELL YIELD TESTS HAVE BEEN SUBMITTED TO ENGINEER.

S.E.D. Control No. 62-18-01-06-0-005-018

Rev. No.:	Date:	Description:
2	8/12/24	DOH Response to Comments
1	5/15/24	DOH Response to Comments

WALLKILL CENTRAL SCHOOL DISTRICT

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Tetra Tech Engineers, Architects & Landscape Architects, P.C.

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Wallkill Central School District
Wallkill, New York

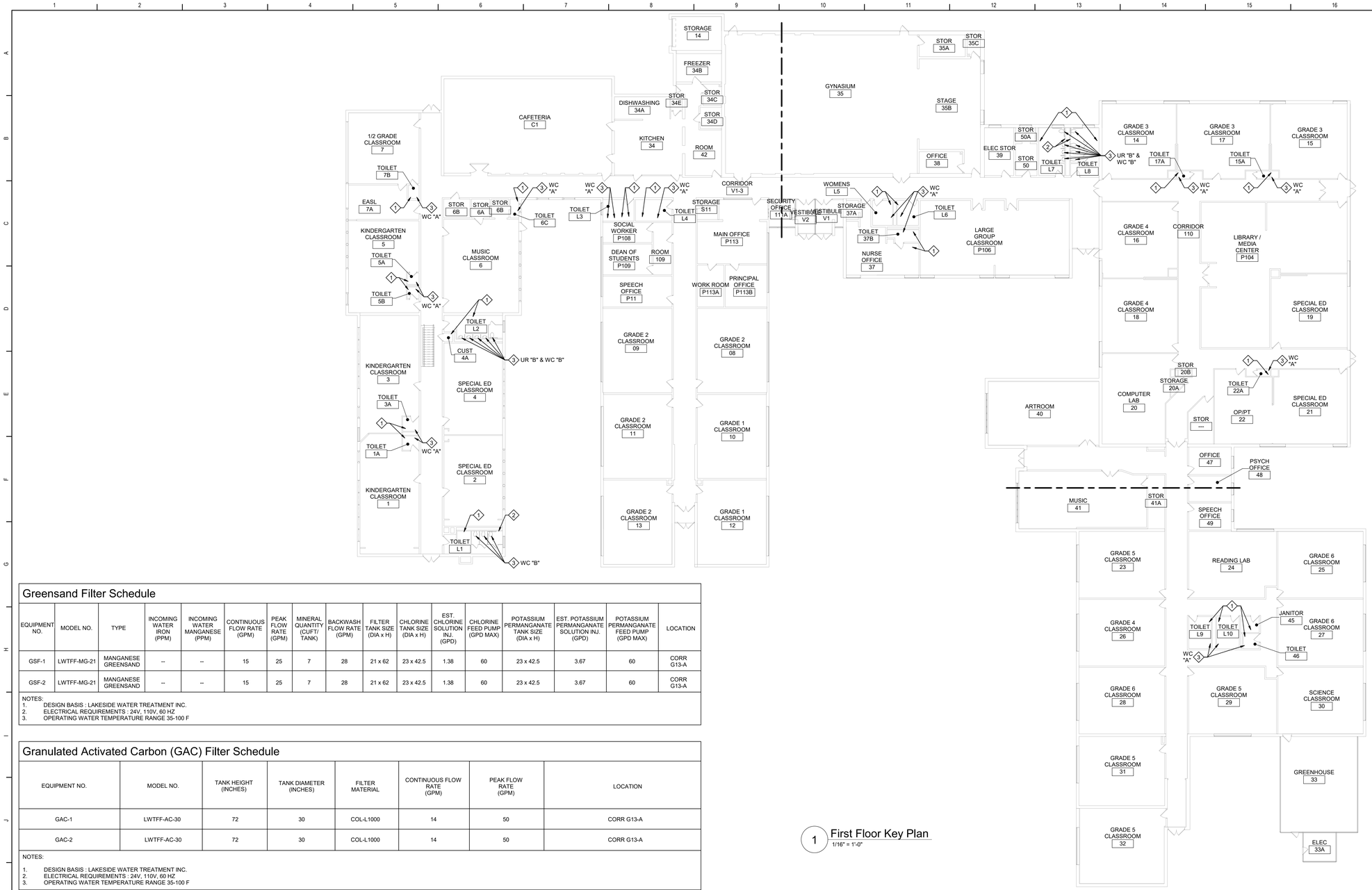
Reconstruction to:
Plattekill Elementary School

Site Plan

Drawn by:	Date:	Drawing No.:
BCL	12/18/2023	DP001

Project No.: 17597-22002B

03.2010 NMP



1 First Floor Key Plan
1/16" = 1'-0"

Greensand Filter Schedule

EQUIPMENT NO.	MODEL NO.	TYPE	INCOMING WATER IRON (PPM)	INCOMING WATER MANGANESE (PPM)	CONTINUOUS FLOW RATE (GPM)	PEAK FLOW RATE (GPM)	MINERAL QUANTITY (CUFT/ TANK)	BACKWASH FLOW RATE (GPM)	FILTER TANK SIZE (DIA x H)	CHLORINE TANK SIZE (DIA x H)	EST. CHLORINE SOLUTION INJ. (GPD)	CHLORINE FEED PUMP (GPD MAX)	POTASSIUM PERMANGANATE TANK SIZE (DIA x H)	EST. POTASSIUM PERMANGANATE SOLUTION INJ. (GPD)	POTASSIUM PERMANGANATE FEED PUMP (GPD MAX)	LOCATION
GSF-1	LWTFF-MG-21	MANGANESE GREENSAND	--	--	15	25	7	28	21 x 62	23 x 42.5	1.38	60	23 x 42.5	3.67	60	CORR G13-A
GSF-2	LWTFF-MG-21	MANGANESE GREENSAND	--	--	15	25	7	28	21 x 62	23 x 42.5	1.38	60	23 x 42.5	3.67	60	CORR G13-A

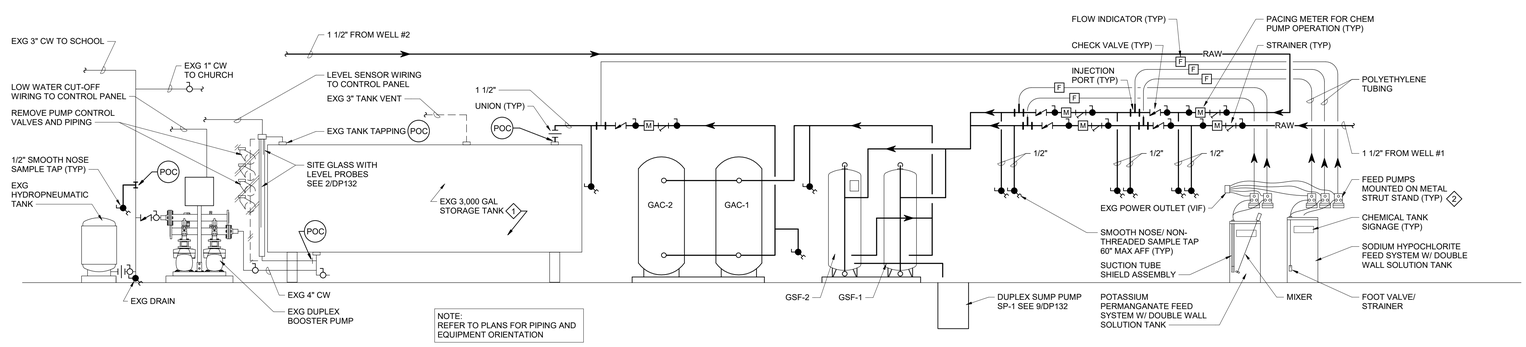
NOTES:
1. DESIGN BASIS : LAKESIDE WATER TREATMENT INC.
2. ELECTRICAL REQUIREMENTS : 24V, 110V, 60 HZ
3. OPERATING WATER TEMPERATURE RANGE 35-100 F

Granulated Activated Carbon (GAC) Filter Schedule

EQUIPMENT NO.	MODEL NO.	TANK HEIGHT (INCHES)	TANK DIAMETER (INCHES)	FILTER MATERIAL	CONTINUOUS FLOW RATE (GPM)	PEAK FLOW RATE (GPM)	LOCATION
GAC-1	LWTFF-AC-30	72	30	COL-L1000	14	50	CORR G13-A
GAC-2	LWTFF-AC-30	72	30	COL-L1000	14	50	CORR G13-A

NOTES:

1. DESIGN BASIS : LAKESIDE WATER TREATMENT INC.
2. ELECTRICAL REQUIREMENTS : 24V, 110V, 60 HZ
3. OPERATING WATER TEMPERATURE RANGE 35-100 F



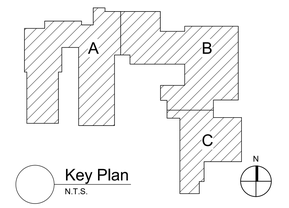
2 Domestic Water System Schematic
NTS

Plan Notes

A. REFER TO DRAWING NO. DP001 FOR GENERAL NOTES.

Plumbing Notes

1. AFTER WELLS HAVE BEEN PUT BACK INTO SERVICE, REMOVE STRAINERS ON ALL EXISTING SINK AND LAVATORY FAUCETS WITHIN BUILDING. RUN WATER THROUGH OPEN FAUCETS TO CLEAR ANY DEBRIS AND SEDIMENT FROM THE SUPPLY PIPING UNTIL CLEAN WATER IS ATTAINED. CLEAN, INSPECT AND RE-INSTALL STRAINERS ON FAUCETS. VERIFY IN FIELD EXACT QUANTITIES AND LOCATIONS.
2. AFTER WELLS HAVE BEEN PUT BACK INTO SERVICE, OPEN ANY EXISTING DRAIN VALVES, HOSE BIBBS, WALL HYDRANTS, ETC TO AID IN REMOVING ANY DEBRIS AND SEDIMENT FROM THE SUPPLY PIPING UNTIL CLEAN WATER IS ATTAINED. VERIFY IN FIELD EXACT QUANTITIES AND LOCATIONS.
3. BY BASE BID: AFTER WELLS HAVE BEEN PUT BACK INTO SERVICE, DISASSEMBLE EXISTING FLUSH VALVE. RUN WATER THROUGH OPEN VALVE TO CLEAR ANY DEBRIS AND SEDIMENT FROM THE SUPPLY PIPING UNTIL CLEAN WATER IS ATTAINED. CLEAN AND INSPECT FLUSH VALVE ASSEMBLY BEFORE INSTALLING FLUSH VALVE REBUILD KIT. VERIFY IN FIELD EXISTING MAKE AND MODEL FOR EACH FLUSH VALVE PRIOR TO ORDERING REBUILD KITS. BY ALTERNATE NUMBER 1: AFTER WELLS HAVE BEEN PUT BACK INTO SERVICE, REPLACE FLUSH VALVE IN-KIND.



S.E.D. Control No. 62-18-01-06-0-005-018

Rev. No.:	Date:	Description:

WALLKILL CENTRAL SCHOOL DISTRICT

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Tetra Tech Engineers, Architects & Landscape Architects, P.C.

BID SET

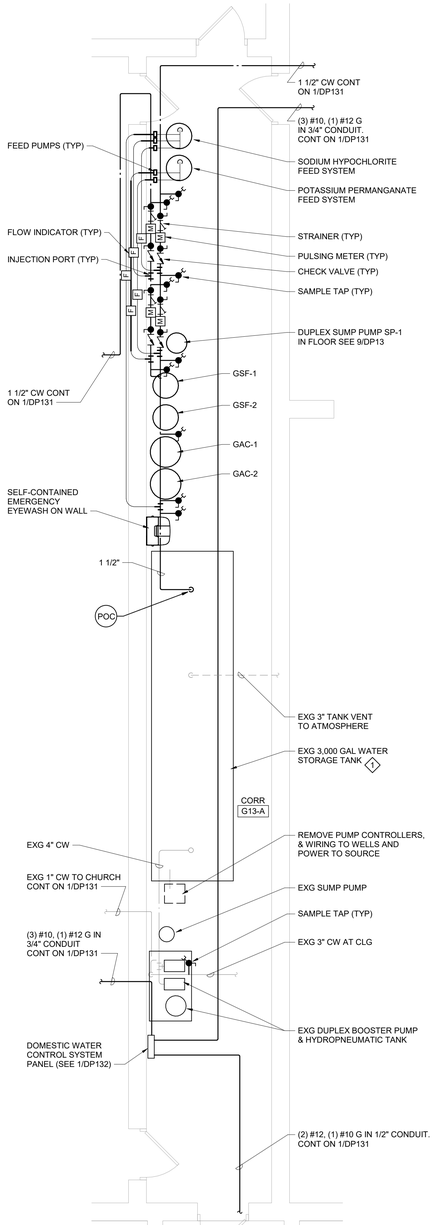
TETRA TECH ARCHITECTS & ENGINEERS

Wallkill Central School District
Wallkill, New York

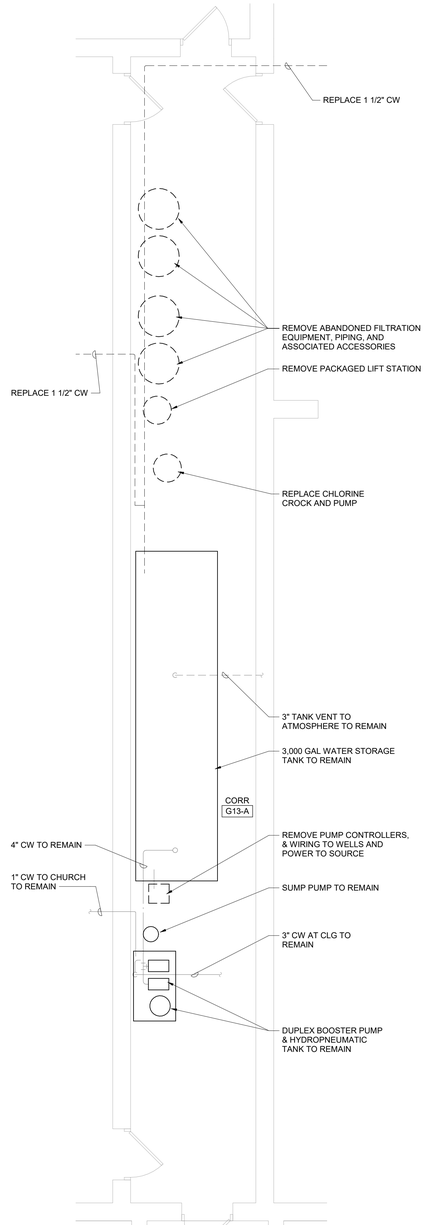
Reconstruction to:
Plattekill Elementary School

First Floor Key Plan, Detail and Schedules

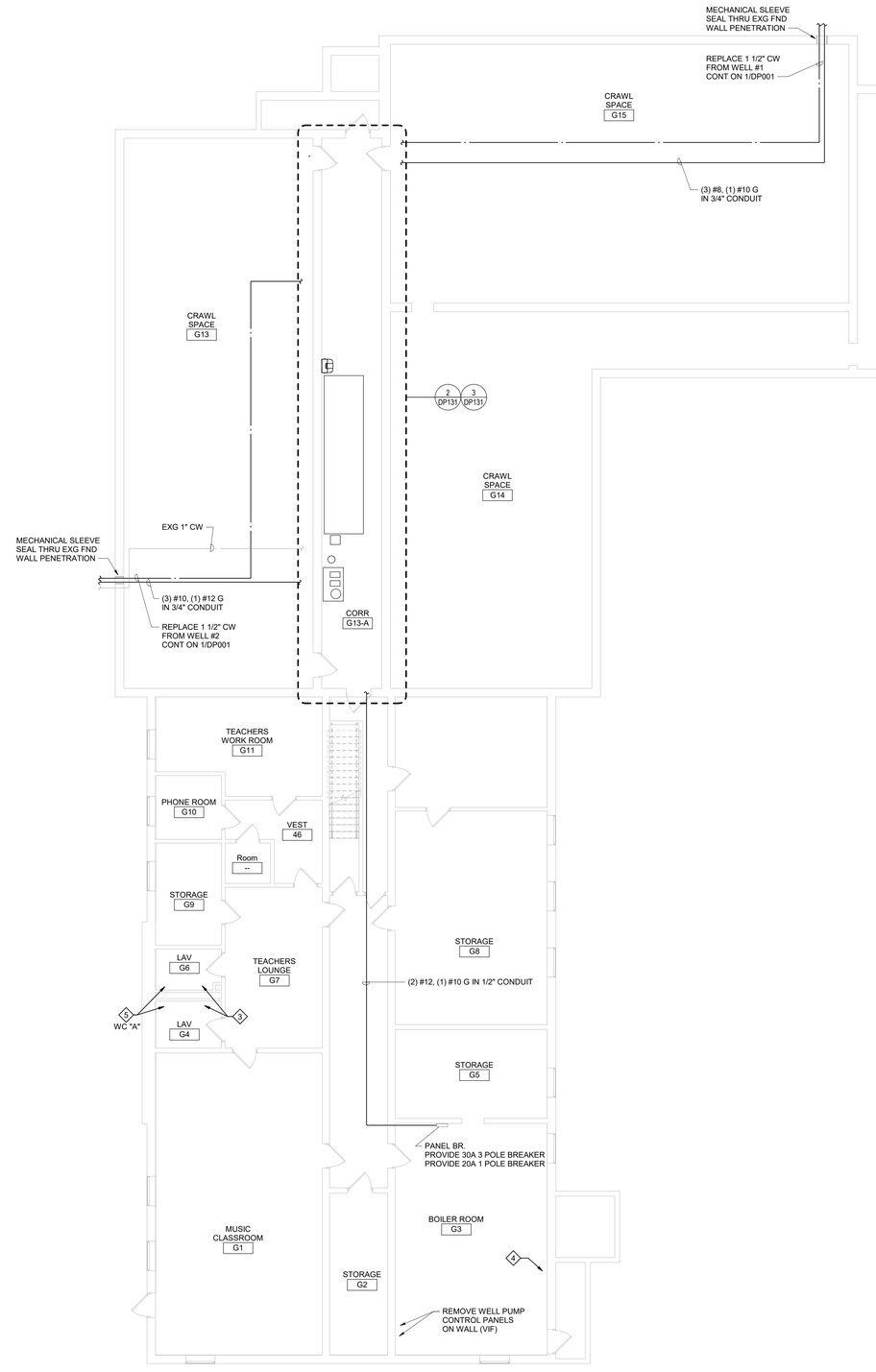
Drawn By:	Date:	Drawing Number:
BCL	12/18/2023	DP130
Project No.: 17597-22002B		



3 Corr G13-A Plan
1/4" = 1'-0"



2 Corr G13-A Demolition Plan
1/4" = 1'-0"



1 Partial Basement Plan
1/8" = 1'-0"

Domestic Well Pump Schedule

DWG LABEL	LOCATION	DESIGN MAKE AND MODEL	CAPACITY	TOTAL HEAD	MAX CONT OPERATING TEMP	INLET / OUTLET SIZE	RPM	HORSE POWER	FULL LOAD AMPS	VOLTAGE	PHASE	HERTZ	NOTES
			GPM	FEET	°F	NPS							
WP-1	EXG WELL	GRUNDFOS 10 SQ15-330	13	275	104	1 1/2"	3450	2.5	7.5	208	3	60	1, 2
WP-2	EXG WELL	GRUNDFOS 10 SQ15-330	13	275	104	1 1/2"	3450	2.5	7.5	208	3	60	1, 2

NOTES:
1. INSTALL PUMP ON 1 1/2" DROP PIPE AND ROUTE WIRING FROM WELL HEAD DOWN CASING TO PUMP. CONNECT WIRING AND DISCHARGE PIPE TO EXISTING SERVICES.
2. FINAL WELL PUMP SELECTION WILL BE MADE AFTER WELL YIELD TESTS AND EXISTING WELL DEPTH INFORMATION HAVE BEEN SUBMITTED TO ENGINEER.

Sump Pump Schedule

DWG LABEL	LOCATION	CAPACITY	TOTAL DYNAMIC HEAD	MAX CONT OPERATING TEMP	DISCHARGE	PUMP SPEED	HORSE POWER	VOLTAGE	PHASE	HERTZ	NOTES
		GPM	FEET	°F	NPS	RPM					
SP-1	CORR G13-A	30	25	140	2	3000	1/2	120	1	60	1, 2, 3

NOTES:
1. DESIGN MAKE: LIBERTY PUMPS OR APPROVED EQUAL.
2. DUPLEX PUMPS WITH LEVEL CONTROLS.
3. DATA PROVIDED IS FOR EACH OF THE TWO PUMPS. CONROLLER TO ALTERNATE BETWEEN PUMPS.

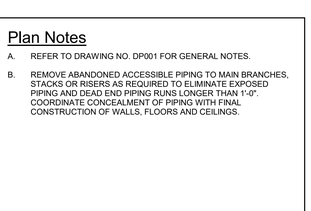
Plan Notes

A. REFER TO DRAWING NO. DP001 FOR GENERAL NOTES.

B. REMOVE ABANDONED ACCESSIBLE PIPING TO MAIN BRANCHES, STACKS OR RISERS AS REQUIRED TO ELIMINATE EXPOSED PIPING AND DEAD END PIPING RUNS LONGER THAN 1'-0". COORDINATE CONCEALMENT OF PIPING WITH FINAL CONSTRUCTION OF WALLS, FLOORS AND CEILINGS.

Plumbing Notes

1. CLEAN INTERIOR OF EXISTING WATER STORAGE TANK. TANK TO BE CLEANED UTILIZING HIGH PRESSURE STEAM AND/OR BRUSHING. LEGALLY DISPOSE OF WATER, SLUDGE, MINERAL DEPOSITS, ETC REMOVED FROM TANK. DISINFECT TANK AND PIPE PER AWWA C652 UPON COMPLETION OF WORK.
2. CALIBRATE FEED PUMP DOSAGE SO RESIDUAL CHLORINE LEVEL AT OUTLET OF STORAGE TANK DOES NOT EXCEED 4 PARTS PER MILLION, IN ACCORDANCE WITH NEW YORK CODE, RULES AND REGULATIONS SUBPART 5-1 PUBLIC WATER SYSTEMS.
3. AFTER WELLS HAVE BEEN PUT BACK INTO SERVICE, REMOVE STRAINERS ON ALL EXISTING SINK AND LAVATORY FAUCETS WITHIN BUILDING. RUN WATER THROUGH OPEN FAUCETS TO CLEAR ANY DEBRIS AND SEDIMENT FROM THE SUPPLY PIPING UNTIL CLEAN WATER IS ATTAINED, CLEAN, INSPECT AND RE-INSTALL STRAINERS ON FAUCETS. VERIFY IN FIELD EXACT QUANTITIES AND LOCATIONS.
4. AFTER WELLS HAVE BEEN PUT BACK INTO SERVICE, OPEN ANY EXISTING DRAIN VALVES, HOSE BIBBS, WALL HYDRANTS, ETC TO AID IN REMOVING ANY DEBRIS AND SEDIMENT FROM THE SUPPLY PIPING UNTIL CLEAN WATER IS ATTAINED. VERIFY IN FIELD EXACT QUANTITIES AND LOCATIONS.
5. BY BASE BID: AFTER WELLS HAVE BEEN PUT BACK INTO SERVICE, DISASSEMBLE EXISTING FLUSH VALVE. RUN WATER THROUGH OPEN VALVE TO CLEAR ANY DEBRIS AND SEDIMENT FROM THE SUPPLY PIPING UNTIL CLEAN WATER IS ATTAINED. CLEAN AND INSPECT FLUSH VALVE ASSEMBLY BEFORE INSTALLING FLUSH VALVE REBUILD KIT. VERIFY IN FIELD EXISTING MAKE AND MODEL FOR EACH FLUSH VALVE PRIOR TO ORDERING REBUILD KITS. BY ALTERNATE: AFTER WELLS HAVE BEEN PUT BACK INTO SERVICE, REPLACE FLUSH VALVE IN-KIND.



Key Plan
N.T.S.

S.E.D. Control No. 62-18-01-06-0-005-018

Rev. No.:	Date:	Description:
2	8/12/24	DOH Response to Comments
1	5/15/24	DOH Response to Comments

WALLKILL CENTRAL SCHOOL DISTRICT

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Tetra Tech Engineers, Architects & Landscape Architects, P.C.

BID SET

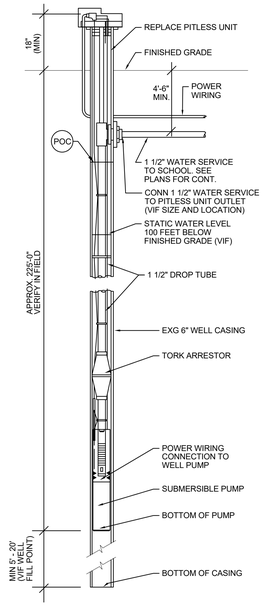
TETRA TECH
ARCHITECTS & ENGINEERS

Wallkill Central School District
Wallkill, New York

Reconstruction to:
Plattekill Elementary School

Partial Basement Plan, Details and Schedule

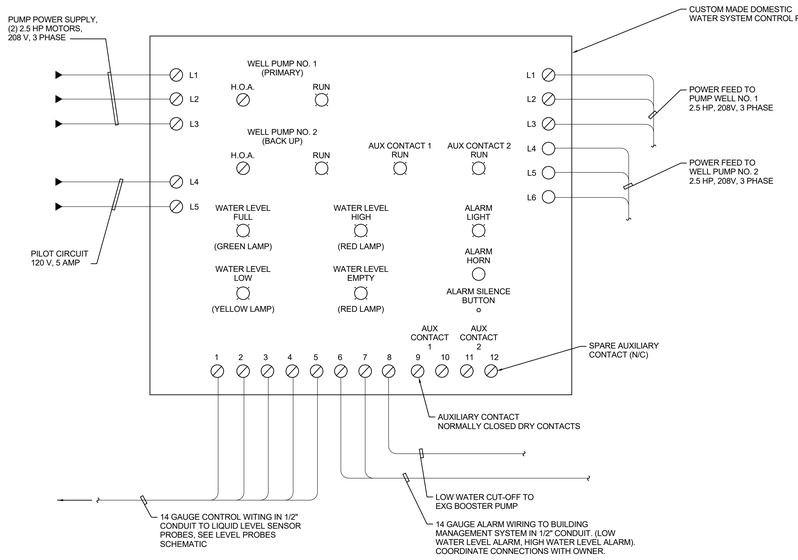
Drawn By:	Date:	Drawing Number:
BCL	12/18/2023	DP131
Project No.: 17597-22002B		



NOTES:

1. REMOVE EXISTING WELL PUMP, 1 1/2" DROP TUBE AND WIRING WITHIN EXISTING WELL CASING IN PREPARATION OF REHABILITATION.
2. REHABILITATE WELL BY UTILIZING CO2 INJECTION OR HYDRO FRACTURING IN ACCORDANCE WITH NYSDOH AND NYSDEC REQUIREMENTS.
3. AFTER REHABILITATION OF WELL, PERFORM WELL YIELD TESTING. INCLUDE ALL NECESSARY PUMPS, POWER SUPPLY, PERSONNEL, METERS, GAUGES ETC. TO PERFORM TESTING. ANY YIELD TESTING IS TO FOLLOW NYSDEC AND/OR NYSDOH GUIDELINES. WATER WELL YIELD TESTS SHALL BE PERFORMED FOR A PERIOD ADEQUATE TO QUANTIFY WELL YIELD.
4. WATER LEVEL AND FLOW RATE OBSERVATIONS SHALL BE MADE AND RECORDED , AT A MINIMUM, BEFORE THE START OF THE YIELD TEST, IMMEDIATELY UPON THE CESSATION OF WATER WITHDRAWAL AND PERIODICALLY DURING DRAWDOWN AND RECOVERY PERIODS. FREQUENCY OF MEASUREMENTS SHALL BE MADE AS NECESSARY FOR THE TEST METHOD.
5. WATER DISCHARGED DURING A YIELD TEST SHALL BE DISCHARGED IN A MANNER THAT AVOIDS SHORT CIRCUITING OF THE WATER BACK INTO THE AQUIFER.
6. YIELD TEST SHALL NOT COMMENCE UNTIL REDEVELOPMENT HAS BEEN COMPLETED AND, AT A MINIMUM, UNTIL THE VOLUME OF WATER PUMPED/DISCHARGED DURING THE REHABILITATION INTO THE AQUIFER HAS BEEN REMOVED FROM THE WELL.
7. THE WELL YIELD DETERMINED FOR WELLS SHALL BE RECORDED ON THE WELL COMPLETION REPORT FORM AND SUBMITTED FOR THAT WELL TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION. DATA GENERATED DURING THE YIELD TEST SHALL BE PROVIDED TO THE OWNER AND PROVIDED, UPON REQUEST, TO THE STATE OR LOCAL AGENCY(IES) HAVE JURISDICTION.
8. WELL YIELD TEST TO INCLUDE A 72 HOUR DRAWDOWN TEST AND MUST INCLUDE A MINIMUM PERIOD OF 6 HOURS OF STABILIZED DRAWDOWN AT THE END OF THE TEST WHILE PUMPING AT A CONSTANT FLOW RATE. DURING THE PERIOD OF STABILIZED DRAWDOWN, THE STABILIZED WATER LEVEL SHALL NOT FLUCTUATE MORE THAN PLUS OR MINUS 0.5 FEET (IE. WITHIN A VERTICAL TOLERANCE OF ONE FOOT) FOR EACH 100 FEET OF WATER IN THE WELL. (IE. INITIAL WATER LEVEL TO BOTTOM OF WELL) OVER THE DURATION OF CONSTANT FLOW RATE OF PUMPING.
9. WATER LEVEL MEASUREMENTS MAY BE DETERMINED BY STEEL TAPE, CALIBRATED PRESSURE GAUGE ATTACHED TO AN AIR LINE TERMINATING AT LEAST 5 FEET ABOVE THE PUMP INTAKE, ELECTRIC SOUNDER OR PRESSURE TRANSDUCER.
10. THE RECOVERY PERIOD SHALL INCLUDE OBSERVATION OF THE WATER LEVEL IN THE WELL AFTER CESSATION OF PUMPING FROM THE DRAWDOWN LEVEL BACK TO AT LEAST 90 PERCENT OF THE INITIAL WATER LEVEL OR FOR A PERIOD OF 24 HOURS, WHICHEVER OCCURS FIRST. IF THE WATER DOES NOT RECOVER TO 90 PERCENT AFTER 24 HOURS, THE TESTED FLOW RATE MAY NOT BE SUSTAINED FOR AN EXTENDED PERIOD OF TIME.
11. AFTER COMPLETION OF YIELD TEST, OBTAIN WATER SAMPLE AND PROVIDE TESTING FROM A NEW YORK STATE CERTIFIED LAB. TEST TO INCLUDE FULL NYS SANITARY CODE PART 5 REQUIREMENTS ANALYSIS ANALYTES IN TABLES 8B, 8C, 8D, 9C, 9D, 12, AND INCLUDE MTBE, PROPYLENE GLYCOL, VINYL CHLORIDE AND TURBIDITY.
12. SUBMIT REPORT TO ENGINEER AND OWNER DESCRIBING EACH OF THE FOLLOWING: METHOD OF WELL REHABILITATION, PERTINENT PHOTOGRAPHS OF REHABILITATION, TESTING METHODOLOGY DESCRIPTION, STATIC WATER LEVEL AT COMMENCEMENT OF TESTING, DATES, TIMES AND FLOW RATES FOR TEST PERIOD, WELL YIELD AT END OF REHABILITATION AND TESTING AND ANY OTHER OBSERVATIONS.
13. FOLLOWING REHABILITATION OF WELL, REPLACE PITLESS UNIT, WELL PUMP, 1 1/2" DROP TUBE AND POWER WIRING LOCATED WITHIN THE CASING AND INSTALL IN EXISTING CASING. CONNECT PIPING TO PITLESS UNIT AS NECESSARY AND EXTEND CASING TO MINIMUM 18" ABOVE GRADE WITH NEW CAP.
14. DISINFECT WELL PER AWWA C654 UPON COMPLETION OF WORK TO WELLS.

8 Well Modifications
NTS



1 Domestic Water System Control Panel
NTS

Sequence of Operations

1. WHEN THE WATER LEVEL IN THE EXISTING 3,000-GALLON STORAGE TANK DROPS TO THE PROBE "C" LEVEL, ENERGIZE WELL PUMP 1. THE PACING TYPE WATER METER ON THE RAW WATER SUPPLY LINE WILL ENERGIZE CHLORINATION PUMP.
2. IF THE WATER LEVEL CONTINUES TO DROP TO PROBE "D" LEVEL WITH WELL PUMP 1 ENERGIZED, WELL PUMP 2 WILL THEN BE ENERGIZED AND THE PACING TYPE WATER METER ON THE RAW WATER SUPPLY LINE WILL ENERGIZE CHLORINATION PUMP.
3. UNDER NORMAL OPERATION, THE WATER LEVEL WILL RISE TO PROBE LEVEL "B" AND THE WELL PUMPS WILL DE-ENERGIZE.
4. IF THE WATER LEVEL CONTINUES TO DROP TO PROBE LEVEL "E", THE BOOSTER PUMPS WILL BE TURNED OFF AND THE LOW-LEVEL WATER ALARM LIGHT AND HORN WILL ACTIVATE AT THE PANEL AND A SIGNAL WILL BE SENT TO THE BUILDING MANAGEMENT SYSTEM.

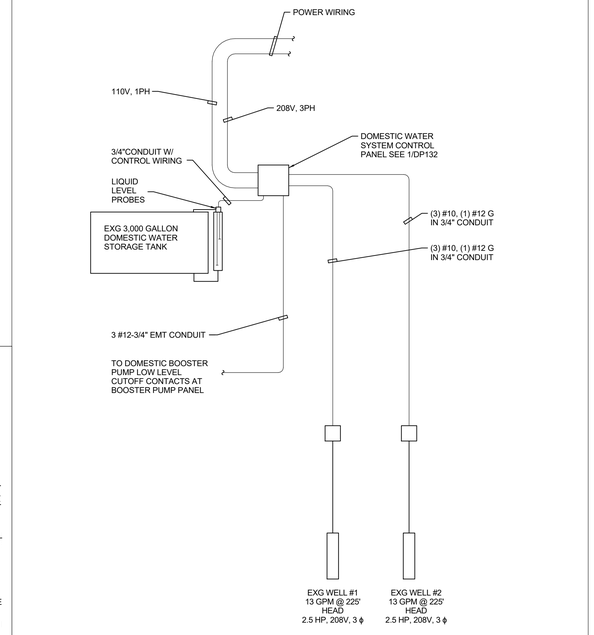
Plan Notes

A. REFER TO DRAWING NO. DP001 FOR GENERAL NOTES.

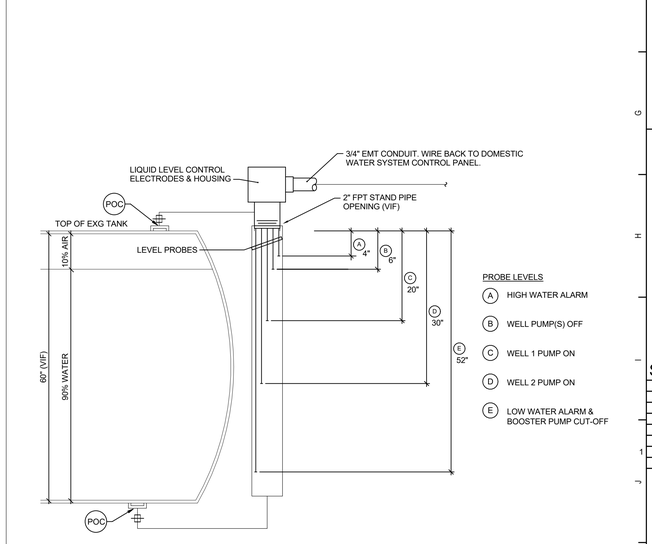
B. REMOVE PLUMBING FIXTURES INDICATED, INCLUDING ASSOCIATED PIPING, FASTENERS, SUPPORTS, ETC., BACK TO POINTS OF CONCEALMENT WITHIN OR BEHIND REMAINING WALLS, BELOW FLOORS OR ABOVE CEILINGS.

C. REPLACE OR RELOCATE PLUMBING FIXTURE INDICATED. MODIFY AND EXTEND EXISTING PIPING AS REQUIRED TO MEET FIXTURE MFR'S ROUGH-IN RECOMMENDATIONS AND TO MAKE CONNECTIONS. CONCEAL PIPING WITHIN OR BEHIND WALLS, BELOW FLOORS OR ABOVE CEILINGS. PATCH DISTURBED FINISHES TO MATCH EXISTING UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO "A" SERIES DWGS FOR EXACT LOCATION AND RIM ELEVATION OF NEW OR RELOCATED FIXTURES.

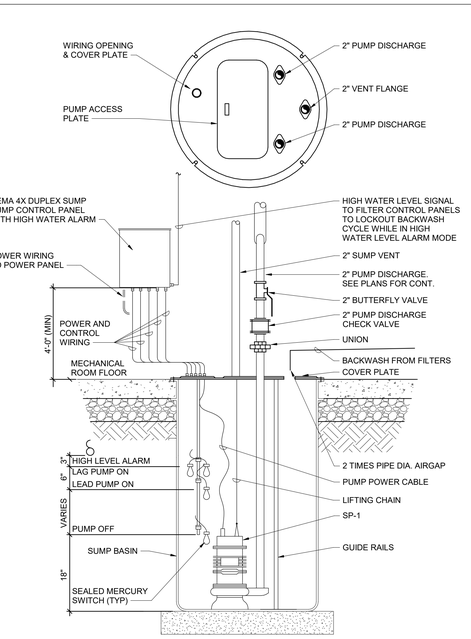
D. REMOVE ABANDONED ACCESSIBLE PIPING TO MAIN BRANCHES, STACKS OR RISERS AS REQUIRED TO ELIMINATE EXPOSED PIPING AND DEAD END PIPING RUNS LONGER THAN 1'-0". COORDINATE CONCEALMENT OF PIPING WITH FINAL CONSTRUCTION OF WALLS, FLOORS AND CEILINGS.



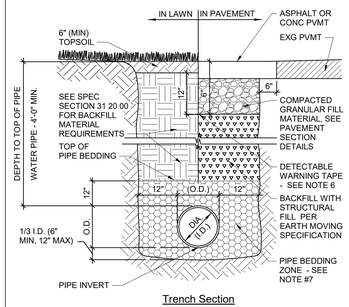
3 Domestic Water System Power Schematic
NTS



2 Level Probes Schematic
NTS



9 Duplex Sump Pump System Schematic
NTS

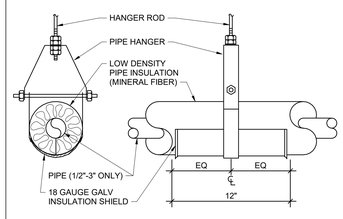


Trench Section

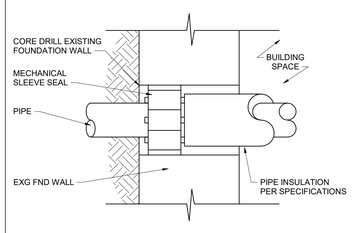
NOTES:

1. INSTALL PIPE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. INCLUDE SHORING AND DEWATERING IN TRENCHING OPERATIONS.
3. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS. THICKNESSES INDICATED ARE MINIMUMS. WHERE EXISTING CONDITIONS EXCEED THOSE SHOWN, MATCH EXISTING.
4. USE MOVABLE PROTECTIVE TRENCH SHIELDS IN UNSHEETED TRENCH AREAS AS REQUIRED BY OSHA REGULATIONS.
5. MINIMUM BURY DEPTHS SHOWN ABOVE APPLY UNLESS OTHERWISE INDICATED.
6. PROVIDE DETECTABLE WARNING TAPE AS SPECIFIED
7. PIPE BEDDING SHALL BE: CRUSHED STONE OR SAND UTILITY BEDDING IN PIPE ZONE.
8. FLUSH, PRESSURE TEST AND DISINFECT PIPING PER SPECIFICATIONS AND AWWA C651 STANDARDS.

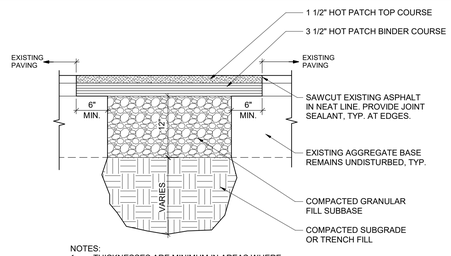
7 Pipe Trench Detail
NTS



6 Insulation Shield Detail
NTS

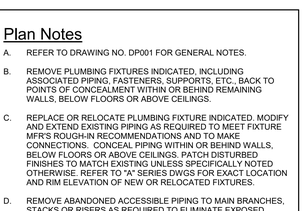


5 Existing Foundation Penetration Detail
NTS



NOTES:
1. THICKNESSES ARE MINIMUM IN AREAS WHERE EXISTING THICKNESSES EXCEED THOSE SHOWN, PROVIDE THE GREATER THICKNESS.
2. SEE PROJECT MANUAL FOR FILL TYPE.

4 Asphalt Paving Patch Detail
NTS



Key Plan
N.T.S.

S.E.D. Control No. 62-18-01-06-0-005-018

Rev. No.:	Date:	Description:
2	8/12/24	DOH Response to Comments
1	5/15/24	DOH Response to Comments

WALLKILL CENTRAL SCHOOL DISTRICT

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BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Wallkill Central School District
Wallkill, New York

Reconstruction to:
Plattekill Elementary School

Details

Drawn By:	Date:	Drawing Number:
BCL	12/18/2023	DP132

Project No.: 17597-22002B