Reconstruction To:

JV Forrestal Elementary School	SED Control No. 13-02-00-01-0-002-021
Sargent Elementary School	SED Control No. 13-02-00-01-0-008-020
South Ave Elementary School	SED Control No. 13-02-00-01-0-003-016
Rombout Middle School	SED Control No. 13-02-00-01-0-004-023
Beacon High School	SED Control No. 13-02-00-01-0-020-012
Bus Maintenance Facility	SED Control No. 13-02-00-01-5-018-006

Addition and Alteration to:

Glenham Elementary School	SED Control No. 13-02-00-01-0-006-022

Beacon City School District
Beacon, New York

BUS MAINTENANCE FACILITY
GLENHAM ELEMENTARY SCHOOL
BEACON HIGH SCHOOL
ROMBOUT MIDDLE SCHOOL
JV FORRESTAL ELEMENTARY SCHOOL
SOUTH AVE ELEMENTARY SCHOOL
SARGENT ELEMENTARY SCHOOL

Project Location Map

N

Drawing List

GENERAL
G001 Title Sheet
G100 Symbols and Abbreviations

JV Forrestal Elementary School

CODE COMPLIANCE
AG350 Code Compliance Review and Vintage Key Plan
AG351 Code Compliance Ground and First Floor Key Plans

HAZARDOUS MATERIALS
AH100 Asbestos Abatement Ground Floor Plan
AH101 Asbestos Abatement First Floor Plan

ARCHITECTURAL
AA100 Ground Floor Demolition Plans - Area A and B
AA101 Ground Floor Demolition Plan - Area C
AA102 First Floor Demolition Plan
AA130 Ground Floor Plans - Area A and B
AA131 Ground Floor Plan - Area C and Ground Floor Reflected Ceiling Plan - Partial Area C
AA132 First Floor Plan
AA940 Details

MECHANICAL
AM050 Key Plans
AM100 Ground Floor Plans - Area A
AM101 Ground Floor Plans - Area B
AM102 Ground Floor Plans - Area C
AM103 First Floor Demolition Plan - Area A
AM104 First Floor Plan - Area A
AM500 Details and Controls
AM600 Schedules

ELECTRICAL
AE100 Ground Floor Plans - Area A
AE101 Ground Floor Plans - Area B
AE102 Ground Floor Plans - Area C
AE103 First Floor Demolition Plan - Area A
AE104 First Floor Power Plan - Area A

PLUMBING
AP130 First Floor Plan - Area A, Details, and Schedule

Glenham Elementary School

CODE COMPLIANCE
BG350 Code Compliance Review and Key Plan

HAZARDOUS MATERIALS
BH100 Asbestos Abatement

ARCHITECTURAL
BA100 First Floor Demolition Plan - Area A and C
BA101 First Floor Demolition Plan - Area B
BA102 First Floor Demolition Plan - Area D
BA130 First Floor Plan - Area A and C
BA131 First Floor Plan - Area B
BA132 First Floor Plan - Area D
BA160 First Floor Reflected Ceiling Plan - Area C
BA161 First Floor Reflected Ceiling Plan - Area B
BA400 Enlarged Vestibule Plans / Elevations / Sections
BA401 Enlarged Toilet Room Plans / Interior Elevations
BA500 Details
BA600 Door Schedule, Door and Window Types, and Details
BA900 Misc. Details

STRUCTURAL
BS130 Partial Foundation and Framing Plan - Area B
BS500 Typical Details
BS600 Notes and Schedules

MECHANICAL
BM051 First Floor Key Plan
BM100 First Floor Demolition Plans - Partial Area A and Area B
BM101 First Floor Demolition Plans - Area C and Partial Area D
BM130 First Floor Plans - Partial Area A and Area B
BM131 First Floor Plan - Area C and Partial Area D
BM500 Details and Controls
BM600 Schedules, Details and Controls

ELECTRICAL
BE100 First Floor Demolition Plan - Areas A and C
BE101 First Floor Demolition Plan - Area B
BE102 First Floor Demolition Plan - Area D
BE130 First Floor Lighting and Power Plan - Areas A and C
BE131 First Floor Lighting and Power Plan - Area B
BE132 First Floor Lighting and Power Plan - Area D
BE500 Details
BE501 Details

Glenham Elementary School

PLUMBING
BP130 First Floor Plan - Area C, Details and Schedule

Sargent Elementary School

CODE COMPLIANCE
CG350 Code Compliance Review and Vintage Plan
CG351 Code Compliance Basement, First and Second Floor Key Plans

ARCHITECTURAL
CA100 Basement Demolition Plan - Area A
CA101 First Floor Demolition Plan - Area A
CA130 Basement Plan - Area A
CA131 First Floor Plan - Area A
CA132 Second Floor Plan
CA161 First Floor Reflected Ceiling Plan - Area A
CA400 Enlarged Plans / Interior Elevations
CA401 Enlarged Stair Plans, Sections, and Details
CA600 Door Schedule, Door and Window Types, and Details
CA750 Miscellaneous Details
CA900 Details

MECHANICAL
CM050 Key Plans
CM100 Partial Plans
CM500 Details, Schedules and Controls

ELECTRICAL
CE050 Key Plans
CE100 Partial Plans
CE500 Details
CE501 Details

PLUMBING
CP130 Basement Floor Plan - Area A, Details and Schedule
CP131 First Floor Plan - Area A and Schedule

South Ave Elementary School

CODE COMPLIANCE
DG350 Code Compliance Review
DG351 Code Compliance Ground, First, and Second Floor Key Plans

HAZARDOUS MATERIALS
DH100 Asbestos Abatement

ARCHITECTURAL
DA100 Ground Floor Demolition Plans - Area A and B
DA101 First Floor Demolition Plan - Area A and B
DA102 Second Floor Demolition Plan - Area A and B
DA130 Ground Floor Plan - Area A, Door Schedule, Door and Frame Types and Details
DA131 First Floor Plan - Area A
DA160 Reflected Ceiling Plans

MECHANICAL
DM050 Ground Floor Floor Key, Demolition and Floor Plans
DM500 Details, Schedules and Controls

ELECTRICAL
DE001 Electrical Site Plan
DE100 Ground Floor Demolition Plan - Areas A and B
DE101 First Floor Demolition Plan - Areas A and B
DE102 Second Floor Demolition Plan
DE130 Ground Floor Floor Lighting Plan - Areas A and B
DE131 First Floor Lighting Plan - Area A
DE132 Second Floor Lighting Plan
DE500 Details

PLUMBING
DP130 First Floor Plan - Area A, Details and Schedule

Drawn By:	Date:	Drawing Number:
TTAE	10/28/2022	AA130
Project No.: 279180-22004		

BUILDING DESIGNATOR
DISCIPLINE DESIGNATOR
SHEET TYPE DESIGNATOR
SHEET SEQUENCE DESIGNATOR

Volume 1 of 2

Set No.

TETRA TECH
ARCHITECTS & ENGINEERS

Architecture Engineering Planning for High Performance Facilities

BID SET

279180-22004
10/28/2022

Drawing Number:
G001

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

BID SET PRINTED AUGUST 8, 2023

Site Symbols

- 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

- 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

- 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

- 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

- 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; 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

- 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

- 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
- LOW VOLTAGE LIGHTING CONTROL
- ESR — EMERGENCY SHUNT RELAY
- OS — OCCUPANCY SENSOR
- VS — VACANCY SENSOR
- PC — PHOTO CELL
- LC — LIGHTING CONTROL
- F — FIRE ALARM MANUAL PULL STATION
- F — FIRE ALARM BELL- W/STROBE W/0 STROBE
- 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
- INTERCOM CALL SWITCH
- TV — TELEVISION OUTLET
- AP — WIRELESS ACCESS POINT
- 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
- LB — SECURITY LOCKDOWN BUTTON
- EXISTING PANEL TO REMAIN
- EXISTING PANEL TO REPLACE
- NEW PANEL
- SPD — SURGE PROTECTION DEVICE
- MOTOR
- LABEL ### — NEW MOTOR ### = CIRCUIT NUMBER
- 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 COMPUTER
- C — OVERHEAD COMPUTER

Symbol Tags

- F = REMOVE EXISTING
- F E = EXISTING TO REMAIN
- F R = REINSTALL EXISTING
- 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

- 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 — 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

NOTE: REFER TO FINISH PLANS FOR ROOM FINISH KEY AND ADDITIONAL ABBREVIATIONS AND TYPES

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)
A/S	AIR SEPARATOR
ASB	ASBESTOS
ASPH	ASPHALT
ATV	ATMOSPHERIC VENT
AUD	AUDITORIUM
AUTO	AUTOMATIC
AVE	AVERAGE
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	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	CONTINOUS
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	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
DWG	DRAWING
DS	DOWNSPOUT, DRAINAGE STRUCTURE
DT	DRAIN TILE
DTA	DOVETAIL ANCHOR
DTL	DETAIL
DW	DUMBWAITER, DISHWASHER
DWL	DOWEL
DWR	DRAWER
E	EAST
EA	EXHAUST AIR, EACH
EAT	ENTERING AIR TEMPERATURE
EB	EXPANSION BOLT
EC	ELECTRICAL CONTRACTOR
ECF	ENHANCED CONCRETE FLOORING
EIFS	EXTERIOR INSULATION SYSTEM
EF	EACH FACE, EXHAUST FAN
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
EXH	EXHAUST
EXG	EXISTING
EXP	EXPANSION
EXT	EXTERIOR, EXTERNAL
F	FAHRENHEIT
FA	FIRE ALARM
FAI	FRESH AIR INTAKE
FCU	FAN COOLING UNIT
FD	FLOOR DRAIN, FIRE DAMPER
FDC	FIRE 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	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
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GL	GLASS, GLAZING
GND	GROUND
GPM	GALLONS PER MINUTE
GR	GRADE (ING), GLYCOL RETURN
GS	GLYCOL SUPPLY
GVL	GRAVEL
GW	GREASE WASTE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
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
HPS	HEAT PUMP LOOP WATER SUPPLY
HPR	HEAT PUMP LOOP WATER RETURN
HPC	HIGH PERFORMANCE COATING
HPL	HIGH PRESSURE LAMINATE
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
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	JANITORS CLOSET
JAN	JANITORS CLOSET
JB	JUNCTION BOX
JC	JANITORS CLOSET
JCT	JUNCTION
JT	JOINT
KW	KILOWATT
KWH	KILOWATT PER HOUR
KV	KILOVOLT
KVA	KILOVOLT AMPERE
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
LV	LABORATORY VENT
LW	LABORATORY WASTE
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	LOW VOLTAGE
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE
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
MEZZ	MEZZANINE
MF	MIXING FAUCET
MFR	MANUFACTURE (R)
MH	MAN HOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOD	MODULE (OR), MODEL
MR	MOP RECEPTOR
MP	MULTICOLOR WALL COATING
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MTH	MARBLE THRESHOLD
MTR	METER
MULL	MULLION
MVEJ	MASONRY VENEER EXPANSION JOINT
N	NORTH, NO WORK REQUIRED
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
OA	OVERALL, OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OPP HD	OPPOSITE HAND
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
QF	QUARTZ FLOORING
QT	QUARRY TILE
R	RADIUS, RETURN, REFRIGERANT, REINSTALL
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	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	SUSPENDED
SV	SHEET VINYL, STEAM VENT
SW	SWITCH, SOFTENED WATER
SWCI	SERVICE WEIGHT CAST IRON
SYM	SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
T	TREAD, TOP, TOILET ROOM, TONS, TERRAZZO
TB	TOP AND BOTTOM, TACK BOARD, TERRAZZO BASE
TBD	TO BE DETERMINED
TC	TEMPERATURE CONTROL, TEMPERED CLEAR, TELECOMMUNICATIONS 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
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	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	WEST, WIDTH, WIDE, WASTE, WATT
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
WWM	WELDED WIRE MESH
W/	WITH
W/O	WITHOUT
XHCI	EXTRA HEAVY CAST IRON
YD	YARD DRAIN, YARD

SED Control No. 13-02-00-01-0-002-021
SED Control No. 13-02-00-01-0-006-022
SED Control No. 13-02-00-01-0-008-020
SED Control No. 13-02-00-01-0-003-016
SED Control No. 13-02-00-01-0-004-023
SED Control No. 13-02-00-01-0-020-012
SED Control No. 13-02-00-01-5-018-006

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

complex world | CLEAR SOLUTIONS

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction To:
JV Forrestal Elementary School, Sargent Elementary School
South Ave Elementary School, Rombout Middle School
Beacon High School, Bus Maintenance Facility
Addition and Alteration to: Glenham Elementary School

Symbols and Abbreviations

Drawn By: TTAE
Date: 10/28/2022
Drawing Number: G100
Project No.: 279180-22004

Structural Loads Notes:

A. FLOOR LIVE LOADS PER BCNYS 1607

OCCUPANCY OR USE	UNIFORM	CONCENTRATED
CLASSROOMS	40 PSF	1000 LBS
LOBBIES	100 PSF	
OFFICES	50 PSF	2000 LBS
TOILET ROOMS	60 PSF	
PARTITIONS	15 PSF PER 1607.5	

REDUCTION IN LIVE LOADS HAS BEEN APPLIED WHERE PERMITTED PER 1607.11

B. ROOF LIVE LOADS PER BCNYS 1607.13

MINIMUM ROOF LIVE LOAD	20 PSF

C. RAIN LOADS PER BCNYS 1611

RAIN INTENSITY, i	2.75 IN/HR
RAIN LOAD, R	16 PSF

RAIN SURCHARGE LOAD HAS BEEN APPLIED TO AREAS WHERE PONDING OCCURS IN ACCORDANCE WITH BCNYS 1611.1.

D. SNOW LOADS PER BCNYS 1608

GROUND SNOW, P_g (FIGURE 1608.2)	30 PSF
FLAT ROOF SNOW LOAD, P_f (ASCE 7)	23.1 PSF
SNOW EXPOSURE FACTOR, C_e	1.0
THERMAL FACTOR, C_t	1.0
SLOPE FACTOR, C	1.0
SNOW LOAD IMPORTANCE FACTOR, I_S	1.1

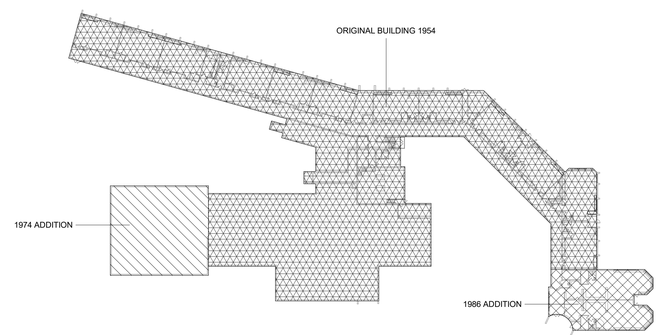
ADDITIONAL SNOW LOADS HAVE BEEN APPLIED TO AREAS WHERE DRIFTING OCCURS IN ACCORDANCE WITH BCNYS 1608.

E. WIND LOAD DESIGN CRITERIA PER BCNYS 1609

BASIC DESIGN WIND SPEED (3 SECOND GUST), V	121 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, V_{asd}	93.7MPH
RISK CATEGORY	I I I
EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT, GCP.	+/- 0.18

F. SEISMIC DESIGN CRITERIA PER BCNYS 1613

RISK CATEGORY	I I I
SEISMIC IMPORTANCE FACTOR, I_e	1.25
MAPPED SPECTRAL RESPONSE ACCELERATION	
AT SHORT PERIODS, S_S	23.3 %g
AT 1 SECOND PERIODS, S_1	5.7 %g
SITE CLASS	D (DEFAULT)
DESIGN SPECTRAL RESPONSE ACCELERATION	
AT SHORT PERIODS, S_{DS}	24.8 %g
AT 1 SECOND PERIODS, S_{D1}	9.1 %g
SEISMIC DESIGN CATEGORY	B



1 Vintage Key Plan
1" = 50'-0"

Code Compliance Review

PROJECT LOCATION:
125 LIBERTY ST, BEACON, NY 12508
BOUNDED BY LIBERTY ST TO THE NORTH WEST, AND GROVE ST TO THE SOUTH WEST.

PROJECT DESCRIPTION:
THIS PROJECT INCLUDES RENOVATION OF APPROXIMATELY 2,535 SF.

WORK GENERALLY CONSISTS OF THE FOLLOWING:
ALTERATIONS - LEVEL 1
- REPLACE INTERCEPTOR AND PATCH FLOORING IN KITCHEN
- REPLACE L/VS AND UV CASEWORK
- PAVING DROP-OFF LOOP
- REPLACE CONCRETE SIDEWALK AND ADA CURB CUTS ALONG BUS LOOP

ALTERATIONS - LEVEL 2
- MECHANICAL VENTILATION TO OFFICE AND OTHER OCCUPIED SPACES
- OUTDOOR PLAY SPACE
- REVISE LAYOUT TO MEET ADA FOR PARKING, SIDEWALK, SIGNAGE, GRADING AND STRIPING AT REAR PARKING

APPLICABLE CODES AND STANDARDS:

BASED ON THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE INCLUDING APPLICABLE 2018 ICC CODES AND 2020 BUILDING CODES of NYS, AND ICC A117.1-2017 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.

REFER TO PROJECT MANUAL FOR REQUIREMENTS STATED IN "NYCRR 155 REGULATIONS OF THE COMMISSIONER OF EDUCATION".

BUILDING DATA:

BUILDING:	JV FORRESTAL ELEMENTARY 125 LIBERTY ST BEACON, NY 12508	
DESCRIPTION:	TWO STORY MASONRY AND REINFORCED CONCRETE BUILDING.	
YEAR BUILT:	1954	
ADDITION:	1974 / 1986	
BUILDING AREA:	GROUND FLOOR	26,400 SQFT
	1ST FLOOR	24,550 SQFT
	TOTAL GROSS AREA=	50,950 SQFT

CODE DATA SUMMARY:

USE GROUP: E : EDUCATION

CONSTRUCTION TYPE -

EXISTING: IIB

FIRE SAFETY: NO AUTOMATIC SPRINKLER SYSTEM IS PROVIDED.

WORK AREA:

LOCATION	AREA	% OF TOTAL
GROUND FLOOR	838 SQFT	3.3%
1ST FLOOR	1,697 SQFT	7.1%

PATH OF CODE COMPLIANCE:

2018 IEBC CODES AND 2020 EXISTING BUILDING CODE of NYS
301.1.2 WORK AREA COMPLIANCE METHOD

CHAPTER 5 - CLASSIFICATION OF WORK
503 ALTERATION - LEVEL 1 (CHAPTER 7)
504 ALTERATION - LEVEL 2 (CHAPTER 8)

NEW CONSTRUCTION WILL COMPLY WITH REQUIREMENTS OF 2018 ICC CODES AND 2020 BUILDING CODES of NYS

INTERIOR FINISH REQUIREMENTS:

ALL FINISHES IN CORRIDORS AND ASSEMBLY SPACES SHALL HAVE A FIRE HAZARD CLASSIFICATION PER MANUAL OF PLANNING STANDARDS SECTION S202-2, a. THROUGH e.

FIRE AREAS					
Building Number	Fire Area Number	Exg SF	Sprinkler System	Allowable Fire Area (sf)	OK
B1	F1-1	49,443	NA	5,000	PENC*

(MAXIMUM FIRE AREA = 5,000 SF PER SECTION 406 AND 903)
PENC = PRE-EXISTING NON-CONFORMING
REFER TO CG351 AND BUILDING KEY PLANS

General Code Notes

A. REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL CODE COMPLIANCE INFORMATION.

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

General Notes

A. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

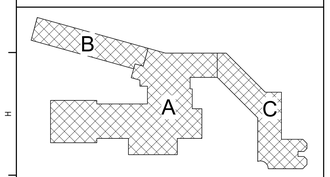
B. TAKE FIELD MEASUREMENTS TO FIT THE WORK PROPERLY. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.

C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.

D. ITEMS ARE SHOWN DIAGRAMMATICALLY ON DRAWINGS. VERIFY SPACE REQUIREMENTS AND DIMENSIONS TO FIT THE WORK PROPERLY.

E. NOTES SHOWN ON ONE DRAWING APPLY TO ALL SIMILAR DRAWINGS.

F. DO NOT DISTURB CONSTRUCTION SUSPECTED OF CONTAINING HAZARDOUS MATERIAL. IF ENCOUNTERED, IMMEDIATELY NOTIFY ARCHITECT[, CONSTRUCTION MANAGER] AND OWNER.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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

BID SET

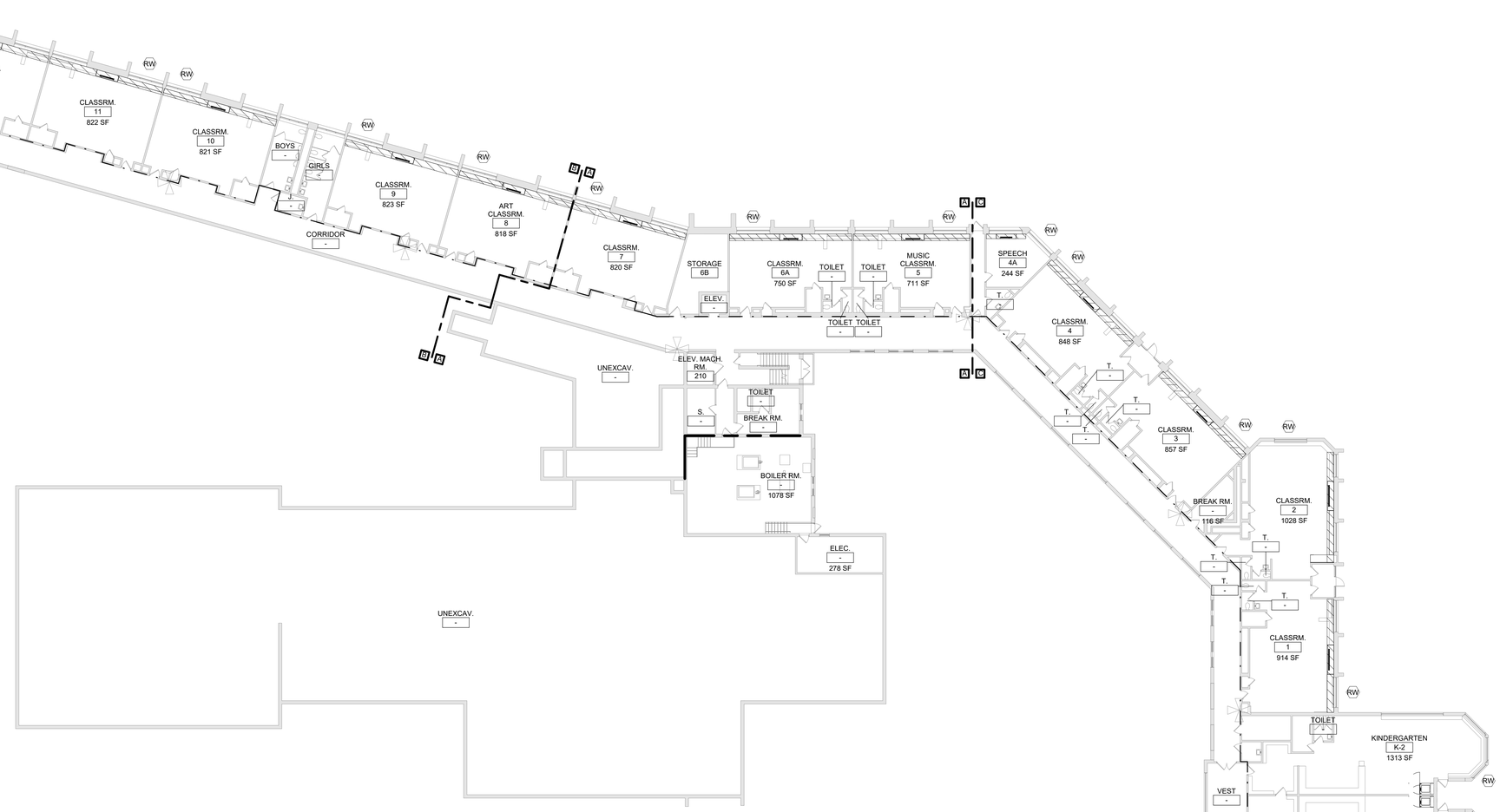
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

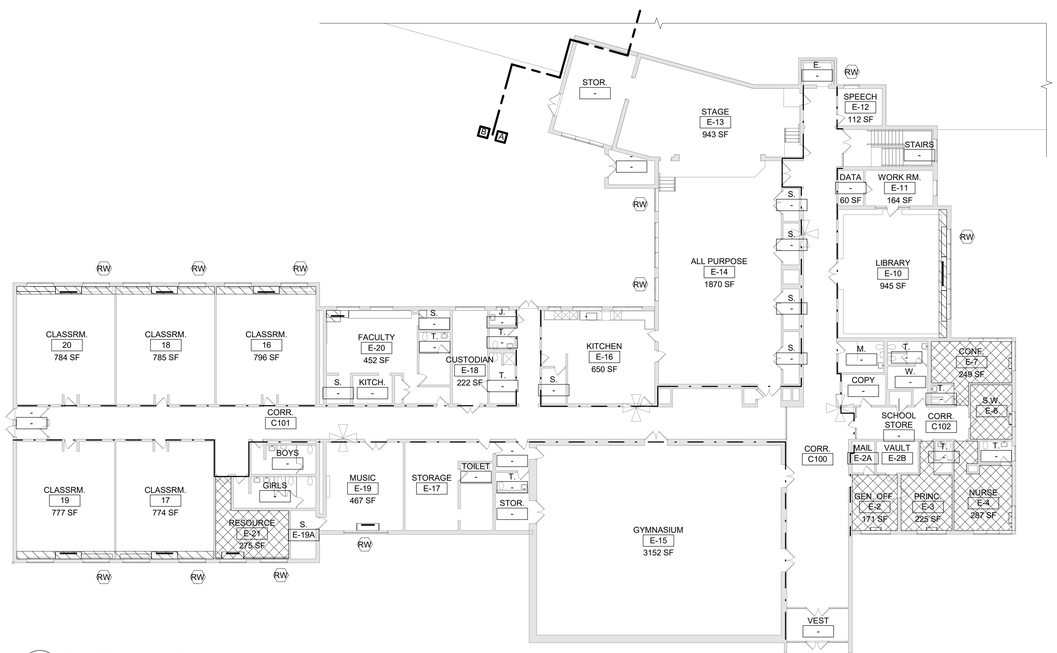
Reconstruction to:
JV Forrestal Elementary School

Code Compliance Review and Vintage Key Plan

Drawn By:	Date:	Drawing Number:
Author	10/28/2022	AG350
Project No.: 279180-22004		



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



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

General Code Notes

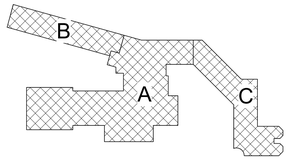
A. REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL CODE COMPLIANCE INFORMATION.

B. AT AREAS OF PROJECT WORK, COMPLETELY SEAL ALL NEW PENETRATIONS REQUIRED TO COMPLY WITH FIRE RESISTANCE RATINGS IDENTIFIED ON THE CODE 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.

- 1-HOUR FIRE PARTITION
- 2-HOUR FIRE BARRIER
- EXISTING FIRE EXTINGUISHER LOCATION
- ALTERATION LEVEL 1 WORK AREA
- ALTERATION LEVEL 2 WORK AREA



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
JV Forrestal Elementary School

Code Compliance Ground and First Floor Key Plans

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	AG351
Project No.: 279180-22004		

ASBESTOS ABATEMENT NOTES

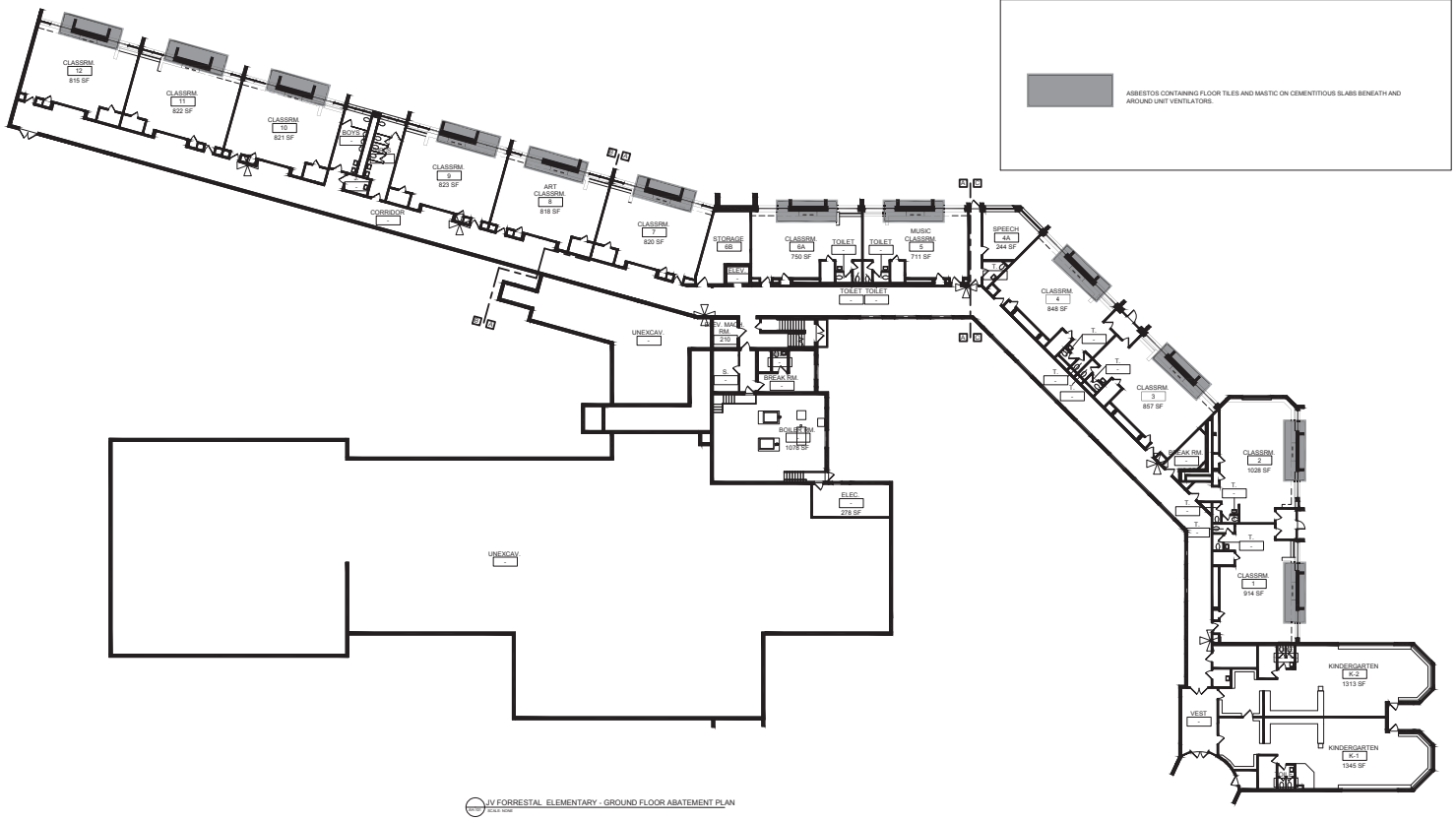
ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING (ACM) FLOOR TILES AT LOCATIONS INDICATED.

ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING (ACM) FLOOR TILES AND MASTIC ON CEMENTITIOUS SLABS.

REFER TO SPECIFICATION SECTION 020800 - SECTION 3.17 FOR A DESCRIPTION OF THE WORK.

ASBESTOS ABATEMENT LEGEND

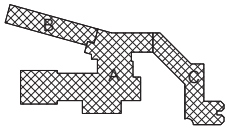
ASBESTOS CONTAINING FLOOR TILES AND MASTIC ON CEMENTITIOUS SLABS BENEATH AND AROUND UNIT VENTILATORS.



JV FORRESTAL ELEMENTARY - GROUND FLOOR ABATEMENT PLAN
SCALE: NONE

QUALITY ENVIRONMENTAL SOUTIONS & TECHNOLOGIES, INC.
1376 NYS ROUTE 9
WAPPINGERS FALLS, NY 12590
TEL. : (845) 298-6031

QuES&T Quality Environmental Solutions & Technologies, Inc.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:
1	9-13-22	100% SED Submittal

Beacon City School District
Beacon, New York

Reconstruction to:
JV Forrestal Elementary School

Asbestos Abatement - Ground Floor Plan

Drawn By:	Date:	Drawing Number:
TTAE	10/28/2022	AH100
Project No.: 279180-22004		

ASBESTOS ABATEMENT NOTES

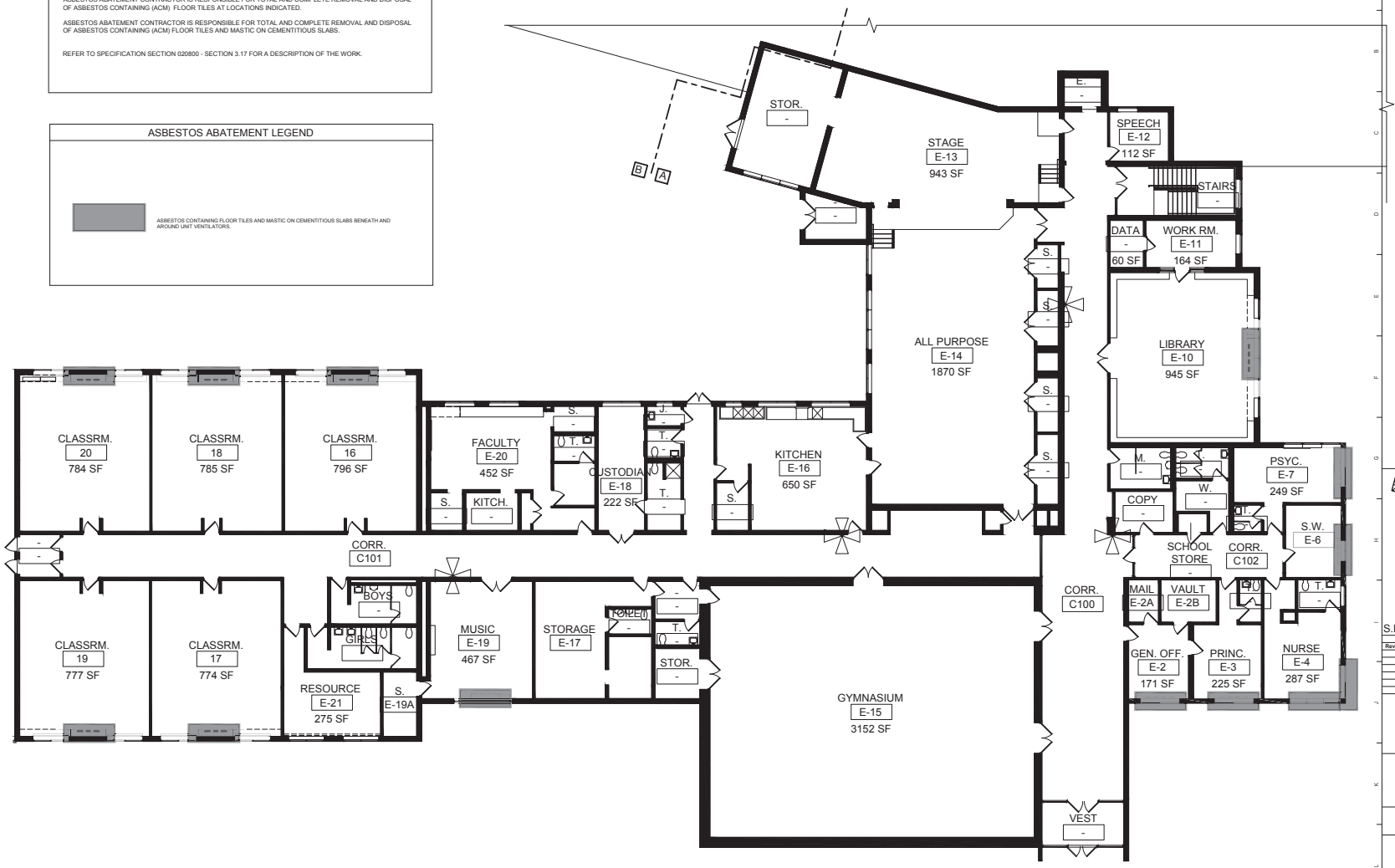
ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING (ACM) FLOOR TILES AT LOCATIONS INDICATED.

ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING (ACM) FLOOR TILES AND MASTIC ON CEMENTITIOUS SLABS.

REFER TO SPECIFICATION SECTION 020800 - SECTION 3.17 FOR A DESCRIPTION OF THE WORK.

ASBESTOS ABATEMENT LEGEND

ASBESTOS CONTAINING FLOOR TILES AND MASTIC ON CEMENTITIOUS SLABS BENEATH AND AROUND UNIT VENTILATORS.



JV FORRESTAL ELEMENTARY - GROUND FLOOR ABATEMENT PLAN
SCALE: NONE

QUALITY ENVIRONMENTAL SOUTIONS & TECHNOLOGIES, INC.
1376 NYS ROUTE 9
WAPPINGERS FALLS, NY 12590
TEL. : (845) 298-6031

QuES&T
Quality Environmental Solutions & Technologies, Inc.

Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

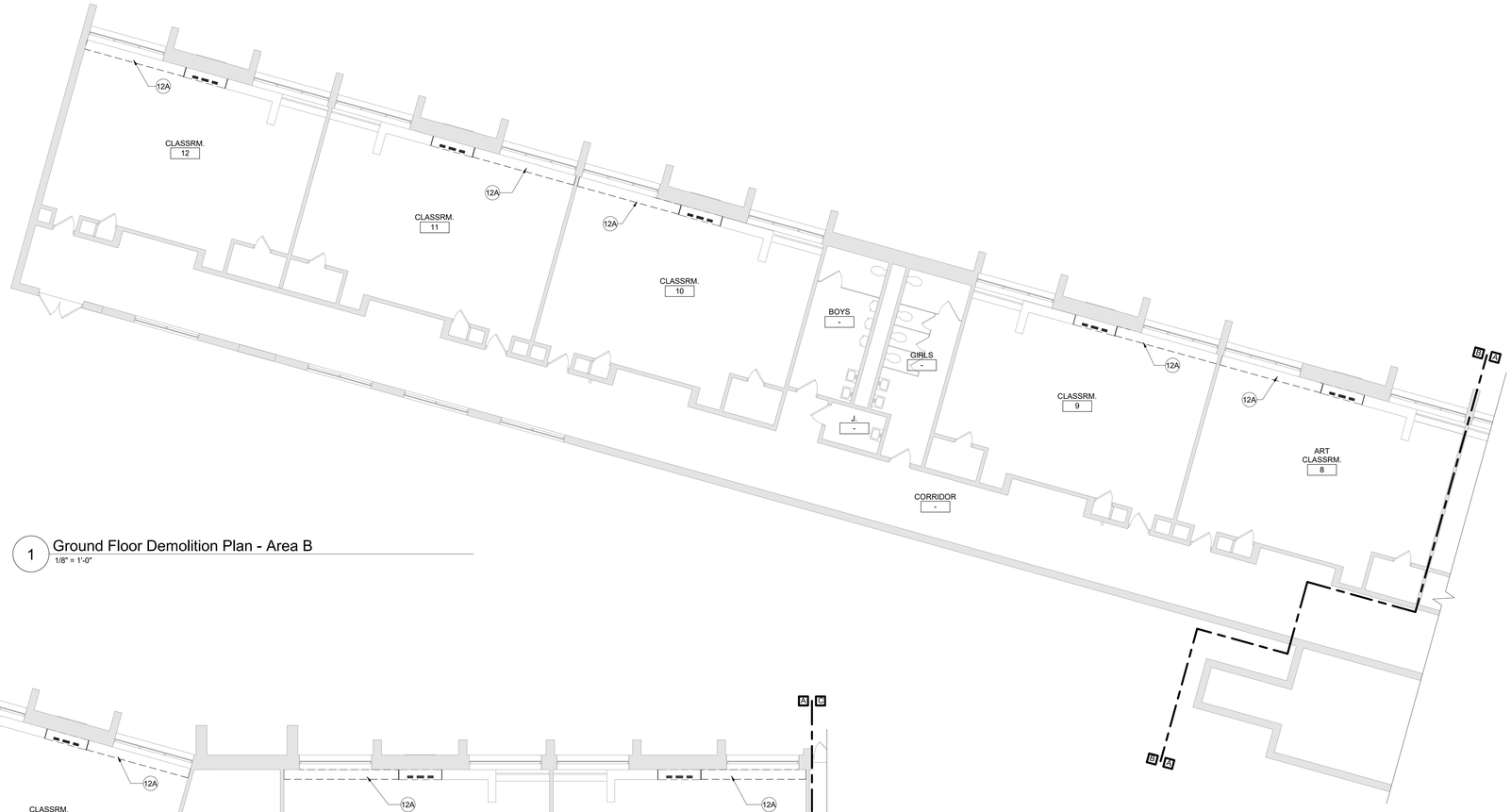
Rev. No.:	Date:	Description:
1	9-13-22	100% SED Submittal

Beacon City School District
Beacon, New York

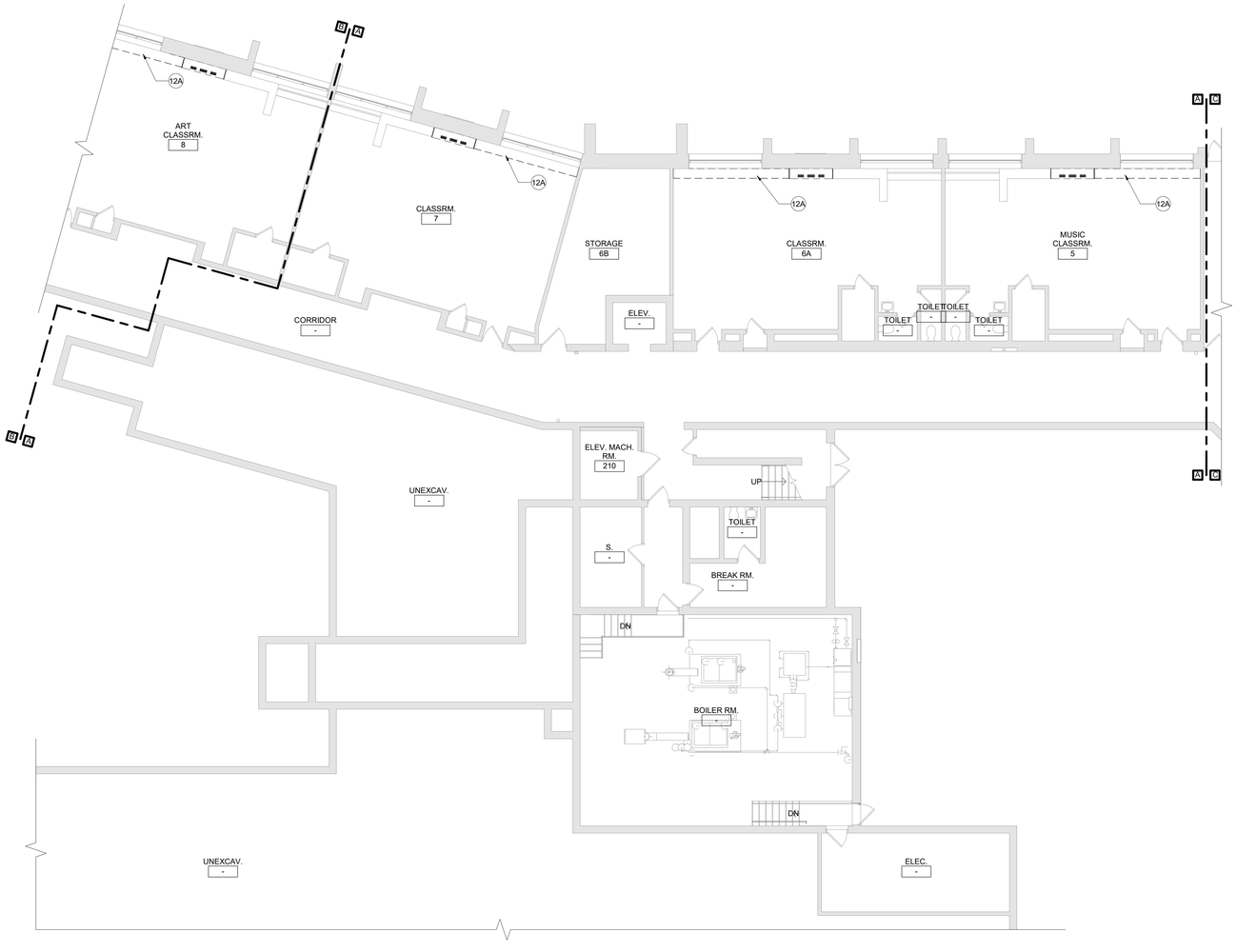
Reconstruction to:
JV Forrestal Elementary School

Asbestos Abatement First Floor Plan

Drawn By:	Date:	Drawing Number:
TTAE	10/28/2022	AH101
Project No.: 279180-22004		



1 Ground Floor Demolition Plan - Area B
1/8" = 1'-0"



2 Ground Floor Demolition Plan - Area A
1/8" = 1'-0"

General Demolition Notes

A. - - - - - - REMOVE ITEMS INDICATED BY DASHED LINE.

B. KEYED DEMOLITION TAGS REFER TO SPECIFIC LOCATIONS AS FOLLOWS:

1. DEMOLITION TAGS LOCATED WITHIN THE MIDDLE OF A SPACE REFER TO DEMOLITION OF ALL ITEMS OF THAT SAME TYPE WITHIN THAT ENTIRE SPACE.

2. DEMOLITION TAGS PLACED IMMEDIATELY ON OR ADJACENT TO A DASHED LINE INDICATING ITEM REMOVAL OR THAT HAVE A LEADER POINTING TO SPECIFIC ITEM(S) REFER TO DEMOLITION OF THAT SPECIFIC ITEM ONLY OF THAT TYPE WITHIN THAT SPACE.

3. DEMOLITION TAGS IN SERIES REFER TO DEMOLITION OF ALL THOSE ITEMS EITHER WITHIN THAT ENTIRE SPACE OR TO THE SPACE IDENTIFIED BY THAT LEADER.

C. WHEN AN ITEM IS INDICATED TO BE DEMOLISHED REMOVE ALL ASSOCIATED COMPONENTS AS PART OF THAT WORK.

D. ALL ARTWORK NOT PERMANENTLY AFFIXED TO EXISTING CONSTRUCTION SHALL BE REMOVED AND STORED BY OWNER PRIOR TO BEGINNING DEMOLITION WORK. CONTACT OWNER'S AGENT(S) IF ANY ARTWORK IS ENCOUNTERED PRIOR TO START OF DEMOLITION WORK.

E. COORDINATE WITH ABATEMENT DRAWINGS PRIOR TO DEMOLITION.

Demolition Key Notes

1H PROVIDE NEW OR ENLARGE EXISTING OPENING IN WALL TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH SCHEDULED WORK ON MECHANICAL DRAWINGS.

8A REMOVE EXISTING WINDOW AND ALL ASSOCIATED COMPONENTS. COORDINATE WITH HVAC DWGS AND ELEVATIONS.

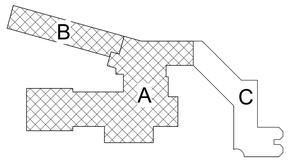
9Ax REMOVE FLOOR FINISH, MASTIC AND WALL BASE TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS OF FLOOR REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO MAKE SURFACE LEVEL. PREPARE FOR FINISH. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE.

SUFFIX KEY (FLOOR FINISH IDENTIFICATIONS):
A. VAT/VCT.
B. CERAMIC FLOOR TILE.
C. CARPET.
D. VINYL, SHEET.
E. LINOLEUM, SHEET OR TILE.

9E REMOVE WALL BASE AND ASSOCIATED MASTIC ONLY - EXISTING FLOOR FINISH TO REMAIN. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE.

12A REMOVE CASEWORK, SHELVING AND ASSOCIATED COMPONENTS TO THE EXTENT REQUIRED TO PERFORM SCHEDULED WORK. COORDINATE WITH CASEWORK AND MECHANICAL DRAWINGS. PATCH FLOOR FINISH TO MATCH ADJACENT SURFACES.

12B REMOVE COUNTERTOP, CASEWORK AND ASSOCIATED COMPONENTS. SALVAGE CASEWORK TO BE REINSTALLED. COORDINATE WITH CASEWORK AND MECHANICAL DRAWINGS. PATCH FLOOR FINISH TO MATCH ADJACENT SURFACES.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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

BID SET

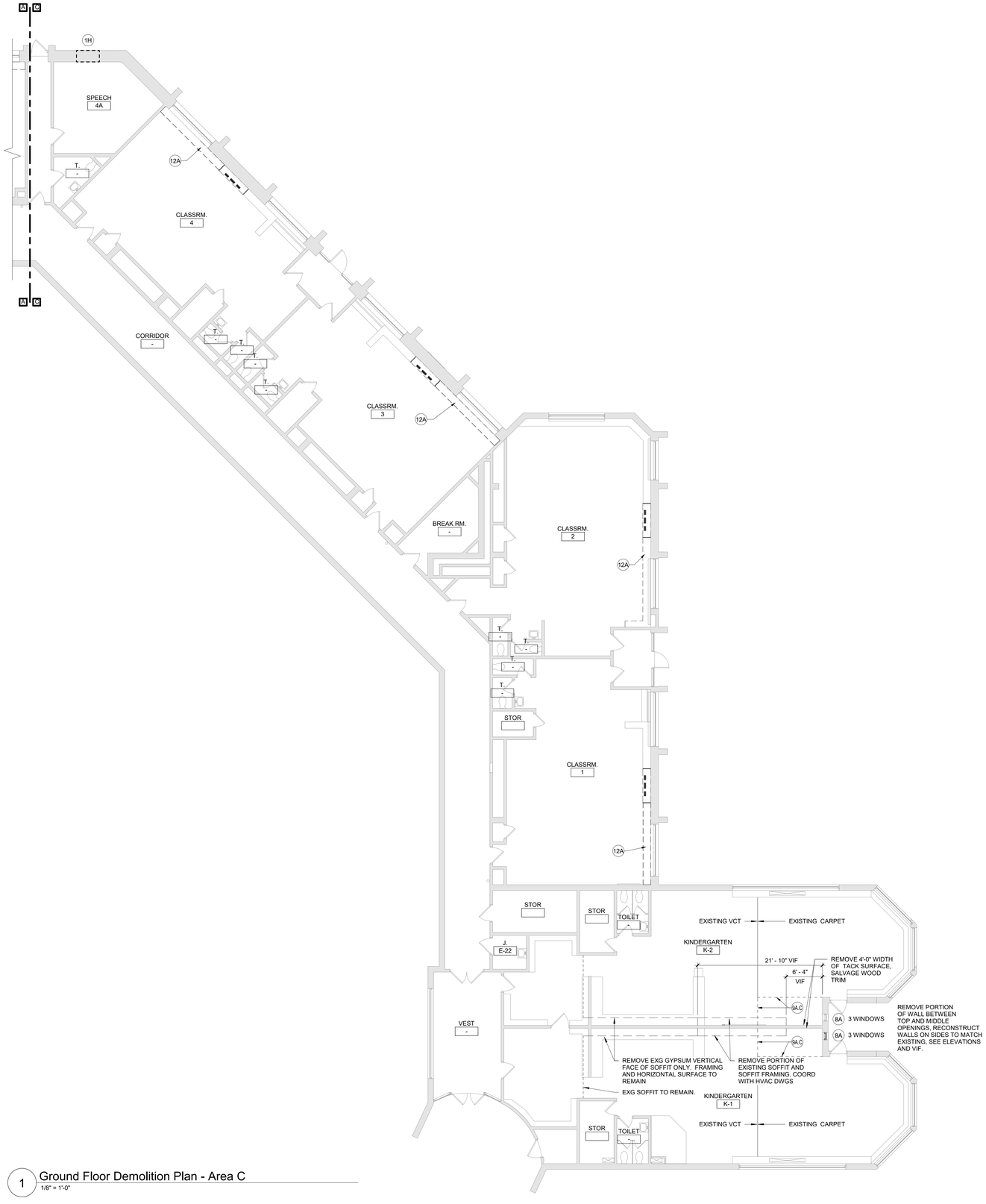
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
JV Forrestal Elementary School

Ground Floor Demolition Plans - Area A and B

Drawn By:	Date:	Drawing Number:
GCK/ltg	10/28/2022	AA100
Project No.: 279180-22004		



1 Ground Floor Demolition Plan - Area C
1/8" = 1'-0"

General Demolition Notes

A. – – – – – – REMOVE ITEMS INDICATED BY DASHED LINE.

B. KEYED DEMOLITION TAGS REFER TO SPECIFIC LOCATIONS AS FOLLOWS:

1. DEMOLITION TAGS LOCATED WITHIN THE MIDDLE OF A SPACE REFER TO DEMOLITION OF ALL ITEMS OF THAT SAME TYPE WITHIN THAT ENTIRE SPACE.

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3. DEMOLITION TAGS IN SERIES REFER TO DEMOLITION OF ALL THOSE ITEMS EITHER WITHIN THAT ENTIRE SPACE OR TO THE SPACE IDENTIFIED BY THAT LEADER.

C. WHEN AN ITEM IS INDICATED TO BE DEMOLISHED REMOVE ALL ASSOCIATED COMPONENTS AS PART OF THAT WORK.

D. ALL ARTWORK NOT PERMANENTLY AFFIXED TO EXISTING CONSTRUCTION SHALL BE REMOVED AND STORED BY OWNER PRIOR TO BEGINNING DEMOLITION WORK. CONTACT OWNER'S AGENT(S) IF ANY ARTWORK IS ENCOUNTERED PRIOR TO START OF DEMOLITION WORK.

E. COORDINATE WITH ABATEMENT DRAWINGS PRIOR TO DEMOLITION.

Demolition Key Notes

1H PROVIDE NEW OR ENLARGE EXISTING OPENING IN WALL TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH SCHEDULED WORK ON MECHANICAL DRAWINGS.

8A REMOVE EXISTING WINDOW AND ALL ASSOCIATED COMPONENTS. COORDINATE WITH HVAC DWGS AND ELEVATIONS.

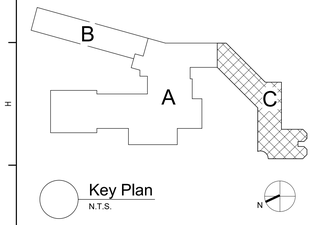
9A,x REMOVE FLOOR FINISH, MASTIC AND WALL BASE TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS OF FLOOR REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO MAKE SURFACE LEVEL. PREPARE FOR FINISH. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE.

SUFFIX KEY (FLOOR FINISH IDENTIFICATIONS):
A. VATA/CT.
B. CERAMIC FLOOR TILE.
C. CARPET
D. VINYL, SHEET.
E. LINOLEUM, SHEET OR TILE.

9E REMOVE WALL BASE AND ASSOCIATED MASTIC ONLY - EXISTING FLOOR FINISH TO REMAIN. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE.

12A REMOVE CASEWORK, SHELVING AND ASSOCIATED COMPONENTS TO THE EXTENT REQUIRED TO PERFORM SCHEDULED WORK. COORDINATE WITH CASEWORK AND MECHANICAL DRAWINGS. PATCH FLOOR FINISH TO MATCH ADJACENT SURFACES.

12B REMOVE COUNTERTOP, CASEWORK AND ASSOCIATED COMPONENTS. SALVAGE CASEWORK TO BE REINSTALLED. COORDINATE WITH CASEWORK AND MECHANICAL DRAWINGS. PATCH FLOOR FINISH TO MATCH ADJACENT SURFACES.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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

BID SET

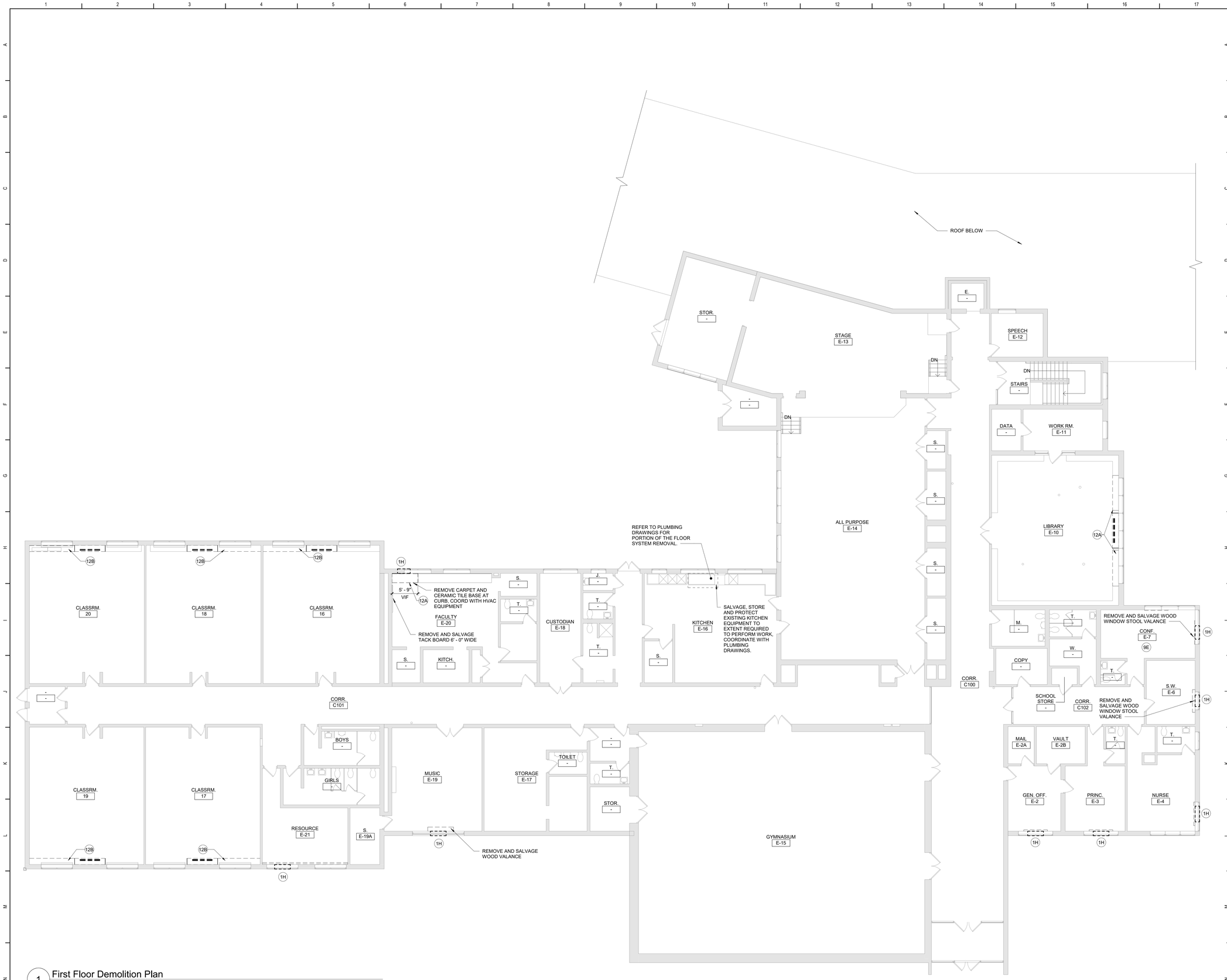
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
JV Forrestal Elementary School

Ground Floor Demolition Plan - Area C

Drawn By:	Date:	Drawing Number:
GCK/ltg	10/28/2022	AA101
Project No.: 279180-22004		



1 First Floor Demolition Plan
1/8" = 1'-0"

General Demolition Notes

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E. COORDINATE WITH ABATEMENT DRAWINGS PRIOR TO DEMOLITION.

Demolition Key Notes

1H PROVIDE NEW OR ENLARGE EXISTING OPENING IN WALL TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH SCHEDULED WORK ON MECHANICAL DRAWINGS.

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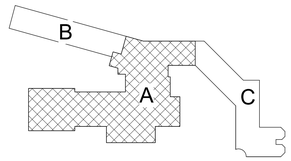

Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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

BID SET

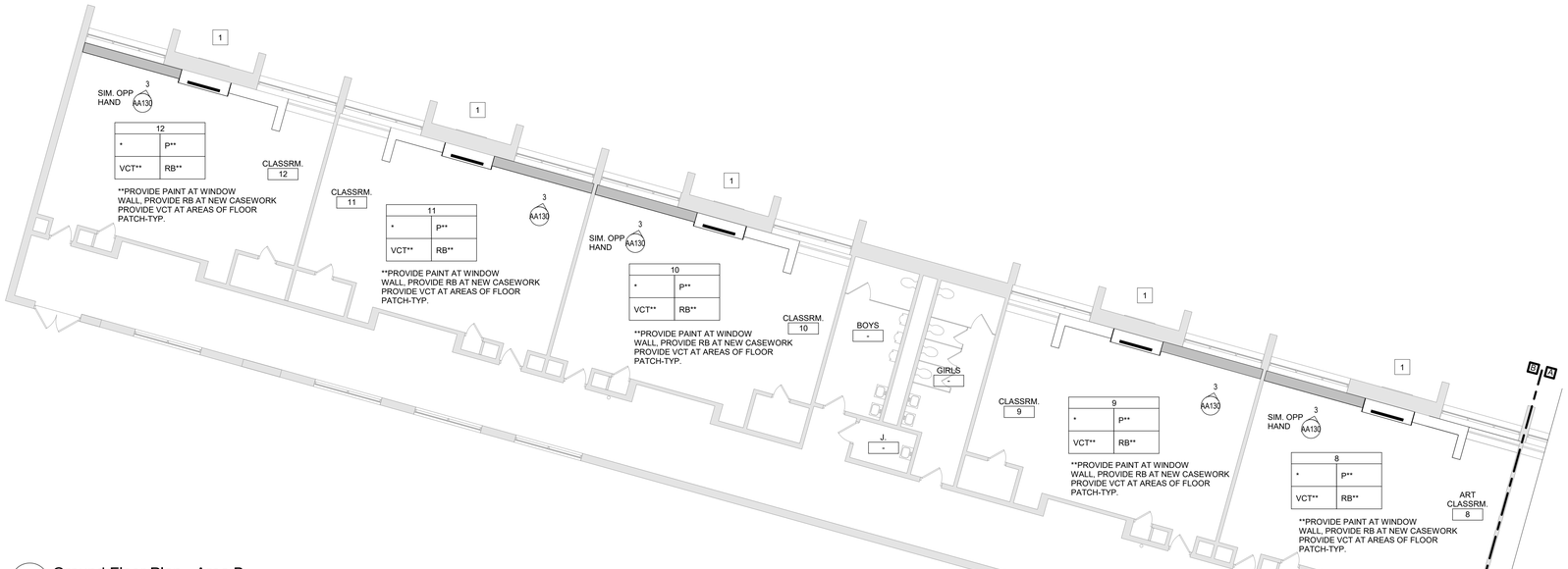
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

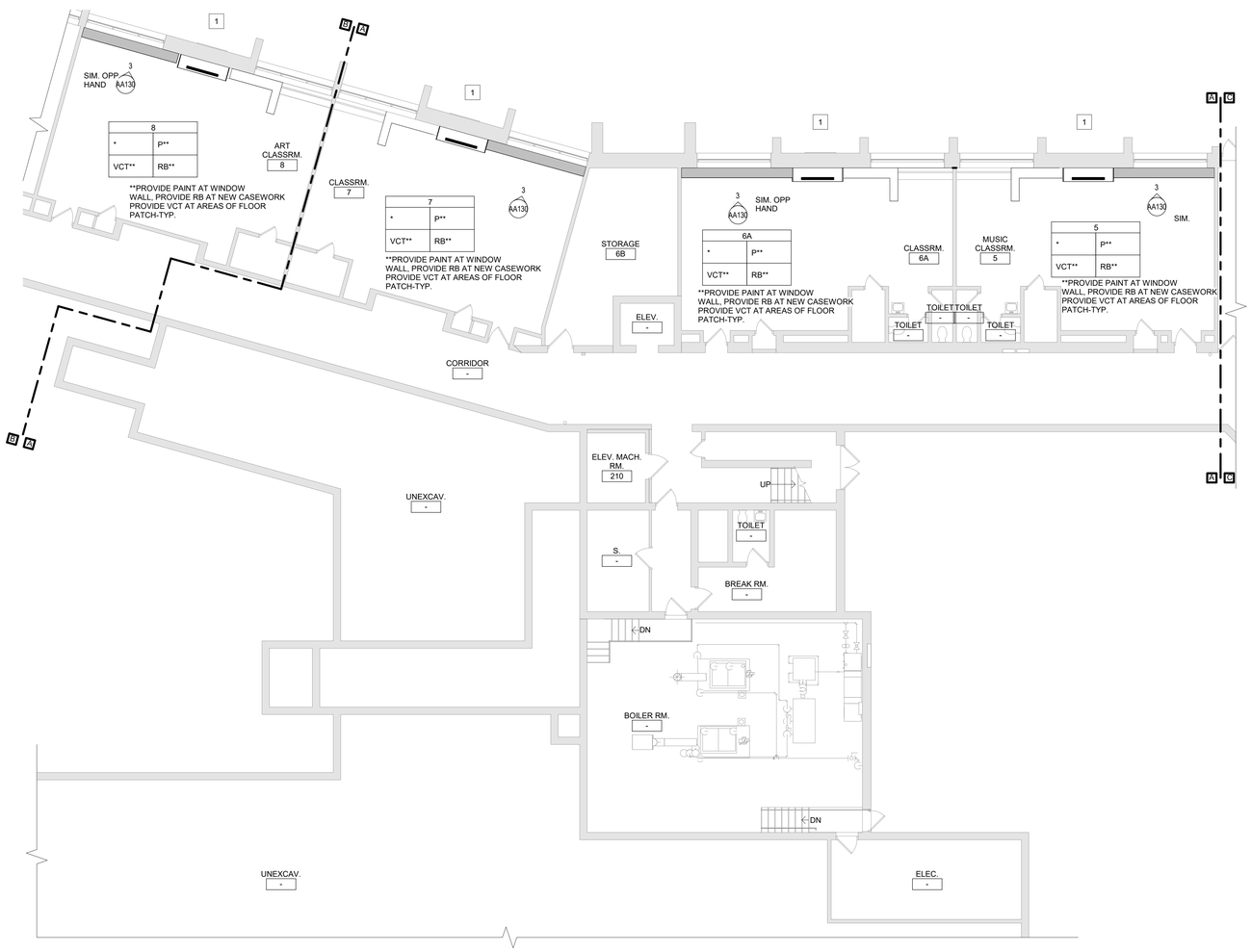
Reconstruction to:
JV Forrestal Elementary School

First Floor Demolition Plan

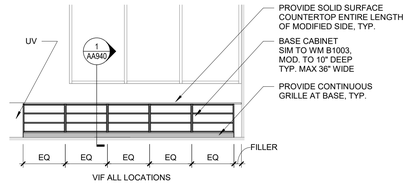
Drawn By:	Date:	Drawing Number:
GCK/llg	10/28/2022	AA102
Project No.: 279180-22004		



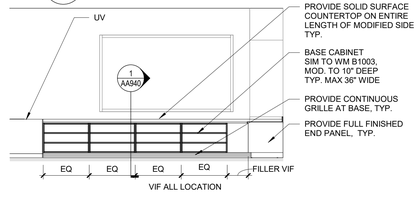
1 Ground Floor Plan - Area B
1/8" = 1'-0"



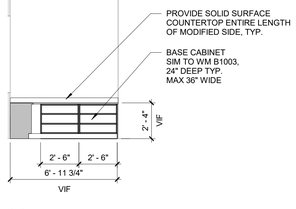
2 Ground Floor Plan - Area A
1/8" = 1'-0"



3 Typical Casework Elevation
1/4" = 1'-0"



4 Elevation classroom 2
1/4" = 1'-0"



5 Elevation Classroom 2
1/4" = 1'-0"

ALL CASEWORK WORK REQUIRED AT EXTERIOR WALL ARE TO BE FIELD VERIFIED PER ROOM PRIOR TO SUBMITTING OF CASEWORK SHOP DRAWINGS TO ENSURE CORRECT SIZE, DISTANCE AND PLACEMENT. TYP ALL ROOMS, ALL LOCATIONS.

General Notes

A. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

B. TAKE FIELD MEASUREMENTS TO FIT THE WORK PROPERLY. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.

C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.

D. ITEMS ARE SHOWN DIAGRAMMATICALLY ON DRAWINGS. VERIFY SPACE REQUIREMENTS AND DIMENSIONS TO FIT THE WORK PROPERLY.

E. NOTES SHOWN ON ONE DRAWING APPLY TO ALL SIMILAR DRAWINGS.

F. DO NOT DISTURB CONSTRUCTION SUSPECTED OF CONTAINING HAZARDOUS MATERIAL. IF ENCOUNTERED, IMMEDIATELY NOTIFY ARCHITECT[, CONSTRUCTION MANAGER] AND OWNER.

General Plan Notes

A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

Keyed Plan Notes

1. INSTALL LOUVER FURNISHED BY OTHERS AT EXISTING OPENING. COORDINATE WITH MECHANICAL DRAWINGS.
2. PROVIDE INFILL AT MECH REMOVAL WITH P16.3 OR SIMILAR CONSTRUCTION. MATCH EXISTING ADJACENT SURFACE. PREPARE FOR SCHEDULED FINISH, VIF. COORD WITH HVAC DWGS FOR LOCATIONS OF NEW MECH EQUIPMENT FOR NEW R.O.
3. COPE SALVAGED WOOD WINDOW STOOL VALANCE TO MECHANICAL EQUIPMENT, REINSTALL.
4. PATCH EXG FLOOR AT MECHANICAL REMOVAL. INFILL ALL PENETRATIONS WITH SIMILAR MATERIALS, VIF
5. INSTALL LOUVER FURNISHED BY OTHERS AT NEW OPENING. COORDINATE WITH MECHANICAL DRAWINGS.

REFER TO DRAWING AA940 FOR ALL GENERAL FINISH NOTES
REFER TO DRAWING AA940 FOR ALL CASEWORK NOTES

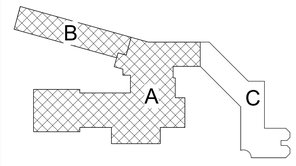
Room Finish Key

N	NO WORK REQUIRED
P	PAINT SURFACE(S) INCLUDING SOFFITS
RB	RUBBER BASE
QT	QUARRY TILE
VCT	VINYL COMPOSITION TILE - TYPE 1
*	SEE REFLECTED CEILING PLAN
	INDICATED CHANGE IN FLOOR FINISH

NOTE: ALL FINISHES LISTED MAY NOT BE REQUIRED FOR THIS PROJECT

FINISHES SHOWN IN ROOM FINISH BOX ARE FOR ALL WALLS AND ENTIRE FLOOR AND CEILING REFER TO EACH ROOM FOR MORE INFORMATION.

RM#	
CLG*	WALL
FLR	BASE



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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

BID SET

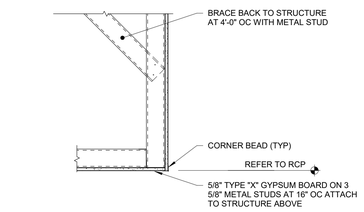
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

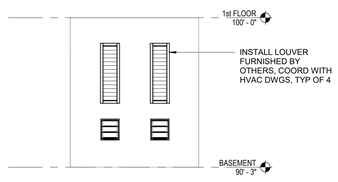
Reconstruction to:
JV Forrestal Elementary School

Ground Floor Plans - Area A and B

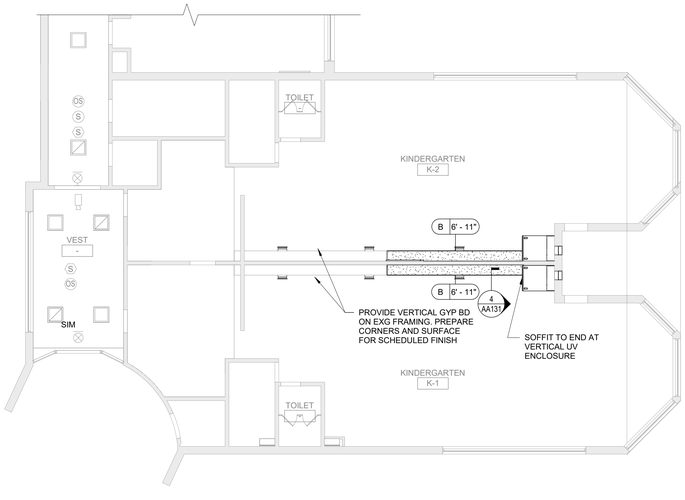
Drawn By:	Date:	Drawing Number:
GCK/ltg	10/28/2022	AA130
Project No.: 279180-22004		



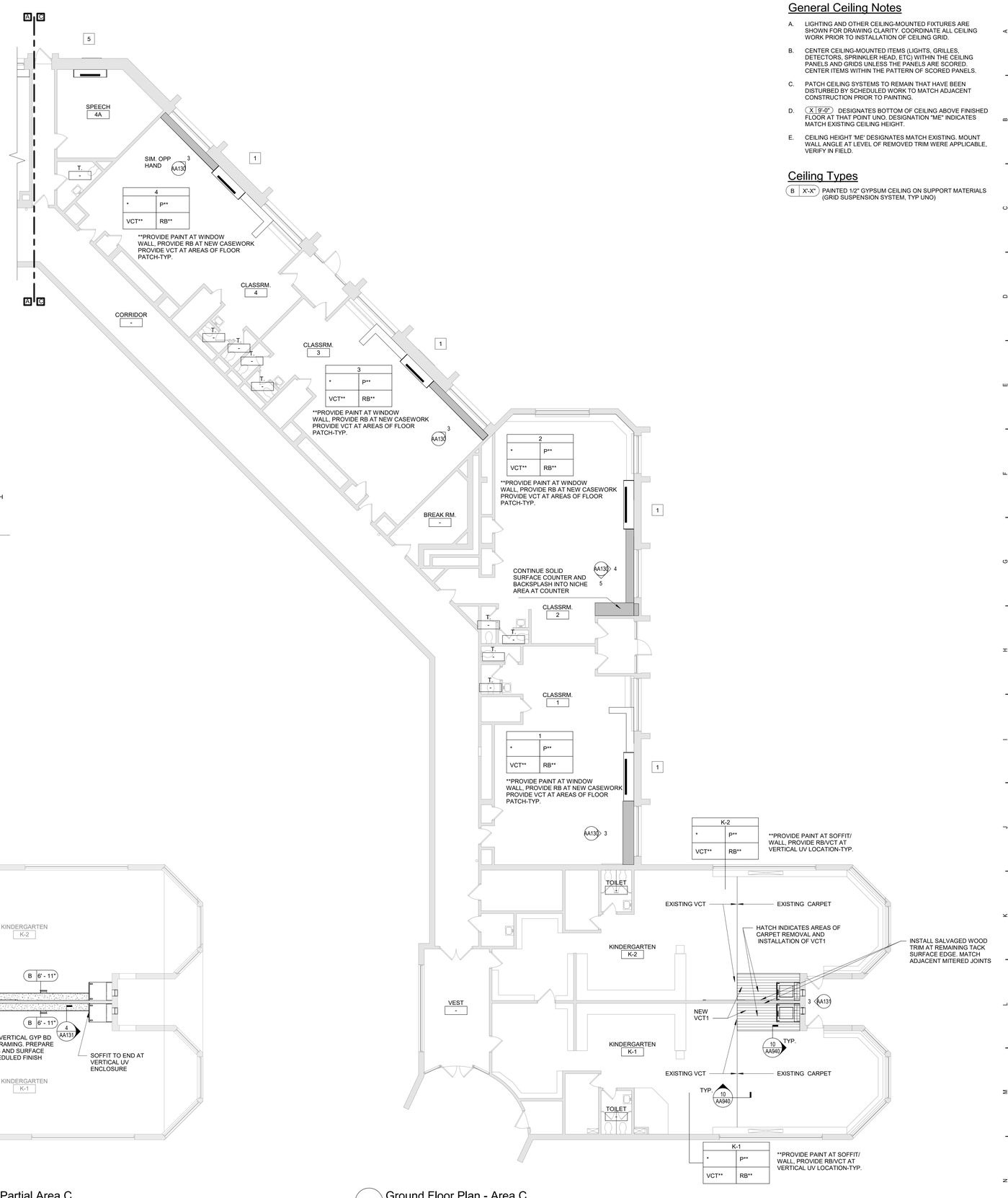
4 Soffit Detail
1" = 1'-0"



3 Exterior Elevation
1/4" = 1'-0"



2 Ground Floor Reflected Ceiling Plan - Partial Area C
1/8" = 1'-0"



1 Ground Floor Plan - Area C
1/8" = 1'-0"

General Ceiling Notes

A. LIGHTING AND OTHER CEILING-MOUNTED FIXTURES ARE SHOWN FOR DRAWING CLARITY. COORDINATE ALL CEILING WORK PRIOR TO INSTALLATION OF CEILING GRID.

B. CENTER CEILING-MOUNTED ITEMS (LIGHTS, GRILLES, DETECTORS, SPRINKLER HEAD, ETC) WITHIN THE CEILING PANELS AND GRIDS UNLESS THE PANELS ARE SCORED. CENTER ITEMS WITHIN THE PATTERN OF SCORED PANELS.

C. PATCH CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK TO MATCH ADJACENT CONSTRUCTION PRIOR TO PAINTING.

D. (X | 9'-0") DESIGNATES BOTTOM OF CEILING ABOVE FINISHED FLOOR AT THAT POINT UNO. DESIGNATION "ME" INDICATES MATCH EXISTING CEILING HEIGHT.

E. CEILING HEIGHT 'ME' DESIGNATES MATCH EXISTING. MOUNT WALL ANGLE AT LEVEL OF REMOVED TRIM WERE APPLICABLE, VERIFY IN FIELD.

Ceiling Types

(B | X'-X") PAINTED 1/2" GYPSUM CEILING ON SUPPORT MATERIALS (GRID SUSPENSION SYSTEM, TYP UNO)

General Plan Notes

A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

General Notes

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Keyed Plan Notes

1. INSTALL LOUVER FURNISHED BY OTHERS AT EXISTING OPENING. COORDINATE WITH MECHANICAL DRAWINGS.
2. PROVIDE INFILL AT MECH REMOVAL WITH P16.3 OR SIMILAR CONSTRUCTION. MATCH EXISTING ADJACENT SURFACE. PREPARE FOR SCHEDULED FINISH, VIF. COORD WITH HVAC DWGS FOR LOCATIONS OF NEW MECH EQUIPMENT FOR NEW R.O.
3. COPE SALVAGED WOOD WINDOW STOOL VALANCE TO MECHANICAL EQUIPMENT, REINSTALL.
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REFER TO DRAWING AA940 FOR ALL GENERAL FINISH NOTES
REFER TO DRAWING AA940 FOR ALL CASEWORK NOTES

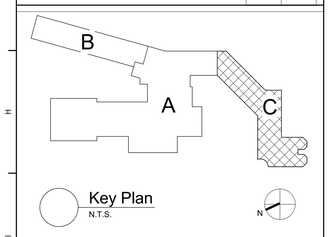
Room Finish Key

N	NO WORK REQUIRED
P	PAINT SURFACE(S) INCLUDING SOFFITS
RB	RUBBER BASE
QT	QUARRY TILE
VCT	VINYL COMPOSITION TILE - TYPE 1
*	SEE REFLECTED CEILING PLAN
	INDICATED CHANGE IN FLOOR FINISH

NOTE: ALL FINISHES LISTED MAY NOT BE REQUIRED FOR THIS PROJECT

FINISHES SHOWN IN ROOM FINISH BOX ARE FOR ALL WALLS AND ENTIRE FLOOR AND CEILING REFER TO EACH ROOM FOR MORE INFORMATION.

RM#	
CLG*	WALL
FLR	BASE



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

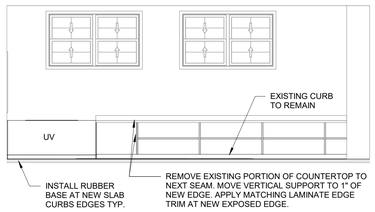
Beacon City School District
Beacon, New York

Reconstruction to:
JV Forrestal Elementary School

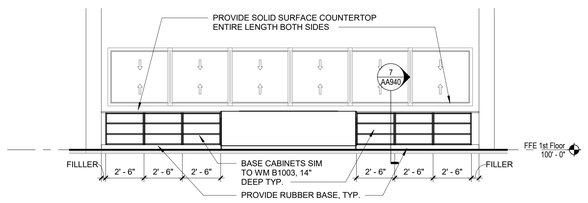
Ground Floor Plan - Area C and Ground Floor Reflected Ceiling Plan - Partial Area C

Drawn By:	Date:	Drawing Number:
GCK/tlg	10/28/2022	AA131

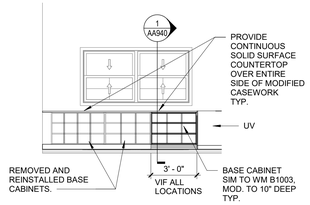
Project No.: 279180-22004



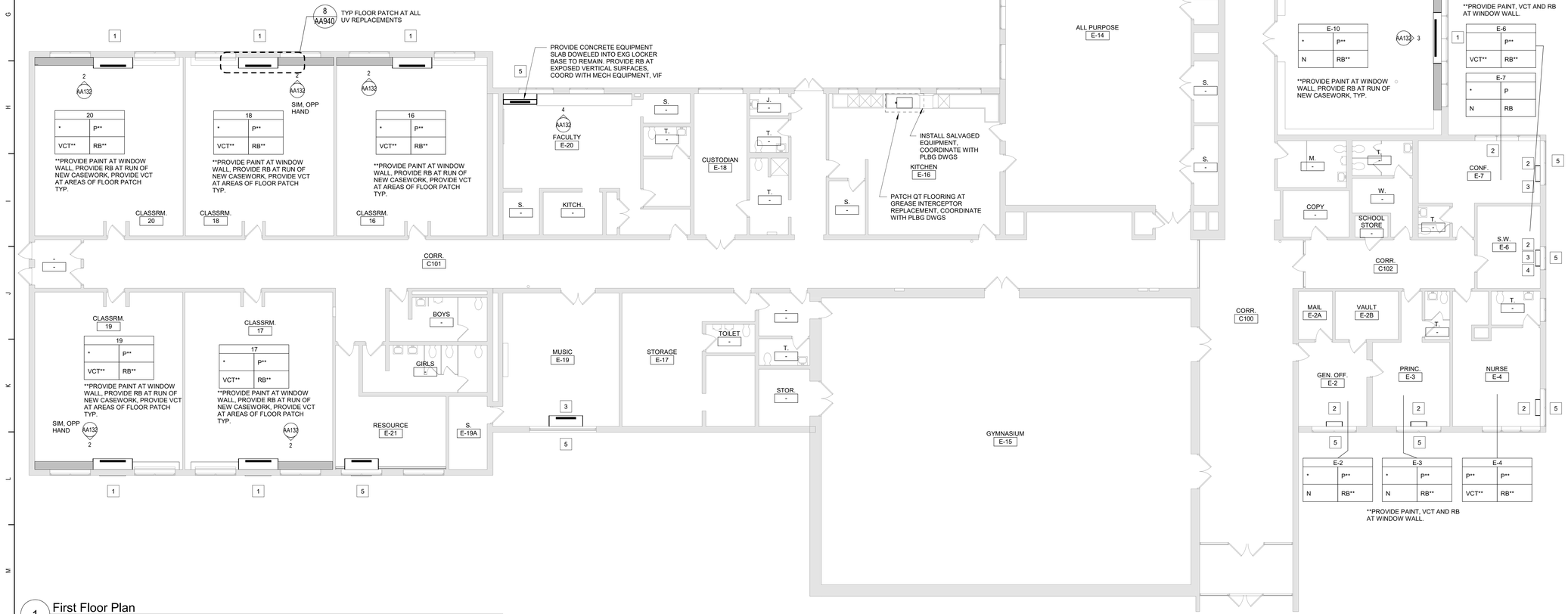
4 Faculty E-20
1/4" = 1'-0"



3 Library E-10
1/4" = 1'-0"



2 Casework Elevation
1/4" = 1'-0"



1 First Floor Plan
1/8" = 1'-0"

General Plan Notes

A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

General Notes

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Keyed Plan Notes

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3. COPE SALVAGED WOOD WINDOW STOOL VALANCE TO MECHANICAL EQUIPMENT, REINSTALL.
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REFER TO DRAWING AA940 FOR ALL GENERAL FINISH NOTES
REFER TO DRAWING AA940 FOR ALL CASEWORK NOTES

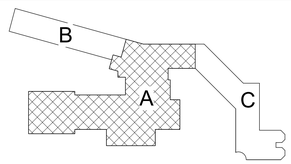
Room Finish Key

N	NO WORK REQUIRED
P	PAINT SURFACE(S) INCLUDING SOFFITS
RB	RUBBER BASE
QT	QUARRY TILE
VCT	VINYL COMPOSITION TILE - TYPE 1
*	SEE REFLECTED CEILING PLAN
	INDICATED CHANGE IN FLOOR FINISH

NOTE: ALL FINISHES LISTED MAY NOT BE REQUIRED FOR THIS PROJECT

FINISHES SHOWN IN ROOM FINISH BOX ARE FOR ALL WALLS AND ENTIRE FLOOR AND CEILING REFER TO EACH ROOM FOR MORE INFORMATION.

RM#	
CLG*	WALL
FLR	BASE



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
JV Forrestal Elementary School

First Floor Plan

Drawn By:	Date:	Drawing Number:
GCK/tlg	10/28/2022	AA132
Project No.: 279180-22004		

General Finish Notes

ALL FINISH PRODUCTS ARE TO BE INSTALLED IN ACCORDANCE WITH CONTRACT SPECIFICATION AND MANUFACTURES INSTRUCTIONS. REFER TO SPECIFICATIONS AND FINISH DETAILS FOR ADDITIONAL INFORMATION ON INSTALLATION OF SPECIFIED MATERIALS,

A. ALL PAINTS FOR INTERIOR AND EXTERIOR ARE TO BE APPLIED IN ACCORDANCE WITH SPECIFICATION SECTION 09 91 00 AND 09 96 00.

B. ALL EXPOSED STRUCTURES, INCLUDING BUT NOT LIMITED TO PIPING AND FIREPROOFING, CONDUIT, AND ALL ASSOCIATED EQUIPMENT ARE TO BE PAINTED.

C. APPLY PAINT TO BOTH NEW AND EXISTING ITEMS IN ALL AREAS INDICATED WITH A FINISH BOX AND/OR NOTES - THESE ITEMS ARE INCLUDING BUT ARE NOT LIMITED TO:
- FEC 'S, LADDERS, BEAMS, DOOR/FRAMES - BOTH SIDES
GLAZING FRAMES IN DOOR/WALLS- BOTH SIDES, ALL ITEMS ARE TO BE ACCENT COLORS.

D. PATTERNS FOR FLOORS AND WALLS ARE ISSUED DURING THE CONSTRUCTIONS PHASE, INCLUDING ALL ACCENT LOCATIONS. SUBMIT SHOP DRAWINGS SHOWING DETAILED LAYOUTS OF EACH AREA, INCLUDING EDGES AND TRANSITIONS, ALL LAYOUTS ARE TO BE CENTERED IN EACH ROOM UNO - TYP ALL DRAWINGS. ABOVE REQUIREMENTS ARE TO INCLUDE BUT NOT LIMITED TO:
- VCT
- RUBBER

E. FIELD AND ACCENT PAINT ARE ISSUED DURING THE CONSTRUCTION PHASE- CONTRACTOR IS TO ASSUME ALL FIELD AND ACCENT COLORS ARE DIFFERENT ROOM TO ROOM. AS WELL AS WITHIN EACH ROOM. REQUIREMENTS ARE TO INCLUDE BUT ARE NOT LIMITED TO:
- WALL, FIELD COLOR
- WALL, ACCENT COLOR
- CEILING CLOUDS, ACCENT COLOR
- SOFFITS, ACCENT COLOR
- DOOR AND WINDOW FRAMES, ACCENT COLOR
- EXPOSED COLUMNS, ACCENT COLOR
- EXPOSED DECKS, ACCENT COLOR
- EXPOSED JOISTS, ACCENT COLOR
- EXPOSED DUCTWORK, ACCENT COLOR

F. PROVIDE PAINT AT ALL NEW SOFFITS, REFER TO REFLECTIVE CEILING PLANS FOR ADDITIONAL LOCATIONS.

G. ALL EXPOSED BRICK, GROUND FACE BLOCK IS TO REMAIN UNPAINTED, UNO.

H. CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PAINTING OVER MURALS ON EXISTING SURFACES.

I. PROVIDE PAINT AND RUBBER BASE AT ALL NEW CHASES, REFER TO NEW WORK PLANS FOR ADDITIONAL LOCATIONS.

J. FOR ALL RENOVATED AREAS REQUIRING FINISH WORK REMOVE, PROTECT AND REINSTALL MOVABLE EQUIPMENT INCLUDING BUT NOT LIMITED TO: BOARD UNITS, LOCKERS GYM EQUIPMENT, SHADES/BLINDS, BOOKCASES ETC. REINSTALL IN ORIGINAL LOCATION, OR AS NOTED ON DRAWINGS, COORDINATE WITH OWNER. REFER TO SPEC SECTION O1 23 00 ALTERATION PROJECT PROCEDURES FOR MORE INFORMATION.

K. PROVIDE ALL FINISHES AS INDICATED BY ROOM FINISH BOX AND/OR AS NOTED ON DRAWINGS.

General Wood Casework Notes

FOR ALL CONTRACTOR RESPONSIBILITIES REFER TO SPECIFICATION SECTION 01 10 00/01 12 00.

A. THE CASEWORK SHOWN ON THE DRAWINGS IS BASED ON WOOD METAL WOOD CASEWORK. REFER TO THE PROJECT MANUAL, SECTION 12 32 13 FOR DETAILED SPECIFICATIONS.

B. ALL STANDARD CASEWORK DIMENSIONS TO BE MODIFIED TO CORRESPOND WITH THE DIMENSIONS NOTED ON THE DRAWINGS. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CABINETS

C. MODEL NUMBERS LISTED ON DRAWINGS APPLY TO ELEVATIONS SHOWN. PROVIDE OPPOSITE HAND MODELS WHERE SHOWN.

D. PROVIDE FULL DEPTH SHELVES AT BASE, WALL AND TALL CABINETS, UNLESS NOTED OTHERWISE.

E. BASE AND TALL CABINETS ARE 24 INCHES DEEP. U.N.O. WALL CABINETS ARE 14 INCHES DEEP, UNO BASE CABINET DEPTH DOES NOT INCLUDE 1" COUNTERTOP OVERHANG, TYP.

F. PROVIDE FINISHED ENDS, BACK EXTENSIONS, SCRIBES AND FINISHED FILLER PANELS ON ALL CABINETS. FILLER PANELS ARE NOT TO EXCEED 3" WIDE, UNLESS NOTED OTHERWISE. PROVIDE TOP AND BOTTOM FILLER PANELS AT ALL BASE & WALL UNITS. SUBMIT SHOP DRAWINGS SHOWING DETAILS OF THESE CONDITIONS.

G. ALL COUNTERTOPS TO BE SOLID SURFACE UNLESS NOTED OTHERWISE, TYP.

H. RADIUS COUNTERTOPS AT COUNTERTOPS ENDS MEETING TALL SHELVING UNITS WITH A DEPTH LESS THAN COUNTERTOP DEPTH. RADIUS TO BE 1-1/2" UNLESS NOTED OTHERWISE. REFER TO DETAIL 6/AA940.

I. PROVIDE CUTS AT ALL CONDITIONS THAT INTERFERE WITH COUNTERTOPS/CABINETS: SCRIBE TO FIT.

J. PROVIDE AT ALL UV SHELVING LOCATIONS-REMOVABLE BACKS IN CABINETS AT PLUMBING AND FIN TUBE VALVE LOCATIONS. VERIFY POSITIONS OF VALVES PRIOR TO SHOP FABRICATION OF ALL CABINETS.

K. PROVIDE SHOP DRAWINGS SHOWING LOCATIONS AND DETAILS FOR ALL GRILLES, LOUVERS, REMOVABLE PANELS, VALVE LOCATIONS ECT. ASSOCIATED WITH CASEWORK COORDINATE WITH ALL REQUIRED CONTRACTORS.

L. PROVIDE CABINETS WITH FINISHED SIDES, INCLUDING BUT NOT LIMITED TO, LOCATIONS OF ADJACENT CABINETS OR EQUIPMENT WITH A DEPTH LESS THAN CABINET OR EQUIPMENT.

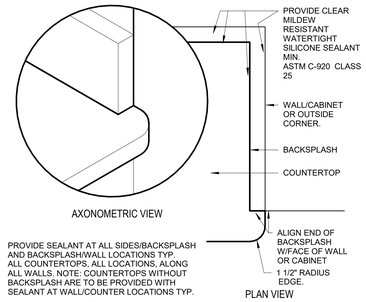
M. PROVIDE ALL STANDARD FEATURES OF CASEWORK UNITS AS INDICATED BY MODEL NUMBER OR AS SHOWN ON PLANS, DETAILS AND ELEVATIONS, INCLUDED BUT NOT LIMITED TO: OUTLETS, SWITCHES, LIGHTS ETC.

N. PROVIDE BLOCKING AT NEW AND EXISTING GYPSUM BOARD WALLS PER MANUFACTURER RECOMMENDATIONS FOR SUPPORT OF WALL /TALL MOUNTED UNITS. REFER TO SPECIFICATION SECTION 06 10 00 FOR WOOD BLOCKING RESPONSIBILITIES.

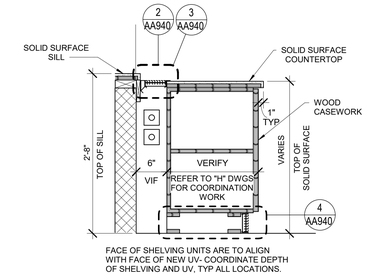
O. PROVIDE LOCKS AT ALL CASEWORK DOORS/DRAWERS AND FILE UNITS TYP.

P. PROVIDE ALL CUTOUTS AS SHOWN ON CASEWORK PLANS AND ELEVATIONS OR AS REQUIRED. CUTOUTS ARE TO INCLUDE BUT NOT LIMITED TO: ALL ELEC BOXES, OUTLETS, AND ASSOCIATED WIRING AND FINAL HOOK-UP.

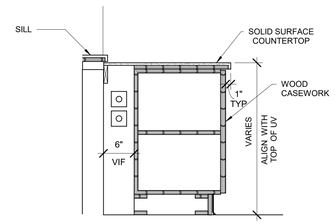
Q. REFER TO BOTH 1/8" AND 1/4" PLANS FOR LAYOUTS.



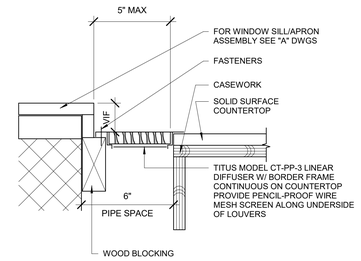
6 Solid Surface Countertop Edge
3" = 1'-0"



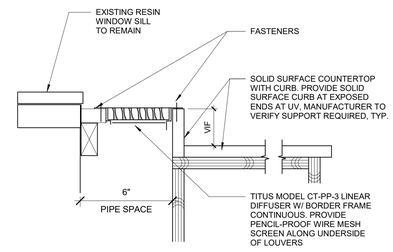
1 Typical Casework Section at UV Wall
1" = 1'-0"



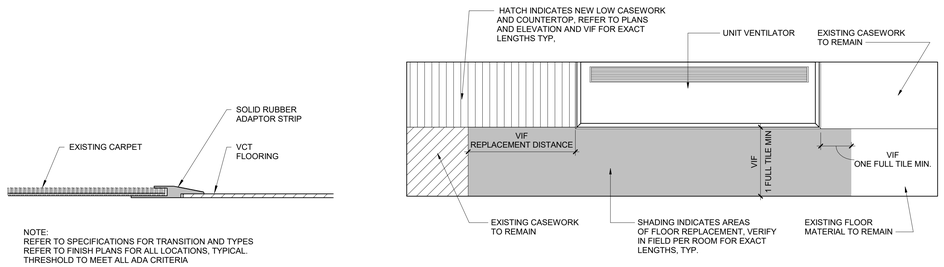
7 Typical Casework Section at Library
1" = 1'-0"



2 Top Louver Detail
3" = 1'-0"



3 Top Louver with Curb Detail
3" = 1'-0"



8 TYP Floor Patch at UV Replacement Detail
3" = 1'-0"

OPP. HAND IN SOME ROOMS, REFER TO PLANS

NOTE:
REFER TO SPECIFICATIONS FOR TRANSITION AND TYPES
REFER TO FINISH PLANS FOR ALL LOCATIONS, TYPICAL.
THRESHOLD TO MEET ALL ADA CRITERIA

10 Threshold Detail
6" = 1'-0"

1. FOR 4" THICK WALLS

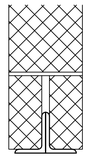
MASONRY OPENING	LINTEL ANGLE
UP TO 6'-4"	MT 6X5.9

2. FOR 6" THICK WALLS

MASONRY OPENING (±)	LINTEL ANGLE
5'-0"	2- L2 1/2X2 1/2X5/16
6'-0"	2- L3X2 1/2X5/16 LLV
7'-0"	2- L3 1/2X2 1/2X5/16 LLV
8'-0"	2- L3 1/2X2 1/2X5/16 LLV

3. FOR 8", 12", AND 16" THICK WALLS:
FOR EACH 4" THICKNESS OF WALL

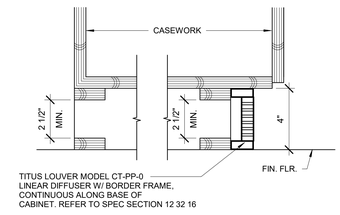
MASONRY OPENING (±)	LINTEL ANGLE
5'-0"	L3 1/2X3 1/2X5/16
6'-0"	L4X3 1/2X 5/16 LLV
7'-0"	L5X3 1/2X5/16 LLV
8'-0"	L5X3 1/2X5/16 LLV
9'-0"	L6X3 1/2X5/16 LLV
10'-0"	L6X3 1/2X5/16 LLV



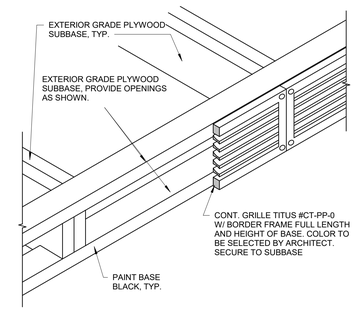
LINTEL NOTES

1. ALL OPENINGS 1'-0" AND OVER REQUIRE LINTELS.
2. STEEL TO BE A36.
3. THIS SCHEDULE IS TYPICAL FOR ALL MASONRY OPENINGS IN NON-LOAD BEARING WALLS UNLESS OTHERWISE NOTED.
4. ALL LINTELS TO HAVE MINIMUM 8" BEARING BOTH ENDS.
5. BACK TO BACK ANGLES ARE TO BE STITCH WELDED TOGETHER BEFORE PLACEMENT.
6. ALL LINTELS ARE TO HAVE BOTH ENDS BEAR ON SOLID MASONRY OR SOLIDLY GROUTED HOLLOW MASONRY.
7. WHERE MINIMUM 8" BEARING LENGTH CANNOT BE PROVIDED DUE TO COLUMN INTERFERENCE, PROVIDE CONNECTION OF LINTEL TO COLUMN.
8. THIS LINTEL SCHEDULE IS APPLICABLE FOR USE IN EXISTING BUILDING. SHORE EXISTING STRUCTURE AND WALL AS REQD FOR INSTALLATION OF NEW MAS AND LINTEL. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.

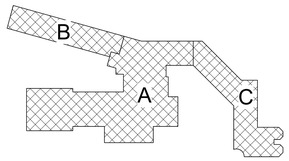
9 Lintel Schedule
12" = 1'-0"



4 Continuous Grill Base Section
3" = 1'-0"



5 Contiuous Grille Base Detail
3" = 1'-0"



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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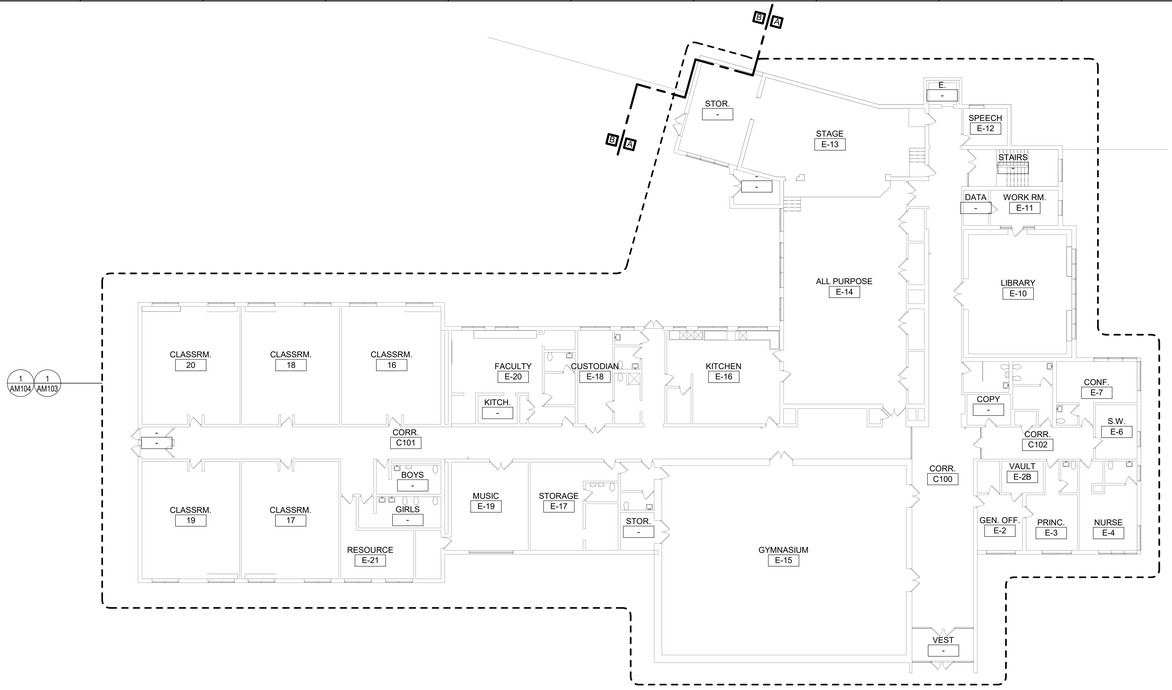
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

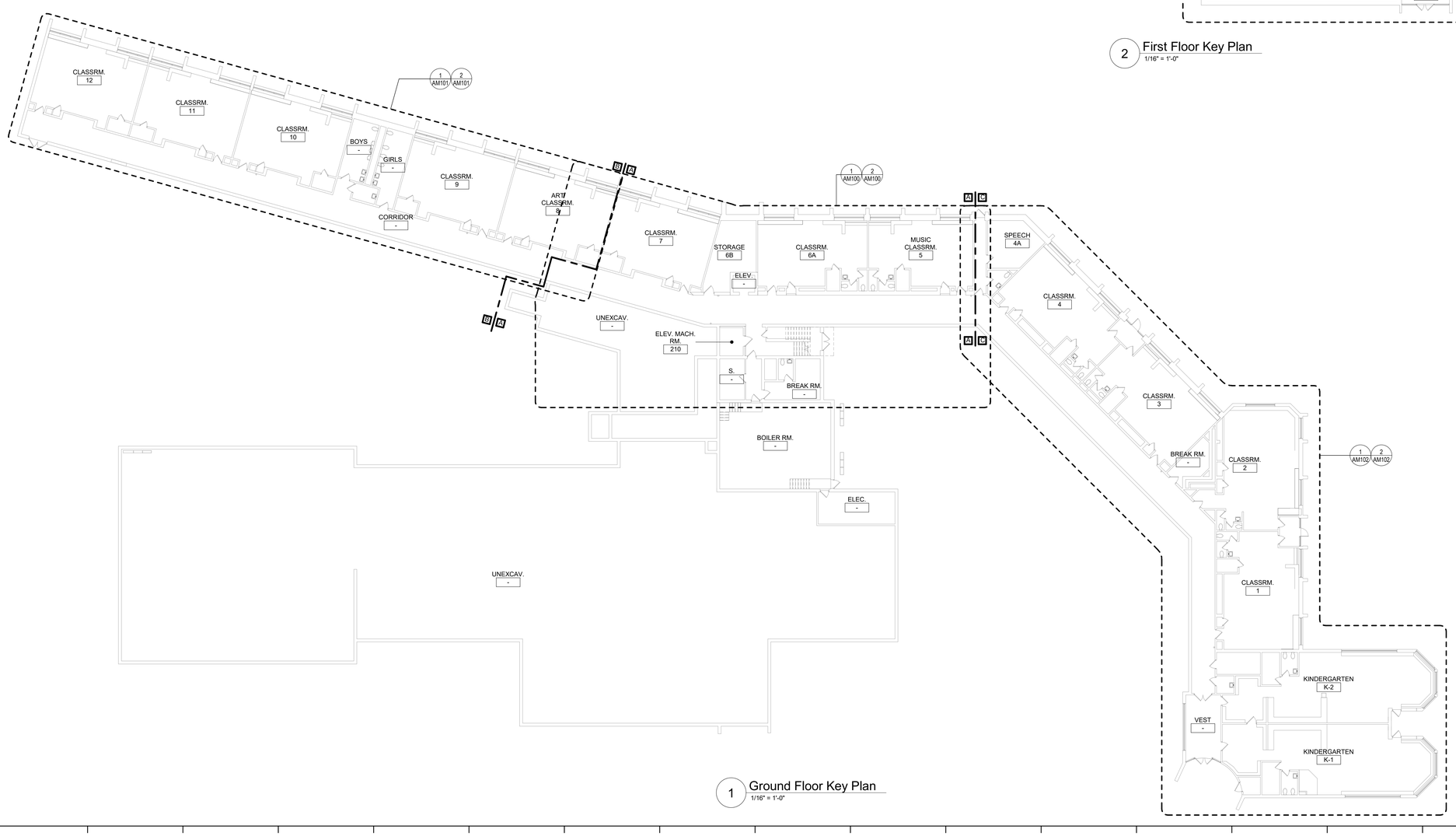
Reconstruction to:
JV Forrestal Elementary School

Details

Drawn By:	Date:	Drawing Number:
MHH	10/28/2022	AA940
Project No.: 279180-22004		



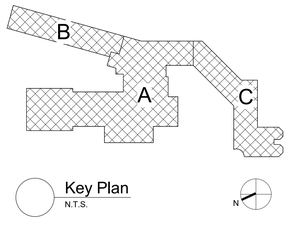
2 First Floor Key Plan
1/16" = 1'-0"



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

General Notes

A. THE FOLLOWING GENERAL NOTES APPLY TO ALL "AM" SERIES DRAWINGS.
B. REFER TO ALL CONTRACT DOCUMENTS; DRAWINGS AND SPECIFICATIONS, FOR DETAILED STANDARDS AND REQUIREMENTS.
C. REPORT UNSAFE OR UNSATISFACTORY CONDITIONS IN WRITING TO ARCHITECT AND RESOLVE ISSUES BEFORE PROCEEDING.
D. WORK INCLUDES ALL LABOR AND MATERIALS REQUIRED TO PROVIDE COMPLETE WORKING SYSTEMS.
E. COORDINATE PHASING REQUIREMENTS AT JOB MEETINGS AND ON WORK SCHEDULES.
F. DO NOT SCALE DRAWINGS. PIPING AND DUCTWORK ARE SHOWN DIAGRAMMATICALLY. IT IS NOT POSSIBLE TO SHOW EVERY TRANSITION, FITTING, ASPECT RATIO CHANGE, ETC.; PROVIDE AS REQUIRED TO FIT WITHIN STRUCTURAL CONSTRAINTS. EXAMINE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND VERIFY ALL ACCESS, LOCATIONS, DIMENSIONS, ARRANGEMENTS, ELECTRICAL CHARACTERISTICS AND INTERFERENCE IN THE FIELD PRIOR TO BID.
G. VERIFY EXTENT OF CEILING WORK SHOWN ELSEWHERE IN THE CONTRACT DOCUMENTS. PROVIDE FOR ADDITIONAL CEILING SYSTEM REMOVAL, PROTECTION, AND REINSTALLATION AS REQUIRED FOR CONTRACT WORK.
H. DEMOLITION DRAWINGS SHOW THE GENERAL SCOPE OF ITEMS AND SYSTEMS TO BE REMOVED. IT IS NOT THE INTENT TO SHOW ALL ITEMS TO BE REMOVED. FIELD VERIFY AND REMOVE ALL ASSOCIATED ITEMS BACK TO POINT OF CONTINUED SERVICE, UNLESS OTHERWISE NOTED. VERIFY WHAT ALL EQUIPMENT SERVES PRIOR TO REMOVAL.
I. GIVE ALL REMOVED EQUIPMENT TO THE OWNER. DELIVER ON SITE WHERE DESIGNATED BY THE OWNER. PROMPTLY REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ANY SUCH ITEMS DECLINED BY OWNER.
J. IF UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL CONFLICTS ARE ENCOUNTERED, INVESTIGATE AND REPORT BOTH NATURE AND EXTENT OF THE CONFLICT. RE-ROUTE WORK AS REQUIRED.
K. CUT, DRILL, OR OTHERWISE CREATE OPENINGS AS NEATLY AS POSSIBLE, AS REQUIRED FOR THE INDICATED CONTRACT WORK. PROVIDE SUPPORT AS REQUIRED FOR AND USE METHODS LEAST LIKELY TO DAMAGE ELEMENTS TO REMAIN. PRIOR TO WORK, VERIFY LOCATIONS OF ALL STRUCTURAL MEMBERS INCLUDING CROSS BRACING, ELECTRICAL WIRING, PLUMBING, ETC. PROMPTLY NOTIFY ARCHITECT OF ANY CONFLICTS. DO NOT CUT ANY STRUCTURAL MEMBERS OR OTHER SERVICES UNTIL SPECIFICALLY DIRECTED TO DO SO. PENDING RECEIPT OF DIRECTIVE, REARRANGE SCHEDULE AS NECESSARY TO CONTINUE OVERALL JOB PROGRESS WITHOUT DELAY.
L. PATCH ALL DISTURBANCES RESULTING FROM DEMOLITION OR NEW WORK TO MATCH SURROUNDING SURFACES. PATCH FOLLOWING DEMOLITION, AND AGAIN FOLLOWING WORK, WHERE HOLES REMAIN FROM REMOVALS, INFILL AND PATCH TO MATCH UNLESS HOLE IS TO BE REUSED.
M. PROTECT ALL CONTRACT EQUIPMENT, ELEMENTS TO REMAIN, OWNER'S BELONGINGS, AND EQUIPMENT TO BE REUSED OR RETAINED BY OWNER DURING ALL CONTRACT WORK. AT NO ADDITIONAL COST TO OWNER, REPAIR OR REPLACE ITEMS WHICH ARE DAMAGED.
N. THOROUGHLY CLEAN FOLLOWING DEMOLITION AND BEFORE BEGINNING CONTRACT INSTALLATIONS. THOROUGHLY CLEAN AGAIN DURING AND FOLLOWING CONTRACT WORK AS REQUIRED. LEAVE ALL WORK AREAS CLEANER THAN FOUND. LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS.
O. PROVIDE TEMPORARY PIPING, DUCT, HEAT, WEATHERPROOFING, ETC. TO SERVICES TO REMAIN UNTIL PERMANENT INSTALLATIONS CAN BE MADE.
P. ALL EXCESS MATERIALS AND SCRAPS ARE CONTRACTOR'S PROPERTY. PROMPTLY REMOVE FROM SITE UNLESS SPECIFICALLY DIRECTED OTHERWISE.
Q. EXISTING HVAC COMPONENTS IN THIS BUILDING MAY CONTAIN, BE IN PROXIMITY TO, OR, WORK ON THEM MAY CAUSE DISTURBANCE OF, ASBESTOS CONTAINING OR OTHER HAZARDOUS MATERIALS. REFER TO ABATEMENT SERIES DRAWINGS AND SPECIFICATIONS COMPLETE FOR ADDITIONAL INFORMATION.
R. SEAL ALL FLOOR, WALL AND CEILING PENETRATIONS PER FIRE-RESISTANCE RATINGS NOTED ON AG-SERIES DRAWINGS, BUT NOT LESS THAN 1-HOUR, AND IN ACCORDANCE WITH SECTION 07 84 13 - PENETRATION FIRESTOPPING. THIS INCLUDES ALL NEW PENETRATIONS AND EXISTING UNFIRESTOPPED PENETRATIONS CREATED BY REMOVALS, AS REQUIRED TO PERFORM THE WORK.



Key Plan
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S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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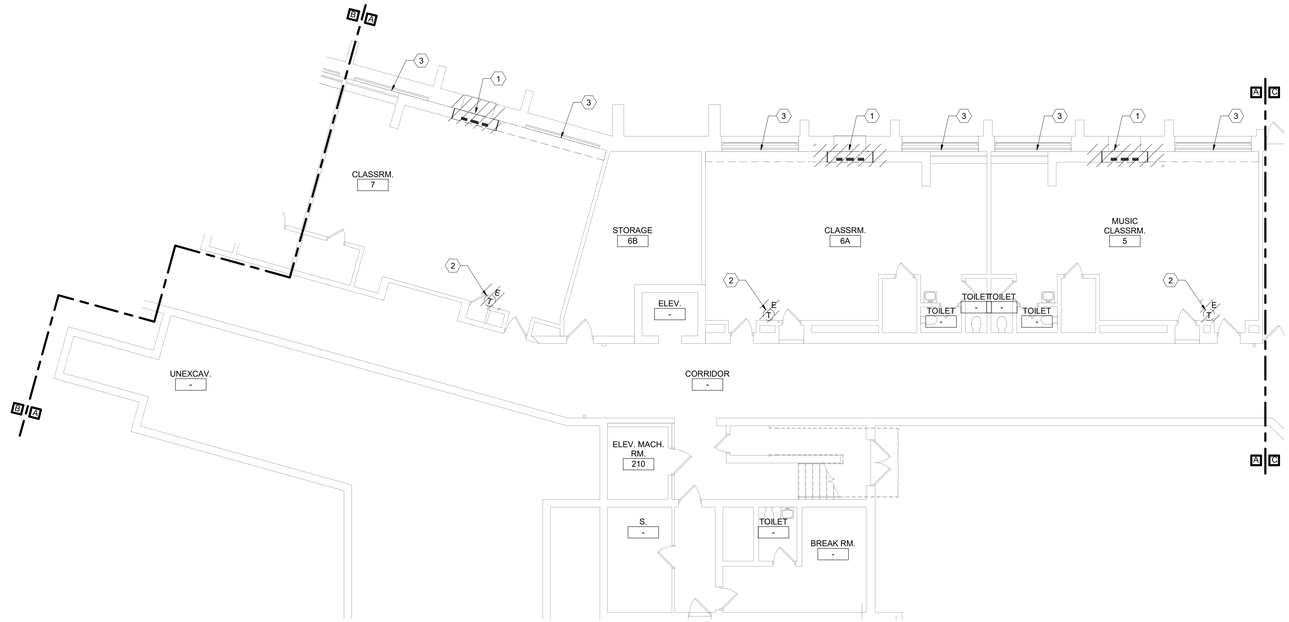
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

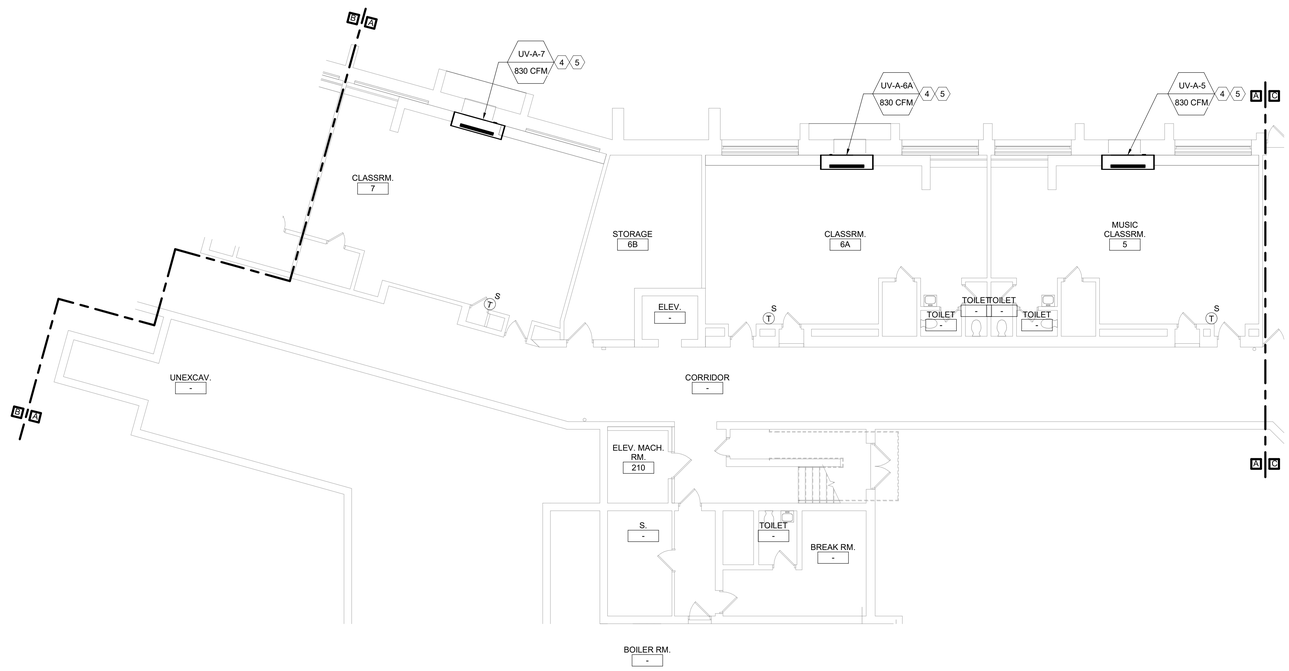
Reconstruction to:
JV Forrestal Elementary School

Key Plans

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	AM050
Project No.: 279180-22004		



1 Ground Floor Demolition Plan - Area A
1/8" = 1'-0"



2 Ground Floor Plan - Area A
1/8" = 1'-0"

General Notes

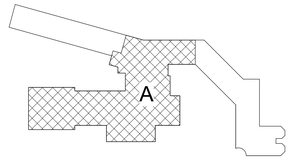
A. REFER TO AM050 FOR GENERAL NOTES.

KEYED DEMOLITION NOTES:

1. REMOVE UNIT VENTILATOR, LOUVER, OUTDOOR AIR INTAKE SLEEVE AND ALL ASSOCIATED ACCESSORIES COMPLETE. REMOVE LPS/LPC PIPING AS REQUIRED FOR UV REMOVAL.
2. REMOVE THERMOSTAT AND ASSOCIATED ACCESSORIES.
3. FINNED TUBE RADIATION TO REMAIN.

KEYED NOTES:

4. EXTEND LPS/LPC PIPING AS REQUIRED TO MAKE CONNECTION AND PIPE PER DETAIL.
5. PROVIDE OUTDOOR AIR LOUVER SIZED TO MATCH EXISTING OPENING. PROVIDE OA INTAKE SLEEVE AND SECURE TO LOUVER PER DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER INSTALLATION.



Key Plan
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S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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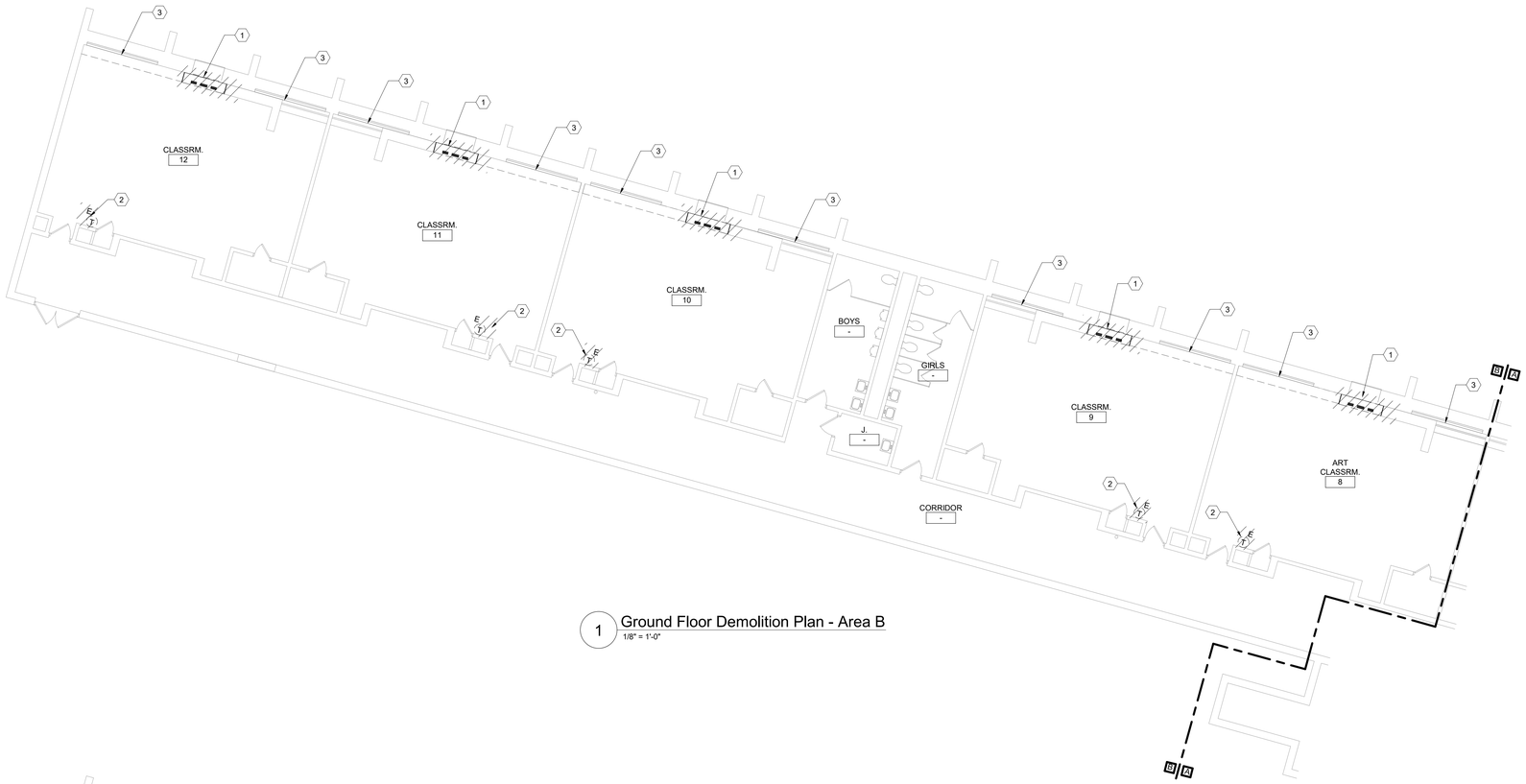
Beacon City School District
Beacon, New York

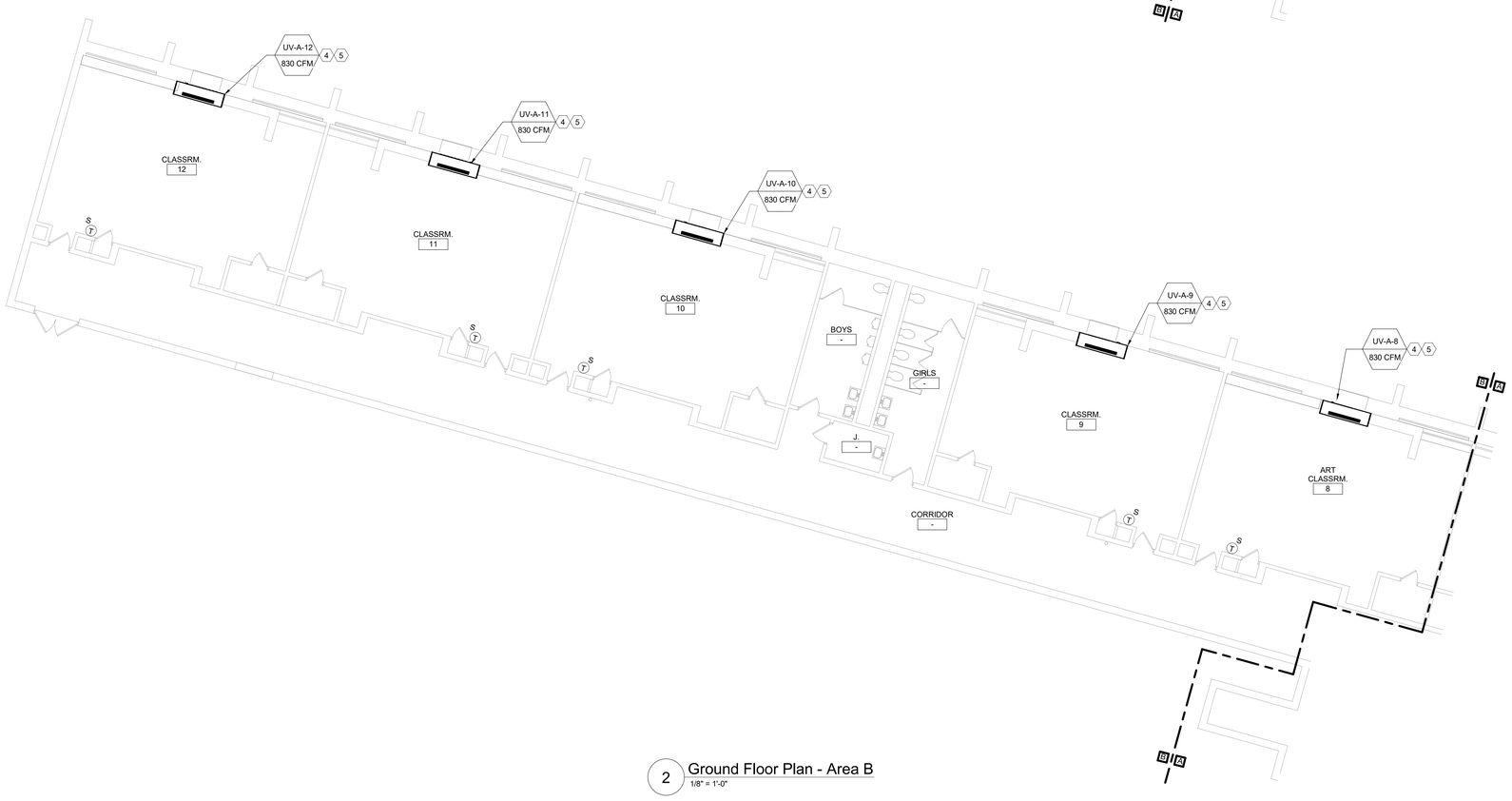
Reconstruction to:
JV Forrestal Elementary School

Ground Floor Plans - Area A

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	AM100
Project No.: 279180-22004		



1 Ground Floor Demolition Plan - Area B
1/8" = 1'-0"



2 Ground Floor Plan - Area B
1/8" = 1'-0"

General Notes

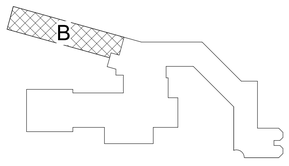
A. REFER TO AM050 FOR GENERAL NOTES.

KEYED DEMOLITION NOTES:

1. REMOVE UNIT VENTILATOR, LOUVER, OUTDOOR AIR INTAKE SLEEVE AND ALL ASSOCIATED ACCESSORIES COMPLETE. REMOVE LPS/LPC PIPING AS REQUIRED FOR UV REMOVAL.
2. REMOVE THERMOSTAT AND ASSOCIATED ACCESSORIES.
3. FINNED TUBE RADIATION TO REMAIN.

KEYED NOTES:

4. EXTEND LPS/LPC PIPING AS REQUIRED TO MAKE CONNECTION AND PIPE PER DETAIL.
5. PROVIDE OUTDOOR AIR LOUVER SIZED TO MATCH EXISTING OPENING. PROVIDE OA INTAKE SLEEVE AND SECURE TO LOUVER PER DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER INSTALLATION.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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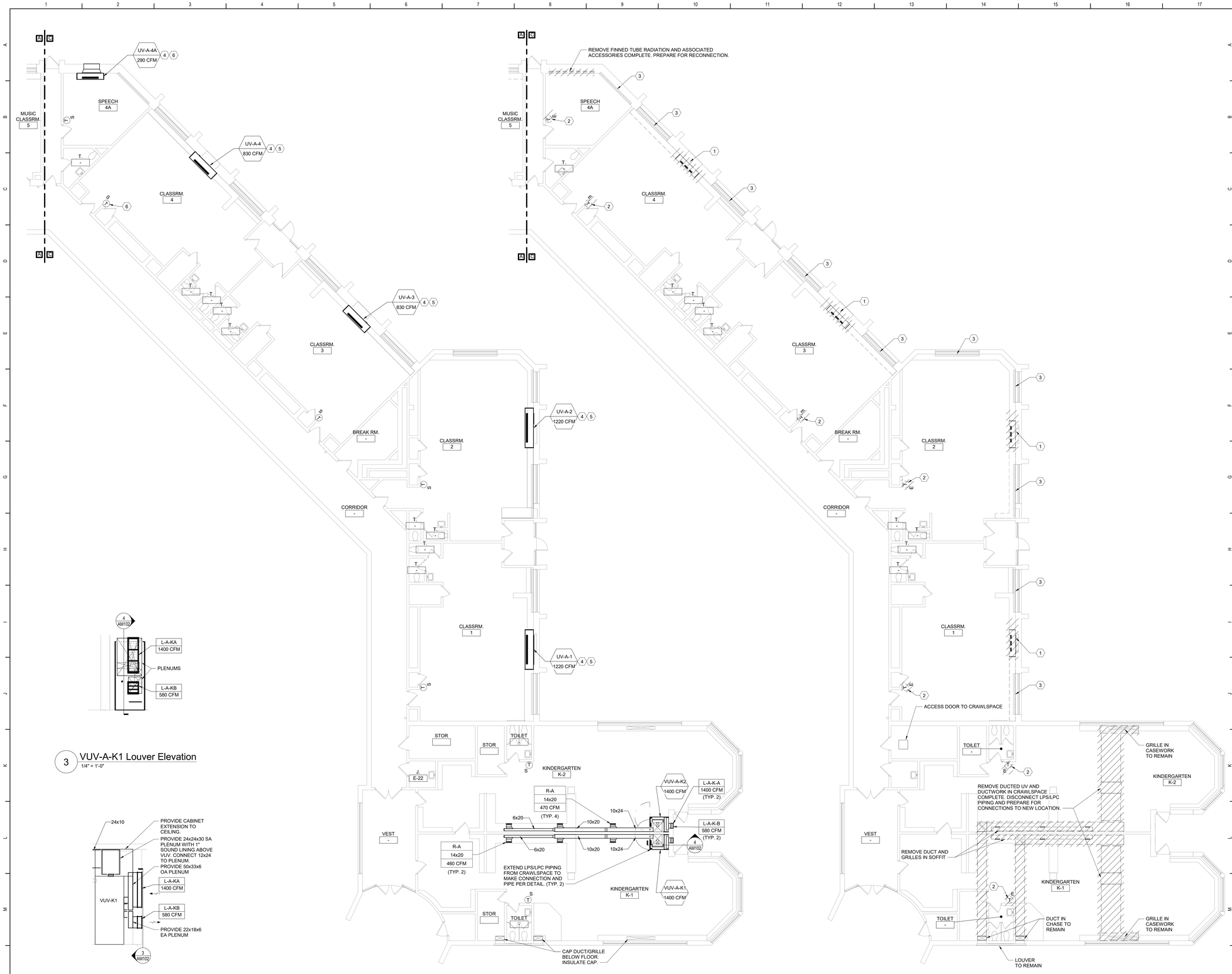
Beacon City School District
Beacon, New York

Reconstruction to:
JV Forrestal Elementary School

Ground Floor Plans - Area B

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	AM101
Project No.: 279180-22004		



3 VUV-A-K1 Louver Elevation
1/4" = 1'-0"

4 VUV-K1 Section
1/4" = 1'-0"

2 Ground Floor Plan - Area C
1/8" = 1'-0"

1 Ground Floor Demolition Plan - Area C
1/8" = 1'-0"

General Notes

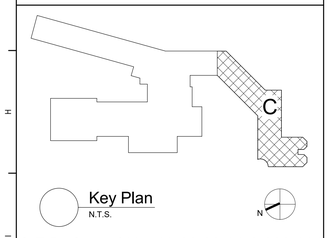
A. REFER TO AM050 FOR GENERAL NOTES.

KEYED DEMOLITION NOTES:

1. REMOVE UNIT VENTILATOR, LOUVER, OUTDOOR AIR INTAKE SLEEVE AND ALL ASSOCIATED ACCESSORIES COMPLETE. REMOVE LPS/LPC PIPING AS REQUIRED FOR UV REMOVAL.
2. REMOVE THERMOSTAT AND ASSOCIATED ACCESSORIES.
3. FINNED TUBE RADIATION TO REMAIN.

KEYED NOTES:

4. EXTEND LPS/LPC PIPING AS REQUIRED TO MAKE CONNECTION AND PIPE PER DETAIL.
5. PROVIDE LOUVER SIZED TO MATCH EXISTING OPENING. PROVIDE OA INTAKE SLEEVE AND SECURE TO LOUVER PER DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER INSTALLATION.
6. PROVIDE LOUVER AND OA INTAKE SLEEVE AND SECURE PER DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENING AND LOUVER INSTALLATION.



Key Plan
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S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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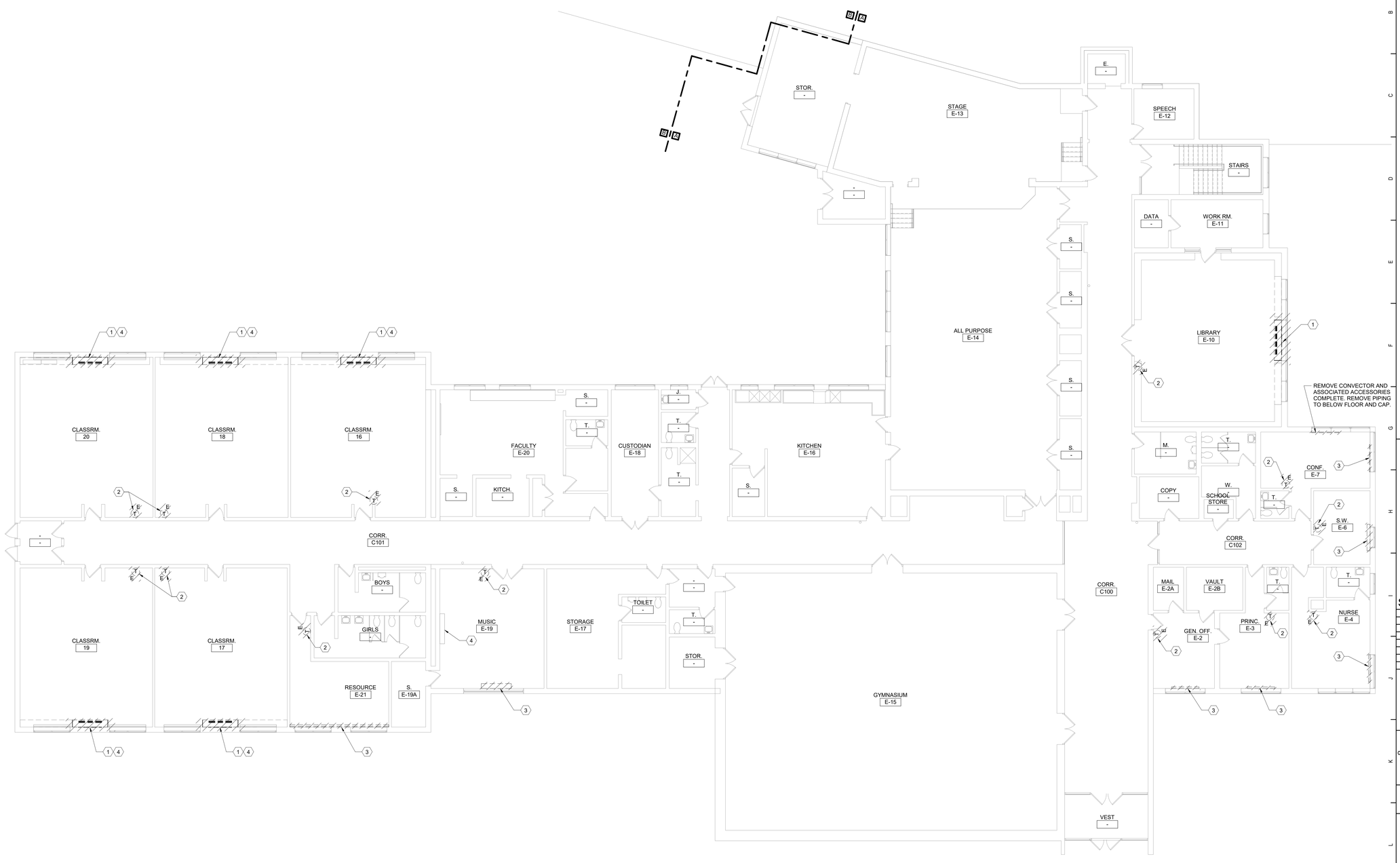
Beacon City School District
Beacon, New York

Reconstruction to:
JV Forrestal Elementary School

Ground Floor Plans - Area C

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	AM102
Project No.: 279180-22004		



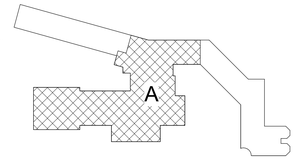
1 First Floor Demolition Plan - Area A
1/8" = 1'-0"

General Notes

A. REFER TO AM050 FOR GENERAL NOTES.

KEYED DEMOLITION NOTES:

1. REMOVE UNIT VENTILATOR, LOUVER, OUTDOOR AIR INTAKE SLEEVE AND ALL ASSOCIATED ACCESSORIES COMPLETE. REMOVE LPS/LPC PIPING AS REQUIRED FOR UV REMOVAL.
2. REMOVE THERMOSTAT AND ASSOCIATED ACCESSORIES.
3. REMOVE FINNED TUBE RADIATION OR CONVECTOR AND ASSOCIATED ACCESSORIES COMPLETE. PREPARE FOR RECONNECTION.
4. FINNED TUBE RADIATION OR CONVECTOR TO REMAIN.



Key Plan
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S.E.D. Control No. 13-02-00-01-0-002-021

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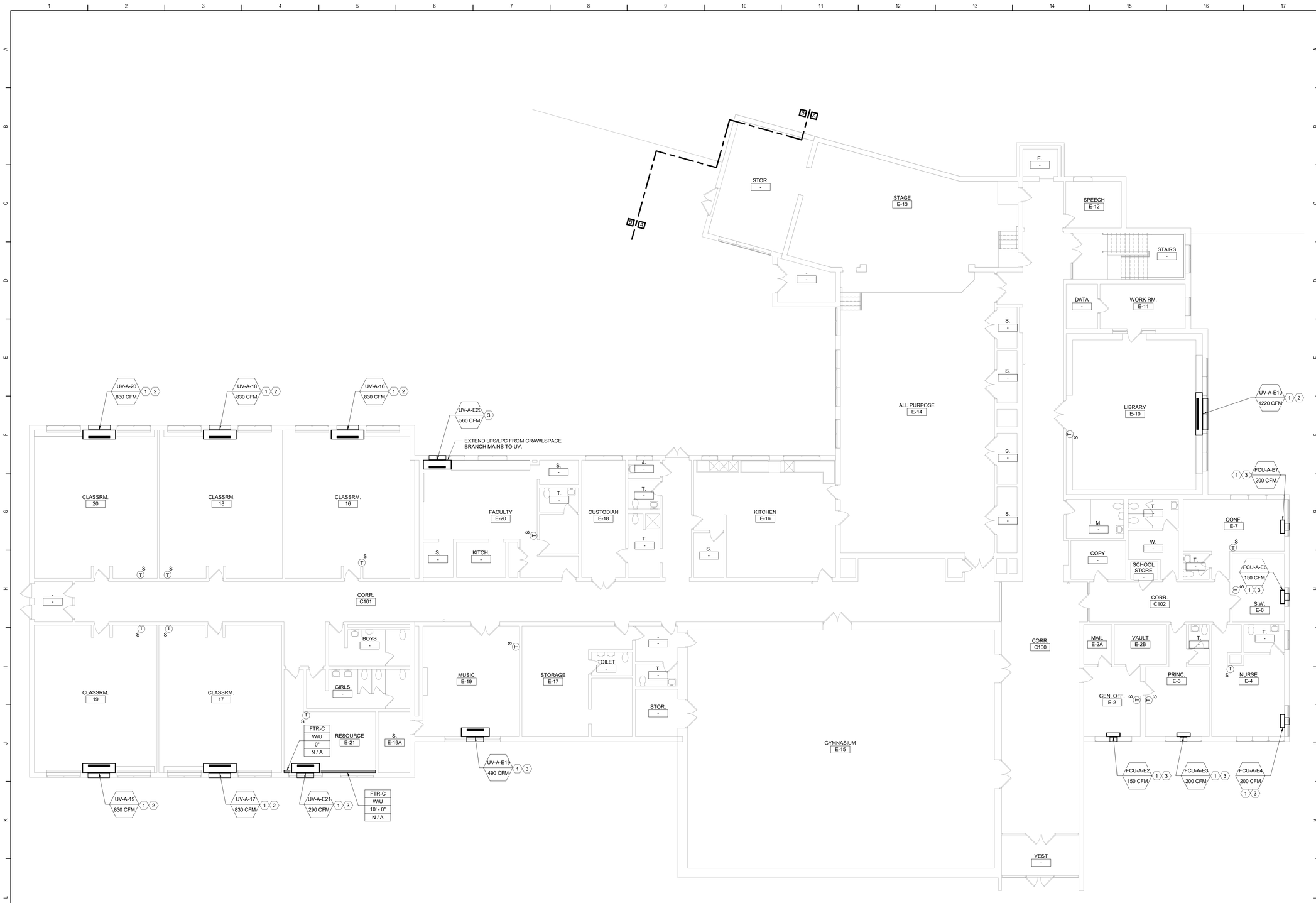
Beacon City School District
Beacon, New York

Reconstruction to:
JV Forrestal Elementary School

First Floor Demolition Plan - Area A

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	AM103
Project No.: 279180-22004		



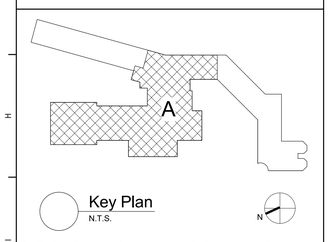
1 First Floor Plan - Area A
1/8" = 1'-0"

General Notes

A. REFER TO AM050 FOR GENERAL NOTES.

KEYED NOTES:

1. EXTEND LPS/LPC PIPING AS REQUIRED TO MAKE CONNECTION AND PIPE PER DETAIL.
2. PROVIDE LOUVER SIZED TO MATCH EXISTING OPENING. PROVIDE OA INTAKE SLEEVE AND SECURE TO LOUVER PER DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER INSTALLATION.
3. PROVIDE LOUVER AND OA INTAKE SLEEVE AND SECURE PER DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENING AND LOUVER INSTALLATION..



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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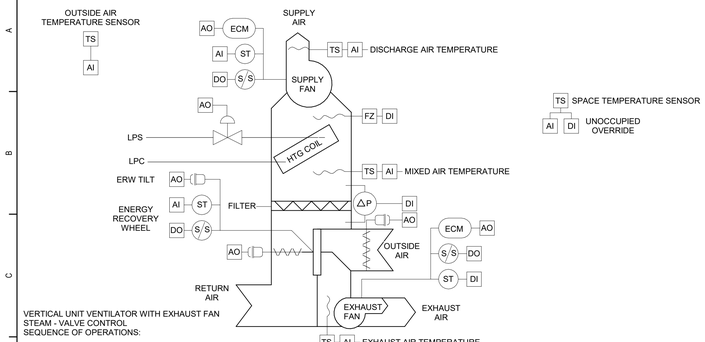
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
JV Forrestal Elementary School

First Floor Plan - Area A

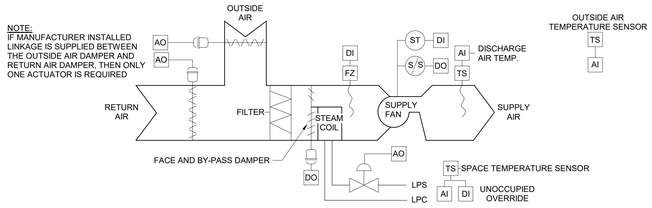
Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	AM104
Project No.: 279180-22004		



VERTICAL UNIT VENTILATOR WITH EXHAUST FAN
STEAM - VALVE CONTROL
SEQUENCE OF OPERATIONS:

1. OCCUPIED MODE:
   a. RUN SUPPLY FAN CONTINUOUSLY AT SPEED DETERMINED BY TAB. RUN EXHAUST FAN CONTINUOUSLY AT MINIMUM SPEED DETERMINED BY TAB FOR MINIMUM RELIEF AIRFLOW. RUN THE ENERGY RECOVERY WHEEL EXCEPT WHEN THE UNIT IS IN ECONOMIZER COOLING MODE AS DESCRIBED BELOW.
   b. THE OUTSIDE AIR DAMPER AND RETURN AIR DAMPER SHALL OPEN TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY INDICATED. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION EXCEPT IN CASE OF ALARM.
   c. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT, MODULATE THE HEATING CONTROL VALVE TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE) AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJUSTABLE).
   d. WHEN THE SPACE TEMPERATURE RISES 3 DEG. F (ADJUSTABLE) ABOVE THE SPACE HEATING SETPOINT, AND THE OUTSIDE AIR TEMPERATURE IS LOWER THAN THE SPACE TEMPERATURE, MODULATE THE OUTSIDE AIR DAMPER OPEN, MODULATE THE RETURN DAMPER CLOSED, TURN OFF AND TILT THE ENERGY RECOVERY WHEEL, AND MODULATE THE EXHAUST FAN AS REQUIRED TO MAINTAIN THE OCCUPIED HEATING SETPOINT, SUBJECT TO DISCHARGE LOW LIMIT OF 55 DEG. F (ADJUSTABLE), AND WITH THE HEATING VALVE FULLY CLOSED.
2. UNOCCUPIED MODE:
   a. THE SUPPLY FAN AND EXHAUST FAN SHALL BE OFF. THE ENERGY RECOVERY WHEEL SHALL BE OFF.
   b. OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE RETURN AIR DAMPER TO BE 100% OPEN.
   c. WHERE SPACE HAS FINNED TUBE RADIATION, RADIATION SHALL BE FIRST STAGE UNOCCUPIED HEATING.
   d. ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED SETPOINT, CYCLE THE SUPPLY FAN ON AND HEATING COIL CONTROL VALVE FULL OPEN AS REQUIRED TO MAINTAIN REDUCED SPACE TEMPERATURE. USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.
   e. A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.
3. WARM-UP MODE:
   a. THE UNIT SHALL START PER AN OPTIMUM START PROGRAM.
   b. THE OUTSIDE AIR DAMPER SHALL BE CLOSED AND THE RETURN AIR DAMPER SHALL BE FULLY OPEN.
   c. THE SUPPLY FAN SHALL RUN AND THE HEATING CONTROL VALVE SHALL MODULATE TO MAINTAIN OCCUPIED SPACE SETPOINT.
4. PURGE VENTILATION MODE:
   a. PROVIDE GLOBAL INITIATION OF PURGE VENTILATION MODE AT THE OPERATOR'S WORKSTATION SUCH THAT ONE INITIATION STARTS OR STOPS PURGE VENTILATION MODE FOR ALL EQUIPMENT SO PROGRAMMED. PROVIDE FOR GLOBAL ADJUSTMENT OF THE BELOW DESCRIBED SCHEDULING AND PERCENTAGE VENTILATION CHANGES, AND ALSO FOR LOCAL ADJUSTMENT AWAY FROM GLOBAL SETPOINTS. IF GLOBAL SETPOINTS ARE SUBSEQUENTLY RE-ADJUSTED, PROVIDE WARNING WITH A LIST OF UNITS WITH LOCAL OVERRIDES, BUT DO NOT RE-ADJUST LOCAL OVER-RIDE SETPOINTS GLOBALLY.
   b. PROVIDE A PURGE VENTILATION MODE WITH INCREASED VENTILATION AS POSSIBLE WITHIN THE LIMITS OF THE EQUIPMENT. OPERATE WITH ALL THREE MODES DESCRIBED ABOVE WITH THE FOLLOWING MODIFICATIONS TO THE OCCUPIED PERIOD.
   c. START OCCUPIED VENTILATION MODE 1 HOUR (ADJ) EARLIER AND END IT 4 HOURS (ADJ) LATER.
   d. INCREASE VENTILATION AS POSSIBLE BY 100% (ADJ) WHERE 0% INCREASE IS THE MINIMUM VENTILATION DESCRIBED ABOVE AND 100% IS 100% OUTSIDE AIR WITH NO RETURN AIR.
   e. MAINTAIN OCCUPIED SPACE TEMPERATURE AND INCREASED VENTILATION AS POSSIBLE WITHIN HEATING CAPACITY CONSTRAINTS OF LOCAL AND PLANT HEATING CAPACITY. IF SPACE TEMPERATURE DROPS MORE THAN 2 DEG. F (ADJ) BELOW SPACE HEATING SETPOINT WITH THE HEATING VALVE 100% OPEN, MODULATE VENTILATION RATE BACK TO MINIMUM SPECIFIED VENTILATION RATE DESCRIBED ABOVE WITH HEATING VALVE AT 100% OPEN.
5. SAFETIES:
   a. MONITOR THE STATUS OF THE SUPPLY AND EXHAUST FANS. PROVIDE AN ALARM IN CASE OF SUPPLY OR EXHAUST FAN FAILURE.
   b. DIFFERENTIAL PRESSURE ACROSS THE AIR FILTERS SHALL GENERATE AN ALARM WHENEVER THE DIFFERENTIAL PRESSURE EXCEEDS IT'S ADJUSTABLE SETPOINT.
   c. A SEPARATE LOW LIMIT FREEZE STAT WITH AUTOMATIC RESET SHALL BE INSTALLED WITH SENSING ELEMENT SERPENTINED ACROSS THE DISCHARGE FACE OF THE COIL. WHENEVER COIL FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJUSTABLE), CLOSE THE OUTSIDE AIR DAMPER 100%, OPEN HEATING CONTROL VALVE 100% AND AN ALARM SHALL BE ACTIVATED.

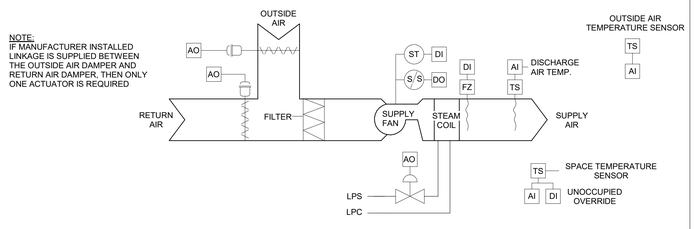
7 VUV w/Energy Recovery - Steam - Valve Control
NTS



UNIT VENTILATOR - STEAM - VALVE CONTROL WITH FACE AND BY-PASS - SEQUENCE OF OPERATIONS:

1. OCCUPIED MODE:
   a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL RUN CONTINUOUSLY.
   b. THE OUTSIDE AIR DAMPER SHALL OPEN TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY INDICATED. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION EXCEPT IN CASE OF ALARM.
   c. FACE AND BY-PASS DAMPER SHALL BE POSITIONED TO FULL FACE, DAMPER SHALL NEVER BE POSITIONED TO BY-PASS THE COIL EXCEPT IN CASE OF ALARM AS DESCRIBED BELOW.
   d. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT, THE 2-WAY CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE) AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJUSTABLE).
   e. WHEN THE SPACE TEMPERATURE RISES 3 DEG. F (ADJUSTABLE) ABOVE THE SPACE HEATING SETPOINT, AND THE OUTSIDE AIR TEMPERATURE IS LOWER THAN THE SPACE TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL OPEN TO MAINTAIN THE OCCUPIED SETPOINT. THIS SHALL BE DONE SUBJECT TO DISCHARGE LOW LIMIT OF 55 DEG. F (ADJUSTABLE), AND WITH THE HEATING VALVE FULLY CLOSED.
2. UNOCCUPIED MODE:
   a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL BE OFF.
   b. THE OUTSIDE AIR DAMPER AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED.
   c. FACE AND BY-PASS DAMPER SHALL BE POSITIONED TO FULL FACE, DAMPER SHALL NEVER BE POSITIONED TO BY-PASS THE COIL EXCEPT IN CASE OF ALARM AS DESCRIBED BELOW.
   d. WHERE SPACE HAS FINNED TUBE RADIATION, RADIATION SHALL PROVIDE FIRST STAGE UNOCCUPIED HEATING.
   e. ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED SETPOINT, CYCLE THE FAN ON AND COIL CONTROL VALVE FULL OPEN AS REQUIRED TO MAINTAIN REDUCED SPACE TEMPERATURE. USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.
   f. A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.
3. WARM-UP MODE:
   a. THE UNIT SHALL START PER AN OPTIMUM START PROGRAM.
   b. THE OUTSIDE AIR DAMPER AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED, FACE AND BY-PASS DAMPER SHALL BE POSITIONED TO FULL FACE EXCEPT IN CASE OF ALARM AS DESCRIBED BELOW, AND THE ASSOCIATED EXHAUST FAN SHALL BE OFF.
   c. THE SUPPLY FAN SHALL RUN AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN OCCUPIED SETPOINT.
4. PURGE VENTILATION MODE:
   a. PROVIDE GLOBAL INITIATION OF PURGE VENTILATION MODE AT THE OPERATOR'S WORKSTATION SUCH THAT ONE INITIATION STARTS OR STOPS PURGE VENTILATION MODE FOR ALL EQUIPMENT SO PROGRAMMED. PROVIDE FOR GLOBAL ADJUSTMENT OF THE BELOW DESCRIBED SCHEDULING AND PERCENTAGE VENTILATION CHANGES, AND ALSO FOR LOCAL ADJUSTMENT AWAY FROM GLOBAL SETPOINTS. IF GLOBAL SETPOINTS ARE SUBSEQUENTLY RE-ADJUSTED, PROVIDE WARNING WITH A LIST OF UNITS WITH LOCAL OVERRIDES, BUT DO NOT RE-ADJUST LOCAL OVER-RIDE SETPOINTS GLOBALLY.
   b. PROVIDE A PURGE VENTILATION MODE WITH INCREASED VENTILATION AS POSSIBLE WITHIN THE LIMITS OF THE EQUIPMENT. OPERATE WITH ALL THREE MODES DESCRIBED ABOVE WITH THE FOLLOWING MODIFICATIONS TO THE OCCUPIED PERIOD.
   c. START OCCUPIED VENTILATION MODE 1 HOUR (ADJ) EARLIER AND END IT 4 HOURS (ADJ) LATER.
   d. INCREASE VENTILATION AS POSSIBLE BY 100% (ADJ) WHERE 0% INCREASE IS THE MINIMUM VENTILATION DESCRIBED ABOVE AND 100% IS 100% OUTSIDE AIR WITH NO RETURN AIR.
   e. MAINTAIN OCCUPIED SPACE TEMPERATURE AND INCREASED VENTILATION AS POSSIBLE WITHIN HEATING CAPACITY CONSTRAINTS OF LOCAL AND PLANT HEATING CAPACITY. IF SPACE TEMPERATURE DROPS MORE THAN 2 DEG. F (ADJ) BELOW SPACE HEATING SETPOINT WITH THE HEATING VALVE 100% OPEN, MODULATE VENTILATION RATE BACK TO MINIMUM SPECIFIED VENTILATION RATE DESCRIBED ABOVE WITH HEATING VALVE AT 100% OPEN.
5. SAFETIES:
   a. A SEPARATE LOW LIMIT FREEZE STAT WITH AUTOMATIC RESET SHALL BE INSTALLED WITH SENSING ELEMENT SERPENTINED ACROSS THE FACE OF THE COIL; WHENEVER COIL FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJUSTABLE THE SUPPLY FAN SHALL STOP, THE OUTSIDE AIR DAMPER SHALL CLOSE 100%, CONTROL VALVE SHALL OPEN 100%, AND THE FACE AND BY-PASS DAMPER SHALL BE POSITIONED TO FULL BY-PASS OF THE COIL. AN ALARM SHALL ALSO BE ACTIVATED.
   b. UPON FAILURE OF THE FAN, AS SENSED BY THE CURRENT SENSING STATUS SWITCH, ACTIVATE AN ALARM.

5 UV - Steam Control
NTS



FAN COIL UNIT - STEAM - VALVE CONTROL - SEQUENCE OF OPERATIONS:

a. OCCUPIED MODE:
   a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL RUN CONTINUOUSLY.
   b. THE OUTSIDE AIR DAMPER SHALL OPEN TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY AS INDICATED. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION EXCEPT IN CASE OF ALARM.
   c. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SET POINT, THE 2-WAY CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE) AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJUSTABLE).
   d. WHEN THE SPACE TEMPERATURE RISES 3 DEG. F (ADJUSTABLE) ABOVE THE SPACE HEATING SETPOINT, AND THE OUTSIDE AIR TEMPERATURE IS LOWER THAN THE SPACE TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL OPEN TO MAINTAIN THE OCCUPIED SETPOINT. THIS SHALL BE DONE SUBJECT TO DISCHARGE LOW LIMIT OF 55 DEG. F (ADJUSTABLE), AND WITH THE HEATING VALVES FULLY CLOSED.

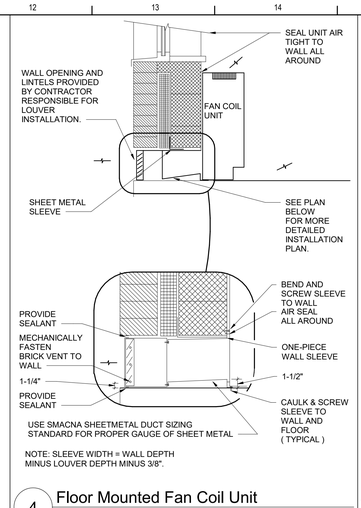
b. UNOCCUPIED MODE:
   a. THE SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL BE OFF.
   b. THE OUTSIDE AIR DAMPER AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED.
   c. WHERE SPACE HAS FINNED TUBE RADIATION, RADIATION SHALL PROVIDE FIRST STAGE UNOCCUPIED HEATING.
   d. ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED SETPOINT, CYCLE THE FAN AND COIL CONTROL VALVE FULL OPEN AS REQUIRED TO MAINTAIN REDUCED SPACE SETPOINT, SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE). USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.
   e. A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

c. WARM-UP MODE:
   a. THE UNIT SHALL START PER AN OPTIMUM START PROGRAM.
   b. THE OUTSIDE AIR DAMPER AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED AND THE ASSOCIATED EXHAUST FAN SHALL BE OFF.
   c. THE SUPPLY FAN SHALL RUN AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN OCCUPIED SETPOINT.

d. PURGE VENTILATION MODE:
   a. PROVIDE GLOBAL INITIATION OF PURGE VENTILATION MODE AT THE OPERATOR'S WORKSTATION SUCH THAT ONE INITIATION STARTS OR STOPS PURGE VENTILATION MODE FOR ALL EQUIPMENT SO PROGRAMMED. PROVIDE FOR GLOBAL ADJUSTMENT OF THE BELOW DESCRIBED SCHEDULING AND PERCENTAGE VENTILATION CHANGES, AND ALSO FOR LOCAL ADJUSTMENT AWAY FROM GLOBAL SETPOINTS. IF GLOBAL SETPOINTS ARE SUBSEQUENTLY RE-ADJUSTED, PROVIDE WARNING WITH A LIST OF UNITS WITH LOCAL OVERRIDES, BUT DO NOT RE-ADJUST LOCAL OVER-RIDE SETPOINTS GLOBALLY.
   b. PROVIDE A PURGE VENTILATION MODE WITH INCREASED VENTILATION AS POSSIBLE WITHIN THE LIMITS OF THE EQUIPMENT. OPERATE WITH ALL THREE MODES DESCRIBED ABOVE WITH THE FOLLOWING MODIFICATIONS TO THE OCCUPIED PERIOD.
   c. START OCCUPIED VENTILATION MODE 1 HOUR (ADJ) EARLIER AND END IT 4 HOURS (ADJ) LATER.
   d. INCREASE VENTILATION AS POSSIBLE BY 100% (ADJ) WHERE 0% INCREASE IS THE MINIMUM VENTILATION DESCRIBED ABOVE AND 100% IS 100% OUTSIDE AIR WITH NO RETURN AIR.
   e. MAINTAIN OCCUPIED SPACE TEMPERATURE AND INCREASED VENTILATION AS POSSIBLE WITHIN HEATING CAPACITY CONSTRAINTS OF LOCAL AND PLANT HEATING CAPACITY. IF SPACE TEMPERATURE DROPS MORE THAN 2 DEG. F (ADJ) BELOW SPACE HEATING SETPOINT WITH THE HEATING VALVE 100% OPEN, MODULATE VENTILATION RATE BACK TO MINIMUM SPECIFIED VENTILATION RATE DESCRIBED ABOVE WITH HEATING VALVE AT 100% OPEN.

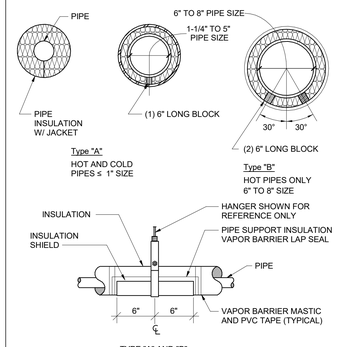
e. SAFETIES:
   a. A SEPARATE LOW LIMIT FREEZE STAT WITH AUTOMATIC RESET SHALL BE INSTALLED WITH SENSING ELEMENT SERPENTINED ACROSS THE FACE OF THE COIL, WHENEVER COIL FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJUSTABLE) THE SUPPLY FAN SHALL STOP, THE OUTSIDE AIR DAMPER SHALL CLOSE 100% AND THE CONTROL VALVE SHALL OPEN 100%. AN ALARM SHALL ALSO BE ACTIVATED.
   b. UPON FAILURE OF THE FAN, AS SENSED BY THE CURRENT SENSING STATUS SWITCH, ACTIVATE AN ALARM.

6 FCU - Steam Control
NTS

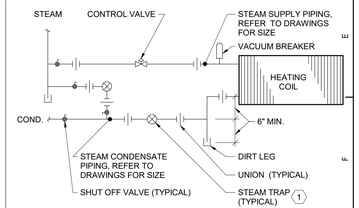


NOTE: SLEEVE WIDTH = WALL DEPTH
MINUS LOUVER DEPTH MINUS 3/8".

4 Floor Mounted Fan Coil Unit
NTS



1 Pipe Insulation
NTS

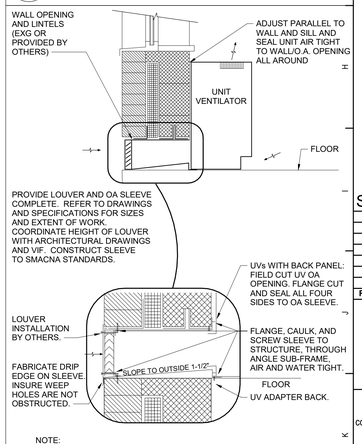


1 STEAM TRAP SIZED TO 3 TIMES COIL CAPACITY UNLESS OTHERWISE NOTED. FLOAT & THERMOSTATIC TYPE ABOVE 10 MBH, THERMOSTATIC TYPE UNDER 10 MBH.

NOTE:
GENERIC SYMBOL USED TO SHOW VALVE LOCATION(S).
REFER TO SPECIFICATIONS FOR EXACT VALVE TYPE.

(Valve Control)

2 Steam Coil Piping Schematic
NTS



NOTE:
COORDINATE INSTALLATION OF SLEEVE, LOUVER, AND UV WITH WALL.

3 Setting Detail - OA Intake and Floor Mounted UV
NTS

TEMPERATURE CONTROLS SYMBOLS LIST

AI	ANALOG IN
AO	ANALOG OUT
COM	COMMUNICATIONS PORT
CS	AIRBORNE CONTAMINANT SENSOR
DI	DIGITAL IN
	DAMPER MOTOR
DO	DIGITAL OUT
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
F	FLOW (WATER/AIR)
FM	FLOW METER
FS	AIR FLOW SENSOR
FZ	FREEZE STAT
H	HUMIDITY SENSOR
HL	HIGH LIMIT
KWH	KILOWATT HOUR METER
LL	LOW LIMIT
M/S	MANUAL SWITCH STOP / START
P	PRESSURE SENSOR
ΔP	DIFFERENTIAL PRESSURE
PS	POSITION SENSOR
S/S	STOP / START
SD	SMOKE DETECTOR
ST	STATUS
START	STARTER
T	ADJUSTABLE THERMOSTAT
TS	TEMPERATURE SENSOR
VFD	VARIABLE FREQUENCY DRIVE
WS	WATER SENSOR
%	PERCENT
ES	END SWITCH
BS	BOILER SWITCH

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
JV Forrestal Elementary School

Details and Controls

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	AM500
Project No.: 279180-22004		

UNIT VENTILATOR (UV) SCHEDULE

DWG LABEL	LOCATION	MODEL NO.	SA CFM	MIN. OA	HEATING DATA NO. ROW	EAT (°F)	LAT (°F)	CAP. (MBH)	ESP (IN. WG.)	RPM	ELECTRICAL MOTOR QTY	MOTOR SIZE (HP)	V/PH	FLA	MCA	MOP	NOTES
UV-A-1	CLASSROOM 1	VUVE150	1220	430	1	44.0	110.0	111.1	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1-7
UV-A-2	CLASSROOM 2	VUVE150	1220	490	1	44.0	110.0	111.1	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1-7
UV-A-3	CLASSROOM 3	VUVE100	830	410	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-4	CLASSROOM 4	VUVE100	830	410	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-4A	SPEECH 4A	VUVE075	290	130	1	40.8	110.0	55.2	0.00	670	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-5	MUSIC CLASSROOM 5	VUVE100	830	340	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-6A	CLASSROOM 6 A	VUVE100	830	370	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-7	CLASSROOM 7	VUVE100	830	400	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-8	ART CLASSROOM 8	VUVE100	830	390	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-9	CLASSROOM 9	VUVE100	830	390	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-10	CLASSROOM 10	VUVE100	830	390	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-11	CLASSROOM 11	VUVE100	830	390	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-12	CLASSROOM 12	VUVE100	830	390	1	38.5	110.0	75.4	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-16	CLASSROOM 16	VUVE100	830	380	1	38.5	110.0	75.4	0.00	1105	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-17	CLASSROOM 17	VUVE100	830	380	1	38.5	110.0	75.4	0.00	1105	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-18	CLASSROOM 18	VUVE100	830	380	1	38.5	110.0	75.4	0.00	1105	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-19	CLASSROOM 19	VUVE100	830	380	1	38.5	110.0	75.4	0.00	1105	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-20	CLASSROOM 20	VUVE100	830	380	1	38.5	110.0	75.4	0.00	1105	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-E10	LIBRARY E-10	VUVE150	1220	490	1	44.0	110.0	111.1	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1-7
UV-A-E19	MUSIC E-19	VUVE075	490	220	1	40.4	110.0	55.1	0.00	730	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-E20	FACULTY E-20	VUVE075	560	260	1	40.6	110.0	55.1	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-7
UV-A-E21	RESOURCE E-21	VUVE075	290	130	1	40.8	110.0	55.2	0.00	670	1	0.25	120V/1ø	3.5	4.5	15	1-7

NOTES:
1. DESIGN BASIS: TRANE
2. FLOOR MOUNTED UNIT
3. PROVIDE 1" MERV13 FILTER.
3. STEAM COIL CONDITIONS: STEAM TEMP=222°F, PRESSURE=3 PSIG
4. VERIFY PIPE AND ELECTRICAL LEFT/RIGHT HAND CONNECTIONS PRIOR TO ORDERING.
5. PROVIDE LOUVER AND WALL SLEEVE TO MATCH EXISTING OR NEW WALL OPENING.
6. UNIT 21-1/4" DEEP W/CLOSED PIPE TUNNEL.
7. NEMA 1 DISCONNECT SWITCH.

FAN COIL UNIT (FCU) SCHEDULE

EQUIP NO.	LOCATION	MODEL NO.	SA CFM	MIN. OA	HEATING DATA NO. ROW	EAT (°F)	LAT (°F)	CAP. (MBH)	SUPPLY FAN ESP (IN. WG.)	RPM	ELECTRICAL MOTOR SIZE (HP)	V/PH	FLA	MCA	MOP	NOTES
FCU-A-E2	GEN. OFF. E-2	FCDB020	150	20	1	60.1	110.0	13.2	0.00	700	0.02	120V/1ø	2.2	2.8	15	1-7
FCU-A-E3	PRINC. E-3	FCDB020	200	30	1	59.2	110.0	15.5	0.00	870	0.02	120V/1ø	2.2	2.8	15	1-7
FCU-A-E4	NURSE E-4	FCDB020	200	30	1	59.2	110.0	15.5	0.00	870	0.02	120V/1ø	2.2	2.8	15	1-7
FCU-A-E6	S.W. E-6	FCDB020	150	20	1	60.1	110.0	13.2	0.00	700	0.02	120V/1ø	2.2	2.8	15	1-7
FCU-A-E7	CONF. E-7	FCDB020	200	30	1	59.2	110.0	15.5	0.00	870	0.02	120V/1ø	2.2	2.8	15	1-7

NOTES:
1. DESIGN BASIS: TRANE
2. VERTICAL CABINET UNIT
3. PROVIDE 1" MERV13 FILTER.
4. STEAM COIL CONDITIONS: STEAM TEMP=222°F, PRESSURE=3 PSIG
5. VERIFY PIPE AND ELECTRICAL LEFT/RIGHT HAND CONNECTIONS PRIOR TO ORDERING.
6. PROVIDE RETURN AIR BOTTOM INLET TOP GRILLE OUTLET AND OUTSIDE AIR WALL BOX..
7. PROVIDE NEMA 1 DISCONNECT SWITCH.

VERTICAL UNIT VENTILATOR (VUV) SCHEDULE

EQUIP NO.	LOCATION	MODEL NO.	SA (CFM)	MIN. OA AND EA (CFM)	HEATING DATA NO. ROW	EAT (°F)	LAT (°F)	TC (MBH)	STEAM COIL INLET (PSI)	SUPPLY ESP (IN. WG)	ELECTRICAL SUPPLY FAN (HP)	RELIEF FAN (HP)	WHEEL (W)	V/PH	MCA	MOP	NOTES
VUV-A-K1	KINDERGARTEN K-1	VER 1800D	1400	630	1	61.6	133.0	108.9	3.0	0.20	0.5	0.33	76	120 V/1ø	22.0	25	1-8
VUV-A-K2	KINDERGARTEN K-2	VER 1800D	1400	630	1	61.6	133.0	108.9	3.0	0.20	0.5	0.33	76	120 V/1ø	22.0	25	1-8

NOTES:
1. DESIGN BASIS: TEMPSPEC
2. VERTICAL CABINET UNIT
3. PROVIDE 2" MERV13 FILTER.
4. STEAM COIL CONDITIONS: STEAM TEMP=222°F, PRESSURE=3 PSIG
5. PROVIDE NEMA1 1 DISCONNECT SWITCH.
6. PROVIDE RELIEF FAN CAPABLE OF 580 CFM.
7. PROVIDE ENERGY RECOVERY WHEEL (70% MIN. EFFICIENCY)
   A. WINTER (73%): OA EDB: 8.4, EWB: 6.6, RETURN AIR EDB: 65, EWB: 45
8. PROVIDE 12" BACK CABINET EXTENSION AND 24" SHEET METAL VERTICAL EXTENSION.

LOUVER (L) SCHEDULE

DWG LABEL	SERVES	MODEL NO.	TYPE	LENGTH (IN)	HEIGHT (IN)	DEPTH (IN)	FREE AREA (S.F.)	AIRFLOW (CFM)	VELOCITY (FPM)	MAX APD (IN WG)	NOTES
L-A-KA	VUV-A-K1 AND VUV-A-K2	ESD-635HP	INTAKE	13	46	6	2.20	1400	640	0.07	1-5
L-A-KB	VUV-A-K1 AND VUV-A-K2	ESD-635HP	EXHAUST	13	15	6	0.50	580	1160	0.2	1-5

NOTES:
1. DESIGN BASIS: GREENHECK
2. PROVIDE WITH KYNAR FINISH.
3. COLOR TO BE SELECTED BY ARCHITECT.
4. PROVIDE WITH EXTENDED SILL.
5. PROVIDE WITH ALUMINUM BIRDSCREEN IN REMOVABLE FRAME.

JV FORRESTAL BUILDING/EQUIPMENT VENTILATION CALCULATIONS

EQUIPMENT NUMBER	ZONE ID ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az - AREA (SF)	MINIMUM VENTILATION RATES Pz - ZONE OCCU. #/1000 FT	ZONE OCCU.	Rp (CFM/ Person)	RpP	Ra (CFM/SF)	RaA	Vbz (CFM)	EZ	Voz (CFM)
VUV-A-K1	K-1	KINDERGARTEN	Classrooms (ages 5-8)	1350	25	34	10	340	0.12	162	502	0.8	630
VUV-A-K2	K-2	KINDERGARTEN	CLASSROOMS (AGES 5-8)	1313	25	33	10	330	0.12	158	488	0.8	610
UV-A-1	1	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	914	35	32	10	320	0.12	110	430	0.9	480
UV-A-2	2	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	1028	35	36	10	360	0.12	123	483	0.9	540
UV-A-3	3	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	857	35	30	10	300	0.12	103	403	0.9	450
UV-A-4	4	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	848	35	30	10	300	0.12	102	402	0.9	450
UV-A-5	5	MUSIC CLASSRM.	CLASSROOMS (AGE 9 PLUS)	711	35	25	10	250	0.12	85	335	0.9	380
UV-A-6A	6A	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	756	35	27	10	270	0.12	91	361	0.9	410
UV-A-7	7	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	831	35	30	10	300	0.12	100	400	0.9	450
UV-A-8	8	ART CLASSRM.	CLASSROOMS (AGE 9 PLUS)	819	35	29	10	290	0.12	98	388	0.9	440
UV-A-9	9	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	824	35	29	10	290	0.12	99	389	0.9	440
UV-A-10	10	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	822	35	29	10	290	0.12	99	389	0.9	440
UV-A-11	11	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	823	35	29	10	290	0.12	99	389	0.9	440
UV-A-12	12	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	816	35	29	10	290	0.12	98	388	0.9	440
UV-A-16	16	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	796	35	28	10	280	0.12	96	376	0.9	420
UV-A-17	17	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	774	35	28	10	280	0.12	93	373	0.9	420
UV-A-18	18	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	785	35	28	10	280	0.12	94	374	0.9	420
UV-A-19	19	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	792	35	28	10	280	0.12	95	375	0.9	420
UV-A-20	20	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	797	35	28	10	280	0.12	96	376	0.9	420
UV-A-E10	E-10	LIBRARY	CLASSROOMS (AGE 9 PLUS)	945	35	34	10	340	0.12	113	453	0.9	510
UV-A-4A	4A	SPEECH	CLASSROOMS (AGE 9 PLUS)	244	35	9	10	90	0.12	29	119	0.9	140
FCU-A-E2	E-2	GEN. OFF.	OFFICE SPACE	171	5	1	5	5	0.06	10	15	0.9	20
FCU-A-E3	E-3	PRINC.	OFFICE SPACE	225	5	2	5	10	0.06	14	24	0.9	30
FCU-A-E4	E-4	NURSE	OFFICE SPACE	287	5	2	5	10	0.06	17	27	0.9	40
FCU-A-E6	E-6	S.W.	OFFICE SPACE	154	5	1	5	5	0.06	9	14	0.9	20
FCU-A-E7	E-7	PSYC.	OFFICE SPACE	249	5	2	5	10	0.06	15	25	0.9	30
UV-A-E19	E-19	MUSIC	CLASSROOMS (AGE 9 PLUS)	467	35	17	10	170	0.12	56	226	0.9	260
UV-A-E20	E-20	FACULTY	BREAKROOMS	687	50	35	5	175	0.12	82	257	0.9	290
UV-A-E21	E-21	RESOURCE	CLASSROOMS (AGE 9 PLUS)	275	35	10	10	100	0.12	33	133	0.9	150

NOTES:
UV
Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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BID SET

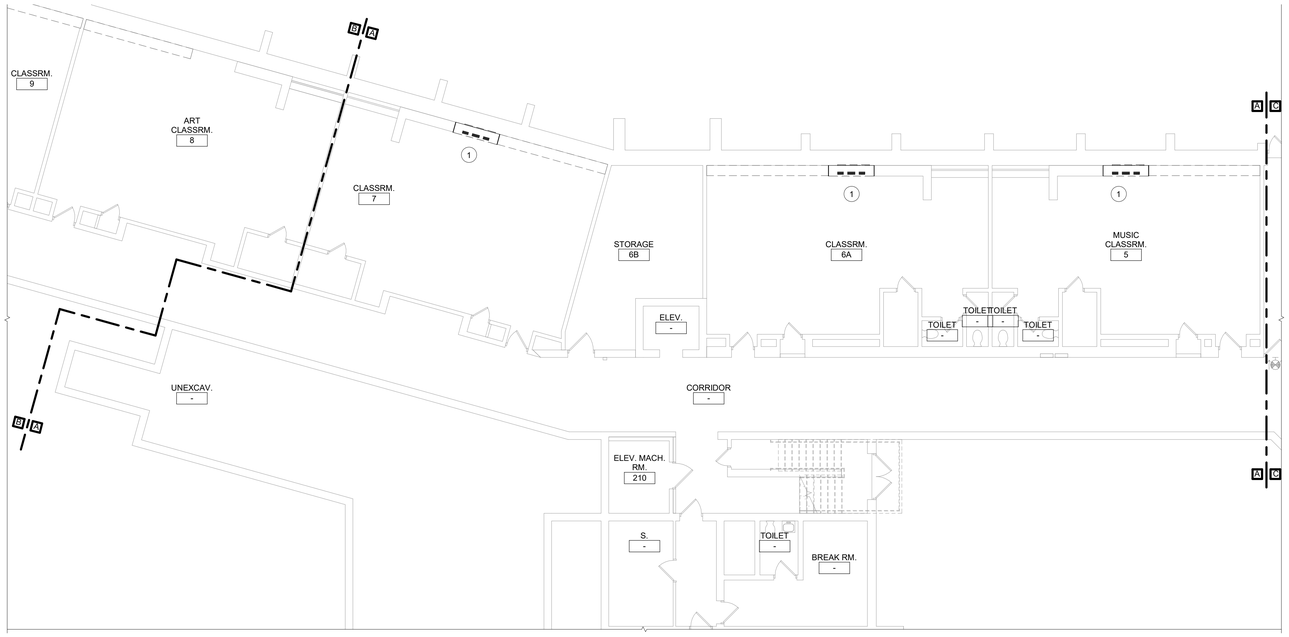
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

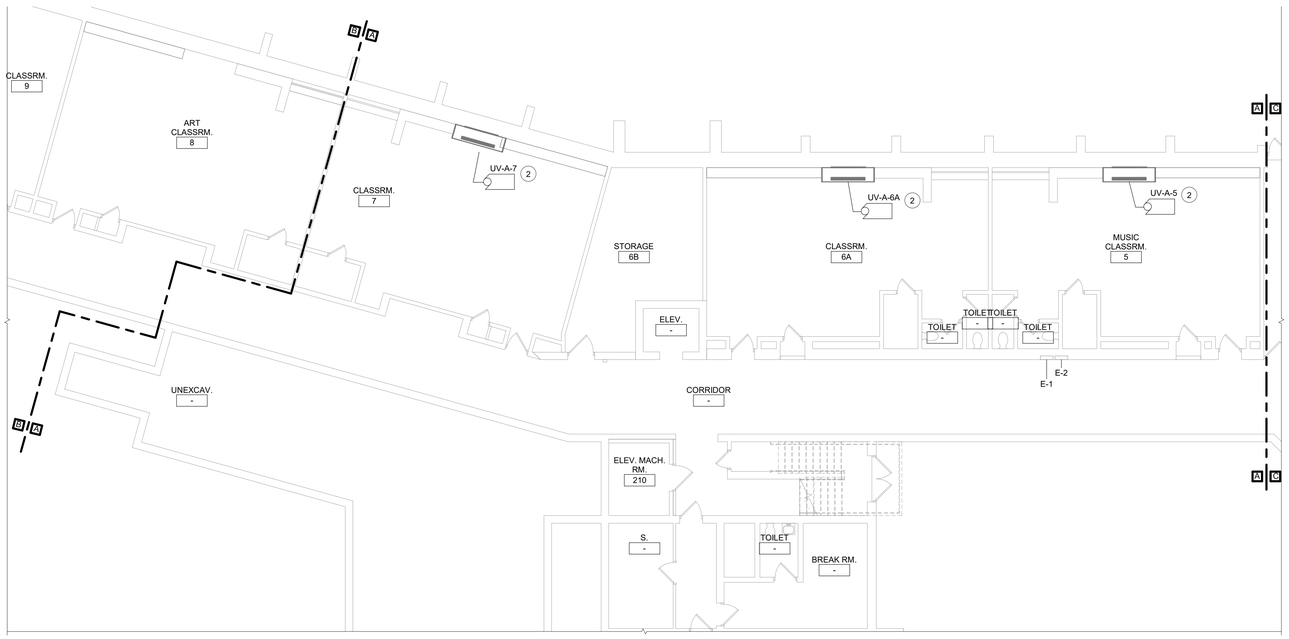
Reconstruction to:
JV Forrestal Elementary School

Schedules

Drawn By: JPF1/pgm
Date: 10/28/2022
Project No.: 279180-22004
Drawing Number: AM600



1 Ground Floor Demolition Plan - Area A
1/8" = 1'-0"



2 Ground Floor Power Plan - Area A
1/8" = 1'-0"

Demolition General Notes

A. ALL ELECTRICAL DEVICES INTERFERING WITH DEMOLITION WORK SHALL BE DISCONNECTED AND REMOVED, UNLESS OTHERWISE NOTED. EXISTING CIRCUIT WIRING SHALL BE REMOVED BACK TO SOURCE AND PANEL DIRECTORIES MODIFIED ACCORDINGLY.

B. ANY DEVICE INTERFERING WITH DEMOLITION WORK NOT SHOWN ON THESE DRAWINGS SHALL NOT BE REMOVED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE OR THE ENGINEER.

C. ALL ELECTRICAL DEMOLITION WORK SHALL BE PROPERLY COORDINATED WITH ALL OTHER TRADES.

Keyed Notes:

1. DISCONNECT POWER CIRCUITRY TO HVAC EQUIPMENT AND TAG FOR RE-USE.
2. RECONNECT TAGGED POWER CIRCUITRY TO HVAC EQUIPMENT. MODIFY/EXTEND CIRCUITRY AS NECESSARY.

General Notes

A. COORDINATE ALL ELECTRICAL WORK AND POWER OUTAGES WITH OWNER AND OTHER TRADES PRIOR TO THE START OF CONSTRUCTION. NO POWER OUTAGES SHALL OCCUR WITHOUT OWNER'S PRIOR KNOWLEDGE AND CONSENT.

B. REFER TO DRAWING G100 FOR STANDARD SYMBOLS AND ABBREVIATIONS.

C. PROPERLY IDENTIFY ALL CIRCUITS AT PANELS AND J-BOXES AND IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

D. PROVIDE ALL ADAPTERS, COUPLINGS AND ASSOCIATED FITTINGS REQUIRED FOR COMPLETE OPERATIONAL SYSTEM.

E. WHEN INSTALLING NEW DEVICES IN EXISTING LOCATIONS, REUSE EXISTING CONDUIT/RACEWAY AND BACK BOXES IF IN GOOD CONDITION. EXTEND/INSTALL NEW CONDUIT/RACEWAY AS REQUIRED FOR PROPER MOUNTING OF DEVICE. CONCEAL ABOVE CEILINGS OR WITHIN WALLS WHERE POSSIBLE. REFER TO SPECIFICATION SECTION 26 05 33.

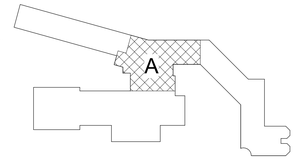
F. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.

G. TESTS OF ALL ELECTRICAL WORK SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER OR ARCHITECT, AS EQUIPMENT IS INSTALLED AND AS SYSTEMS ARE COMPLETED. IN ADDITION AN ELECTRIC APPROVED CERTIFICATE SHALL BE ISSUED BY AN ELECTRICAL INSPECTION AGENCY.

H. UNLESS NOTED ELSEWHERE ON THE CONTRACT DOCUMENTS, THE FOLLOWING LIST REPRESENTS THE TYPICAL MOUNTING HEIGHTS FOR THE DEVICES SHOWN:

1. SWITCHES AND PANIC STATIONS.....48" (TO TOP)
2. RECEPTACLES.....16*
3. COMPUTER RECEPTACLES.....48" (TO TOP)
4. WALL (W) TELEPHONE AND CALL SWITCHES.....48" (TO TOP)
5. TELEPHONE OUTLETS (UNLABELED).....16*
6. VOLUME CONTROLS.....48" (TO TOP)
7. TELEVISION OUTLETS.....16*
8. FIRE ALARM PULL STATIONS.....48" (TO TOP)
9. FIRE ALARM AUDIO/VISUAL UNITS.....88*
   * (OR 6" BELOW CEILING, WHICHEVER IS LOWER)
10. POWER PANELS.....72" (TO TOP)
11. DISCONNECT SWITCHES.....60" (TO TOP)
12. MOTOR STARTERS.....60" (TO TOP)

THE HEIGHTS INDICATED SHALL BE NOMINAL TO THE BOTTOM OF THE BOX UNLESS NOTED OTHERWISE. MAINTAIN HEIGHT CONSISTENCY BETWEEN NEW AND EXISTING DEVICES.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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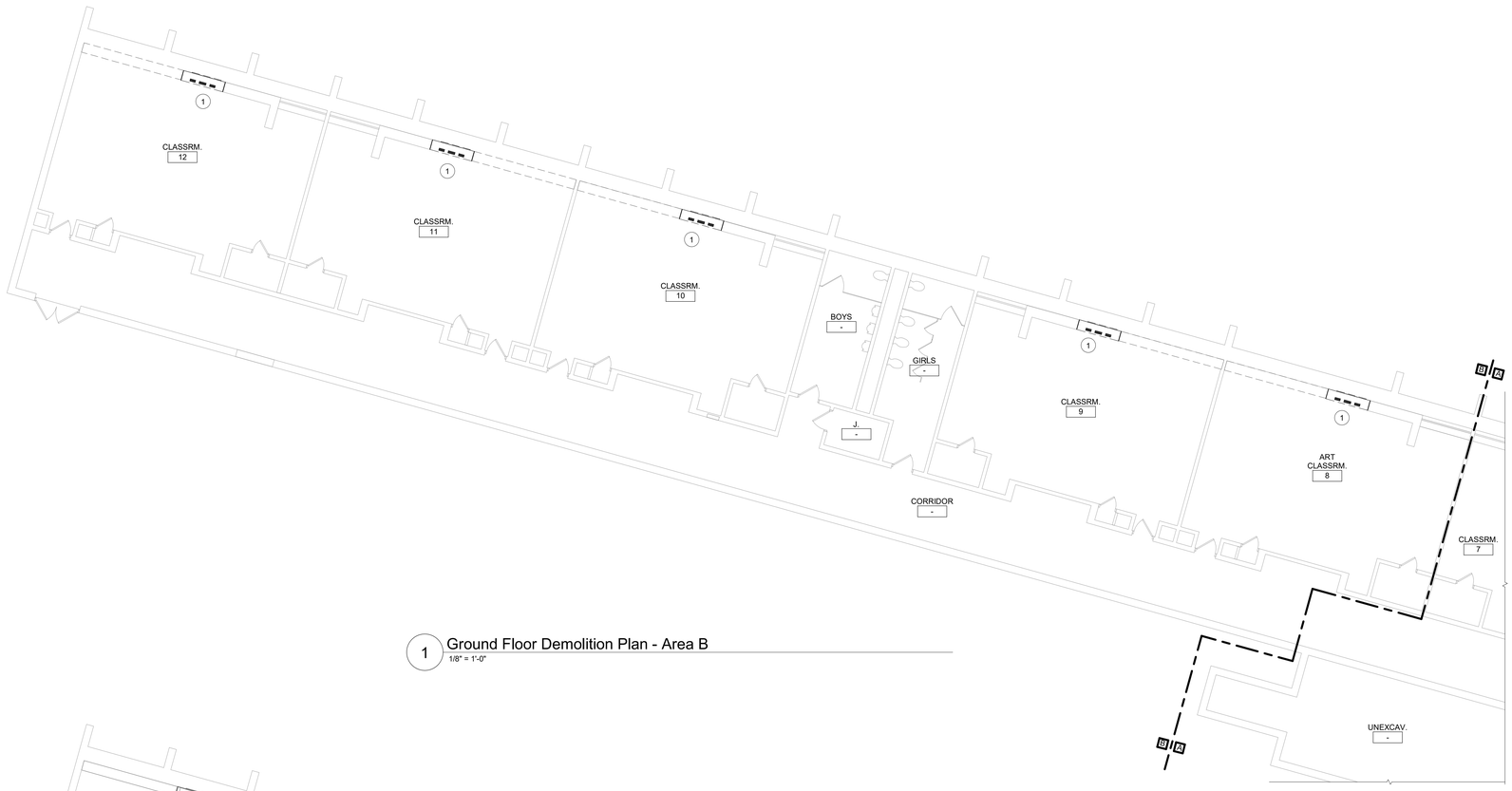
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

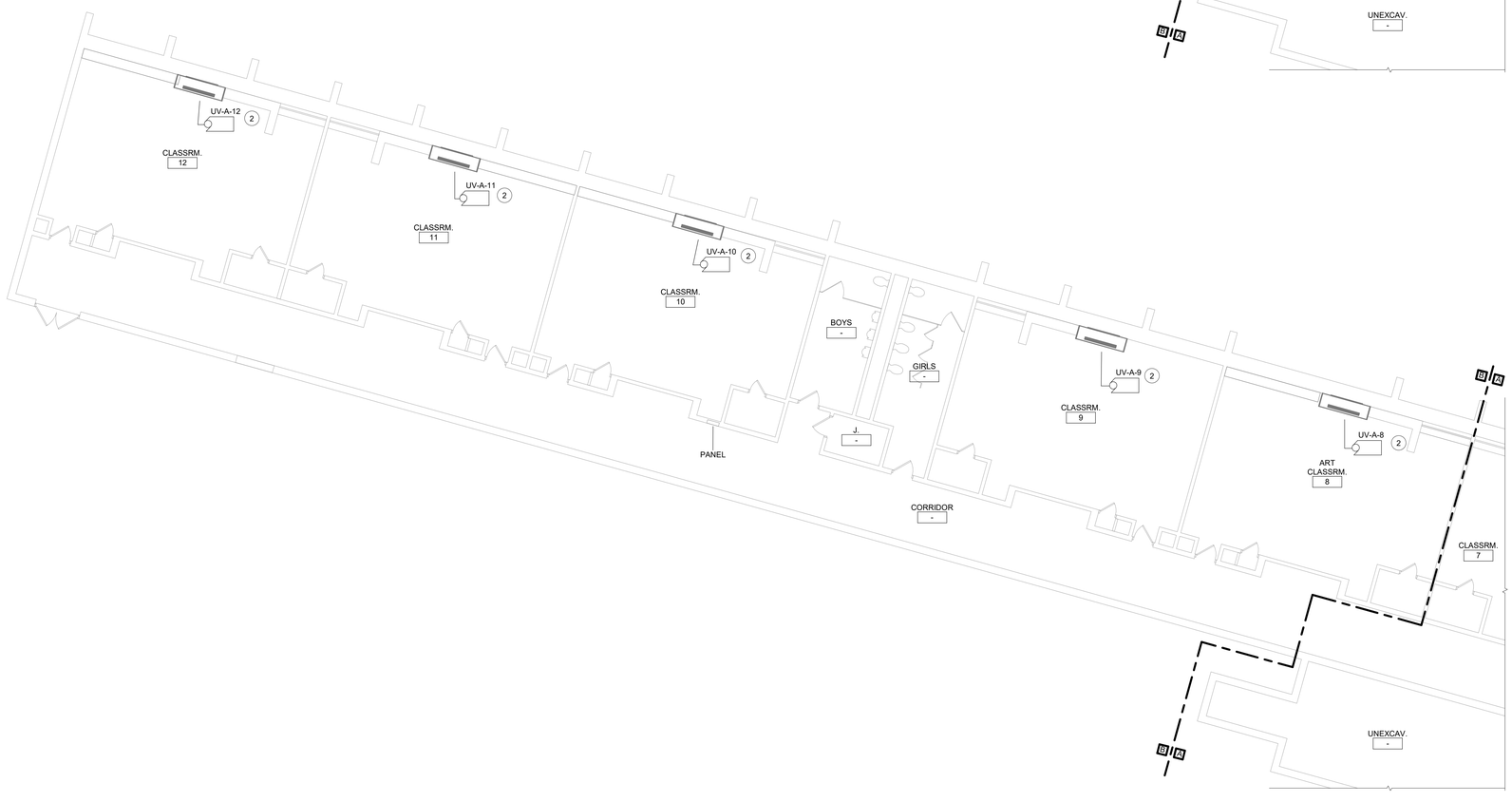
Reconstruction to:
JV Forrestal Elementary School

Ground Floor Plans - Area A

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	AE100
Project No.: 279180-22004		



1 Ground Floor Demolition Plan - Area B
1/8" = 1'-0"



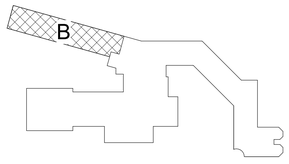
2 Ground Floor Power Plan - Area B
1/8" = 1'-0"

Keyed Notes:

1. DISCONNECT POWER CIRCUITRY TO HVAC EQUIPMENT AND TAG FOR RE-USE.
2. RECONNECT TAGGED POWER CIRCUITRY TO HVAC EQUIPMENT. MODIFY/EXTEND CIRCUITRY AS NECESSARY.

General Notes:

A. REFER TO DRAWING AE100 FOR GENERAL NOTES



Key Plan
N.T.S.

N

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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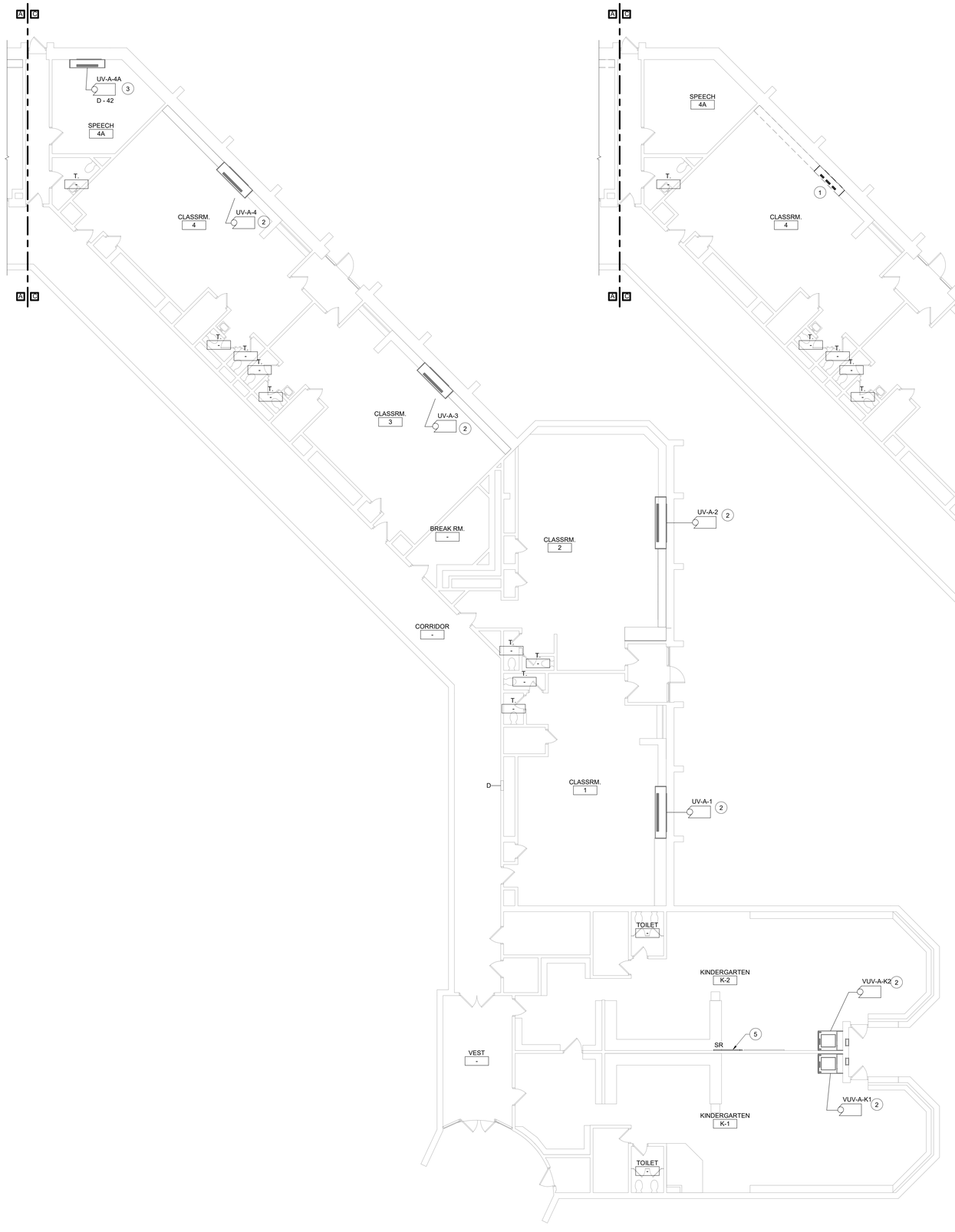
Beacon City School District
Beacon, New York

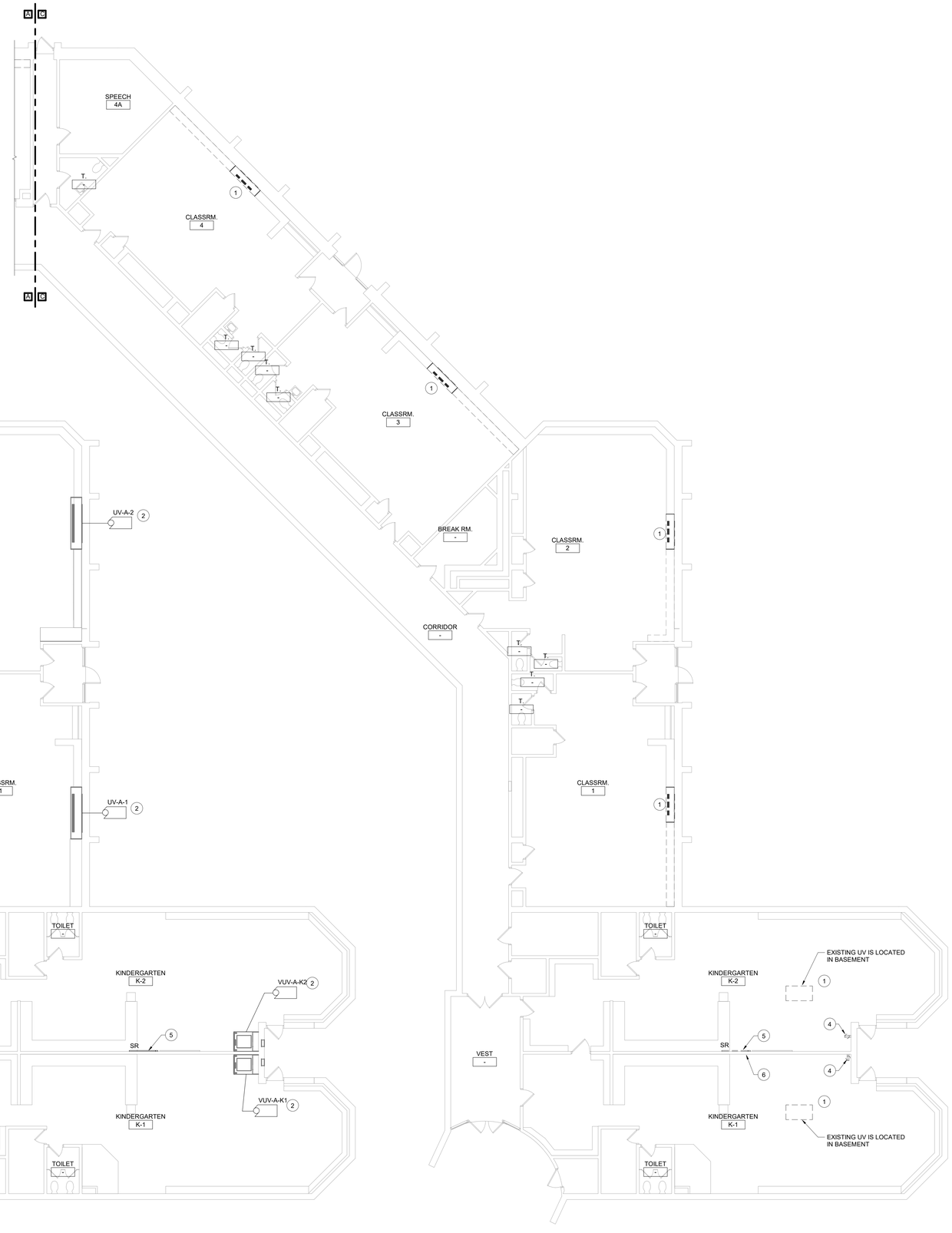
Reconstruction to:
JV Forrestal Elementary School

Ground Floor Plans - Area B

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	AE101
Project No.: 279180-22004		



2 Ground Floor Power Plan - Area C
1/8" = 1'-0"



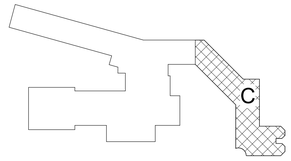
1 Ground Floor Demolition Plan - Area C
1/8" = 1'-0"

Keyed Notes:

1. DISCONNECT POWER CIRCUITRY TO HVAC EQUIPMENT AND TAG FOR RE-USE.
2. RECONNECT TAGGED POWER CIRCUITRY TO HVAC EQUIPMENT. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
3. CONNECT TO SPARE 20A1P BREAKER IN EXISTING PANEL D USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. AMEND PANEL DIRECTORY.
4. REMOVE RECEPTACLE AND WIREMOLD COMPLETE BACK TO SOURCE.
5. RELOCATE SURFACE RACEWAY, RECEPTACLE(S), DATA OUTLET(S) AND CIRCUITRY TO BE BELOW SOFFIT. MODIFY/EXTEND CIRCUITRY AS NECESSARY. REPLACE DATA CABLING IF THERE IS NOT SUFFICIENT SLACK TO REACH THE RELOCATED DATA OUTLET.
6. RELOCATE WIREMOLD INTERFERING WITH SOFFIT CONSTRUCTION. MODIFY/EXTEND CIRCUITRY AS NECESSARY.

General Notes:

A. REFER TO DRAWING AE100 FOR GENERAL NOTES



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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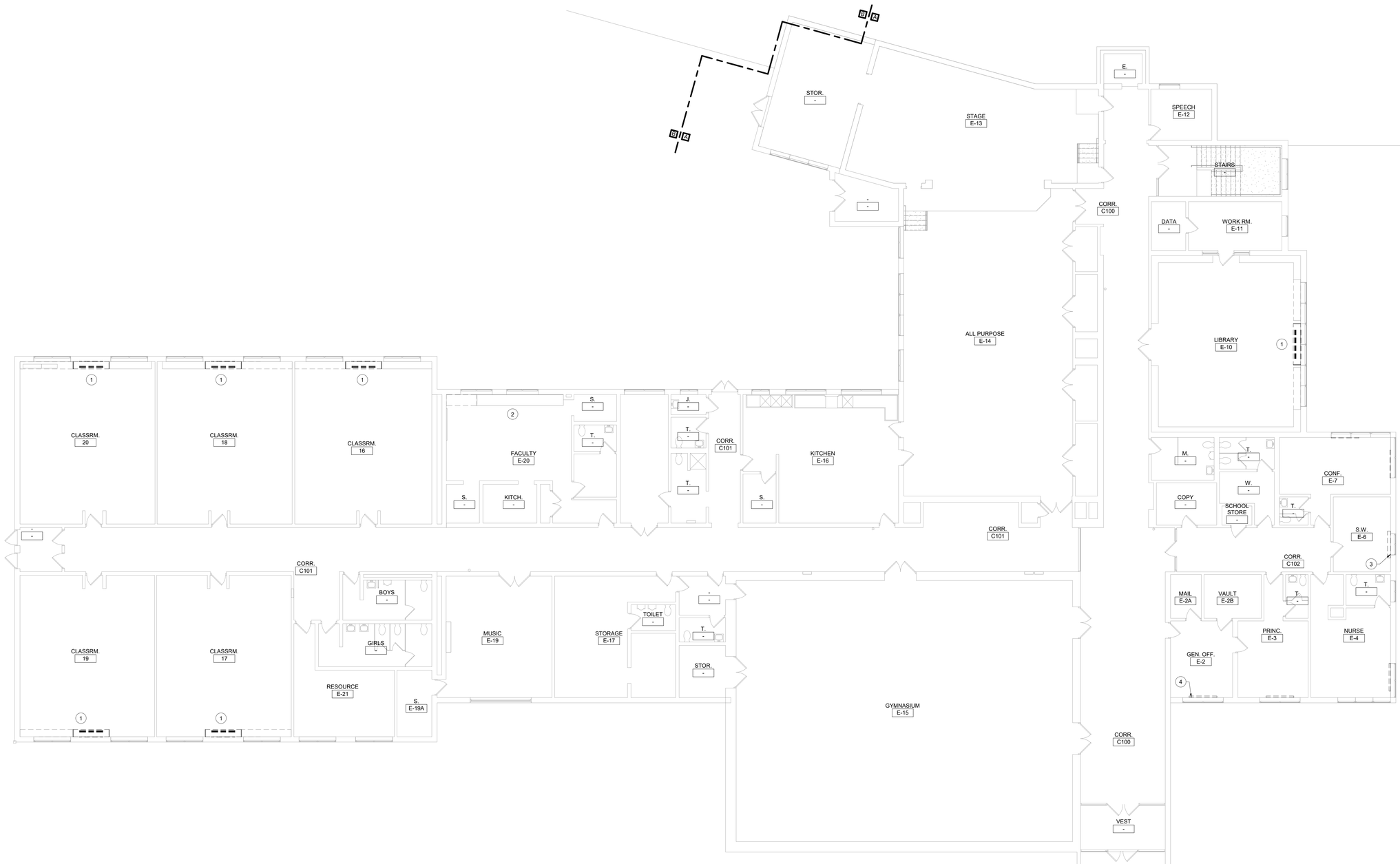
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
JV Forrestal Elementary School

Ground Floor Plans - Area C

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	AE102
Project No.: 279180-22004		



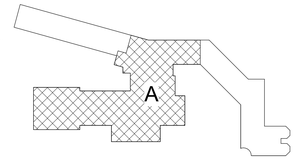
1 First Floor Demolition Plan - Area A
1/8" = 1'-0"

Keyed Notes:

1. DISCONNECT POWER CIRCUITRY TO HVAC EQUIPMENT AND TAG FOR RE-USE.
2. REMOVE RECEPTACLES AND WIREMOLD UNDER COUNTER IN FACULTY E-20 AND PREPARE FOR RE-INSTALLATION.
3. REMOVE RECEPTACLE AND WIREMOLD UNDER WINDOW IN S.W. E-6 AND PREPARE FOR RE-INSTALLATION.
4. REMOVE RECEPTACLES, WIREMOLD AND SURFACE RACEWAY UNDER WINDOW IN GEN. OFF. E-2 AND PREPARE FOR RE-INSTALLATION.

General Notes:

A. REFER TO DRAWING AE100 FOR GENERAL NOTES



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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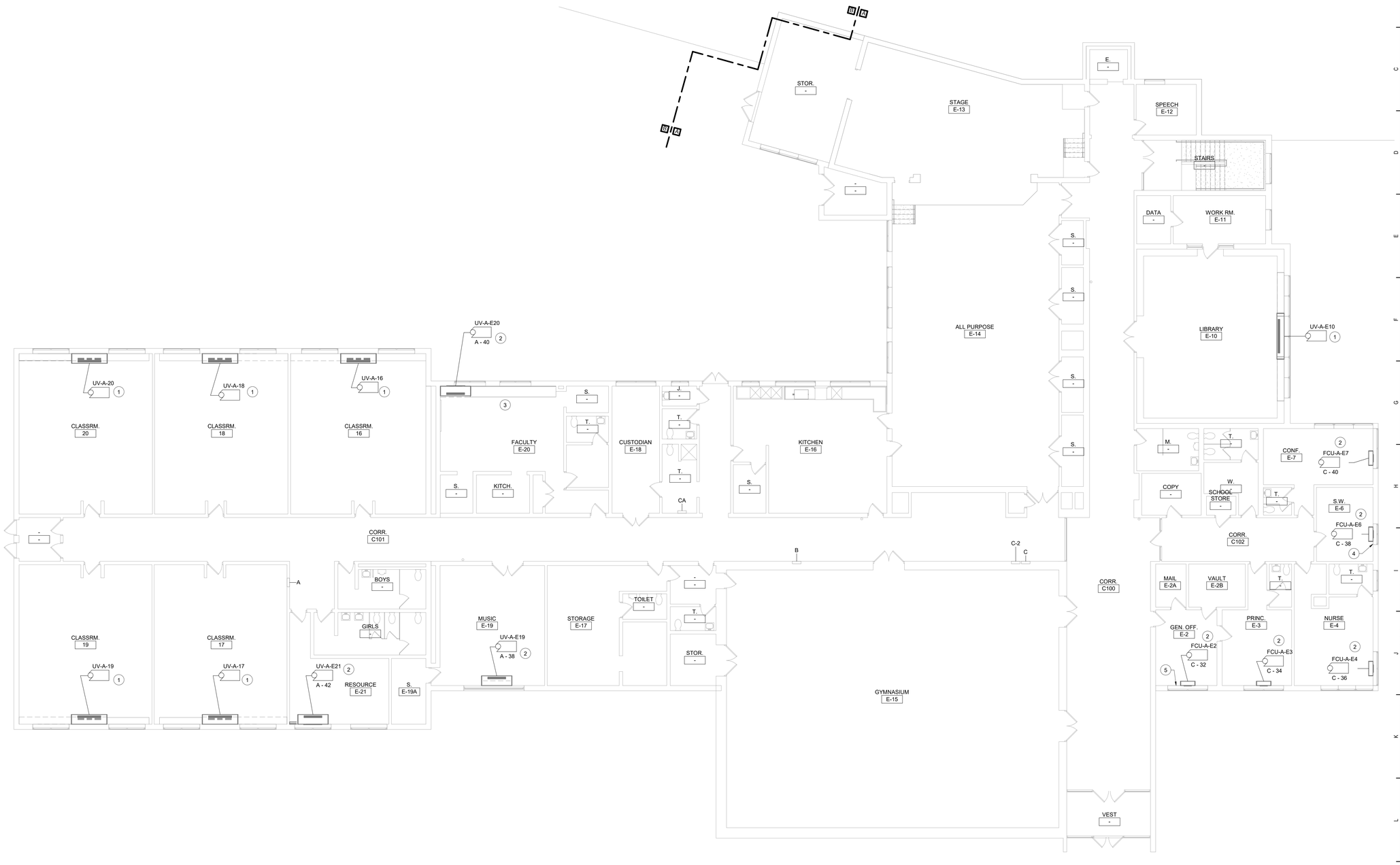
Beacon City School District
Beacon, New York

Reconstruction to:
JV Forrestal Elementary School

First Floor Demolition Plan - Area A

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	AE103
Project No.: 279180-22004		



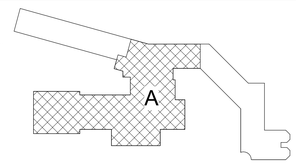
1 First Floor Power Plan - Area A
1/8" = 1'-0"

Keyed Notes:

1. RECONNECT TAGGED POWER CIRCUITRY TO HVAC EQUIPMENT. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
2. CONNECT TO SPARE 20A1P BREAKER IN EXISTING PANEL INDICATED USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. AMEND PANEL DIRECTORY.
3. RE-INSTALL RECEPTACLES AND WIREMOLD ABOVE COUNTER IN FACULTY E-20. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
4. RE-INSTALL RECEPTACLE AND WIREMOLD IN S.W. E-6 AFTER FCU-A-E6 IS INSTALLED. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
5. RE-INSTALL RECEPTACLES, WIREMOLD AND SURFACE RACEWAY IN GEN. OFF. E-2 AFTER FCU-A-E2 IS INSTALLED. MODIFY/EXTEND CIRCUITRY AS NECESSARY.

General Notes:

A. REFER TO DRAWING AE100 FOR GENERAL NOTES



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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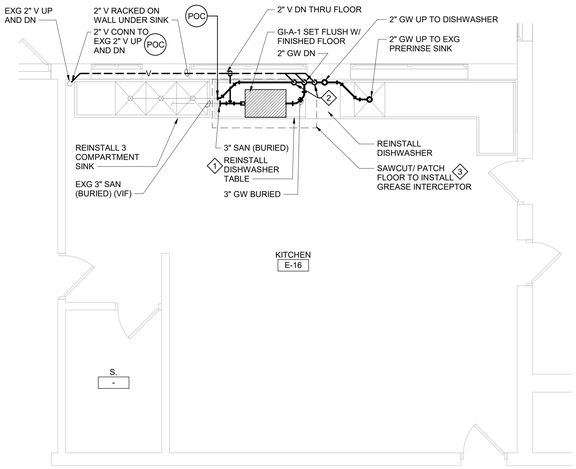
Beacon City School District
Beacon, New York

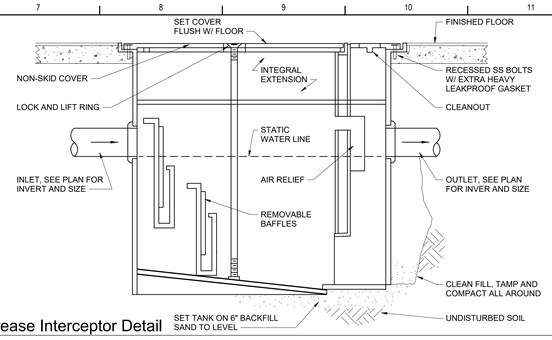
Reconstruction to:
JV Forrestal Elementary School

First Floor Power Plan - Area A

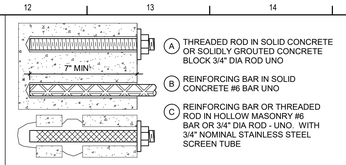
Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	AE104
Project No.: 279180-22004		



5 Kitchen E-16 Plan
1/4" = 1'-0"



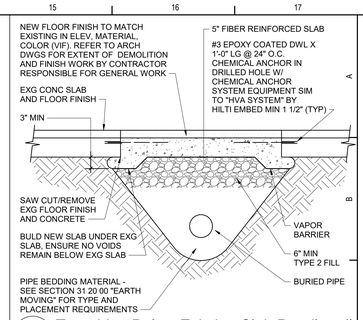
4 Grease Interceptor Detail
NTS



BAR/ROD SIZE	EMBEDMENT DEPTH
#4 OR 1/2"	5"
#5 OR 5/8"	6"
#6 OR 3/4"	7"
#7 OR 7/8"	8"
#8 OR 1"	9"

GENERAL NOTES:
1. FOR ACCEPTABLE ADHESIVE PRODUCTS REFER TO SPECIFICATIONS.
2. COMPLY WITH MANUFACTURERS REQUIREMENTS FOR INSTALLATION.

3 Typical Chemical Anchors
NTS



2 Trenching Below Existing Slab Detail
NTS

General Notes

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

B. VERIFY IN FIELD INVERT AND DIRECTION OF FLOW IN EXISTING SOIL PIPE WHERE NEW SOIL PIPE IS TO BE CONNECTED TO EXISTING SOIL PIPE.

C. LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS.

D. 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.

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

F. PROVIDE THROUGH PENETRATION FIRESTOPPING FOR FIRE RATED WALLS AND FLOORS. PENETRATIONS THROUGH EXISTING WALLS AND FLOORS ARE CONSIDERED TWO-HOUR PARTITIONS UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO "A" SERIES OR CODE COMPLIANCE DRAWINGS FOR LOCATION OF FIRE RATED WALLS AND FLOORS.

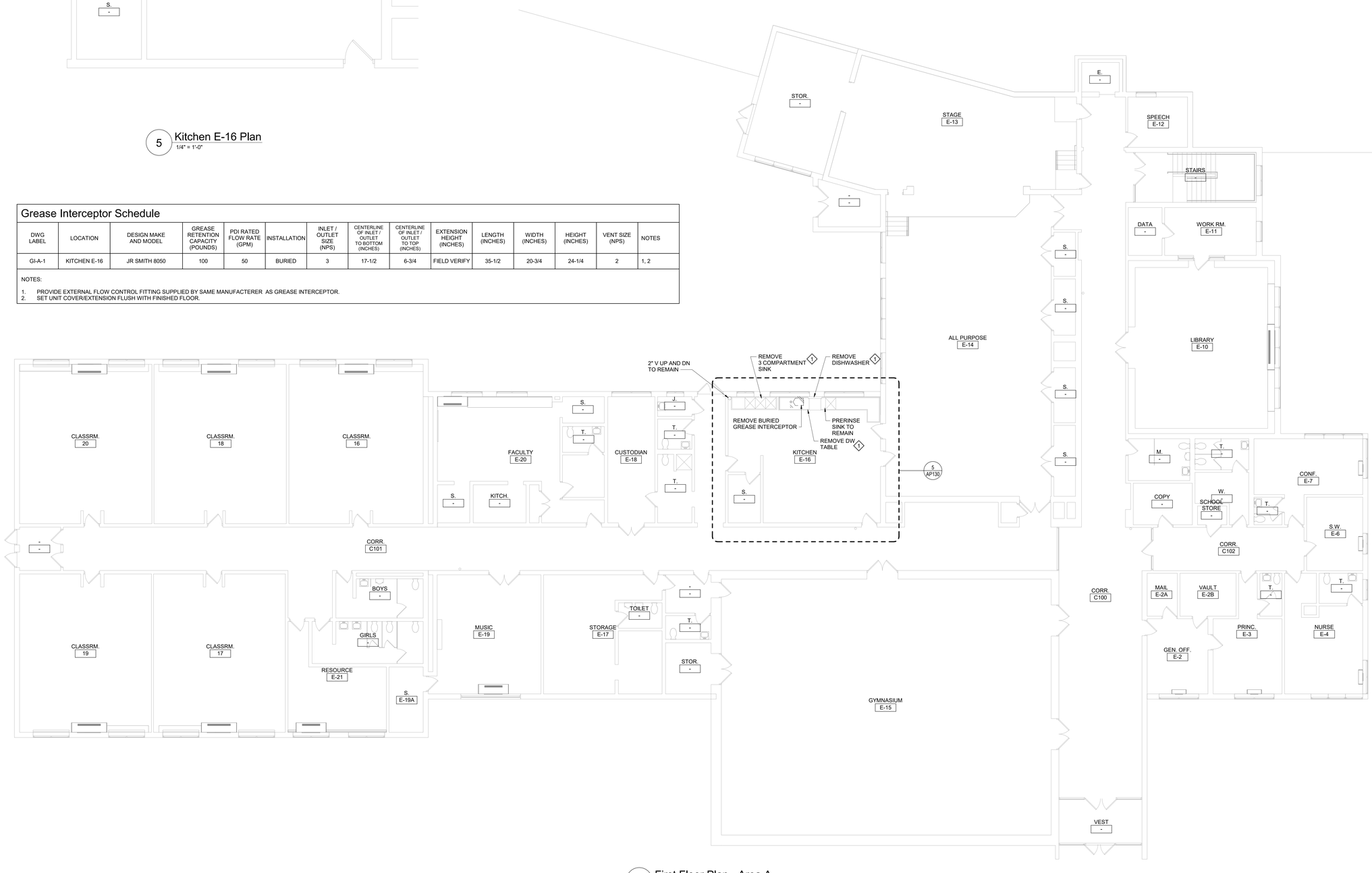
Plumbing Notes

1. REMOVE KITCHEN EQUIPMENT AND STORE FOR REINSTALLATION AFTER GREASE INTERCEPTOR IS REPLACED. CLEAN KITCHEN EQUIPMENT BEFORE REINSTALLATION. RECONNECT KITCHEN EQUIPMENT TO EXISTING ROUGH-INS.
2. FLOW CONTROL FITTING SUPPLIED BY GREASE INTERCEPTOR MANUFACTURER.
3. REFER TO DETAILS 2/ AP130 AND 3/ AP130 FOR ADDITIONAL INFORMATION.

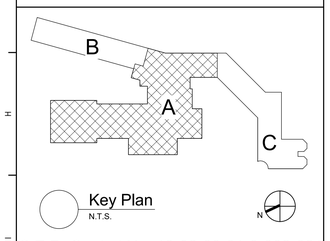
Grease Interceptor Schedule

DWG LABEL	LOCATION	DESIGN MAKE AND MODEL	GREASE RETENTION CAPACITY (POUNDS)	PDI RATED FLOW RATE (GPM)	INSTALLATION	INLET / OUTLET SIZE (NPS)	CENTERLINE OF INLET / OUTLET TO BOTTOM (INCHES)	CENTERLINE OF INLET / OUTLET TO TOP (INCHES)	EXTENSION HEIGHT (INCHES)	LENGTH (INCHES)	WIDTH (INCHES)	HEIGHT (INCHES)	VENT SIZE (NPS)	NOTES
GI-A-1	KITCHEN E-16	JR SMITH 8050	100	50	BURIED	3	17-1/2	6-3/4	FIELD VERIFY	35-1/2	20-3/4	24-1/4	2	1, 2

NOTES:
1. PROVIDE EXTERNAL FLOW CONTROL FITTING SUPPLIED BY SAME MANUFACTERER AS GREASE INTERCEPTOR.
2. SET UNIT COVER/EXTENSION FLUSH WITH FINISHED FLOOR.



1 First Floor Plan - Area A
1/8" = 1'-0"



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-002-021

Rev. No.:	Date:	Description:

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

BID SET

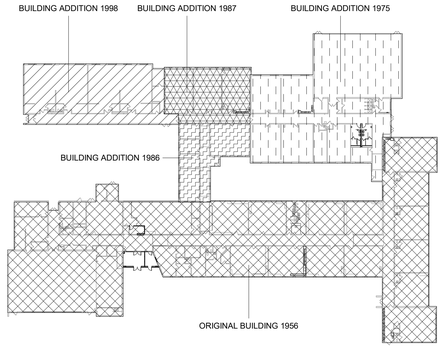
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

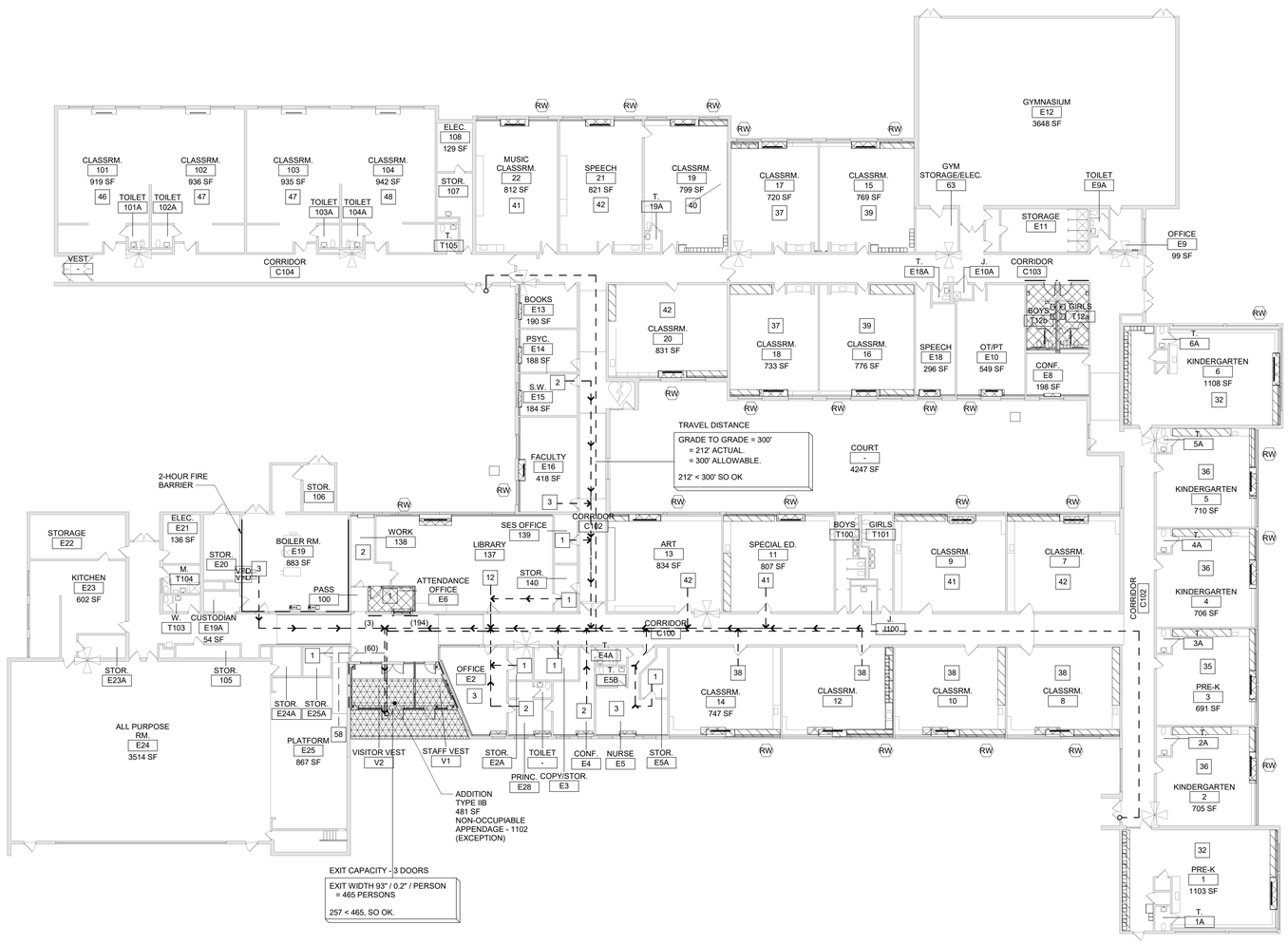
Reconstruction to:
JV Forrestal Elementary School

First Floor Plan - Area A, Details, and Schedule

Drawn By: GPD/ sef
Date: 10/28/2022
Project No.: 279180-22004
Drawing Number: AP130



1 Vintage Key Plan
1" = 50'-0"



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

Code Compliance Review

PROJECT LOCATION:
20 CHASE DR, FISHKILL, NY 12524
BOUNDED BY CHASE DR TO THE WEST.

PROJECT DESCRIPTION:
THIS PROJECT INCLUDES RENOVATION OF APPROXIMATELY 2,721 SF OF SPACE ON THE FIRST FLOOR AND 333 SF OF AND ADDITION.

WORK GENERALLY CONSISTS OF THE FOLLOWING:
ALTERATIONS - LEVEL 1
- UPDATE CUBBIES IN CLASSROOMS
- UPDATE EMERGENCY LIGHTING
- UPGRADE TO ENERGY EFFICIENT LED LIGHTING
- REPLACE UNIT VENTILATORS

ALTERATIONS - LEVEL 2
- ADA UPGRADE TO TOILET ROOMS
- ADD UNIT VENTILATORS AND FAN COIL UNITS
- ADD OVERFLOW PARKING AREA
- ALTER BUS AND PARENT DROP OFF LOOP

ADDITIONS
- ADDITION AT THE MAIN ENTRY FOR PASSIVE SECURITY COMPLY WITH 2020 EXISTING BUILDING CODE OF NEW YORK STATE EXCEPTION AS A NON-OCCUPIABLE APPENDAGE - (1102.2 EXCEPTION).

APPLICABLE CODES AND STANDARDS:

BASED ON THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE INCLUDING APPLICABLE 2018 ICC CODES AND 2020 BUILDING CODES of NYS, AND ICC A117.1-2017 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.

REFER TO PROJECT MANUAL FOR REQUIREMENTS STATED IN "NYCRR 155 REGULATIONS OF THE COMMISSIONER OF EDUCATION".

BUILDING DATA:

BUILDING: GLENHAM ELEMENTARY SCHOOL
20 CHASE DR.
FISHKILL, NY 12524

DESCRIPTION: ONE STORY MASONRY BUILDING

YEAR BUILT: 1956
ADDITIONS: 1975, 1986, 1987 AND 1998

BUILDING AREA: 1ST FLOOR 40,590 SQFT
NEW BUILDING AREA: 481 SQFT

TOTAL GROSS AREA= 41,071 SQFT

CODE DATA SUMMARY:

USE GROUP: E : EDUCATION

CONSTRUCTION TYPE -

EXISTING: IIB

NEW: IIB

FIRE SAFETY: NO AUTOMATIC SPRINKLER SYSTEM IS PROVIDED.

WORK AREA:	LOCATION	AREA	% OF TOTAL
	1ST FLOOR	2,721 SQFT	6.63%

PATH OF CODE COMPLIANCE:

2018 IEBC CODES AND 2020 EXISTING BUILDING CODE of NYS
301.1.2 WORK AREA COMPLIANCE METHOD

CHAPTER 5 - CLASSIFICATION OF WORK
503 ALTERATION - LEVEL 1 (CHAPTER 7)
504 ALTERATION - LEVEL 2 (CHAPTER 8)
507 ADDITION (CHAPTER 11)

NEW CONSTRUCTION WILL COMPLY WITH REQUIREMENTS OF 2018 ICC CODES AND 2020 BUILDING CODES of NYS

ACCESSIBLE ROUTE AND ACCESSIBLE ENTRANCES:
FOR EXTERIOR ACCESSIBLE ROUTE AND ACCESSIBLE ENTRANCES - SEE BG300.

EXIT TRAVEL DISTANCE (PER TABLE 1017.2):
FOR EXIT TRAVEL DISTANCE - SEE BG350.

STAIR AND OTHER EXIT WIDTH CALCULATIONS (PER 1005.3.1 AND 1005.3.2):
FOR EXIT TRAVEL DISTANCE - SEE BG350.

Building Number	Fire Area Number	Exg SF	Sprinkler System	Allowable Fire Area (sf)	OK
B1	F1-1	50,211	NA	5,000	PENC*

(MAXIMUM FIRE AREA = 5,000 SF PER SECTION 406 AND 903)
PENC = PRE-EXISTING NON-CONFORMING
REFER TO CG351

PLUMBING FIXTURE COUNT PER TABLE 2902.1

Occupancy Type	Total Number of Ocupants	Water Closets (Urinals) Required		Water Closets (Urinals) Provided		Lavatories Required		Lavatories Provided		Drinking Water Required	Drinking Water Provided	Bath or Shower Required	Bath or Shower Provided	Other Provided
		Male	Female	Male	Female	Male	Female	Male	Female					
E	1025	11	11	16	17	11	11	14	14	11	2	0	0	NA

General Code Notes

A. REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL CODE COMPLIANCE INFORMATION.

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

D. AT AREAS OF PROJECT WORK, COMPLETELY SEAL ALL PENETRATIONS REQUIRED TO COMPLY WITH FIRE RESISTANCE RATINGS IDENTIFIED ON THE CODE 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.

- 1-HOUR FIRE PARTITION
- COMMON EGRESS PATH
- XX NUMBER OF OCCUPANTS IN EACH SPACE, UNO
- (XX) NUMBER OF OCCUPANTS ALONG EGRESS PATH
- EXISTING FIRE EXTINGUISHER LOCATION
- AUTOMATED EXTERNAL DEFIBRILLATOR (AED)
- RW RESCUE WINDOW
- ALTERATION LEVEL 1 WORK AREA
- ALTERATION LEVEL 2 WORK AREA
- ADDITION WORK AREA

General Notes

A. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

B. TAKE FIELD MEASUREMENTS TO FIT THE WORK PROPERLY. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.

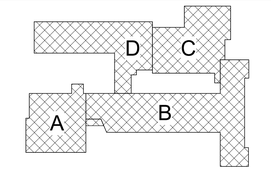
C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.

D. ITEMS ARE SHOWN DIAGRAMMATICALLY ON DRAWINGS. VERIFY SPACE REQUIREMENTS AND DIMENSIONS TO FIT THE WORK PROPERLY.

E. NOTES SHOWN ON ONE DRAWING APPLY TO ALL SIMILAR DRAWINGS.

F. ELEVATION 100'-0" ON ARCHITECTURAL DRAWINGS CORRESPONDS TO ELEVATION 232.64' ON THE SURVEY DRAWINGS.

G. DO NOT DISTURB CONSTRUCTION SUSPECTED OF CONTAINING HAZARDOUS MATERIAL. IF ENCOUNTERED, IMMEDIATELY NOTIFY ARCHITECT AND OWNER.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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BID SET

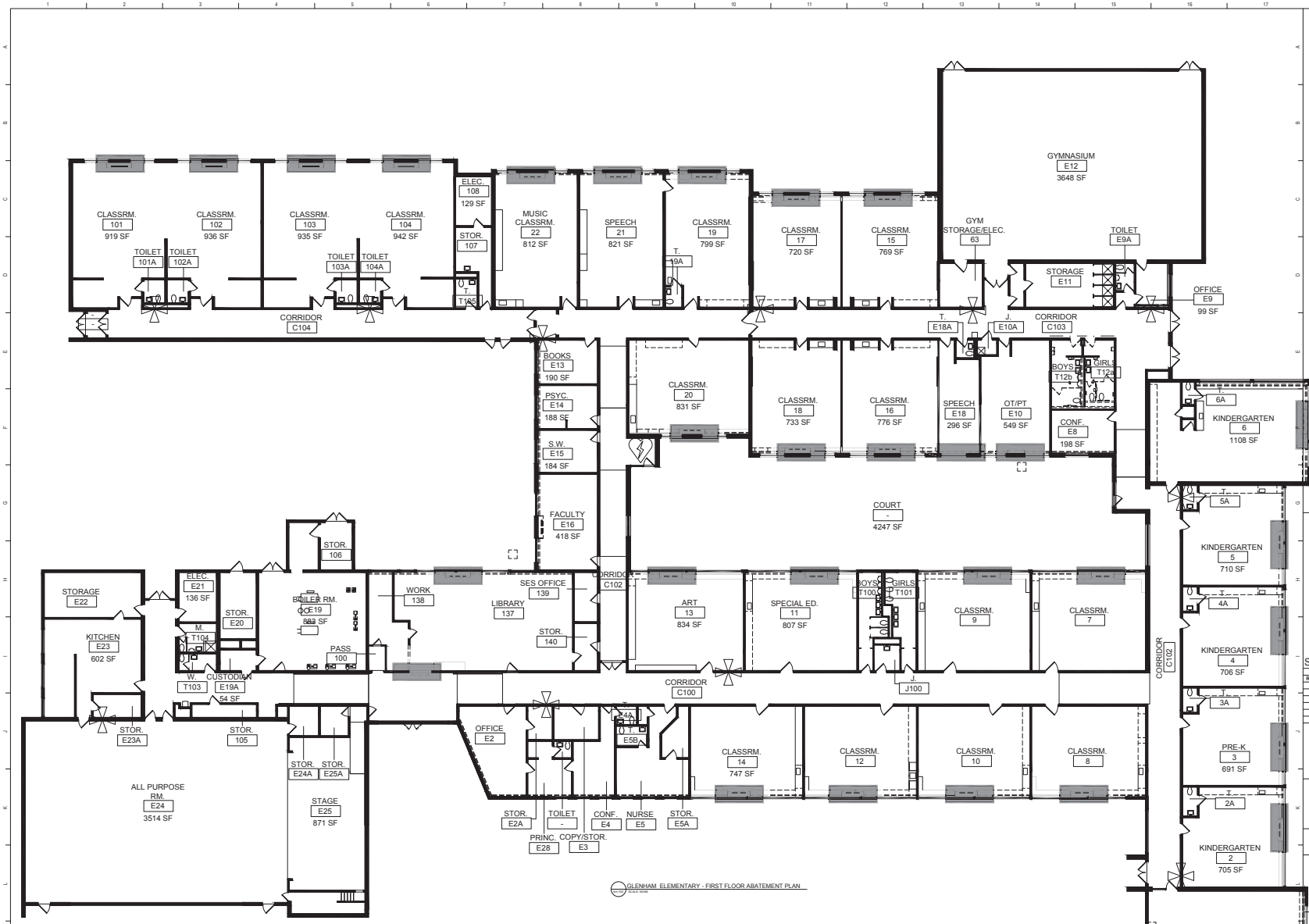
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

Code Compliance Review and Key Plan

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	BG350
Project No.: 279180-22004		



GLENHAM ELEMENTARY - FIRST FLOOR ABATEMENT PLAN
SCALE: NONE

ASBESTOS ABATEMENT NOTES

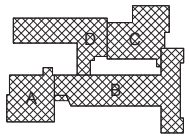
ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING (ACM) MORTAR AT LOUVRE / UNIT VENTILATORS WHERE INDICATED.

REFER TO SPECIFICATION SECTION 020800 - SECTION 3.17 FOR A DESCRIPTION OF THE WORK.

ASBESTOS ABATEMENT LEGEND

REVOVE AND DISPOSE OF EXTERIOR ASBESTOS CONTAINING FRIABLE (ACM)MORTAR AROUND LOUVER PENETRATION (BRICK TO METAL) AT UNIT VENTILATORS.

QUALITY ENVIRONMENTAL SOUTIONS & TECHNOLOGIES, INC.
1376 NYS ROUTE 9
WAPPINGERS FALLS, NY 12590
TEL. : (845) 298-6031



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:
1	9-13-22	100% SED Submittal

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

Asbestos Abatement

Drawn By:	Date:	Drawing Number:
TTAE	10/28/2022	BH100
Project No.: 279180-22004		

General Demolition Notes

A. - - - - - - REMOVE ITEMS INDICATED BY DASHED LINE.

B. KEYED DEMOLITION TAGS REFER TO SPECIFIC LOCATIONS AS FOLLOWS:

1. DEMOLITION TAGS LOCATED WITHIN THE MIDDLE OF A SPACE REFER TO DEMOLITION OF ALL ITEMS OF THAT SAME TYPE WITHIN THAT ENTIRE SPACE.

2. DEMOLITION TAGS PLACED IMMEDIATELY ON OR ADJACENT TO A DASHED LINE INDICATING ITEM REMOVAL OR THAT HAVE A LEADER POINTING TO SPECIFIC ITEM(S) REFER TO DEMOLITION OF THAT SPECIFIC ITEM ONLY OF THAT TYPE WITHIN THAT SPACE.

3. DEMOLITION TAGS IN SERIES REFER TO DEMOLITION OF ALL THOSE ITEMS EITHER WITHIN THAT ENTIRE SPACE OR TO THE SPACE IDENTIFIED BY THAT LEADER.

C. WHEN AN ITEM IS INDICATED TO BE DEMOLISHED REMOVE ALL ASSOCIATED COMPONENTS AS PART OF THAT WORK.

D. ALL ARTWORK NOT PERMANENTLY AFFIXED TO EXISTING CONSTRUCTION SHALL BE REMOVED AND STORED BY OWNER PRIOR TO BEGINNING DEMOLITION WORK. CONTACT OWNER'S AGENT(S) IF ANY ARTWORK IS ENCOUNTERED PRIOR TO START OF DEMOLITION WORK.

E. EXISTING WINDOW-MOUNTED A/C UNITS SHALL BE REMOVED AND STORED BY OWNER PRIOR TO START OF DEMOLITION WORK.

F. COORDINATE WITH ABATEMENT DRAWINGS PRIOR TO DEMOLITION.

Demolition Key Notes

1E — REMOVE WALL FULL HEIGHT AND ALL ASSOCIATED COMPONENTS. PATCH EXPOSED SURFACE TO MATCH EXISTING ADJACENT SURFACES.

1E.2 — REMOVE PORTION OF WALL AS INDICATED AND ALL ASSOCIATED COMPONENTS. PATCH EXPOSED SURFACES TO MATCH EXISTING ADJACENT SURFACES.

1H — PROVIDE NEW OR ENLARGE EXISTING OPENING IN WALL TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE, SEE STRU DRAWINGS. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH SCHEDULED WORK ON MECHANICAL DRAWINGS. SEE ABATEMENT DRAWINGS.

1P — REMOVE PORTION OF STOREFRONT INSULATED PANEL TO ACCOMODATE SCHEDULED WORK. COORDINATE WITH MECHANICAL DRAWINGS.

8A — REMOVE WINDOW AND STOREFRONT SYSTEM COMPLETELY. PREPARE OPENING TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.

8B — REMOVE DOOR AND FRAME COMPLETELY. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES/SURFACES.

9A — REMOVE PORTION OF CEILING SYSTEM AND/OR SOFFIT SYSTEM, TO EXTENT REQUIRED TO PERFORM NEW WORK. CLEAN, SALVAGE AND PROTECT FOR RE-INSTALLATION.

9A.1 — REMOVE CEILING SYSTEM AND/OR SOFFIT SYSTEM IN ITS ENTIRETY.

9B — REMOVE PORTION OF CEILING SYSTEM AND/OR SOFFIT SYSTEM, TO EXTENT REQUIRED TO PERFORM NEW WORK. CAREFULLY TRIM CEILING GRID TO REMAIN.

9C — REMOVE CEILING- OR WALL-MOUNTED ACOUSTICAL TREATMENTS IN THEIR ENTIRETY.

9D.x — REMOVE FLOOR FINISH, MASTIC AND WALL BASE TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS OF FLOOR REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO MAKE SURFACE LEVEL. PREPARE FOR FINISH. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE.

SUFFIX KEY (FLOOR FINISH IDENTIFICATIONS):
A. CARPET.
B. CERAMIC FLOOR TILE.
C. VAT/VCT.

9E — REMOVE WALL BASE AND ASSOCIATED MASTIC ONLY - EXISTING FLOOR FINISH TO REMAIN. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE.

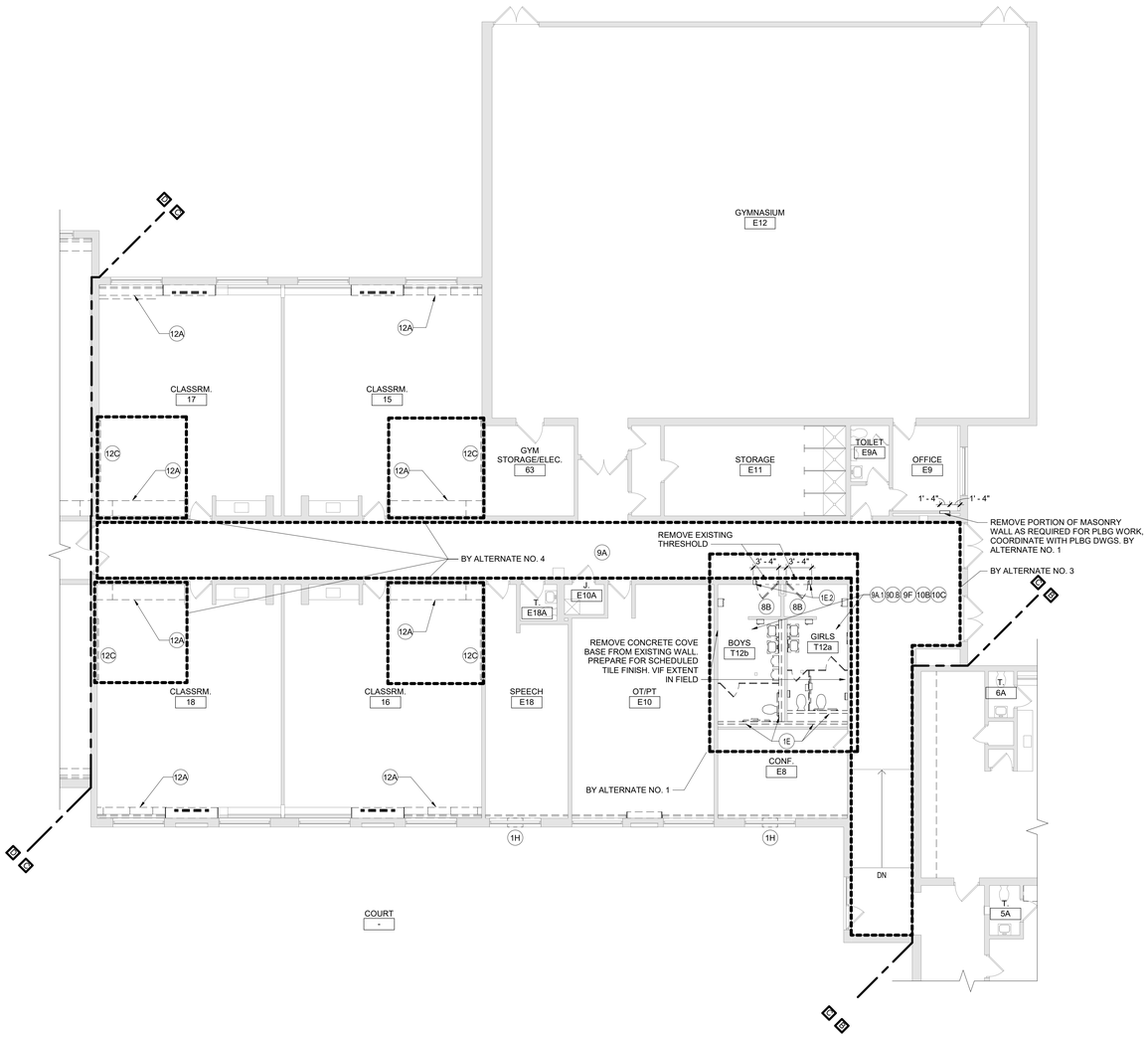
9F — REMOVE WALL TILE IN ITS ENTIRETY. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK.

10B — REMOVE TOILET COMPARTMENTS IN THEIR ENTIRETY.

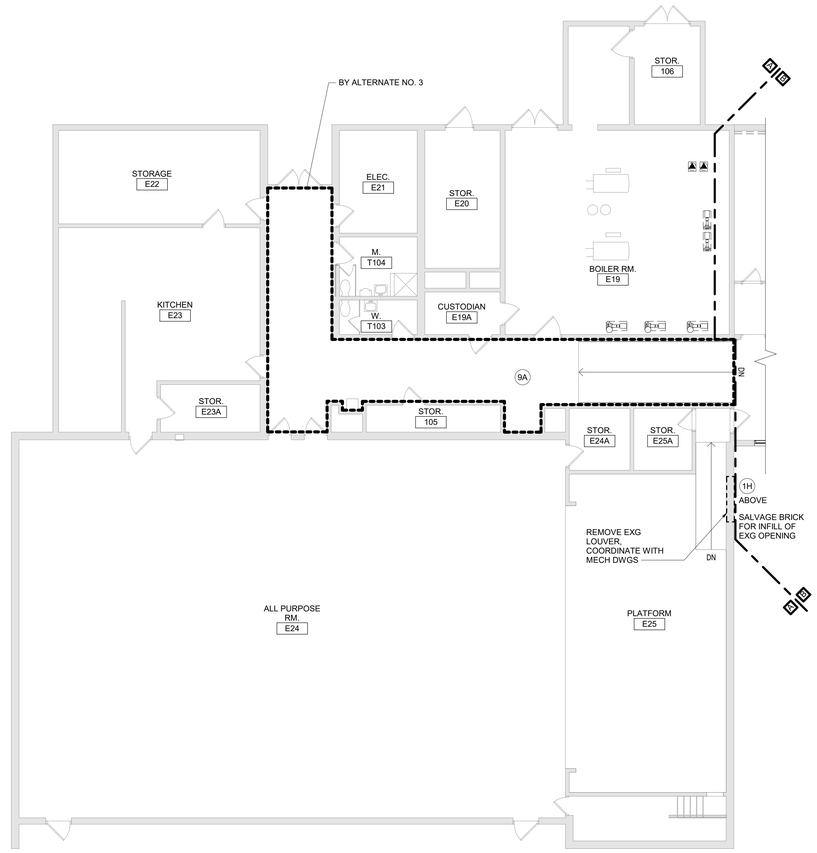
10C — REMOVE TOILET AND BATH ACCESSORIES. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK.

12A — REMOVE CASEWORK, SHELVING AND ASSOCIATED COMPONENTS TO THE EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH CASEWORK AND MECHANICAL DRAWINGS.

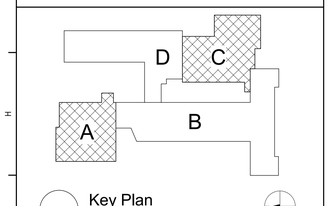
12C — REMOVE TEACHING SURFACES INCLUDING MARKER BOARDS, TACK BOARDS AND CHALK BOARDS. TURN OVER TO OWNER PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES AND SURFACES.



2 First Floor Demolition Plan - Area C
1/8" = 1'-0"



1 First Floor Demolition Plan - Area A
1/8" = 1'-0"



S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

First Floor Demolition Plan - Area A and C

Drawn By:	Date:	Drawing Number:
GCK/ltg	10/28/2022	BA100
Project No.: 279180-22004		

General Demolition Notes

A. - - - - - REMOVE ITEMS INDICATED BY DASHED LINE.

B. KEYED DEMOLITION TAGS REFER TO SPECIFIC LOCATIONS AS FOLLOWS:

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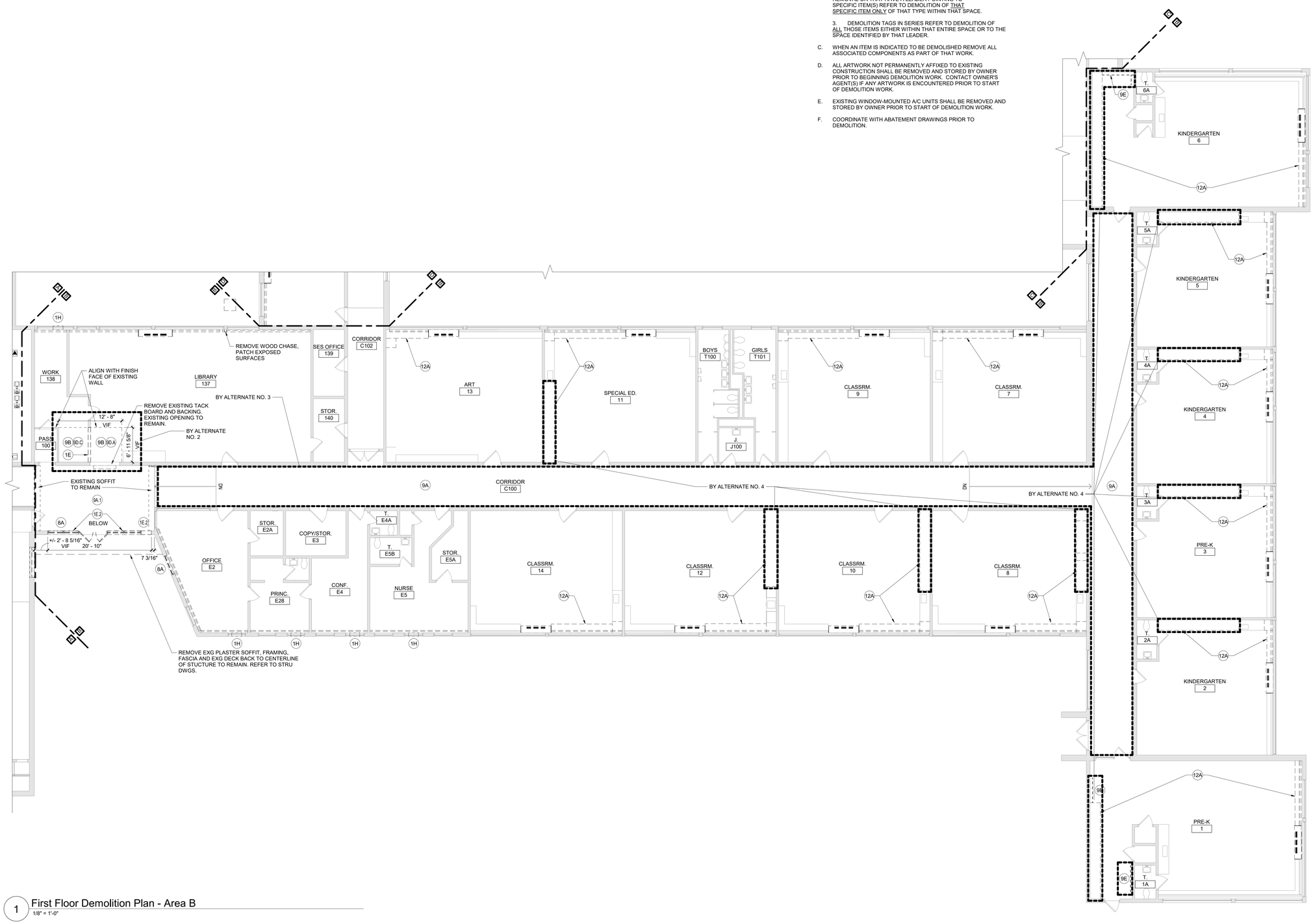
E. EXISTING WINDOW-MOUNTED A/C UNITS SHALL BE REMOVED AND STORED BY OWNER PRIOR TO START OF DEMOLITION WORK.

F. COORDINATE WITH ABATEMENT DRAWINGS PRIOR TO DEMOLITION.



1 First Floor Demolition Plan - Area B
1/8" = 1'-0"

Demolition Key Notes

1E REMOVE WALL FULL HEIGHT AND ALL ASSOCIATED COMPONENTS. PATCH EXPOSED SURFACE TO MATCH EXISTING ADJACENT SURFACES.

1E.2 REMOVE PORTION OF WALL AS INDICATED AND ALL ASSOCIATED COMPONENTS. PATCH EXPOSED SURFACES TO MATCH EXISTING ADJACENT SURFACES.

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8A REMOVE WINDOW AND STOREFRONT SYSTEM COMPLETELY. PREPARE OPENING TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.

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9A.1 REMOVE CEILING SYSTEM AND/OR SOFFIT SYSTEM IN ITS ENTIRETY.

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9C REMOVE CEILING- OR WALL-MOUNTED ACOUSTICAL TREATMENTS IN THEIR ENTIRETY.

9D.x REMOVE FLOOR FINISH, MASTIC AND WALL BASE TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS OF FLOOR REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO MAKE SURFACE LEVEL. PREPARE FOR FINISH. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE.

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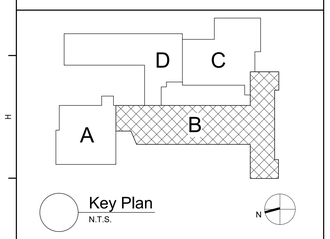
12C REMOVE TEACHING SURFACES INCLUDING MARKER BOARDS, TACK BOARDS AND CHALK BOARDS. TURN OVER TO OWNER PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES AND SURFACES.



S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

First Floor Demolition Plan - Area B

Drawn By:	Date:	Drawing Number:
GCK/tlg	10/28/2022	BA101
Project No.: 279180-22004		

General Demolition Notes

A. – – – – – REMOVE ITEMS INDICATED BY DASHED LINE.

B. KEYED DEMOLITION TAGS REFER TO SPECIFIC LOCATIONS AS FOLLOWS:

1. DEMOLITION TAGS LOCATED WITHIN THE MIDDLE OF A SPACE REFER TO DEMOLITION OF ALL ITEMS OF THAT SAME TYPE WITHIN THAT ENTIRE SPACE.

2. DEMOLITION TAGS PLACED IMMEDIATELY ON OR ADJACENT TO A DASHED LINE INDICATING ITEM REMOVAL OR THAT HAVE A LEADER POINTING TO SPECIFIC ITEM(S) REFER TO DEMOLITION OF THAT SPECIFIC ITEM ONLY OF THAT TYPE WITHIN THAT SPACE.

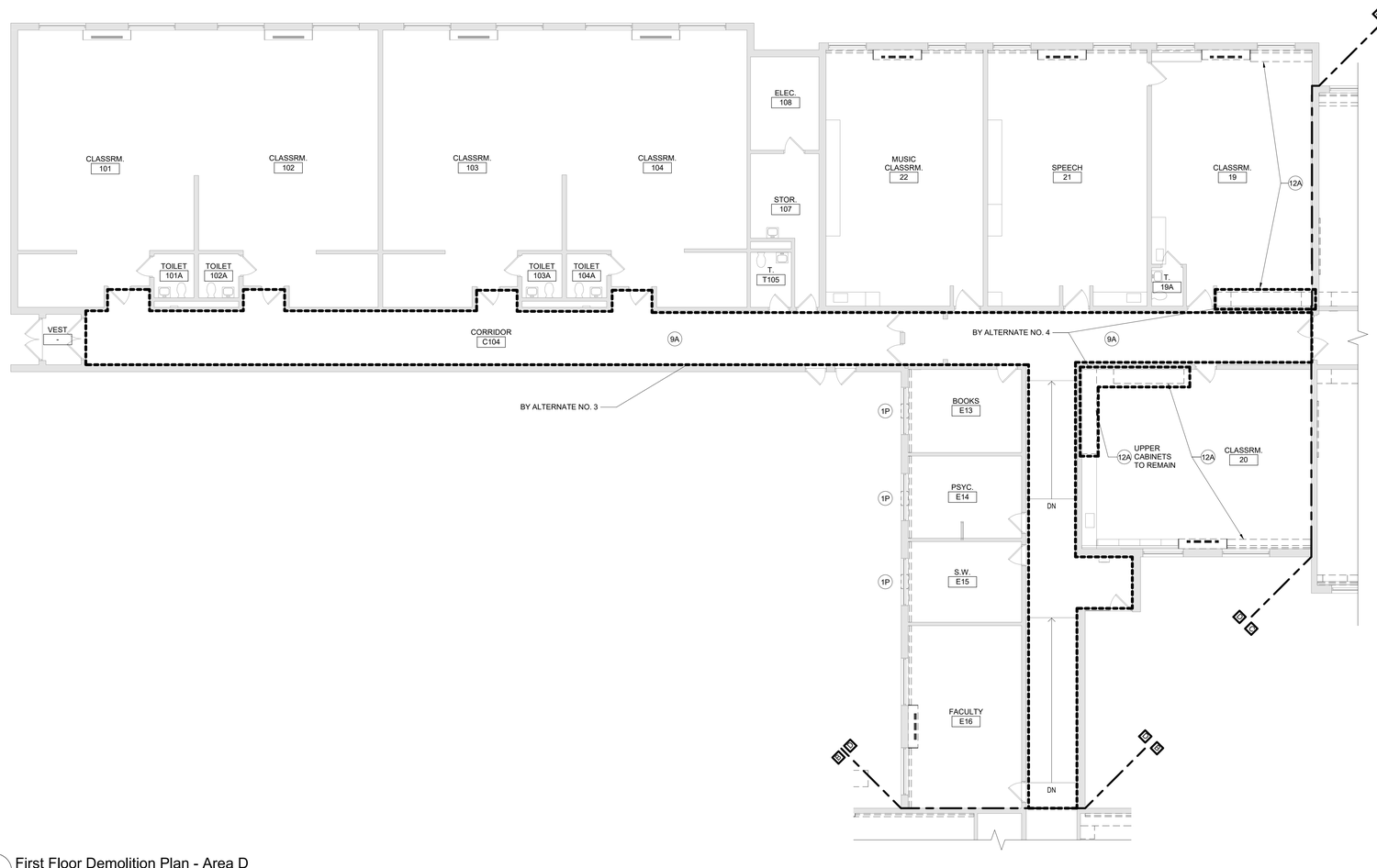
3. DEMOLITION TAGS IN SERIES REFER TO DEMOLITION OF ALL THOSE ITEMS EITHER WITHIN THAT ENTIRE SPACE OR TO THE SPACE IDENTIFIED BY THAT LEADER.

C. WHEN AN ITEM IS INDICATED TO BE DEMOLISHED REMOVE ALL ASSOCIATED COMPONENTS AS PART OF THAT WORK.

D. ALL ARTWORK NOT PERMANENTLY AFFIXED TO EXISTING CONSTRUCTION SHALL BE REMOVED AND STORED BY OWNER PRIOR TO BEGINNING DEMOLITION WORK. CONTACT OWNER'S AGENT(S) IF ANY ARTWORK IS ENCOUNTERED PRIOR TO START OF DEMOLITION WORK.

E. EXISTING WINDOW-MOUNTED A/C UNITS SHALL BE REMOVED AND STORED BY OWNER PRIOR TO START OF DEMOLITION WORK.

F. COORDINATE WITH ABATEMENT DRAWINGS PRIOR TO DEMOLITION.



1 First Floor Demolition Plan - Area D
1/8" = 1'-0"

Demolition Key Notes

1E REMOVE WALL FULL HEIGHT AND ALL ASSOCIATED COMPONENTS. PATCH EXPOSED SURFACE TO MATCH EXISTING ADJACENT SURFACES.

1E.2 REMOVE PORTION OF WALL AS INDICATED AND ALL ASSOCIATED COMPONENTS. PATCH EXPOSED SURFACES TO MATCH EXISTING ADJACENT SURFACES.

1H PROVIDE NEW OR ENLARGE EXISTING OPENING IN WALL TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE, SEE STRU DRAWINGS. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH SCHEDULED WORK ON MECHANICAL DRAWINGS. SEE ABATEMENT DRAWINGS.

1P REMOVE PORTION OF STOREFRONT INSULATED PANEL TO ACCOMODATE SCHEDULED WORK. COORDINATE WITH MECHANICAL DRAWINGS.

8A REMOVE WINDOW AND STOREFRONT SYSTEM COMPLETELY. PREPARE OPENING TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.

8B REMOVE DOOR AND FRAME COMPLETELY. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES/SURFACES.

9A REMOVE PORTION OF CEILING SYSTEM AND/OR SOFFIT SYSTEM, TO EXTENT REQUIRED TO PERFORM NEW WORK. CLEAN, SALVAGE AND PROTECT FOR RE-INSTALLATION.

9A.1 REMOVE CEILING SYSTEM AND/OR SOFFIT SYSTEM IN ITS ENTIRETY.

9B REMOVE PORTION OF CEILING SYSTEM AND/OR SOFFIT SYSTEM, TO EXTENT REQUIRED TO PERFORM NEW WORK. CAREFULLY TRIM CEILING GRID TO REMAIN.

9C REMOVE CEILING- OR WALL-MOUNTED ACOUSTICAL TREATMENTS IN THEIR ENTIRETY.

9D.x REMOVE FLOOR FINISH, MASTIC AND WALL BASE TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS OF FLOOR REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO MAKE SURFACE LEVEL. PREPARE FOR FINISH. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE.

SUFFIX KEY (FLOOR FINISH IDENTIFICATIONS):
A. CARPET.
B. CERAMIC FLOOR TILE.
C. VAT/VCT.

9E REMOVE WALL BASE AND ASSOCIATED MASTIC ONLY - EXISTING FLOOR FINISH TO REMAIN. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE.

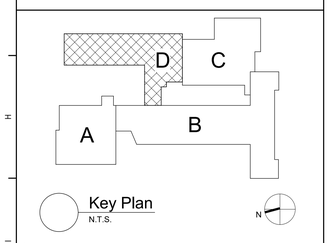
9F REMOVE WALL TILE IN ITS ENTIRETY. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK.

10B REMOVE TOILET COMPARTMENTS IN THEIR ENTIRETY.

10C REMOVE TOILET AND BATH ACCESSORIES. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK.

12A REMOVE CASEWORK, SHELVING AND ASSOCIATED COMPONENTS TO THE EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH CASEWORK AND MECHANICAL DRAWINGS.

12C REMOVE TEACHING SURFACES INCLUDING MARKER BOARDS, TACK BOARDS AND CHALK BOARDS. TURN OVER TO OWNER PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES AND SURFACES.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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BID SET

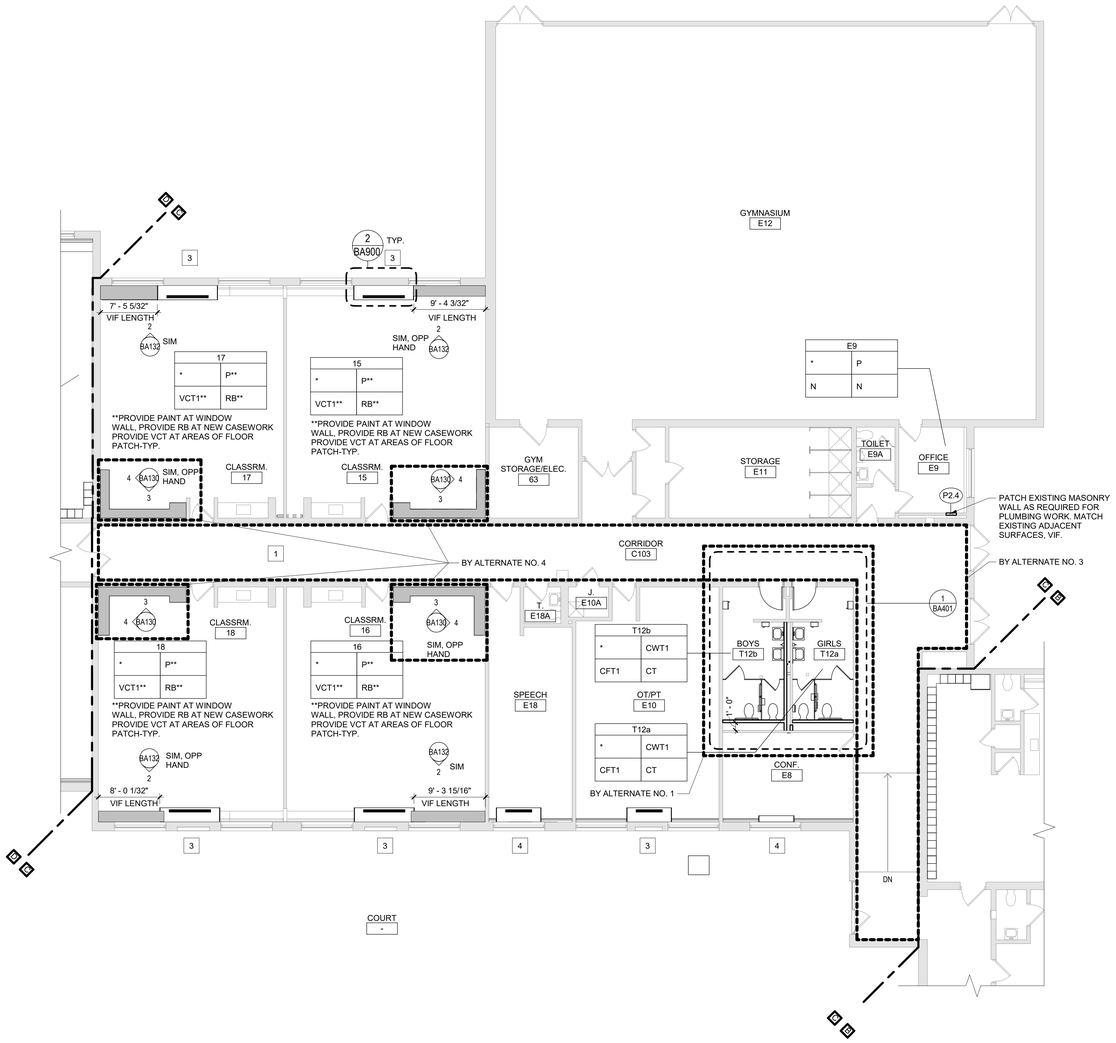
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

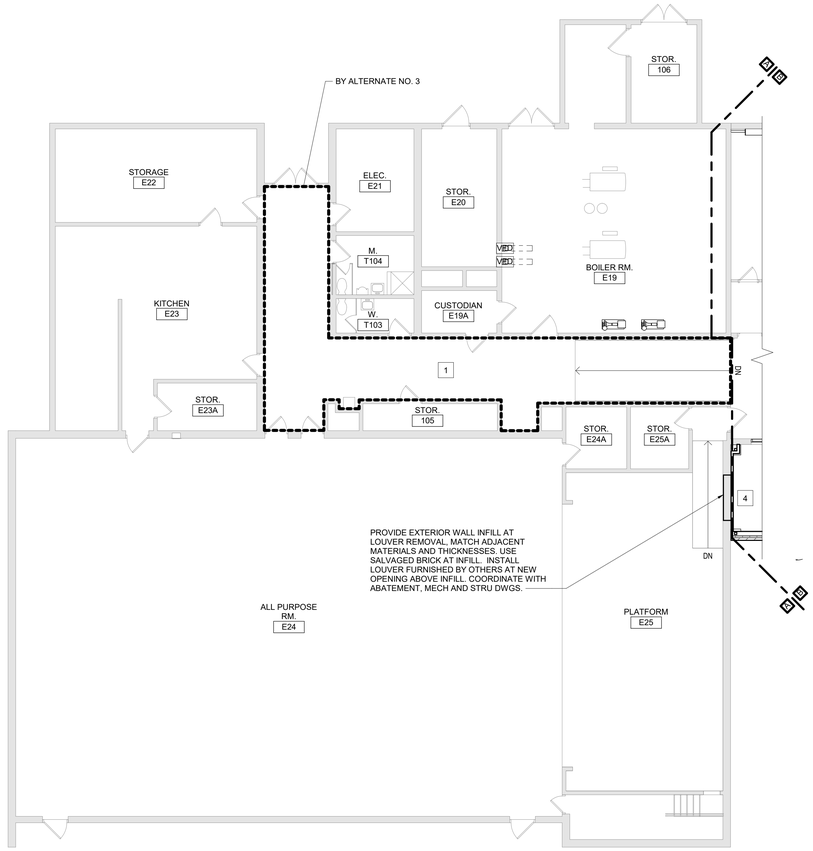
Additions and Alterations to:
Glenham Elementary School

First Floor Demolition Plan - Area D

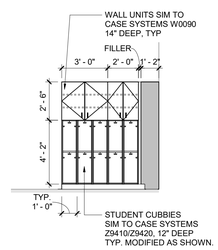
Drawn By:	Date:	Drawing Number:
GCK/ltg	10/28/2022	BA102
Project No.: 279180-22004		



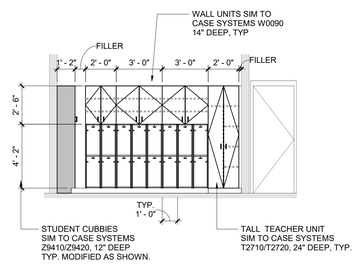
2 First Floor Plan - Area C
1/8" = 1'-0"



1 First Floor Plan - Area A
1/8" = 1'-0"



4 Classroom 15, 16-18, sim. - By Alternate No. 4
1/4" = 1'-0"



3 Classroom 15, 16-18, sim. - By Alternate No. 4
1/4" = 1'-0"

General Plan Notes

A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

B. PARTITION TYPE TAGS APPLY TO ENTIRE LENGTH OF WALL INDICATED BY THAT TAG, REGARDLESS OF OPENINGS WITHIN THAT WALL, TYPICAL UNLESS NOTED OTHERWISE.

1. ALL EXTERIOR WALLS SHALL BE WALL/PARTITION TYPE EW1, TYPICAL UNLESS NOTED OTHERWISE.
2. ALL INTERIOR WALLS SHALL BE WALL/PARTITION TYPE P12.3, TYPICAL UNLESS NOTED OTHERWISE.

C. PROVIDE BRACING WITHIN CHASES AS FOLLOWS:

1. MASONRY WALLS: FULL-HEIGHT 4" CMU BRACES AT MAXIMUM SPACING OF 11'-0" OC.
2. GYPSUM BOARD/TILE BACKING PANELS ON METAL FRAMING: FULL-HEIGHT 6" METAL STUD BRACES AT MAXIMUM SPACING OF 11'-0" OC.

Keyed Plan Notes

1. REINSTALL EXISTING CEILING PANELS AND GRID.
2. INSTALL LOUVER IN EXG INSULATED PANEL, COORD WITH HVAC DRAWINGS
3. INSTALL LOUVER FURNISHED BY OTHERS AT EXISTING OPENING. COORDINATE WITH MECHANICAL DRAWINGS.
4. INSTALL LOUVER FURNISHED BY OTHERS AT NEW OPENING. COORDINATE WITH MECHANICAL DRAWINGS.

Room Finish Key

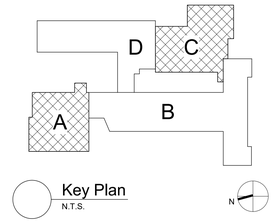
C1	CARPET - TYPE 1
C2	CARPET - TYPE 2
CFT1	CERAMIC FLOOR TILE - TYPE 1
CT	CERAMIC TILE COVE BASE
CWT1	CERAMIC WALL TILE - TYPE 1
LVT	LUXURY VINYL TILE
MCS	MOISTURE COMTROL SYSTEM
N	NO WORK REQUIRED
P	PAINT SURFACE(S) INCLUDING SOFFITS
RB	RUBBER BASE
VCT1	VINYL COMPOSITION TILE - TYPE 1
*	SEE REFLECTED CEILING PLAN
	INDICATED CHANGE IN FLOOR FINISH

NOTE: ALL FINISHES LISTED MAY NOT BE REQUIRED FOR THIS PROJECT

FINISHES SHOWN IN ROOM FINISH BOX ARE FOR ALL WALLS AND ENTIRE FLOOR AND CEILING REFER TO EACH ROOM FOR MORE INFORMATION.

RM#	
CLG*	WALL
FLR	BASE

REFER TO DRAWING BA900 FOR GENERAL FINISH NOTES
REFER TO DRAWING BA900 FOR CASEWORK NOTES



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

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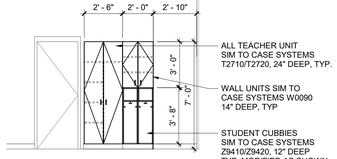
Beacon City School District
Beacon, New York

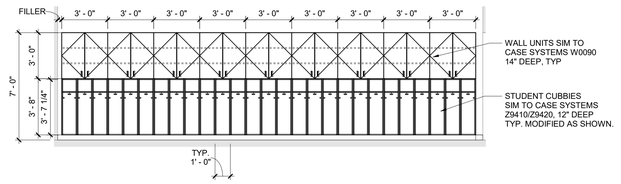
Additions and Alterations to:
Glenham Elementary School

First Floor Plan - Area A and C

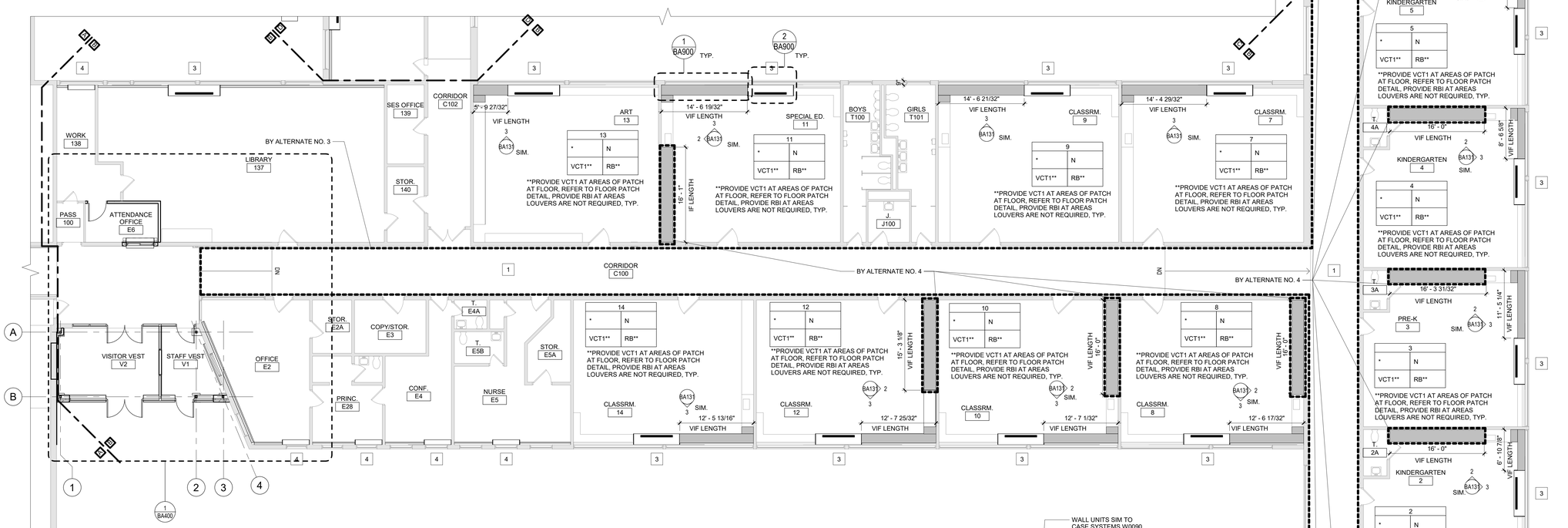
Drawn By:	Date:	Drawing Number:
GCK/ltg	10/28/2022	BA130
Project No.: 279180-22004		



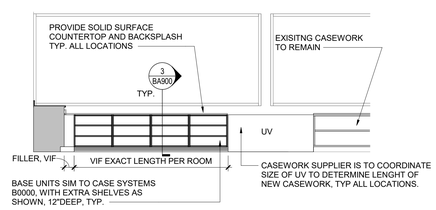
7 Kindergarten 1
1/4" = 1'-0"



6 Kindergarten 1
1/4" = 1'-0"



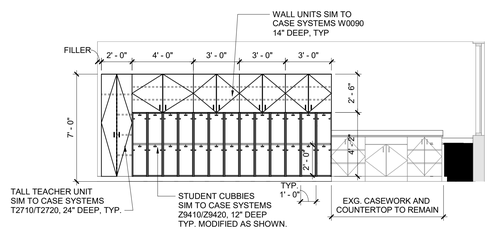
1 First Floor Plan - Area B
1/8" = 1'-0"



3 Casework at UV Room 12
1/4" = 1'-0"

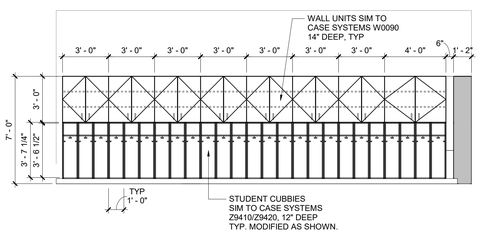
ROOMS 1-11, 13,14 SIM, OPP HAND

ALL CASEWORK REQUIRED, ARE TO BE FIELD VERIFIED PER ROOM PRIOR TO SUBMITION OF CASEWORK SHOP DRAWINGS TO ENSURE CORRECT SIZE, DISTANCE AND PLACEMENT, TYP.

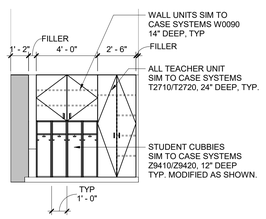


2 Cubbie Elevaton Room 12 - By Alternate No. 4
1/4" = 1'-0"

ROOMS 1-11, 13,14 SIM, OPP HAND



4 Kindergarten 6, Pre K 1, sim Opp Hand - By Alternate No. 4
1/4" = 1'-0"



5 Kindergarten 6, Pre K 1, sim Opp Hand - By Alternate No. 4
1/4" = 1'-0"

General Plan Notes

A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

B. PARTITION TYPE TAGS APPLY TO ENTIRE LENGTH OF WALL INDICATED BY THAT TAG, REGARDLESS OF OPENINGS WITHIN THAT WALL, TYPICAL UNLESS NOTED OTHERWISE.

1. ALL EXTERIOR WALLS SHALL BE WALL/PARTITION TYPE EW1, TYPICAL UNLESS NOTED OTHERWISE.
2. ALL INTERIOR WALLS SHALL BE WALL/PARTITION TYPE P12.3, TYPICAL UNLESS NOTED OTHERWISE.

C. PROVIDE BRACING WITHIN CHASES AS FOLLOWS:

1. MASONRY WALLS: FULL-HEIGHT 4" CMU BRACES AT MAXIMUM SPACING OF 11'-0" OC.
2. GYPSUM BOARD/TILE BACKING PANELS ON METAL FRAMING: FULL-HEIGHT 6" METAL STUD BRACES AT MAXIMUM SPACING OF 11'-0" OC.

Keyed Plan Notes

1. REINSTALL EXISTING CEILING PANELS AND GRID.
2. INSTALL LOUVER IN EXG INSULATED PANEL, COORD WITH HVAC DRAWINGS
3. INSTALL LOUVER FURNISHED BY OTHERS AT EXISTING OPENING. COORDINATE WITH MECHANICAL DRAWINGS.
4. INSTALL LOUVER FURNISHED BY OTHERS AT NEW OPENING. COORDINATE WITH MECHANICAL DRAWINGS.

Room Finish Key

C1	CARPET - TYPE 1
C2	CARPET - TYPE 2
CFT1	CERAMIC FLOOR TILE - TYPE 1
CT	CERAMIC TILE COVE BASE
CWT1	CERAMIC WALL TILE - TYPE 1
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MCS	MOISTURE COMTROL SYSTEM
N	NO WORK REQUIRED
P	PAINT SURFACE(S) INCLUDING SOFFITS
RB	RUBBER BASE
VCT1	VINYL COMPOSITION TILE - TYPE 1

* SEE REFLECTED CEILING PLAN

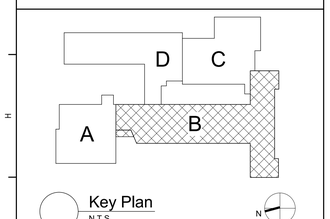
INDICATED CHANGE IN FLOOR FINISH

NOTE: ALL FINISHES LISTED MAY NOT BE REQUIRED FOR THIS PROJECT

FINISHES SHOWN IN ROOM FINISH BOX ARE FOR ALL WALLS AND ENTIRE FLOOR AND CEILING REFER TO EACH ROOM FOR MORE INFORMATION.

RM#	
CLG*	WALL
FLR	BASE

REFER TO DRAWING BA900 FOR GENERAL FINISH NOTES
REFER TO DRAWING BA900 FOR CASEWORK NOTES



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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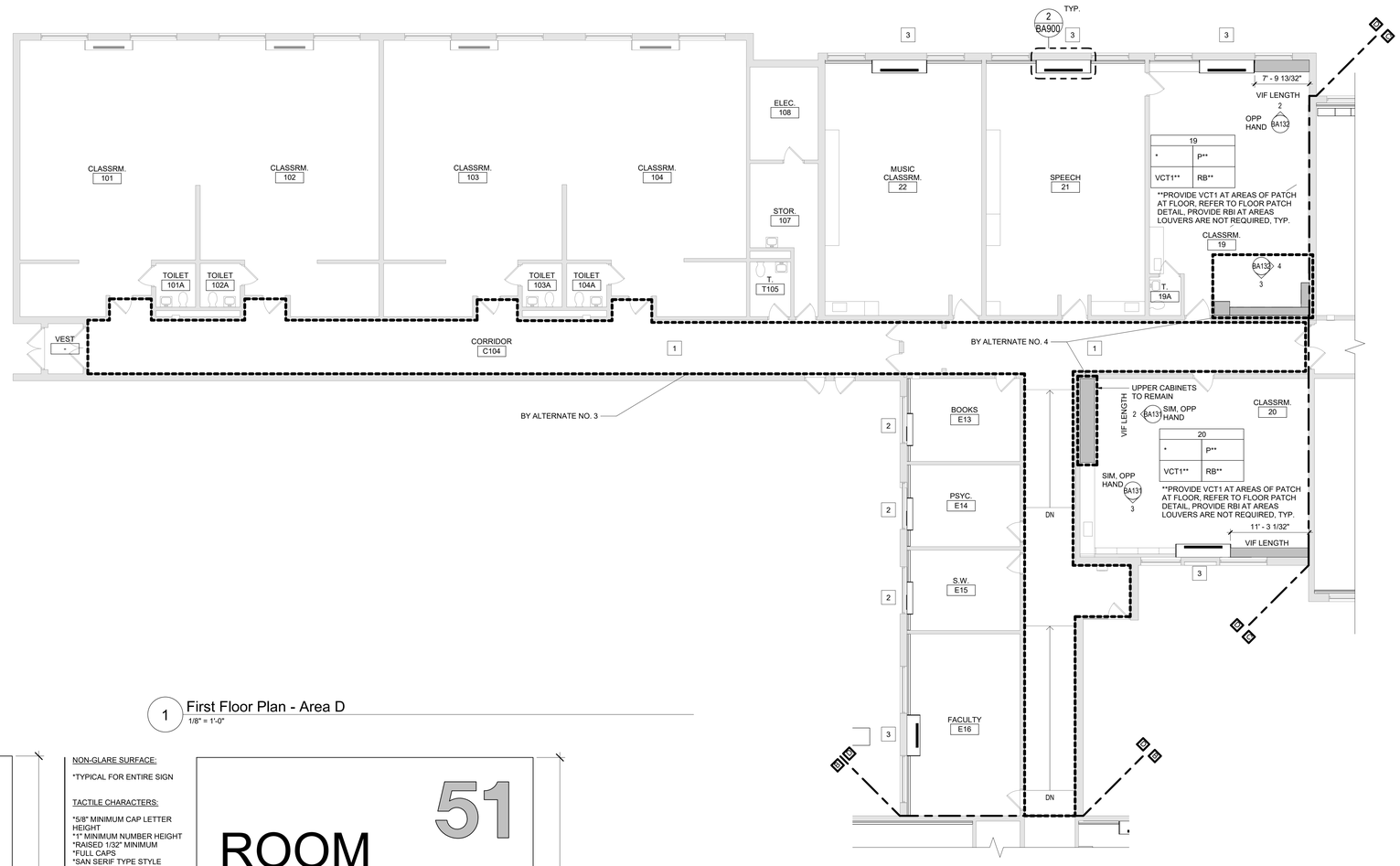
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

First Floor Plan - Area B

Drawn By:	Date:	Drawing Number:
GCK/tlg	10/28/2022	BA131
Project No.: 279180-22004		



1 First Floor Plan - Area D
1/8" = 1'-0"

NON-GLARE SURFACE:

*TYPICAL FOR ENTIRE SIGN

PICTOGRAM:

*APPEARS ON MINIMUM 6"x6" CLEAR FIELD
*PICTOGRAM NOT REQUIRED TO BE RAISED
*PICTOGRAM MUST CONTRAST WITH BACKGROUND

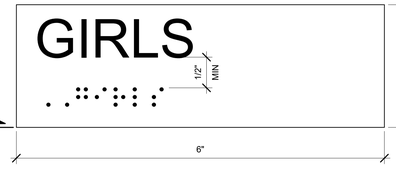
TYPE 8 - Girls'/Women's Restroom Plaque
TYPE 9 - Boys'/Men's Restroom Plaque (SIM)
TYPE 10 - Unisex Accessible Plaque (SIM)

NTS

TACTILE CHARACTERS:

*5/8" MINIMUM CAP LETTER HEIGHT
*RAISED 1/32" MINIMUM
*FULL CAPS
*SAN SERIF TYPE STYLE
*CHARACTERS MUST CONTRAST WITH BACKGROUND

GRADE 2 BRAILLE



TYPE 7 - Typical Room Name Plaque

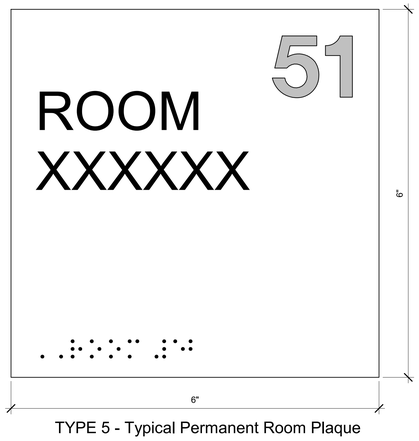
NON-GLARE SURFACE:

*TYPICAL FOR ENTIRE SIGN

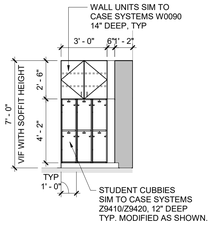
TACTILE CHARACTERS:

*5/8" MINIMUM CAP LETTER HEIGHT
*1" MINIMUM NUMBER HEIGHT
*RAISED 1/32" MINIMUM
*FULL CAPS
*SAN SERIF TYPE STYLE
*CHARACTERS MUST CONSTRAST WITH BACKGROUND

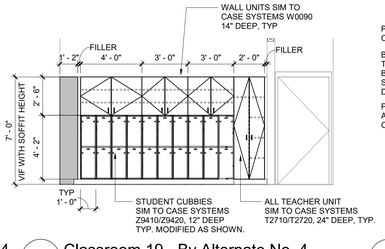
GRADE 2 BRAILLE



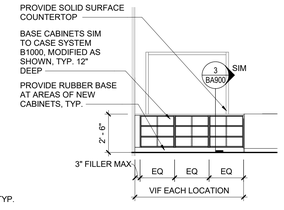
TYPE 5 - Typical Permanent Room Plaque



4 Classroom 19 - By Alternate No. 4
1/4" = 1'-0"



3 Classroom 19 - By Alternate No. 4
1/4" = 1'-0"



2 Typical Casework Elevation at UV
1/4" = 1'-0"

General Plan Notes

A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

B. PARTITION TYPE TAGS APPLY TO ENTIRE LENGTH OF WALL INDICATED BY THAT TAG, REGARDLESS OF OPENINGS WITHIN THAT WALL, TYPICAL UNLESS NOTED OTHERWISE.

1. ALL EXTERIOR WALLS SHALL BE WALL/PARTITION TYPE EW1, TYPICAL UNLESS NOTED OTHERWISE.

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C. PROVIDE BRACING WITHIN CHASES AS FOLLOWS:

1. MASONRY WALLS: FULL-HEIGHT 4" CMU BRACES AT MAXIMUM SPACING OF 11'-0" OC.

2. GYPSUM BOARD/TILE BACKING PANELS ON METAL FRAMING: FULL-HEIGHT 6" METAL STUD BRACES AT MAXIMUM SPACING OF 11'-0" OC.

Keyed Plan Notes

1. REINSTALL EXISTING CEILING PANELS AND GRID.
2. INSTALL LOUVER IN EXG INSULATED PANEL, COORD WITH HVAC DRAWINGS
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Room Finish Key

C1	CARPET - TYPE 1
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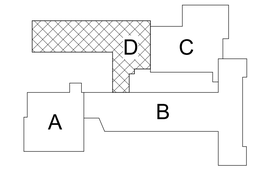
RB	RUBBER BASE
VCT1	VINYL COMPOSITION TILE - TYPE 1
*	SEE REFLECTED CEILING PLAN
	INDICATED CHANGE IN FLOOR FINISH

NOTE: ALL FINISHES LISTED MAY NOT BE REQUIRED FOR THIS PROJECT

FINISHES SHOWN IN ROOM FINISH BOX ARE FOR ALL WALLS AND ENTIRE FLOOR AND CEILING REFER TO EACH ROOM FOR MORE INFORMATION.

RM#	
CLG*	WALL
FLR	BASE

REFER TO DRAWING BA900 FOR GENERAL FINISH NOTES
REFER TO DRAWING BA900 FOR CASEWORK NOTES



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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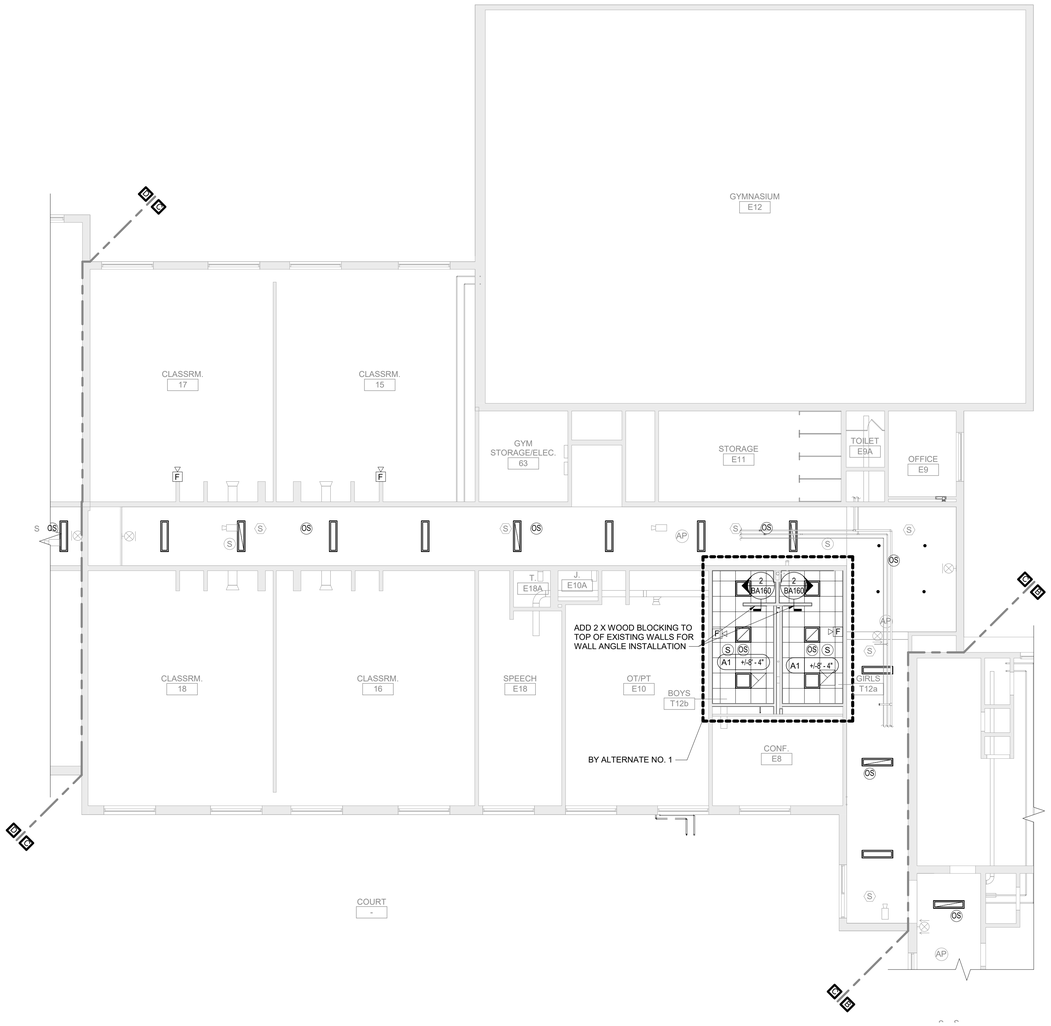
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

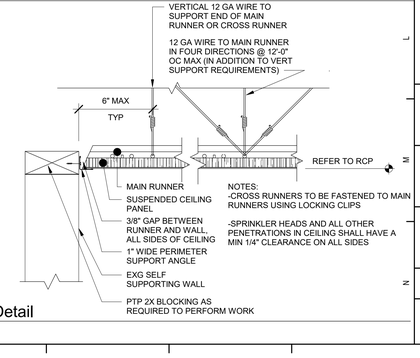
Additions and Alterations to:
Glenham Elementary School

First Floor Plan - Area D

Drawn By:	Date:	Drawing Number:
GCK/ltg	10/28/2022	BA132
Project No.: 279180-22004		



1 First Floor Reflected Ceiling Plan - Area C
1/8" = 1'-0"



2 Ceiling Detail
3" = 1'-0"

General Ceiling Notes

A. LIGHTING AND OTHER CEILING-MOUNTED FIXTURES ARE SHOWN FOR DRAWING CLARITY. COORDINATE ALL CEILING WORK PRIOR TO INSTALLATION OF CEILING GRID.

B. CEILING HEIGHT IS 9'-0" ABOVE FINISHED FLOOR (UNO).

C. CENTER CEILING-MOUNTED ITEMS (LIGHTS, GRILLES, DETECTORS, SPRINKLER HEAD, ETC) WITHIN THE CEILING PANELS AND GRIDS UNLESS THE PANELS ARE SCORED. CENTER ITEMS WITHIN THE PATTERN OF SCORED PANELS.

D. PROVIDE EXPANSION JOINT (EJ) COVERS IN CEILINGS AND SOFFITS AT EJ LOCATIONS.

E. PROVIDE CONTROL JOINTS IN GYPSUM BOARD CEILINGS AND SOFFITS AS DETAILED ON DRAWINGS (MAXIMUM 20'-0" OC, EVENLY SPACED, TYP UNO).

F. PATCH CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK TO MATCH ADJACENT CONSTRUCTION PRIOR TO PAINTING.

G. X | 9'-0" DESIGNATES BOTTOM OF CEILING ABOVE FINISHED FLOOR AT THAT POINT UNO. DESIGNATION "ME" INDICATES MATCH EXISTING CEILING HEIGHT.

H. AT ALL LOCATIONS OF GYPSUM CEILINGS - PROVIDE 24" X 24" CONCEALED FLANGE ACCESS DOOR REGARDLESS OF LOCATION OR REQUIREMENT FOR ACCESS TO EQUIPMENT.

Ceiling Types

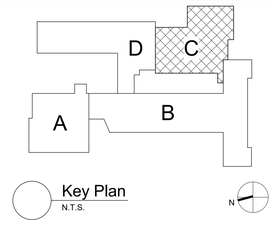
A1 | X'-X" ACOUSTIC PANEL CEILING

A2 | X'-X" ACOUSTIC PANEL CEILING

B1 | X'-X" PAINTED 1/2" EXTERIOR GRADE GYPSUM CEILING ON SUPPORT MATERIALS (GRID SUSPENSION SYSTEM, TYP UNO)

NOTE: AT AREAS WITH "+/-", THE INTENT IS TO MATCH EXISTING, VERIFY IN FIELD.

REFER TO BA130 SERIES DWGS FOR REINSTALLATION OF SALVAGED CEILING AREAS.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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

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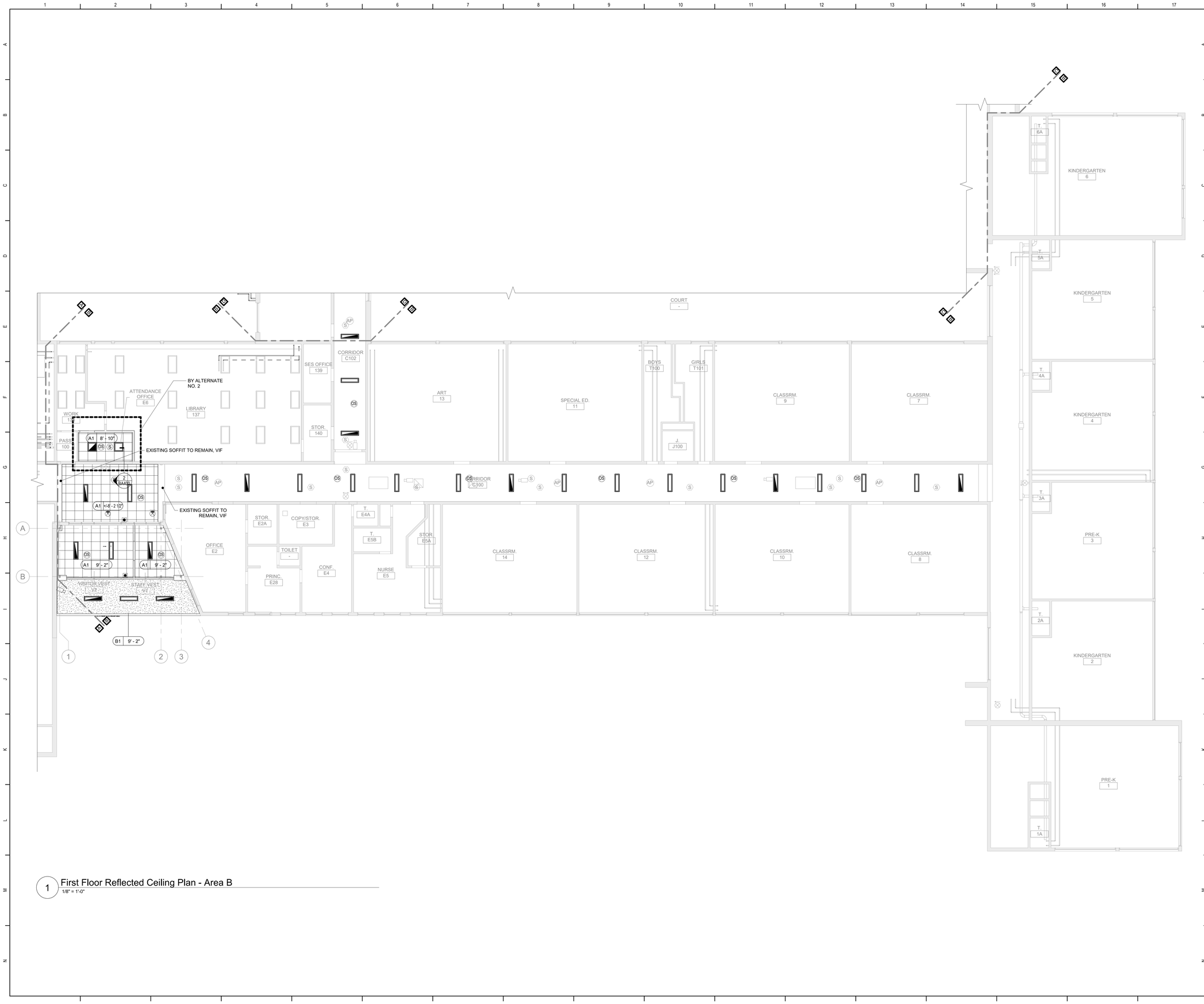
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

First Floor Reflected Ceiling Plan - Area C

Drawn By:	Date:	Drawing Number:
GCK/ltg	10/28/2022	BA160
Project No.: 279180-22004		



1 First Floor Reflected Ceiling Plan - Area B
1/8" = 1'-0"

General Ceiling Notes

A. LIGHTING AND OTHER CEILING-MOUNTED FIXTURES ARE SHOWN FOR DRAWING CLARITY. COORDINATE ALL CEILING WORK PRIOR TO INSTALLATION OF CEILING GRID.

B. CEILING HEIGHT IS 9'-0" ABOVE FINISHED FLOOR (UNO).

C. CENTER CEILING-MOUNTED ITEMS (LIGHTS, GRILLES, DETECTORS, SPRINKLER HEAD, ETC) WITHIN THE CEILING PANELS AND GRIDS UNLESS THE PANELS ARE SCORED. CENTER ITEMS WITHIN THE PATTERN OF SCORED PANELS.

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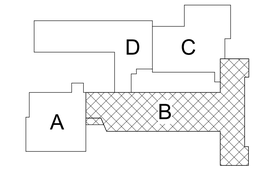
A2 X'-X" ACOUSTIC PANEL CEILING

B1 X'-X" PAINTED 1/2" EXTERIOR GRADE GYPSUM CEILING ON SUPPORT MATERIALS (GRID SUSPENSION SYSTEM, TYP UNO)

NOTE: AT AREAS WITH "+/-", THE INTENT IS TO MATCH EXISTING, VERIFY IN FIELD.

REFER TO BA130 SERIES DWGS FOR REINSTALLATION OF SALVAGED CEILING AREAS.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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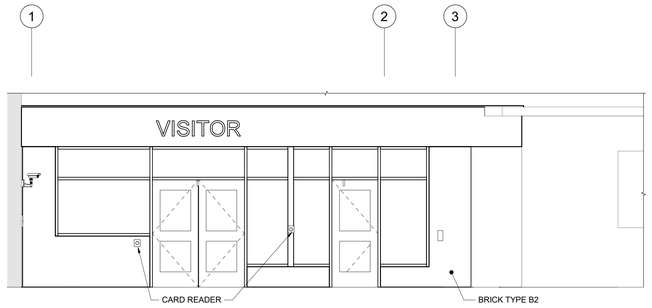
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

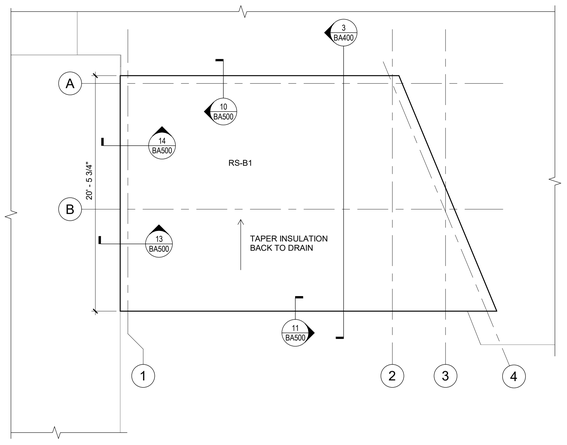
Additions and Alterations to:
Glenham Elementary School

First Floor Reflected Ceiling Plan - Area B

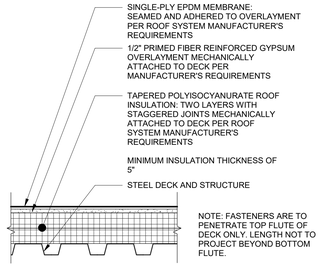
Drawn By:	Date:	Drawing Number:
GCK/ltg	10/28/2022	BA161
Project No.: 279180-22004		



4 Main Entry Elevation
1/4" = 1'-0"

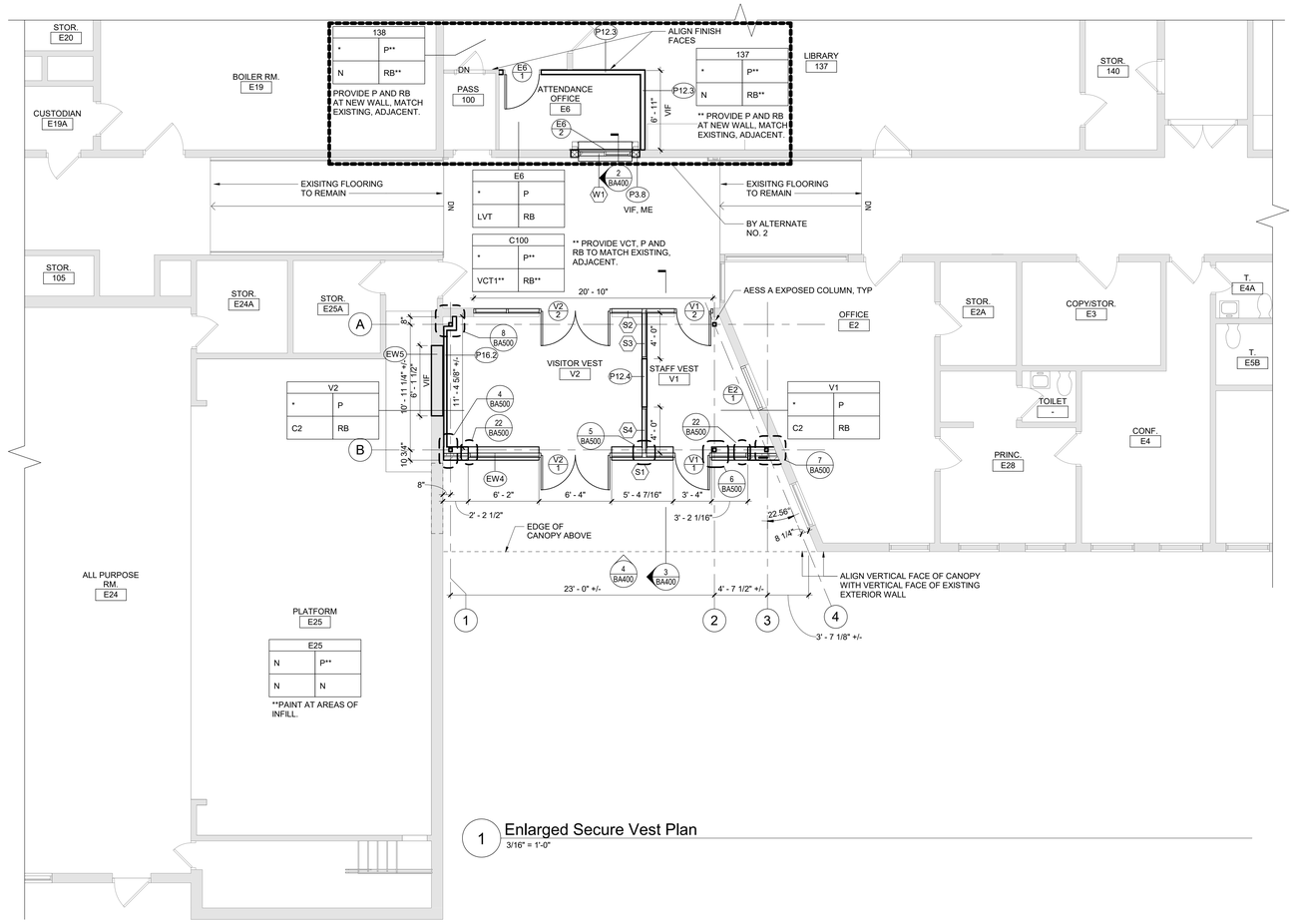


5 Roof Plan
3/16" = 1'-0"

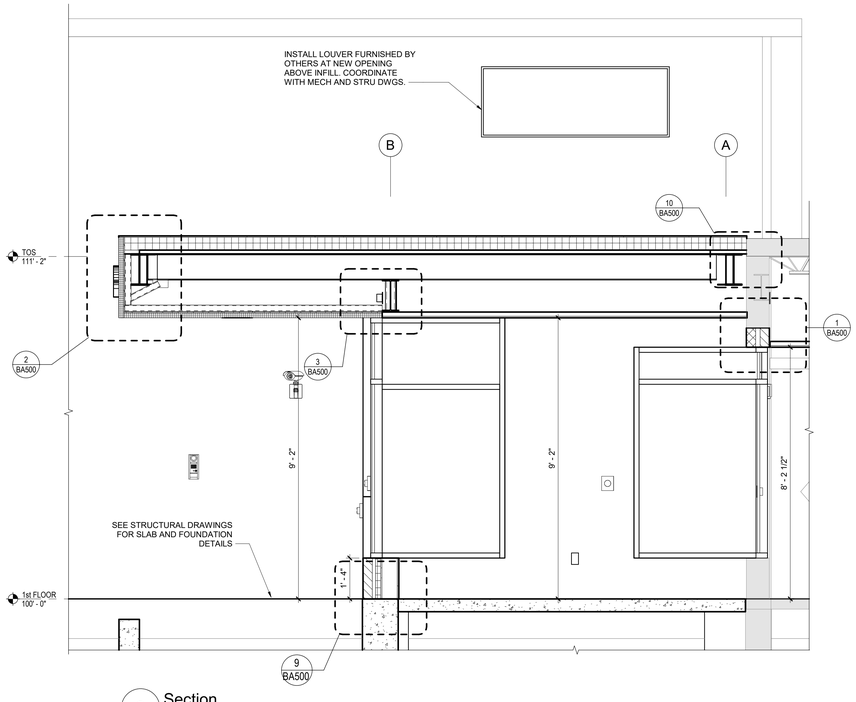


ROOFING THERMAL PERFORMANCE R=25

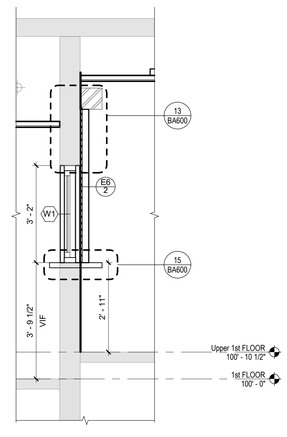
6 Roof System RS-B1
1 1/2" = 1'-0"



1 Enlarged Secure Vest Plan
3/16" = 1'-0"



3 Section
1/2" = 1'-0"



2 Storefront 1 Section
1/2" = 1'-0"

Room Finish Key

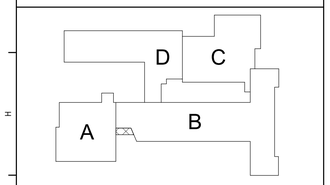
C1	CARPET - TYPE 1
C2	CARPET - TYPE 2
CFT1	CERAMIC FLOOR TILE - TYPE 1
CT	CERAMIC TILE COVE BASE
CWT1	CERAMIC WALL TILE - TYPE 1
LVT	LUXURY VINYL TILE
MCS	MOISTURE COMTROL SYSTEM
N	NO WORK REQUIRED
P	PAINT SURFACE(S) INCLUDING SOFFITS
RB	RUBBER BASE
VCT1	VINYL COMPOSITION TILE - TYPE 1
*	SEE REFLECTED CEILING PLAN
	INDICATED CHANGE IN FLOOR FINISH

NOTE: ALL FINISHES LISTED MAY NOT BE REQUIRED FOR THIS PROJECT

FINISHES SHOWN IN ROOM FINISH BOX ARE FOR ALL WALLS AND ENTIRE FLOOR AND CEILING REFER TO EACH ROOM FOR MORE INFORMATION.

RM#	
CLG*	WALL
FLR	BASE

REFER TO DRAWING BA900 FOR GENERAL FINISH NOTES
REFER TO DRAWING BA900 FOR CASEWORK NOTES



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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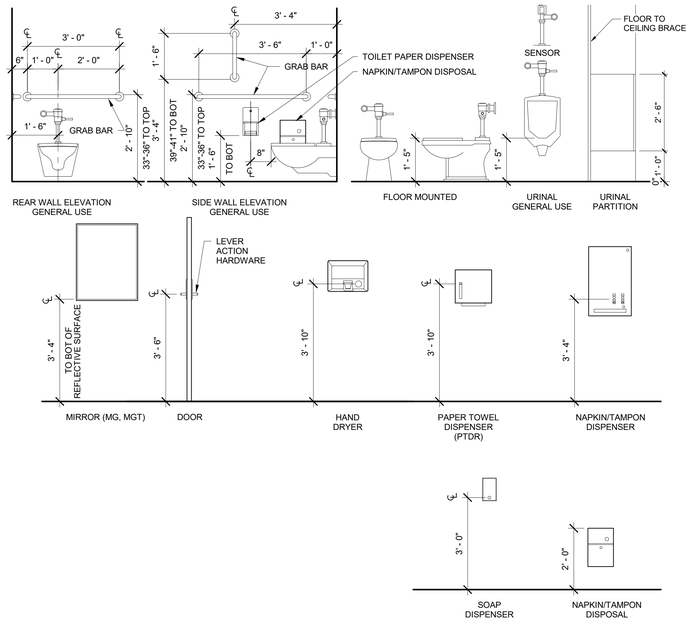
Beacon City School District
Beacon, New York

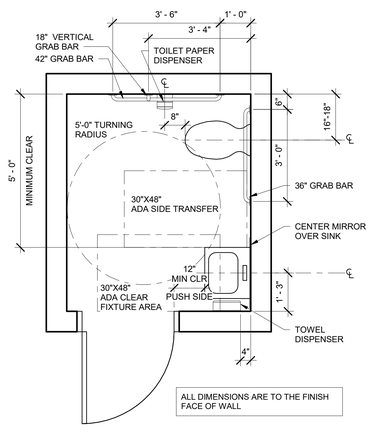
Additions and Alterations to:
Glenham Elementary School

Enlarged Vestibule Plans / Elevations / Sections

Drawn By:	Date:	Drawing Number:
GCK/ltg	10/28/2022	BA400
Project No.: 279180-22004		

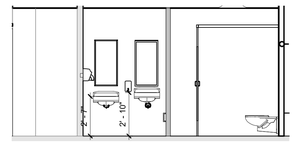


10 Toilet Accessories - Mounting Heights 7th Gr - Adult
1/2" = 1'-0"

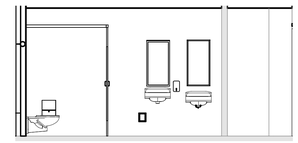


- DIMENSIONS IN DETAIL ARE TO FACE OF FINISH
- FOR METAL STUD CONSTRUCTION ADJUST ENLARGED TOILET ROOM PLANS TO INCORPORATE GWB AND CERAMIC TILE

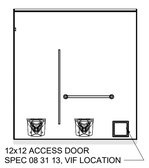
11 Typical ADA Clearances
1/2" = 1'-0"



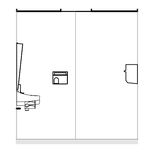
6 Interior Elevation - Boys
1/4" = 1'-0"



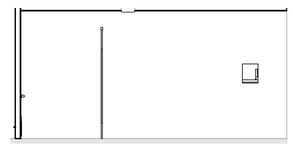
2 Interior Elevation - Girls
1/4" = 1'-0"



7 Interior Elevation - Boys
1/4" = 1'-0"

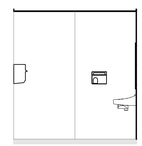


3 Interior Elevation - Girls
1/4" = 1'-0"

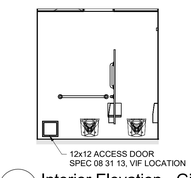


8 Interior Elevation - Boys
1/4" = 1'-0"

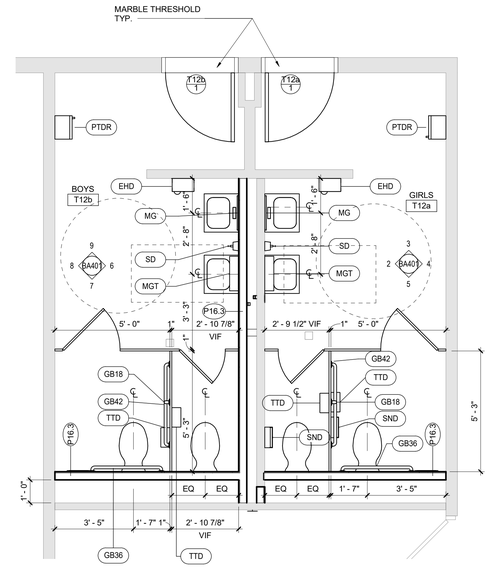
4 Interior Elevation - Girls
1/4" = 1'-0"



9 Interior Elevation - Boys
1/4" = 1'-0"



5 Interior Elevation - Girls
1/4" = 1'-0"

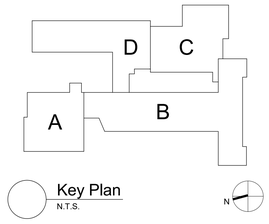


1 Enlarged ADA Bathrooms Plan - By Alternate No. 1
3/8" = 1'-0"

Toilet Room Accessory Schedule

ITEM	DESCRIPTION	COMMENTS
GB18	18" GRAB BAR - VERTICAL	
GB36	36" GRAB BAR - HORIZONTAL	
GB42	42" GRAB BAR - HORIZONTAL	
EHD	ELECTRIC HAND DRYER - STANDARD	
MG	MIRROR	1'-6" x 3'-0"
MGT	MIRROR - TILT	1'-6" x 3'-0"
PTDR	PAPER TOWEL DISPENSER - ROLL	OWNER FURNISHED, CONTRACTOR INSTALLED
SND	SANITARY NAPKIN DISPOSAL	
SD	SOAP DISPENSER - VERTICAL	OWNER FURNISHED, CONTRACTOR INSTALLED
TTD	TOILET TISSUE DISPENSER - JUMBO	OWNER FURNISHED, CONTRACTOR INSTALLED

REFER TO DRAWING BA900 FOR GENERAL FINISH NOTES
REFER TO DRAWING BA900 FOR CASEWORK NOTES



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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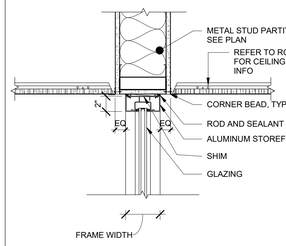
Beacon City School District
Beacon, New York

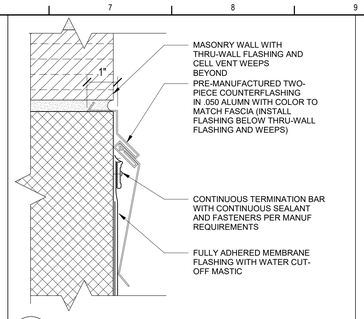
Additions and Alterations to:
Glenham Elementary School

Enlarged Toilet Room Plans / Interior Elevations

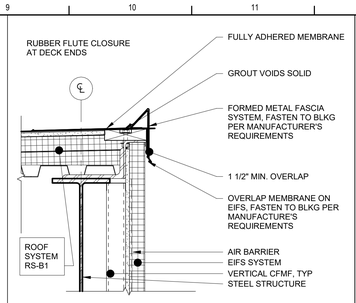
Drawn By:	Date:	Drawing Number:
GCK/ltg	10/28/2022	BA401
Project No.: 279180-22004		



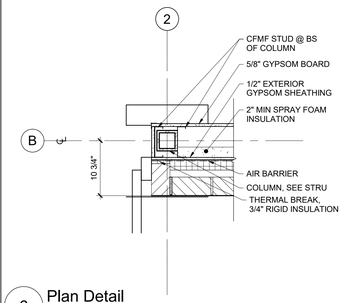
20 Head Detail
1 1/2" = 1'-0"



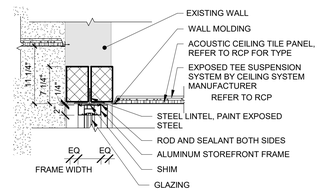
15 Enlarged Flashing Detail
6" = 1'-0"



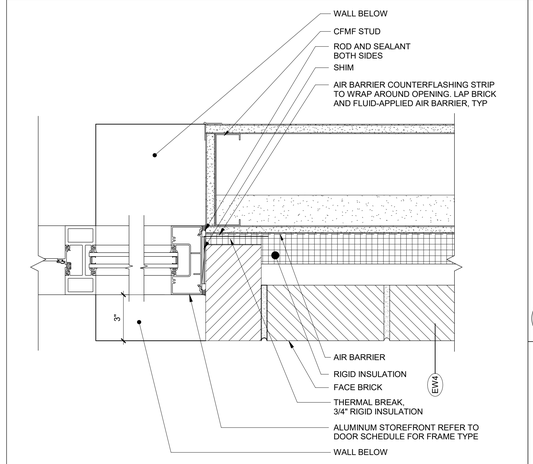
11 Roof Edge Detail
1 1/2" = 1'-0"



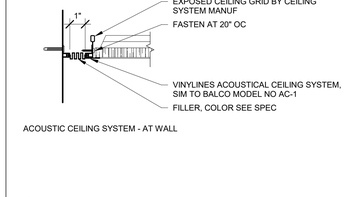
6 Plan Detail
1" = 1'-0"



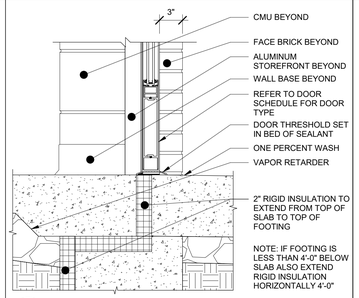
1 Vestibule Ceiling Detail
1" = 1'-0"



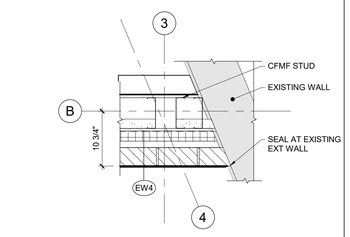
21 Jamb Detail
3" = 1'-0"



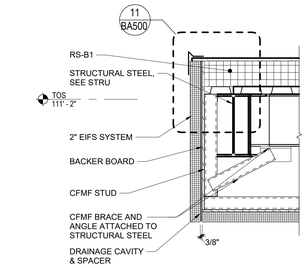
16 1" Expansion Joint Details - Ceiling
3" = 1'-0"



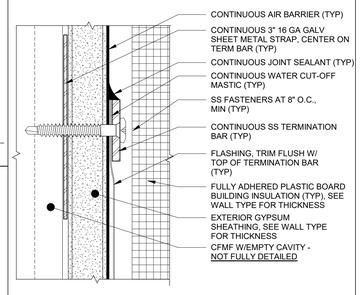
12 Threshold Detail
1 1/2" = 1'-0"



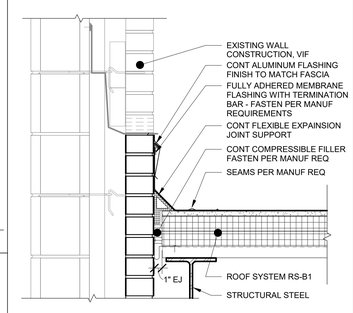
7 Plan Detail
1" = 1'-0"



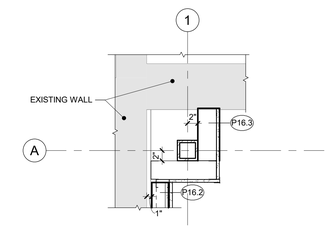
2 Canopy Roof Edge Detail
1" = 1'-0"



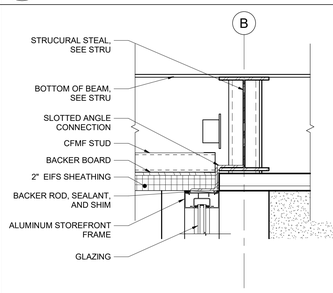
17 Typical Termination Bar at CFMF Wall
12" = 1'-0"



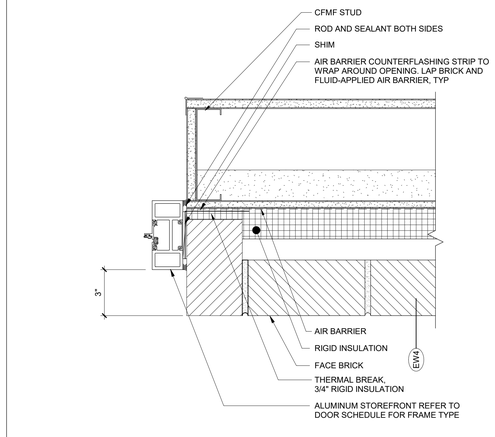
13 Base Flashing at Expansion Joint
1 1/2" = 1'-0"



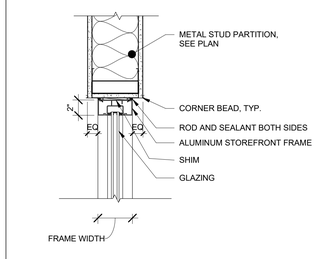
8 Plan Detail
1" = 1'-0"



3 Vestibule Ceiling Detail
1 1/2" = 1'-0"

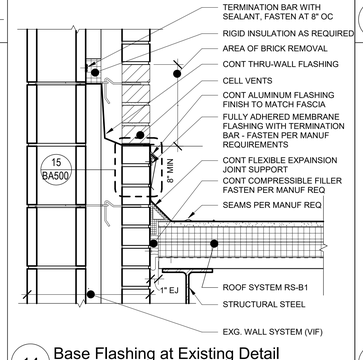


22 Jamb Detail
3" = 1'-0"

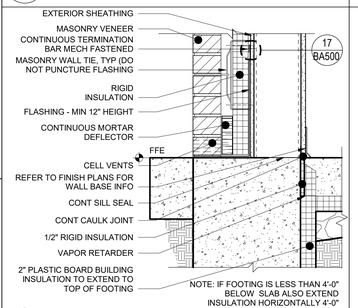


18 Head Detail
1 1/2" = 1'-0"

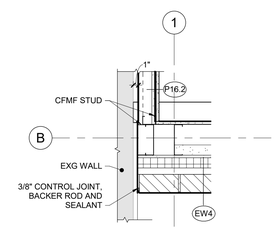
REMOVE 4 COURSES OF EXG BRICK, REPLACE WITH NEW BRICK AND MORTAR TO MATCH EXG (STRUCTURAL INTEGRITY OF WALL TO BE MAINTAINED AT ALL AREAS OF BRICK REMOVAL)



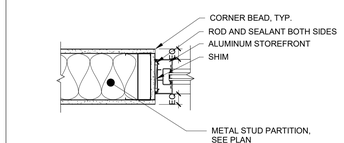
14 Base Flashing at Existing Detail
1 1/2" = 1'-0"



9 Wall Base Detail
1 1/2" = 1'-0"

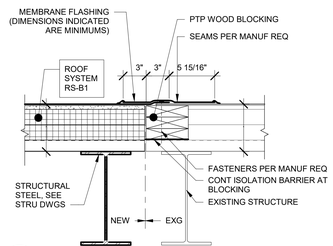


4 Plan Detail
1" = 1'-0"

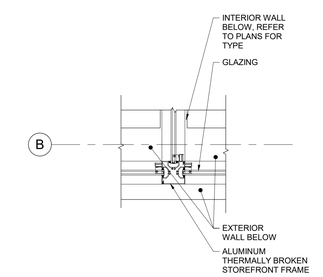


19 Jamb Detail
1 1/2" = 1'-0"

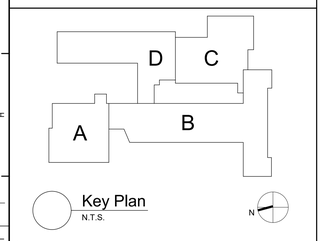
NOTE:
PROVIDE TAPERED EDGE TRANSITION AS REQUIRED TO MEET EXISTING ROOF ELEVATION.



10 Roof Tie In Detail
1 1/2" = 1'-0"



5 Plan Detail
1" = 1'-0"



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

Details

Drawn By:	Date:	Drawing Number:
GCK/tlg	10/28/2022	BA500
Project No.: 279180-22004		

Door Schedule

ROOM NUMBER	DOOR NUMBER	DOOR TYPE	DOOR MATERIAL	DOOR WIDTH	DOOR HEIGHT	DOOR RATING	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME WIDTH	FRAME HEIGHT	FRAME RATING	FRAME GLAZING	FRAME HEAD	FRAME JAMB	FRAME SILL	HDW SET	REMARKS
E2	1	-	-	0"	0"	-	-	F22	HM	4' - 1"	5' - 4"	20 MIN	FRI	J-6	J-6	J-6, SIM	12	
E6	1	N	WD	3' - 0"	7' - 0"	-	FC	F2	HM	3' - 4"	7' - 2"	-	-	H-13	J-13	-	03	
E6	2	CD1	HM	4' - 10"	5' - 0"	60 MIN	-	-	STL	5' - 9 1/4"	5' - 0"	60 MIN	-	13/BA600	14/BA600	15/BA600	13	
T12a	1	F	WD	3' - 0"	7' - 0"	-	-	F2	HM	3' - 4"	7' - 2"	-	-	H-4	J-4	-	14	NOTE 1
T12b	1	F	WD	3' - 0"	7' - 0"	-	-	F2	HM	3' - 4"	7' - 2"	-	-	H-4	J-4	-	14	NOTE 1
V1	1	G2	AL	3' - 0"	7' - 0"	-	FCE/SCL	S1 S2	AL	0"	0"	-	FCE/SCL	3/BA500	6/BA500 AND 22/BA500	12/BA500	E17	NOTE 2
V1	2	G2	AL	3' - 0"	7' - 0"	-	FCE/SCL	S2	AL	0"	0"	-	FCE/SCL	1/BA500	22/BA500	-	E18	NOTE 3
V2	1	G2-PR	AL	3' - 0"	7' - 0"	-	FCE/SCL	S1	AL	0"	0"	-	FCE/SCL	3/BA500	22/BA500	12/BA500	E19	NOTE 2
V2	2	G2-PR	AL	3' - 0"	7' - 0"	-	FCE/SCL	S2	AL	0"	0"	-	FCE/SCL	1/BA500	22/BA500	-	E20	NOTE 3

GENERAL NOTES:
VERIFY ALL DIMENSIONS IN THE FIELD

SPECIFIC NOTES:
- NOT APPLICABLE
1. PROVIDE 10" HIGH BY 20" WIDE LOUVER IN DOOR, VERIFY OPENING DIMENSIONS IN FIELD.
2. PROVIDE CARD READER AND ELECTRONIC HARDWARE, COORD WITH ELEC DWGS AND SECURITY CONTRACTOR
3. PROVIDE CARD READER, ELECTRONIC HARDWARE AND REMOTE RELEASE, COORDINATE WITH ELEC DWGS AND SECURITY CONCTRACTOR

General Window Notes

A. INSULATING GLASS UNITS SHALL BE TYPE FCE/SCL, TYP UNO.

B. RESCUE WINDOWS ARE INDICATED BY THE DESIGNATION "RW" ON CODE DRAWINGS.

C. PROVIDE ALL ALUMINUM FLASHINGS, RECEIVERS, TRIM AND SILLS REQUIRED FOR A COMPLETE AND FINISHED INSTALLATION REGARDLESS OF IF SHOWN ON DRAWINGS.

D. REFER TO WINDOW TREATMENTS AS SHOWN ON DRAWINGS.

E. GLAZING SYSTEMS FRAME TYPE KEY:
F HOLLOW METAL
S ALUMINUM STOREFRONT
W ALUMINUM WINDOWS

F. PROVIDE INTERNAL STEEL REINFORCEMENT TO WINDOW, STOREFRONT SYSTEM AS REQUIRED TO COMPLY WITH WIND LOADING OR OTHER DESIGN CRITERIA, OR AS RECOMMENDED BY MANUFACTURER.

G. ALUMINUM WINDOW, STOREFRONT FRAME EXTRUSIONS ARE INTENDED AS GENERIC GRAPHIC REPRESENTATIONS ONLY.

General Door Notes

A. SEE DWGS BA601 FOR ADDITIONAL INFORMATION AND DETAILS.

B. HARDWARE ON DOORS FROM SPACES OF PUPIL OCCUPANCY SHALL BE A TYPE WHICH WILL ALWAYS PERMIT THE DOOR TO BE OPENED FROM THE INSIDE WITHOUT DIRECT MANIPULATION OF ANY TYPE LOCKING DEVICE.

C. METAL VISION PANEL TRIM SHALL BE PAINTED SAME COLOR AS DOOR FRAMES.

D. ALL DOORS WITH ELECTRO-MAGNETIC HOLD OPEN DEVICES SHALL SWING TOWARDS ADJACENT WALLS. COORDINATE ALL INSTANCES WITH CONTRACTOR RESPONSIBLE FOR ELECTRICAL WORK, AND SEE ELECTICAL DWGS.

E. APPLY CONTINOUS JOINT SEALANT TO ALL JOINTS BETWEEN FRAMES AND WALLS, TYP ALL.

F. PAINT ALL HM DOORS AND FRAMES.

G. PROVIDE LINTELS AT ALL DOOR AND WINDOW OPENINGS IN ACCORDANCE WITH LINTEL SCHEDULE ON STRUCTURAL DWGS.

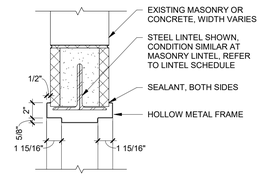
H. PROVIDE MARBLE THRESHOLDS AT ALL TOILET ROOMS WHERE ADJACENT FINISH IS CERAMIC TILE.

J. NOTE THAT DUE TO REQUIREMENTS IN THE BCNYS. SOME FIRE RESISTANCE RATINGS MAY DIFFER BETWEEN DOORS (AND ITS GLASS, IF ANY) AND THAT DOOR'S FRAME ESPECIALLY IF THAT FRAME HAS GLASS (SIDELITES; TRANSOMS; ETC).

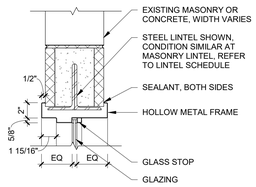
K. VERIFY SIZES OF ALL EXISTING OPENINGS IN SCHEDULE PRIOR TO FIRST SUBMISSION OF SHOP DRAWINGS. NOTIFY ARCHITECT IF ANY ARE LESS THAN CODE MINIMUM HEIGHT OF 6'-8". ASSUME FOR BIDDING ALL EXISTING OPENINGS ARE AS NOTED IN THE SCHEDULE (VIF, TYP).

L. MATERIAL DESIGNATION KEY:
FRP FIBERGLASS REINFORCED PLASTIC
HM HOLLOW METAL
WD WOOD
AL ALUMINUM
STL STEEL
EXG EXISTING

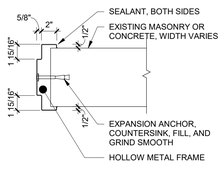
M. ADDITIONAL DOOR SCHEDULE DESIGNATIONS:
* EXISTING TO REMAIN
\- NOT APPLICABLE
NOT APPLICABLE OR TO BE COORDINATED WITH STOREFRONT TYPE.



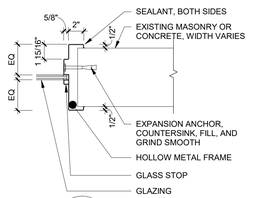
H-4



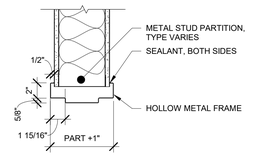
H-6



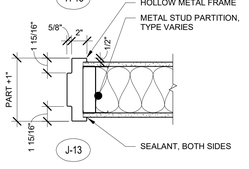
J-4



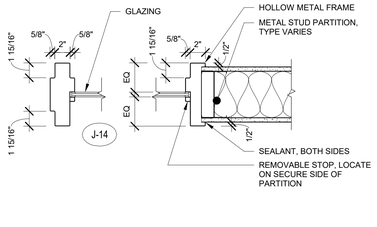
J-6



H-13

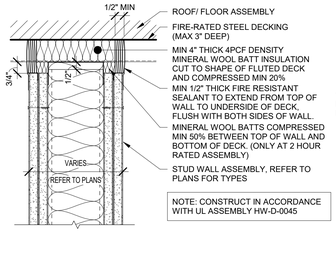


J-13

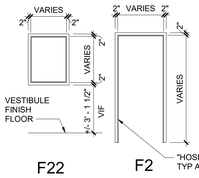


J-14

12 Hollow Metal Frame Details
1 1/2" = 1'-0"

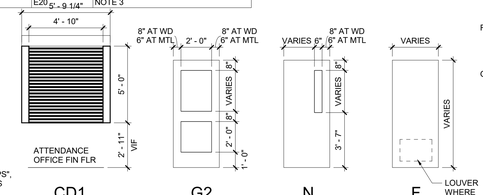


9 Typical Top of Wall Assembly (Rated)
3" = 1'-0"



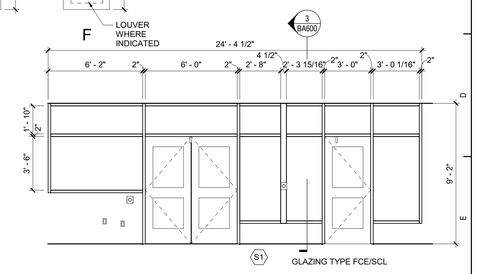
F22 F2

FRAME TYPES

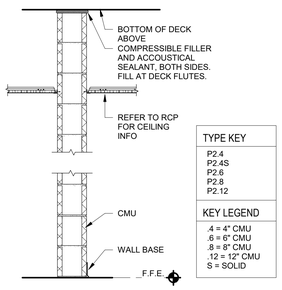


CD1 G2 N F

DOOR TYPES



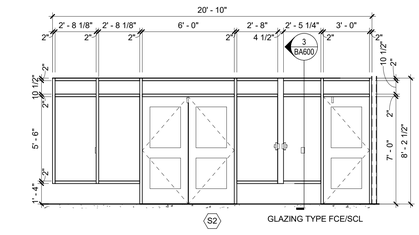
1 Storefront S1
1/4" = 1'-0"



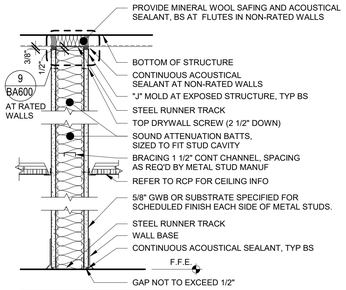
TYPE KEY
P2.4 P2.4S P2.6 P2.8 P2.12

KEY LEGEND
.4 = 4" CMU .6 = 6" CMU .8 = 8" CMU .12 = 12" CMU S = SOLID

6 Partition Type P2
3/4" = 1'-0"

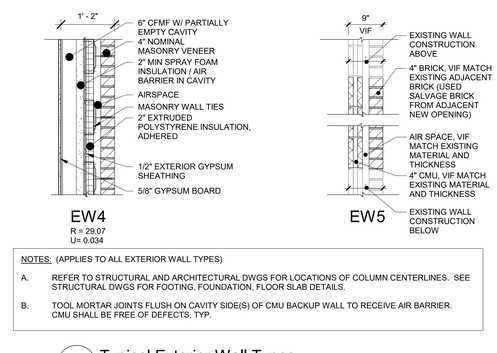


2 Storefront S2
1/4" = 1'-0"



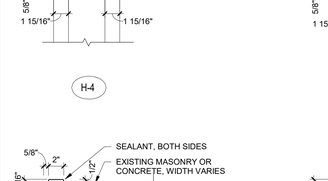
TYPE KEY	KEY LEGEND
P12.3, P12.4, AND P12.6 (NO RATING) P13.3 UL DESIGN #U465 (1 HOUR) P13.4 UL DESIGN #U465 (1 HOUR) P13.6 UL DESIGN #U465 (1 HOUR)	.3 = 3-5/8" MTL STUDS .4 = 4" MTL STUDS .6 = 6" MTL STUDS

7 Metal Stud Partition Type P12 and P13
1 1/2" = 1'-0"

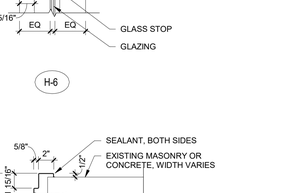


4 W1
1/4" = 1'-0"

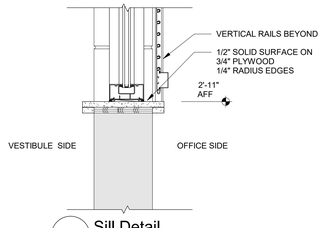
3 Storefront S3 and S4
1/4" = 1'-0"



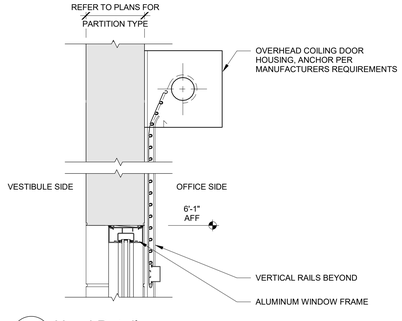
16 Jamb Detail
6" = 1'-0"



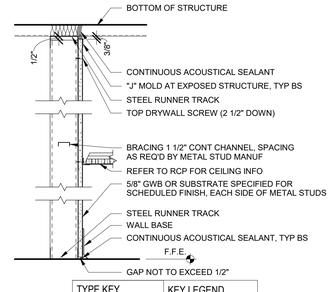
14 Head Detail
1 1/2" = 1'-0"



15 Sill Detail
1 1/2" = 1'-0"



13 Head Detail
1 1/2" = 1'-0"



TYPE KEY	KEY LEGEND
P16.2 P16.3 P16.4 P16.6	.2 = 2-5/8" MTL STUDS .3 = 3-5/8" MTL STUDS .4 = 4" MTL STUDS .6 = 6" MTL STUDS

8 Metal Stud Partition Type P16
1 1/2" = 1'-0"

EW4
R = 29.07
U= 0.034

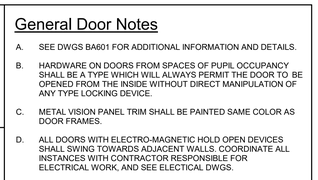
EW5

NOTES: (APPLIES TO ALL EXTERIOR WALL TYPES)

A. REFER TO STRUCTURAL AND ARCHITECTURAL DWGS FOR LOCATIONS OF COLUMN CENTERLINES. SEE STRUCTURAL DWGS FOR FOOTING, FOUNDATION, FLOOR SLAB DETAILS.

B. TOOL MORTAR JOINTS FLUSH ON CAVITY SIDE(S) OF CMU BACKUP WALL TO RECEIVE AIR BARRIER. CMU SHALL BE FREE OF DEFECTS, TYP.

5 Typical Exterior Wall Types
3/4" = 1'-0"



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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

BID SET

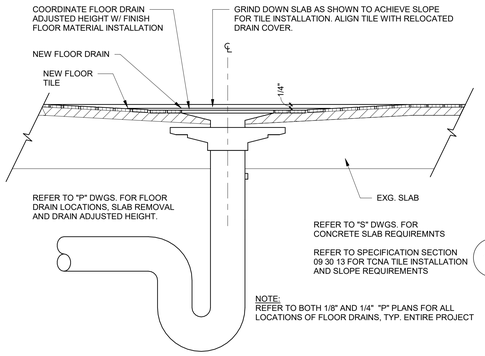
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

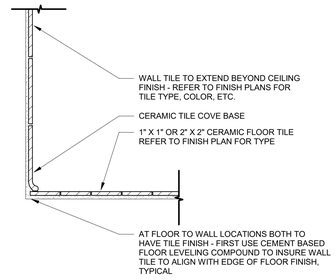
Additions and Alterations to:
Glenham Elementary School

Door Schedule, Door and Window Types, and Details

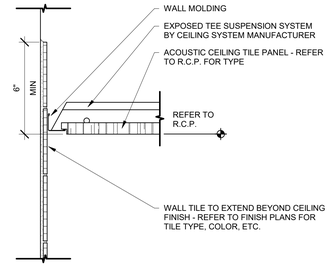
Drawn By:	Date:	Drawing Number:
GCK/ltg	10/28/2022	BA600
Project No.: 279180-22004		



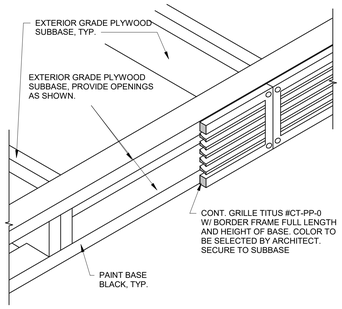
15 Existing Drain Section
3" = 1'-0"



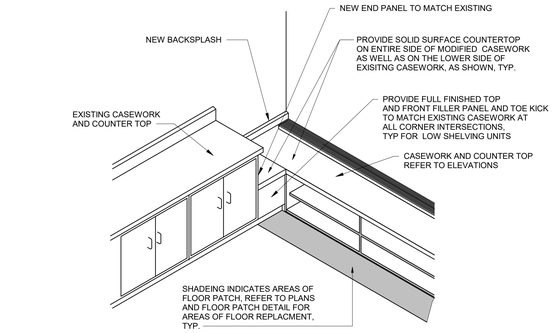
10 Ceramic Tile Base at Ceramic Floor With Wall Tile
3" = 1'-0"



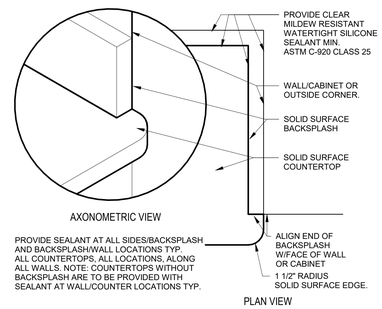
11 Ceramic Wall Tile at Acoustic Ceiling
3" = 1'-0"



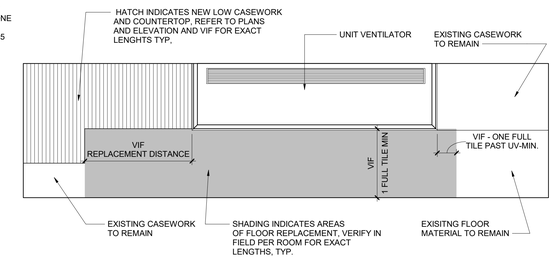
6 Base/ Grille Detail
3" = 1'-0"



1 TYP. Corner FIller @ UV Casework Detail
3/4" = 1'-0"

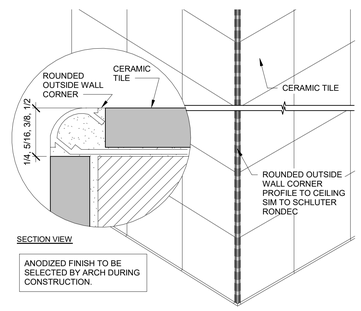


7 Solid Surface Countertop Edge Detail
3" = 1'-0"

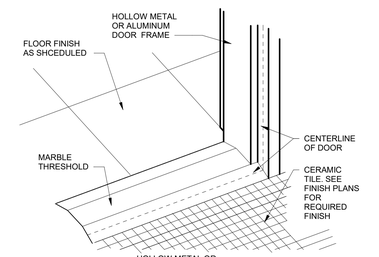


2 TYP. Floor Patch at UV Replacement Detail
3" = 1'-0"

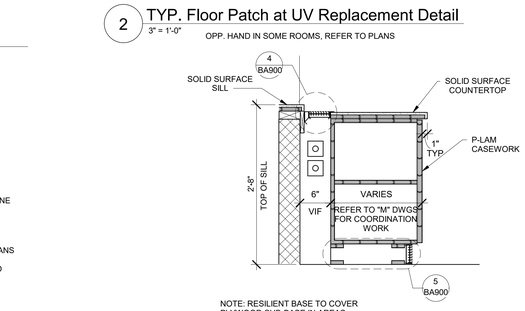
OPP. HAND IN SOME ROOMS, REFER TO PLANS



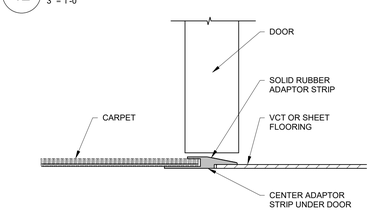
12 Outside Corner/ Rounded Profile
3" = 1'-0"



8 ADA Marble Threshold Detail
1 1/2" = 1'-0"

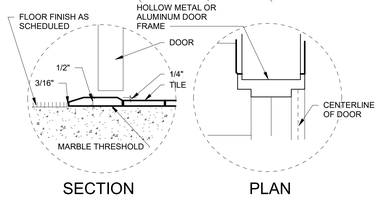


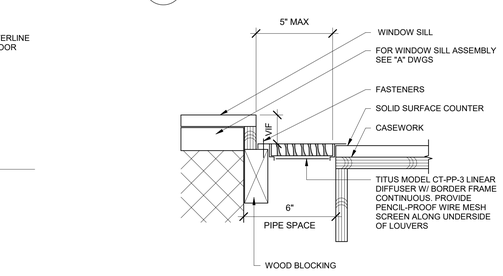
3 Casework/ Fin Tube Sections
1" = 1'-0"



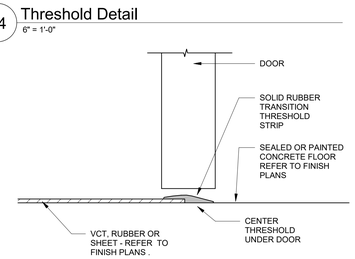
NOTE:
REFER TO SPECIFICATIONS FOR TRANSITION AND TYPES
REFER TO FINISH PLANS FOR ALL LOCATIONS, TYPICAL.
THRESHOLD TO MEET ALL ADA CRITERIA
RATED DOOR UNDERCUT DISTANCE TO MEET REQUIRED NFPA CRITERIA

14 Threshold Detail
6" = 1'-0"



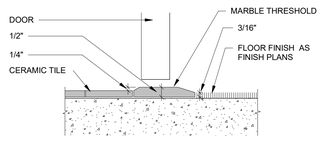


4 Grille Detail
3" = 1'-0"



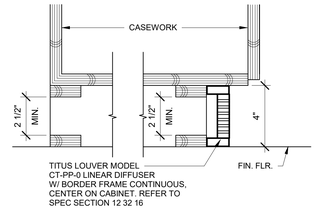
NOTE:
REFER TO SPECIFICATIONS FOR TRANSITION TYPES.
REFER TO FINISH PLANS FOR ALL LOCATIONS, TYPICAL .
THRESHOLD TO MEET ALL ADA CRITERIA
RATED DOOR UNDERCUT DISTANCE TO MEET REQUIRED NFPA CRITERIA.

13 Threshold Detail
6" = 1'-0"



NOTE:
REFER TO SPECIFICATION FOR THRESHOLD TYPES.
REFER TO FINISH PLAN FOR LOCATIONS, TYPICAL
THRESHOLD TO MEET ADA CRITERIA AND REQUIREMENTS.
RATED DOOR UNDERCUT DISTANCE TO MEET REQUIRED NFPA CRITERIA

9 ADA Marble Threshold Detail
12" = 1'-0"



5 Base Detail
3" = 1'-0"

General Finish Notes

ALL FINISH PRODUCTS ARE TO BE INSTALLED IN ACCORDANCE WITH CONTRACT SPECIFICATION AND MANUFACTURES INSTRUCTIONS. REFER TO SPECIFICATIONS AND FINISH DETAILS FOR ADDITIONAL INFORMATION ON INSTALLATION OF SPECIFIED MATERIALS.

A. ALL PAINTS FOR INTERIOR AND EXTERIOR ARE TO BE APPLIED IN ACCORDANCE WITH SPECIFICATION SECTION 09 91 00 AND 09 96 00.

B. ALL EXPOSED STRUCTURES, INCLUDING BUT NOT LIMITED TO PIPING AND FIREPROOFING, CONDUIT, AND ALL ASSOCIATED EQUIPMENT ARE TO BE PAINTED.

C. APPLY PAINT TO BOTH NEW AND EXISTING ITEMS IN ALL AREAS INDICATED WITH A FINISH BOX AND/OR NOTES - THESE ITEMS ARE INCLUDING BUT ARE NOT LIMITED TO:
- FEC 'S, LADDERS, BEAMS, DOOR/FRAMES - BOTH SIDES
GLAZING FRAMES IN DOOR/WALLS- BOTH SIDES, ALL ITEMS ARE TO BE ACCENT COLORS.

D. PATTERNS FOR FLOORS AND WALLS ARE ISSUED DURING THE CONSTRUCTION PHASE. DRAWINGS INCLUDING ALL ACCENT LOCATIONS. SUBMIT SHOP DRAWINGS SHOWING DETAILED LAYOUTS OF EACH AREA, INCLUDING EDGES AND TRANSITIONS, ALL LAYOUTS ARE TO BE CENTERED IN EACH ROOM UNO - TYP ALL DRAWINGS. ABOVE REQUIREMENTS ARE TO INCLUDE BUT NOT LIMITED TO:

- CERAMIC TILE, BOTH WALL AND FLOOR.
- TERRAZZO AND BASE
- CARPET
- VCT
-LVT
- RUBBER

E. FIELD AND ACCENT PAINT ARE ISSUED DURING THE CONSTRUCTION PHASE -CONTRACTOR IS TO ASSUME ALL FIELD AND ACCENT COLORS ARE DIFFERENT ROOM TO ROOM. AS WELL AS WITHIN EACH ROOM, REQUIREMENTS ARE TO INCLUDE BUT ARE NOT LIMITED TO:

- WALL, FIELD COLOR
- WALL, ACCENT COLOR
- SOFFITS, ACCENT COLOR
- DOOR AND WINDOW FRAMES, ACCENT COLOR
- EXPOSED COLUMNS, ACCENT COLOR
- EXPOSED DECKS, ACCENT COLOR
- EXPOSED JOISTS, ACCENT COLOR
- EXPOSED DUCTWORK, ACCENT COLOR

F. PROVIDE PAINT AT ALL NEW SOFFITS, REFER TO REFLECTIVE CEILING PLANS FOR ADDITIONAL LOCATIONS.

G. ALL EXPOSED BRICK, GROUND FACE BLOCK IS TO REMAIN UNPAINTED, UNO.

H. CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PAINTING OVER MURALS ON EXISTING SURFACES.

I. CERAMIC WALL TILE IS TO RUN FLOOR TO 6" ABOVE CEILING UNO.

J. PROVIDE PAINT AND RUBBER BASE AT ALL NEW CHASES, REFER TO NEW WORK PLANS FOR ADDITIONAL LOCATIONS.

K. REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF SLAB DEPRESSIONS. REFER TO FINISH MATERIAL SPECIFICATION SECTIONS FOR SLAB DEPRESSION DEPTH REQUIREMENTS.

L. FOR ALL RENOVATED AREAS REQUIRING FINISH WORK REMOVE, PROTECT AND REINSTALL MOVABLE EQUIPMENT INCLUDING BUT NOT LIMITED TO: BOARD UNITS, LOCKERS GYM EQUIPMENT, SHADES/BLINDS, BOOKCASES ETC. REINSTALL IN ORIGINAL LOCATION, OR AS NOTED ON DRAWINGS, COORDINATE WITH OWNER. REFER TO SPEC SECTION O1 23 00 ALTERATION PROJECT PROCEDURES FOR MORE INFORMATION.

M. FIELD VERIFY ALL CONTROL JOINTS LOCATIONS IN CONCRETE SLAB. LOCATE CONTROL JOINTS IN EXGINEW FLOOR FINISH MATERIAL DIRECTLY ABOVE SLAB JOINTS OR AS RECOMMENDED BY FLOORING MATERIAL MANUFACTURER.
- AT NEW SLABS REFER TO STRUCTURAL DRAWINGS FOR SLAB CONTROL JOINT LOCATIONS.
- AT EXISTING SLABS, FIELD VERIFY LOCATIONS OF EXISTING SLAB CONTROL JOINTS.
- REFER TO FINISH DRAWINGS AND SPECIFICATIONS FOR NEW FLOOR MATERIALS.
COORDINATE FLOOR PATTERNS WITH CONTROL JOINT PRIOR TO SUBMISSION OF REQUIRED FLOOR PATTERN DRAWINGS.

N. INSTALLER IS TO FIELD VERIFY ALL EXG AND NEW FLOOR DRAIN LOCATIONS IN ALL EXG AND NEW SLABS AS PART OF THIS PROJECT.
* REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR DEMO AREAS AND REQUIREMENTS.
* REFER TO PLUMBING DRAWINGS FOR EXG AND NEW FLOOR DRAIN LOCATIONS.
* REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS OF SLAB DEPRESSIONS.
* REFER TO FINISH DRAWINGS FOR LOCATIONS OF NEW FLOOR FINSH MATERIALS AND FLOORING SLOPE.
* REFER TO FINISH MATERIAL SPECIFICATION SECTIONS FOR SLAB DEPRESSION DEPTH REQUIREMENTS.

O. PROVIDE ALL FINISHES AS INDICATED BY ROOM FINISH BOX AND/OR AS NOTED ON DRAWINGS.

General P-Lam Casework Notes

FOR ALL CONTRACTOR RESPONSIBILITIES REFER TO SPECIFICATION SECTION 01 10 00/01 12 00.

A. THE CASEWORK SHOWN ON THE DRAWINGS IS BASED ON CASE SYSTEMS DESIGN CORPORATION.

B. ALL STANDARD CASEWORK DIMENSIONS ARE TO BE MODIFIED TO CORRESPOND WITH THE DIMENSIONS NOTED ON THE DRAWINGS. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CABINETS.

C. MODEL NUMBERS LISTED ON DRAWINGS APPLY TO ELEVATIONS SHOWN. PROVIDE OPPOSITE HAND MODELS WHERE NECESSARY.

D. PROVIDE FULL DEPTH SHELVES AT BASE, WALL AND TALL CABINETS TYP UNLESS NOTED OTHERWISE.

E. BASE AND TALL CABINETS ARE 24 INCHES DEEP, UNO WALL CABINETS ARE 14 INCHES DEEP. UNO BASE CABINET DEPTH DOES NOT INCLUDE 1" COUNTERTOP OVERHANG, TYP.

F. PROVIDE FINISHED ENDS, BACK EXTENSIONS, SCRIBES, AND FINISHED FILLER PANELS ON ALL CABINETS. FILLER PANELS ARE NOT TO EXCEED 3" WIDE, UNLESS NOTED OTHERWISE. PROVIDE OP AND BOTTOM FILLER PANELS AT ALL BASE, WALL @ TALL NITS. SUBMIT SHOP DRAWINGS SHOWING DETAILS OF THESE CONDITIONS.

G. ALL COUNTERTOPS TO BE 1-1/4" SOLID SURFACE WITH 4" HIGH BACKSPLASH, TYP.

J. PROVIDE AT ALL P-LAM UV SHELVING LOCATIONS-REMOVABLE BACKS IN CABINETS AT PLUMBING AND FIN TUBE VALVE LOCATIONS. VERIFY POSITIONS OF VALVES PRIOR TO SHOP FABRICATION OF ALL CABINETS.

H. PROVIDE SHOP DRAWINGS SHOWING LOCATIONS AND DETAILS FOR ALL GRILLES, LOUVERS, REMOVABLE PANELS, VALVE LOCATIONS ETC ASSOCIATED WITH CASEWORK. COORDINATE WITH ALL REQUIRED CONTRACTORS.

I. PROVIDE CABINETS WITH FINISHED SIDES, INCLUDING BUT NOT LIMITED TO, LOCATIONS OF ADJACENT CABINETS OR EQUIPMENT WITH A DEPTH LESS THAN CABINET OR EQUIPMENT.

J. PROVIDE REMOVABLE BACK PANELS AT ALL SINK BASE CABINETS.

K. COUNTERTOP EDGES AT OPEN ENDS AND AT ENDS MEETING TALL SHELVING UNITS WITH A DEPTH LESS THAN COUNTERTOP DEPTH TO BE AS SHOWN, REFER TO DETAIL.

L. PROVIDE CUTS AT ALL CONDITIONS THAT INTERFERE WITH COUNTERTOPS/CABINETS : SCRIBE TO FIT.

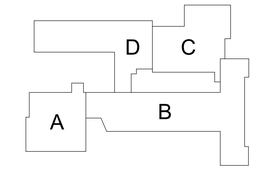
M. PROVIDE ALL CUTOUTS AS SHOWN ON CASEWORK PLANS AND ELEVATIONS OR AS REQUIRED. CUTOUTS ARE TO INCLUDE BUT NOT LIMITED TO: ALL ELEC BOXES, OUTLETS, AND ASSOCIATED WIRING AND FINAL HOOK-UP.

N. PROVIDE BLOCKING AT NEW AND EXISTING GYPSUM BOARD WALLS PER MANUFACTURER RECOMMENDATIONS FOR SUPPORT OF WALL /TALL MOUNTED UNITS.

O. PROVIDE LOCKS AT ALL NEW CASEWORK DOORS/DRAWERS AND FILE UNITS.

P. REFER TO BOTH 1/8" AND 1/4" PLANS FOR LAYOUTS.

Q. PROVIDE ALL STANDARD FEATURES OF CASEWORK UNITS AS INDICATED BY MODEL NUMBER OR AS SHOWN ON PLANS, DETAILS AND ELEVATIONS, INCLUDED BUT NOT LIMITED TO: OUTLETS, SWITCHES, LIGHTS ETC.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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

BID SET

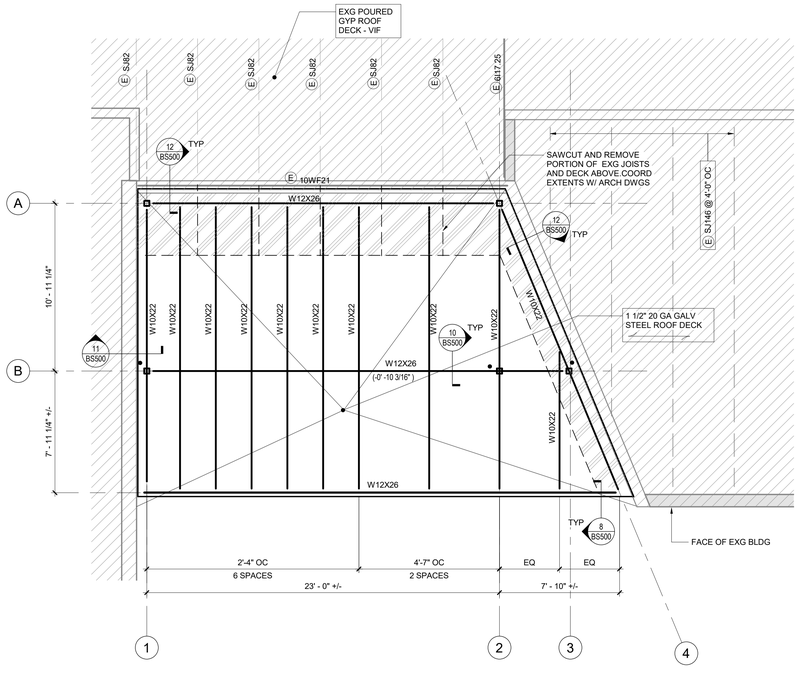
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

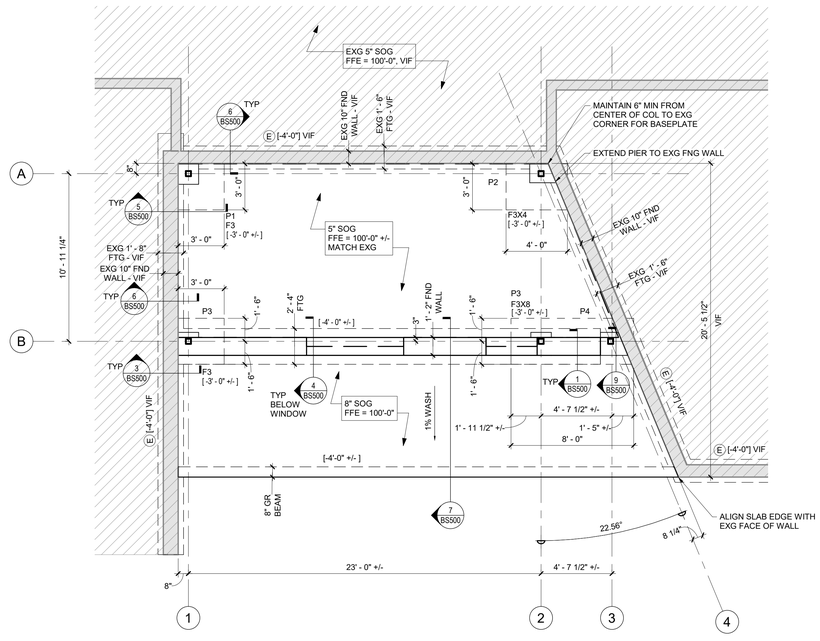
Additions and Alterations to:
Glenham Elementary School

Misc. Details

Drawn By:	Date:	Drawing Number:
MHH	10/28/2022	BA900
Project No.: 279180-22004		



2 Partial Roof Framing Plan - Area B
1/4" = 1'-0"
DATUM FOR EXG TOS IS AT 111'-4 1/2"



1 Partial Foundation Plan - Area B
1/4" = 1'-0"

General Notes:

A. DIMENSIONS AND ELEVATIONS SHOWN ON PLAN AS PLUS/MINUS (+/-) AND VIF ARE TO BE CONSIDERED APPROXIMATE. EXACT VALUES FOR ALL (+/-) AND VIF DIMENSIONS ARE TO BE DETERMINED BY THE CONTRACTOR IN THE FIELD THROUGH A PRELIMINARY BUILDING LAYOUT CONTRACTOR TO VERIFY EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS AND NOTIFY A/E OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK. COORDINATE INFORMATION WITH OTHER TRADES.

B. ALL UNDERGROUND UTILITIES WITHIN THE NEW BUILDING FOOTPRINT ARE TO BE REMOVED PRIOR TO BEGINNING FOUNDATION WORK IN THAT AREA (UNLESS NOTED OTHERWISE). REFER TO SITE DWGS FOR REMOVAL.

C. COORDINATE SIZE, LOCATION AND INVERT ELEVATION OF ALL PIPE SLEEVES PASSING THROUGH FOUNDATION WALLS AND BREAKS IN FOOTINGS WITH OTHER TRADES AND CONTRACT DOCUMENTS.

D. BOTTOM OF NEW FOOTING ELEVATIONS ARE TO MATCH THE BOTTOM OF ADJACENT EXISTING FOOTING ELEVATIONS UNLESS NOTED OTHERWISE.

E. TOP OF EXTERIOR FOOTING ELEVATION IS [-3'-0] FROM DATUM ELEVATION 100'-0", UNLESS INDICATED AS [-XX'-XX] ON PLAN.

F. TOP OF INTERIOR FOOTING ELEVATION IS [-8] FROM DATUM ELEVATION 100'-0", UNLESS INDICATED AS [-XX'-XX] ON PLAN.

G. ALL CONTINUOUS FOOTINGS ARE 2'-0" WIDE UNLESS OTHERWISE NOTED.

H. REFER TO SHEET BS600 FOR GENERAL NOTES, PIER, FOOTING AND COLUMN SCHEDULES.

I. TOP OF FOUNDATION WALL ELEVATION IS EQUAL TO DATUM ELEVATION 100'-0" UNO.

J. TOP OF PIER ELEVATION IS (-8) FROM DATUM ELEVATION 100'-0", UNLESS INDICATED AS (-XX'-XX) ON PLAN.

K. REFER TO SHEETS BS500 FOR TYPICAL FOUNDATION WALL AND SLAB DETAILS.

L. FINISHED FLOOR DATUM ELEVATION OF 100'-0", AS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS, CORRESPONDS TO ELEVATION 232.64', AS SHOWN ON SITE AND SURVEY DRAWINGS.

M. ALL SLABS ON GRADE ARE TO BE 5" THICK, 3500 PSI FIBER REINFORCED CONCRETE UNLESS NOTED OTHERWISE ON PLANS.

N. REFER TO SHEET BS600 FOR GENERAL NOTES, LINTEL SHEDULE AND SPECIFIC LINTEL DETAILS

O. REFER TO SHEET BS500 FOR TYPICAL DETAILS.

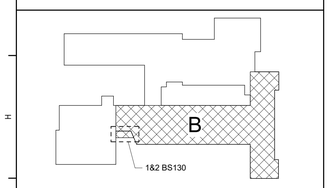
P. REFER TO SHEET BS600 FOR BEAM CONNECTION SCHEDULE.

Q. PROVIDE ALL ROOF AND FLOOR OPENING FRAMES PER DIV 05 SPEC. COORDINATE QUANTITIES, LOCATION, AND SIZE OF OPENINGS WITH OTHERS AND MECH, PLBG, AND ARCH DWGS.

R. CONTINUOUS FASCIA ANGLES ARE REQUIRED AT ALL FLAT ROOF EDGES.

S. ROOF DECK TO BE GALVANIZED 1 1/2" WIDE RIBBED 20 GAUGE CORRUGATED STEEL UNLESS NOTED OTHERWISE.

T. ALL BEAM/JOIST ARE SPACED EQUALLY BETWEEN COLUMN LINE UNO.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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BID SET

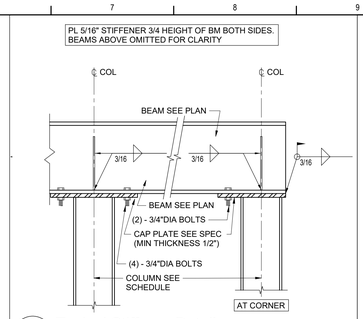
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

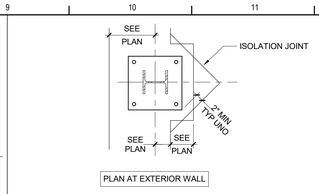
Additions and Alterations to:
Glenham Elementary School

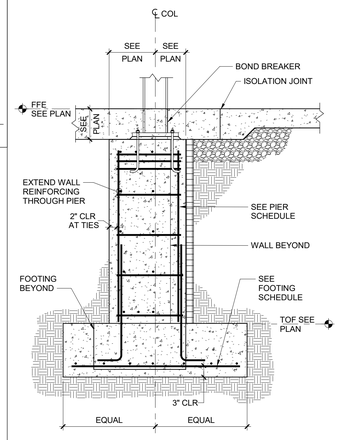
Partial Foundation and Framing Plan - Area B

Drawn By:	Date:	Drawing Number:
DMB/kjr	10/28/2022	BS130
Project No.: 279180-22004		

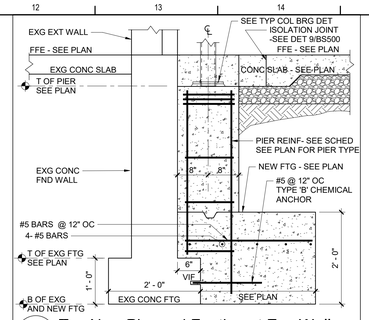


13 Typical Stiffener Detail
1" = 1'-0"



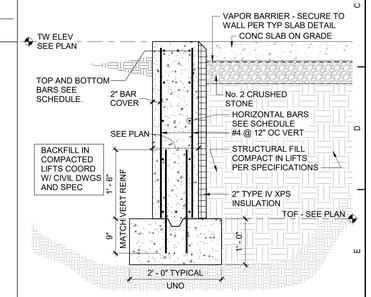


9 Typical Pier in Wall
3/4" = 1'-0"



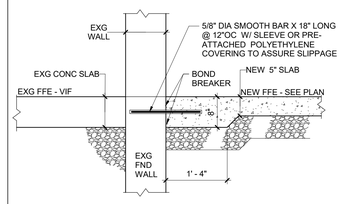
5 Typ New Pier and Footing at Exg Wall
3/4" = 1'-0"

TYPICAL FOUNDATION WALL REINFORCING SCHEDULE		
WALL THICKNESS	HORIZONTAL BARS	TOP AND BOTTOM BARS
8"	#4 @ 12" OF	2-#6
10"	#4 @ 12" EF	3-#6
1'-0"	#4 @ 12" EF	3-#6
1'-2"	#4 @ 12" EF	3-#6
1'-4"	#4 @ 12" EF	3-#6
1'-6"	#4 @ 11" EF	3-#6
1'-8"	#5 @ 15" EF	3-#6
1'-10"	#5 @ 14" EF	3-#6
2'-0"	#5 @ 13" EF	3-#6
2'-2"	#5 @ 12" EF	3-#6
2'-4"	#5 @ 11" EF	3-#6



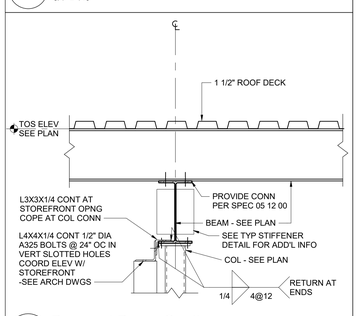
REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCING REQUIRED AT FOOTING STEPS, CORNERS AND INTERSECTIONS.

1 Typ Foundation Wall and Footing
3/4" = 1'-0"

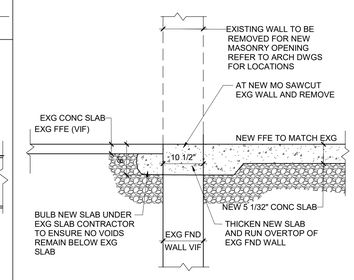


Section At Exg Wall
at Exg Wall To Remain

- SAW CUT CONTROL JOINTS WITHIN 12 HOURS OF CASTING SLAB
- JOINTS TO BE SPACED 15 FEET OC MAXIMUM OR AS NOTED ON PLAN
- VAPOR BARRIER TO BE CONTINUOUS AND OVERLAPPED NOT LESS THAN 6" AT ALL SEAMS. TAPE ALL SEAMS.
- EXTEND VAPOR BARRIER UP THE FACE OF EXTERIOR FOUNDATION WALLS (TERMINATE AT TOP OF SLAB ELEV) ALONG SLAB EDGE, AND SECURE/SEAL VAPOR BARRIER TO WALL WITH APPROVED MASTIC PER SPEC.

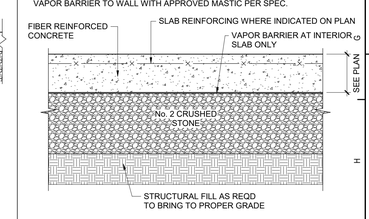


10 Dropped Beam Section
1" = 1'-0"

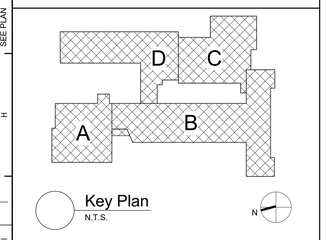


Section At New MO at Exg
at Exg Wall TO Be Removed

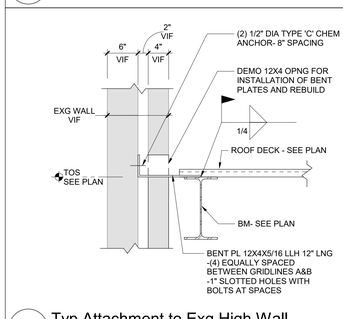
6 Typ New Slab at Existing Edge
3/4" = 1'-0"



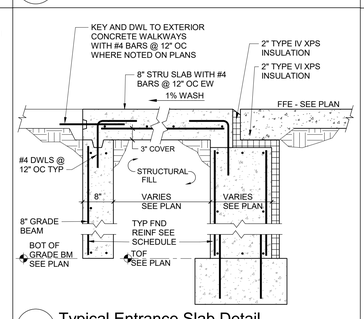
2 Typical Slab on Grade
1 1/2" = 1'-0"



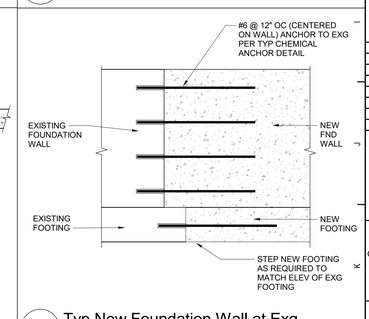
Key Plan
N.T.S.



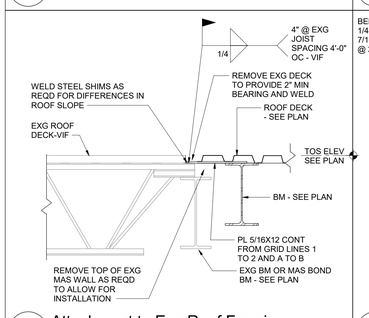
11 Typ Attachment to Exg High Wall
1" = 1'-0"



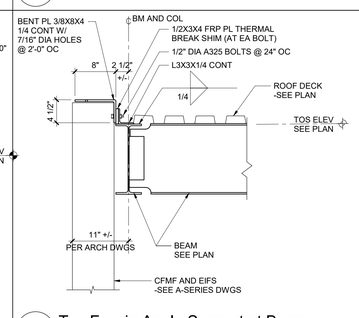
7 Typical Entrance Slab Detail
3/4" = 1'-0"



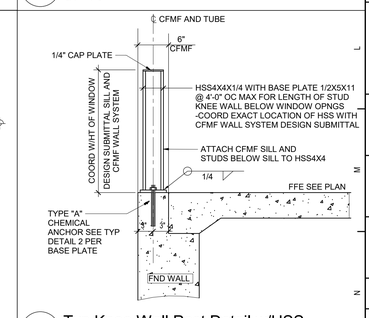
3 Typ New Foundation Wall at Exg
3/4" = 1'-0"



12 Attachment to Exg Roof Framing
1" = 1'-0"



8 Typ Fascia Angle Support at Beam
1" = 1'-0"



4 Typ Knee Wall Post Detail w/HSS
1" = 1'-0"

S.E.D. Control No. 13-02-00-01-0-006-022

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

Typical Details

Drawn By:	Date:	Drawing Number:
DMB/kjr	10/28/2022	BS500
Project No.: 279180-22004		

Column Schedule Area B

TOS FRONT CANOPY			TOS FRONT CANOPY
111' - 3"	HSS4X4X1/2 AESS AT A-2	HSS4X4X1/2	111' - 3"
FFE 1st Floor			FFE 1st Floor
100' - 0"			100' - 0"
Column Locations	A-1, A-2	B-1, B-2, B-4	
BPL SIZE	12"X12"X1"	12"X12"X1"	
BPL TYPE	A	A	
AB TYPE	1	1	

COMPONENTS & CLADDING WIND PRESSURE (PSF)

MEAN ROOF HEIGHT, "h" (FT)	EFFECTIVE WIND AREA (SQ FT)	ROOF											WALLS			
		ZONE 1'		ZONE 1		ZONE 1/1'	ZONE 2			ZONE 3			ZONE 4		ZONE 5	
		MIDDLE INTERIOR		INTERIOR		OVERHANG	EDGE		OVERHANG	CORNER		OVERHANG	INTERIOR		CORNER	
12.00	≤ 10	-24.1	16.0	-42.0	16.0	-37.9	-55.4	16.0	-51.3	-75.4	16.0	-71.4	-26.1	24.1	-32.1	24.1
	20	-24.1	16.0	-39.2	16.0	-37.3	-51.8	16.0	-46.6	-68.3	16.0	-63.1	-25.0	23.0	-30.0	23.0
	50	-24.1	16.0	-35.5	16.0	-36.4	-47.1	16.0	-40.3	-58.9	16.0	-52.1	-23.6	21.6	-27.2	21.6
	100	-24.1	16.0	-32.8	16.0	-35.7	-43.5	16.0	-35.6	-51.8	16.0	-43.8	-22.6	20.6	-25.0	20.6
	≥ 500	-16.3	16.0	-26.3	16.0	-24.6	-35.3	16.0	-24.6	-35.3	16.0	-24.6	-20.1	18.1	-20.1	18.1

NOTES:

1. MEAN ROOF HEIGHT IS MEASURED ABOVE DATUM FFE, ELEVATION = 100'-0".

2. REFER TO ASCE 7-16 FOR DEFINITION OF TERMS. FOR THE DIMENSIONS OF EACH ZONE, REFERENCE FIGURE 30.4-1 IN ASCE 7-16 AND USE "h" FROM ABOVE TABLE TO DETERMINE 0.6h AND 0.2h.

3. THESE TABLES ARE TO BE USED FOR WIND LOAD CONTRIBUTION TO TOTAL LOAD ACTING ON ANY COMPONENT OR CLADDING MEMBER WHICH IS PART OF A ROOF OR EXTERIOR WALL ASSEMBLY. EXAMPLES OF COMPONENTS AND CLADDING INCLUDE, BUT ARE NOT LIMITED TO ROOF JOISTS, WALL STUDS, ROOF DECK FASTENERS, VENEER TIES, WINDOWS, AND THEIR ATTACHMENTS.

4. FOR EFFECTIVE WIND AREA VALUES LISTED IN THE TABLE ABOVE, PRESSURE VALUES MAY INTERPOLATED; OTHERWISE USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE WIND AREA.

5. POSITIVE PRESSURES (+) ACT TOWARDS THE BUILDING, NEGATIVE PRESSURES (-) ACT AWAY FROM THE BUILDING, POSITIVE AND NEGATIVE PRESSURES DO NOT ACT SIMULTANEOUSLY. PRESSURES ARE APPLIED TO THE SURFACE OF THE COMPONENT OR CLADDING.

6. DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLIED BY 0.6 FOR USE WITH SERVICE LEVEL OR ASD DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.

Structural Loads:

A. FLOOR LIVE LOADS PER BCNYS 1607

OCCUPANCY OR USE	UNIFORM	CONCENTRATED
LOBBIES	100 PSF	
OFFICES	50 PSF	2000 LBS
TOILET ROOMS	60 PSF	
PARTITIONS	15 PSF PER 1607.5	

REDUCTION IN LIVE LOADS HAS BEEN APPLIED WHERE PERMITTED PER 1607.11

B. ROOF LIVE LOADS PER BCNYS 1607.13
MINIMUM ROOF LIVE LOAD 20 PSF

C. RAIN LOADS PER BCNYS 1611
RAIN INTENSITY, i 2.75 IN/HR
RAIN LOAD, R 16 PSF

RAIN SURCHARGE LOAD HAS BEEN APPLIED TO AREAS WHERE PONDING OCCURS IN ACCORDANCE WITH BCNYS 1611.1.

D. SNOW LOADS PER BCNYS 1608
GROUND SNOW, P_g (FIGURE 1608.2) 30 PSF
FLAT ROOF SNOW LOAD, P_f (ASCE 7) 23.1 PSF
SNOW EXPOSURE FACTOR, C_e 1.0
THERMAL FACTOR, C_t 1.0
SLOPE FACTOR, C 1.0
SNOW LOAD IMPORTANCE FACTOR, I_S 1.1
DRIFT SURCHARGE, P_d 76 PSF
DRIFT WIDTH, w 16.83 FT

ADDITIONAL SNOW LOADS HAVE BEEN APPLIED TO AREAS WHERE DRIFTING OCCURS IN ACCORDANCE WITH BCNYS 1608.

E. WIND LOAD DESIGN CRITERIA PER BCNYS 1609
BASIC DESIGN WIND SPEED (3 SECOND GUST), V 121 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, V_{asd} 93.7MPH
RISK CATEGORY I I I
EXPOSURE CATEGORY B
INTERNAL PRESSURE COEFFICIENT, GCPi +/- 0.18

F. SEISMIC DESIGN CRITERIA PER BCNYS 1613
RISK CATEGORY I I I
SEISMIC IMPORTANCE FACTOR, I_e 1.25
MAPPED SPECTRAL RESPONSE ACCELERATION
AT SHORT PERIODS, S_S 23.3 %g
AT 1 SECOND PERIODS, S_1 5.7 %g
SITE CLASS D (DEFAULT)
DESIGN SPECTRAL RESPONSE ACCELERATION
AT SHORT PERIODS, S_{DS} 24.8 %g
AT 1 SECOND PERIODS, S_{D1} 9.1 %g
SEISMIC DESIGN CATEGORY B

Foundation Notes:

A. MATERIAL

1. DESIGN BEARING PRESSURE IS ASSUMED TO BE 3,000 PSF. IF OWNERS GEOTECHNICAL ENGINEER DETERMINES THAT INSUFFICIENT BEARING IS ENCOUNTERED AT ELEVATION SHOWN ON PLANS, NOTIFY ARCHITECT BEFORE PROCEEDING.

2. DO NOT PLACE FILL UNTIL SUBMITTAL FOR FILL MATERIAL IS APPROVED BY ARCHITECT.

3. INTERIOR BACKFILL IS TO CONSIST OF STRUCTURAL FILL TO BE WITHIN 6" OF BOTTOM SLAB. THE NEXT 6" LAYER ABOVE THIS WILL BE No. 2 CRUSHED STONE UNLESS NOTED OTHERWISE. PROVIDE A VAPOR BARRIER BETWEEN THE No. 2 CRUSHED STONE AND THE SLAB FOR ALL INTERIOR SLABS UNLESS NOTED OTHERWISE. BACKFILL WILL BE PLACED IN MAXIMUM 8" LOOSE LAYERS (MAXIMUM 4" LOOSE LAYERS FOR HAND OPERATED COMPACTION EQUIPMENT) AND COMPACTED TO A DRY DENSITY EQUAL TO 95 PERCENT OF THE MATERIAL DRY DENSITY AS DEFINED BY THE MODIFIED PROCTOR COMPACTION TEST (ASTM D1557). STRUCTURAL FILL AND STONE ARE TO BE IMPORTED FROM OFF SITE. REFER TO PROJECT MANUAL FOR OTHER FILL MATERIAL TYPES.

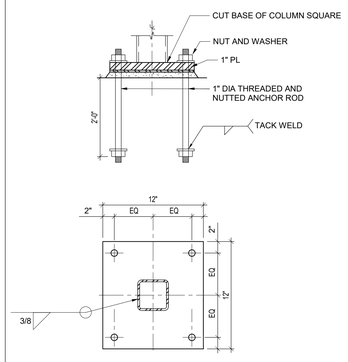
B. INSTALLATION

1. AFTER TOPSOIL IS STRIPPED, ALL AREAS WITHIN THE BUILDING FOOTPRINT ARE TO BE PROOF ROLLED WITH A SELF-PROPELLED, SMOOTH DRUM, VIBRATORY COMPACTOR WITH A MINIMUM STATIC WEIGHT OF TEN TONS. PROOF ROLLING WILL BE PERFORMED BY COMPLETING A MINIMUM OF SIX PASSES WITH THE ROLLER OPERATING IN ITS VIBRATORY MODE OVER ALL SUBGRADE AREA. SOFT OR LOOSE SOILS IDENTIFIED DURING THIS ROLLING SHOULD BE EXCAVATED AND REPLACED WITH STRUCTURAL FILL AS DIRECTED BY THE ARCHITECT. SUCH ADDITIONAL EXCAVATION AND BACKFILL WILL BE MEASURED AS DIRECTED BY THE ARCHITECT AND PAID FOR BY THE OWNER AS A CHANGE IN THE WORK. PROOF ROLLING OPERATIONS ARE TO BE PREFORMED UNDER THE SUPERVISION OF THE OWNERS GEOTECHNICAL ENGINEER.

2. AFTER TRENCHING EXCAVATION, BACKFILL WITH ACCEPTABLE FILL (SEE SPEC) TO WITHIN 1'-0" OF FINISH GRADE / FLOOR. ALL TRENCHING WORK WITHIN THE BUILDING FOOTPRINT IS TO BE COORDINATED. THE CONTRACTOR RESPONSIBLE FOR THE SLAB ON GRADE, MUST ACCEPT IN WRITING THE QUALITY OF THE TRENCH BACKFILL AS PERFORMED BY OTHERS BEFORE BEGINNING HIS WORK OVER TOP OF THE TRENCH.

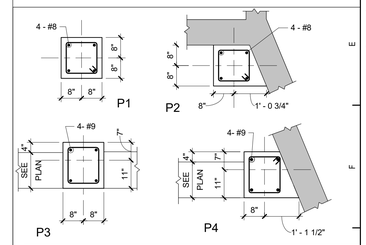
3. FOOTINGS ARE TO BEAR AT THE ELEVATIONS SHOWN ON THE PLANS. BEARING TO BE ON VIRGIN SOIL OR COMPACTED STRUCTURAL FILL.

4. THE ON SITE SOILS ARE SUSCEPTIBLE TO LOSS OF STRENGTH DUE TO WATER AND EXCESSIVE TRAFFIC BY WORKERS AND EQUIPMENT. EXCAVATION AND BACKFILL OPERATIONS ARE TO BE MAINTAINED IN A DRY CONDITION. SURFACE AND INFILTRATING WATER ARE TO BE REMOVED BY SITE GRADING AND PUMPING FROM SUMPS AS REQUIRED. THE REMOVAL AND REPLACEMENT OF SOILS RENDERED UNSTABLE DUE TO EXCESSIVE TRAFFIC OR LACK OF DEWATERING PROCEDURES ARE TO BE PAID FOR BY THE CONTRACTOR.



TYPE A1

4 Typical Col Bearing and Base Plate
1 1/2" = 1'-0"



1. PIER SIZE LISTED ABOVE INDICATES AREA OF CONCRETE TO BE REINFORCED.
2. REFER TO TYPICAL PIER DETAIL 9/BS500- TYP UNO
3. AT PIERS WHICH OCCUR IN WALLS, RUN WALL REINFORCING THROUGH PIER.
4. PIER AND REINF TO BE CENTERED ON COLUMN INTERSECTION UNO.
5. PROVIDE 3-#3 HORZ TIES WITHIN TOP 0'-5", AND #3 TIES AT 12" OC FOR REMAINDER, UNO.

1 Pier Schedule
1/2" = 1'-0"

FTG MARK	FOOTING SIZE	THICK-NESS	MAT BARS EACH WAY		
			QUANTITY OF BARS	BAR SIZE	SPACING c/c (in)
F3	3'-0" X 3'-0"	12"	4	#4	10.0
F3X4	3'-0" X 4'-0"	12"	6	#4	8.4
F3X8	3'-0" X 8'-0"	12"	11	#4	8.4
F3.5A	3'-6" X 3'-6"	16"	5	#4	9.0
F4	4'-0" X 4'-0"	12"	6	#4	8.4
F4A	4'-0" X 4'-0"	16"	6	#4	8.4
F4.5	4'-6" X 4'-6"	12"	6	#4	9.6
F4.5A	4'-6" X 4'-6"	16"	6	#4	9.6
F5	5'-0" X 5'-0"	12"	7	#4	9.0
F5A	5'-0" X 5'-0"	16"	7	#4	9.0
F5.5	5'-6" X 5'-6"	13"	6	#5	12.0
F5.5A	5'-6" X 5'-6"	16"	6	#5	12.0
F6	6'-0" X 6'-0"	14"	7	#5	11.0
F6A	6'-0" X 6'-0"	16"	7	#5	11.0
F6.5	6'-6" X 6'-6"	16"	6	#6	14.4
F7	7'-0" X 7'-0"	17"	6	#6	15.6
F7.5	7'-6" X 7'-6"	18"	7	#6	14.0
F8	8'-0" X 8'-0"	19"	6	#7	18.0
F8.5	8'-6" X 8'-6"	20"	7	#7	16.0
F9	9'-0" X 9'-0"	21"	10	#6	11.3
F9.5	9'-6" X 9'-6"	22"	9	#7	13.5
F10	10'-0" X 10'-0"	24"	9	#7	14.3

REFER TO TYPICAL SPREAD FOOTING DETAIL FOR BAR CONFIGURATION.
3000 PSF BEARING PRESSURE

2 Typ Spread Footing Reinforcement
12" = 1'-0"

UNLESS NOTED OTHERWISE, BEAM TO COLUMN AND BEAM TO GIRDER CONNECTIONS SHALL BE SIMPLE SHEAR CONNECTIONS UTILIZING FULLY PRETENSIONED HIGH-STRENGTH BOLTS IN BEARING-TYPE CONNECTIONS WITH THREADS INCLUDED IN THE SHEAR PLANE. DESIGN CHANNEL AND TUBE MEMBERS FOR THE SAME LOAD AS THE SAME DEPTH IN W SHAPE. THE CAPACITIES SHALL BE AS SHOWN BELOW, UNLESS OTHERWISE NOTED ON PLAN.

MINIMUM SHEAR CAPACITY SCHEDULE
(FACTORED LOADS USING LRFD)

W8	10KIPS	W24	80KIPS
W10	15KIPS	W27	100KIPS
W12	20KIPS	W30	120KIPS
W14	30KIPS	W33	140KIPS
W16	40KIPS	W36	180KIPS
W18	50KIPS	W40	220KIPS
W21	60KIPS	W44	260KIPS

5 Beam Connection Schedule
12" = 1'-0"

1. FOR 4" THICK WALLS

MASONRY OPENING	LINTEL ANGLE
UP TO 6'-4"	MT 6X5.9

2. FOR 6" THICK WALLS

MASONRY OPENING (±)	LINTEL ANGLE
5'-0"	2- L2 1/2X2 1/2X5/16
6'-0"	2- L3X2 1/2X5/16 LLV
7'-0"	2- L3 1/2X2 1/2X5/16 LLV
8'-0"	2- L3 1/2X2 1/2X5/16 LLV

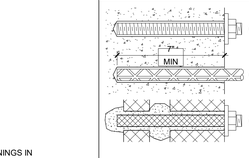
3. FOR 8", 12", AND 16" THICK WALLS:
FOR EACH 4" THICKNESS OF WALL

MASONRY OPENING (±)	LINTEL ANGLE
5'-0"	L3 1/2X3 1/2X5/16
6'-0"	L4X3 1/2X 5/16 LLV
7'-0"	L5X3 1/2X5/16 LLV
8'-0"	L5X3 1/2X5/16 LLV
9'-0"	L6X3 1/2X5/16 LLV
10'-0"	L6X3 1/2X5/16 LLV

LINTEL NOTES

1. ALL OPENINGS 1'-0" AND OVER REQUIRE LINTELS.
2. STEEL TO BE A36.
3. THIS SCHEDULE IS TYPICAL FOR ALL MASONRY OPENINGS IN NON-LOAD BEARING WALLS UNLESS OTHERWISE NOTED.
4. ALL LINTELS TO HAVE MINIMUM 8" BEARING BOTH ENDS.
5. BACK TO BACK ANGLES ARE TO BE STITCH WELDED TOGETHER BEFORE PLACEMENT.
6. ALL LINTELS ARE TO HAVE BOTH ENDS BEAR ON SOLID MASONRY OR SOLIDLY GROUTED HOLLOW MASONRY.
7. WHERE MINIMUM 8" BEARING LENGTH CANNOT BE PROVIDED DUE TO COLUMN INTERFERENCE, PROVIDE CONNECTION OF LINTEL TO COLUMN.
8. THIS LINTEL SCHEDULE IS APPLICABLE FOR USE IN EXISTING BUILDING. SHORE EXISTING STRUCTURE AND WALL AS REQD FOR INSTALLATION OF NEW MAS AND LINTEL. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.

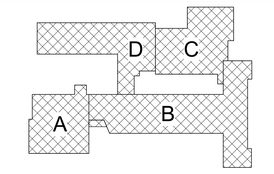
6 Lintel Schedule
12" = 1'-0"



BAR/ROD SIZE	EMBEDMENT DEPTH
#4 OR 1/2"	5"
#5 OR 5/8"	6"
#6 OR 3/4"	7"
#7 OR 7/8"	8"
#8 OR 1"	9"

GENERAL NOTES
1. FOR ACCEPTABLE ADHESIVE PRODUCTS REFER TO SPECIFICATIONS.
2. COMPLY WITH MANUFACTURERS REQUIREMENTS FOR INSTALLATION.

3 Typical Chemical Anchors
3" = 1'-0"



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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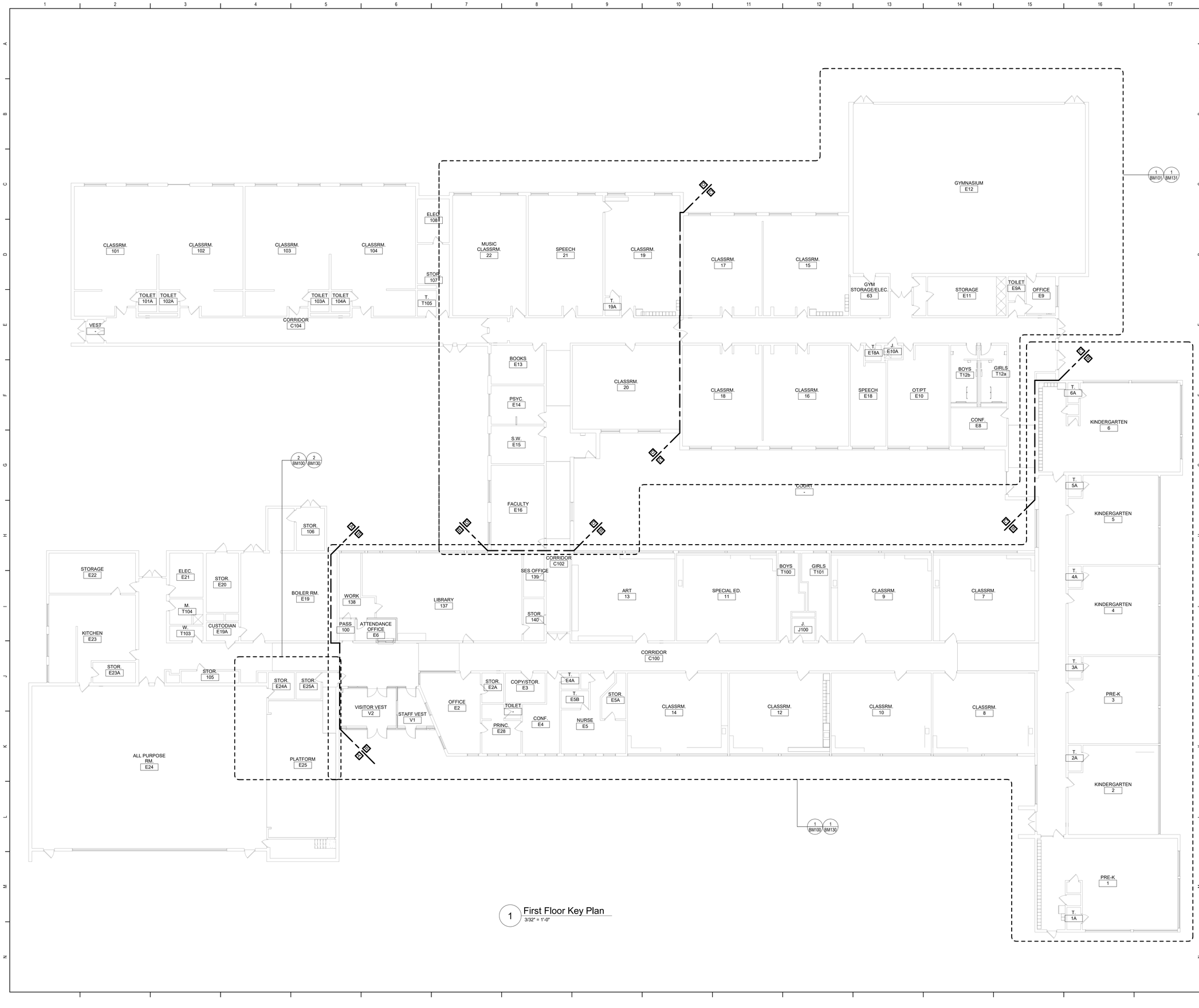
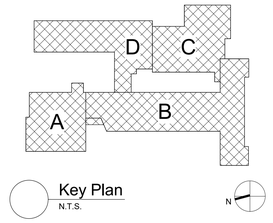


1 First Floor Key Plan
3/32" = 1'-0"

General Notes

A. THE FOLLOWING GENERAL NOTES APPLY TO ALL "BM" SERIES DRAWINGS.
B. REFER TO ALL CONTRACT DOCUMENTS; DRAWINGS AND SPECIFICATIONS, FOR DETAILED STANDARDS AND REQUIREMENTS.
C. REPORT UNSAFE OR UNSATISFACTORY CONDITIONS IN WRITING TO ARCHITECT AND RESOLVE ISSUES BEFORE PROCEEDING.
D. WORK INCLUDES ALL LABOR AND MATERIALS REQUIRED TO PROVIDE COMPLETE WORKING SYSTEMS.
E. COORDINATE PHASING REQUIREMENTS AT JOB MEETINGS AND ON WORK SCHEDULES.
F. DO NOT SCALE DRAWINGS. PIPING AND DUCTWORK ARE SHOWN DIAGRAMMATICALLY. IT IS NOT POSSIBLE TO SHOW EVERY TRANSITION, FITTING, ASPECT RATIO CHANGE, ETC.,; PROVIDE AS REQUIRED TO FIT WITHIN STRUCTURAL CONSTRAINTS. EXAMINE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND VERIFY ALL ACCESS, LOCATIONS, DIMENSIONS, ARRANGEMENTS, ELECTRICAL CHARACTERISTICS AND INTERFERENCE IN THE FIELD PRIOR TO BID.
G. VERIFY EXTENT OF CEILING WORK SHOWN ELSEWHERE IN THE CONTRACT DOCUMENTS. PROVIDE FOR ADDITIONAL CEILING SYSTEM REMOVAL, PROTECTION, AND REINSTALLATION AS REQUIRED FOR CONTRACT WORK.
H. DEMOLITION DRAWINGS SHOW THE GENERAL SCOPE OF ITEMS AND SYSTEMS TO BE REMOVED. IT IS NOT THE INTENT TO SHOW ALL ITEMS TO BE REMOVED. FIELD VERIFY AND REMOVE ALL ASSOCIATED ITEMS BACK TO POINT OF CONTINUED SERVICE, UNLESS OTHERWISE NOTED. VERIFY WHAT ALL EQUIPMENT SERVES PRIOR TO REMOVAL.
I. GIVE ALL REMOVED EQUIPMENT TO THE OWNER. DELIVER ON SITE WHERE DESIGNATED BY THE OWNER. PROMPTLY REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ANY SUCH ITEMS DECLINED BY OWNER.
J. IF UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL CONFLICTS ARE ENCOUNTERED, INVESTIGATE AND REPORT BOTH NATURE AND EXTENT OF THE CONFLICT. RE-ROUTE WORK AS REQUIRED.
K. CUT, DRILL, OR OTHERWISE CREATE OPENINGS AS NEATLY AS POSSIBLE, AS REQUIRED FOR THE INDICATED CONTRACT WORK. PROVIDE SUPPORT AS REQUIRED FOR AND USE METHODS LEAST LIKELY TO DAMAGE ELEMENTS TO REMAIN. PRIOR TO WORK, VERIFY LOCATIONS OF ALL STRUCTURAL MEMBERS INCLUDING CROSS BRACING, ELECTRICAL WIRING, PLUMBING, ETC. PROMPTLY NOTIFY ARCHITECT OF ANY CONFLICTS. DO NOT CUT ANY STRUCTURAL MEMBERS OR OTHER SERVICES UNTIL SPECIFICALLY DIRECTED TO DO SO. PENDING RECEIPT OF DIRECTIVE, REARRANGE SCHEDULE AS NECESSARY TO CONTINUE OVERALL JOB PROGRESS WITHOUT DELAY.
L. PATCH ALL DISTURBANCES RESULTING FROM DEMOLITION OR NEW WORK TO MATCH SURROUNDING SURFACES. PATCH FOLLOWING DEMOLITION, AND AGAIN FOLLOWING WORK. WHERE HOLES REMAIN FROM REMOVALS, INFILL AND PATCH TO MATCH UNLESS HOLE IS TO BE REUSED.
M. PROTECT ALL CONTRACT EQUIPMENT, ELEMENTS TO REMAIN, OWNER'S BELONGINGS, AND EQUIPMENT TO BE REUSED OR RETAINED BY OWNER DURING ALL CONTRACT WORK. AT NO ADDITIONAL COST TO OWNER, REPAIR OR REPLACE ITEMS WHICH ARE DAMAGED.
N. THOROUGHLY CLEAN FOLLOWING DEMOLITION AND BEFORE BEGINNING CONTRACT INSTALLATIONS. THOROUGHLY CLEAN AGAIN DURING AND FOLLOWING CONTRACT WORK AS REQUIRED. LEAVE ALL WORK AREAS CLEANER THAN FOUND. LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS.
O. PROVIDE TEMPORARY PIPING, DUCT, HEAT, WEATHERPROOFING, ETC. TO SERVICES TO REMAIN UNTIL PERMANENT INSTALLATIONS CAN BE MADE.
P. ALL EXCESS MATERIALS AND SCRAPS ARE CONTRACTOR'S PROPERTY. PROMPTLY REMOVE FROM SITE UNLESS SPECIFICALLY DIRECTED OTHERWISE.
Q. EXISTING HVAC COMPONENTS IN THIS BUILDING MAY CONTAIN, BE IN PROXIMITY TO, OR, WORK ON THEM MAY CAUSE DISTURBANCE OF, ASBESTOS CONTAINING OR OTHER HAZARDOUS MATERIALS. REFER TO ABATEMENT SERIES DRAWINGS AND SPECIFICATIONS COMPLETE FOR ADDITIONAL INFORMATION.
R. SEAL ALL FLOOR, WALL AND CEILING PENETRATIONS PER FIRE-RESISTANCE RATINGS NOTED ON AG-SERIES DRAWINGS, BUT NOT LESS THAN 1-HOUR, AND IN ACCORDANCE WITH SECTION 07 84 13 - PENETRATION FIRESTOPPING. THIS INCLUDES ALL NEW PENETRATIONS AND EXISTING UNFIRESTOPPED PENETRATIONS CREATED BY REMOVALS, AS REQUIRED TO PERFORM THE WORK.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

complex world | CLEAR SOLUTIONS

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

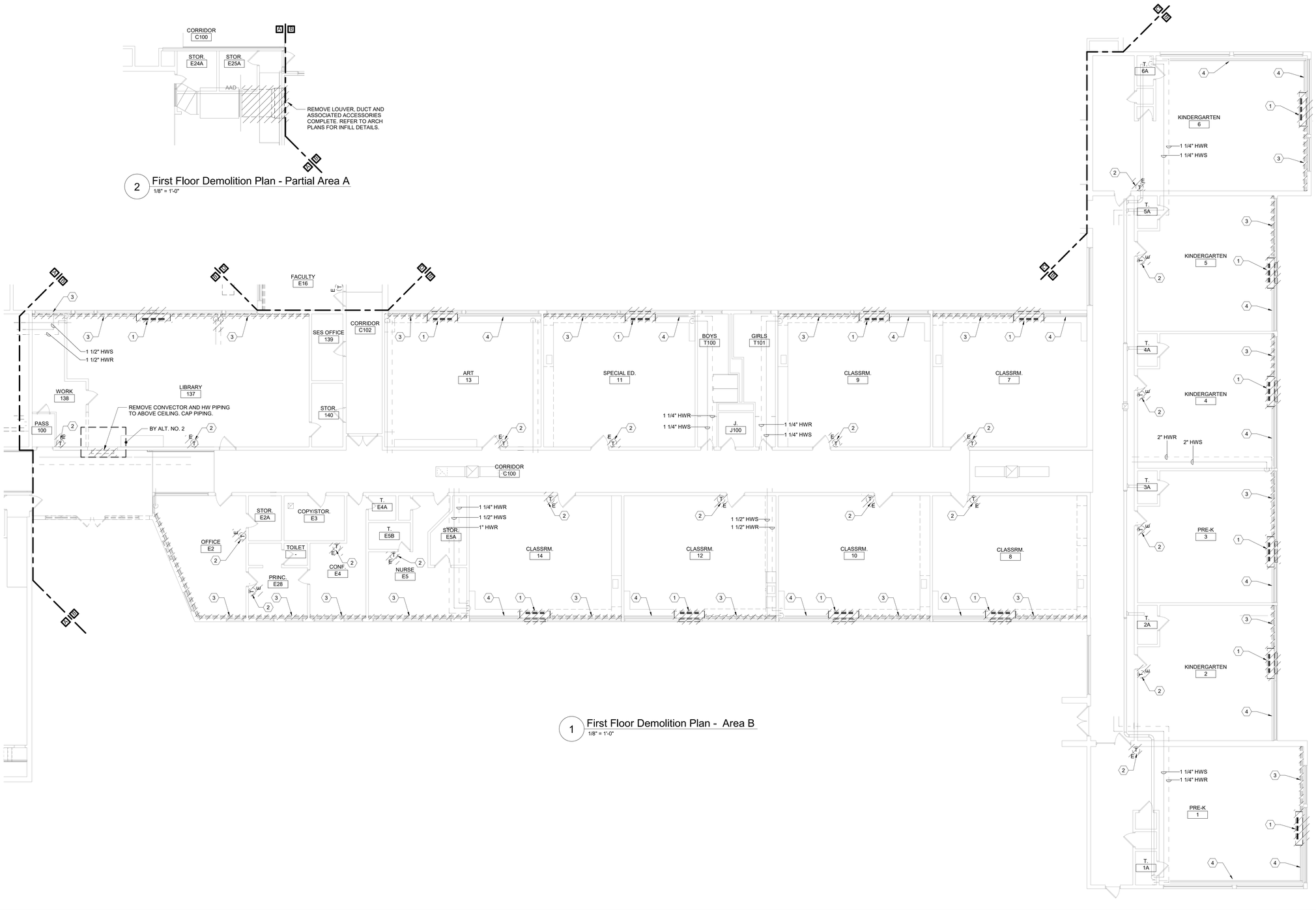
Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

First Floor Key Plan

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	BM051
Project No.: 279180-22004		

2 First Floor Demolition Plan - Partial Area A
1/8" = 1'-0"



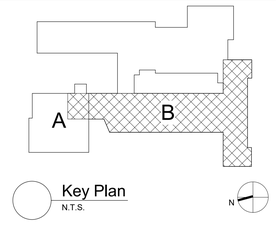
1 First Floor Demolition Plan - Area B
1/8" = 1'-0"

General Notes

A. REFER TO BM051 FOR GENERAL NOTES.

KEYED DEMOLITION NOTES:

1. REMOVE UNIT VENTILATOR, OUTDOOR AIR INTAKE SLEEVE AND ALL ASSOCIATED ACCESSORIES COMPLETE. REMOVE HWS/R PIPING AS REQUIRED FOR UV REMOVAL. REFER TO OTHER TRADES FOR LOUVER REMOVAL.
2. REMOVE THERMOSTAT AND ASSOCIATED ACCESSORIES.
3. REMOVE FINNED TUBE RADIATION AND ASSOCIATED ACCESSORIES COMPLETE. PREPARE FOR RECONNECTION.
4. FINNED TUBE RADIATION AND ASSOCIATED ACCESSORIES TO REMAIN.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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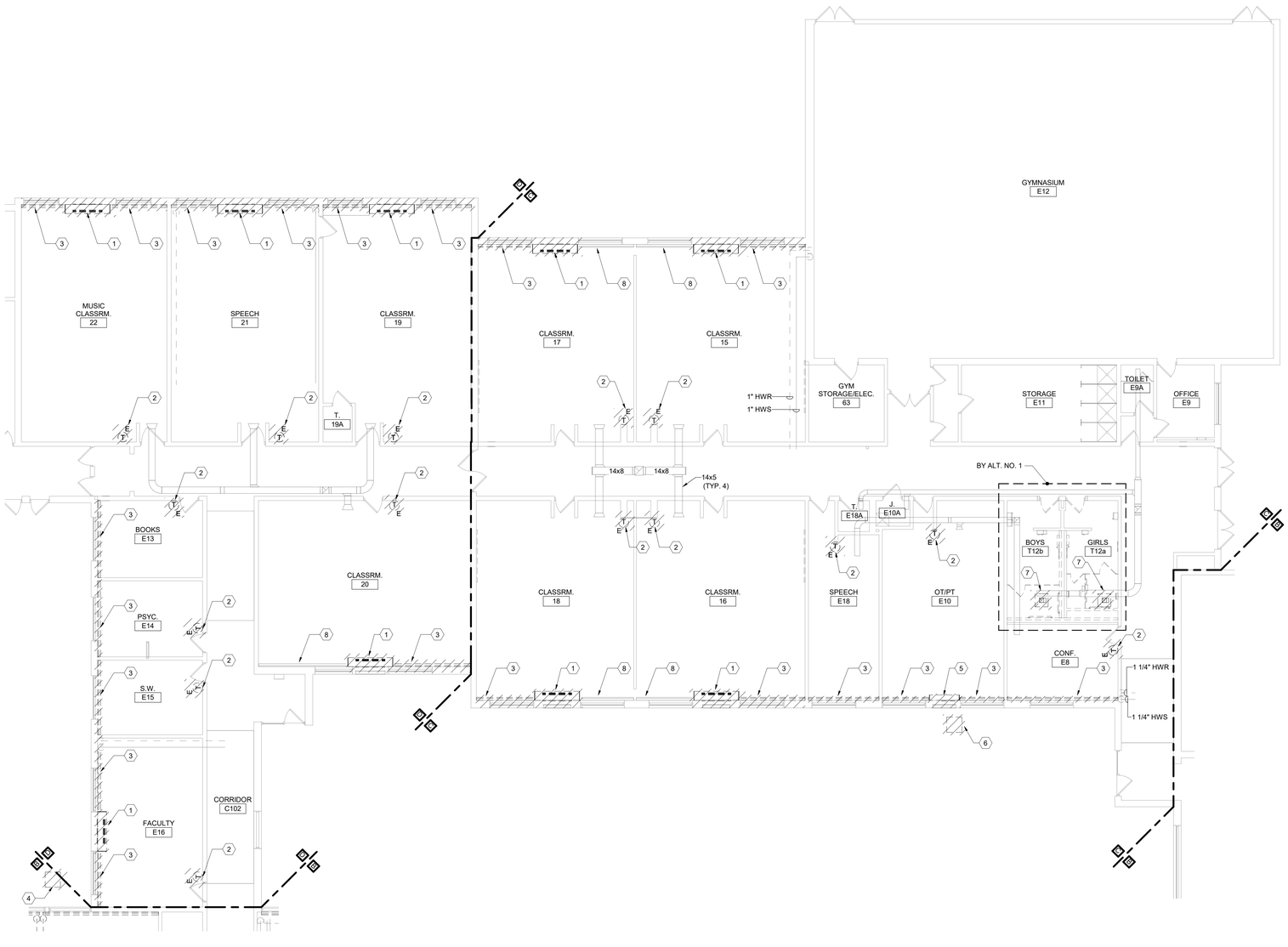
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

First Floor Demolition Plans - Partial Area A and Area B

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	BM100
Project No.: 279180-22004		



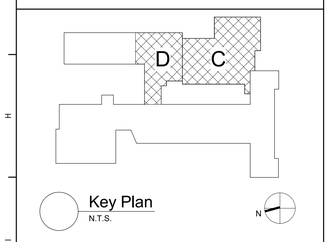
1 First Floor Demolition Plans - Area C and Parital Area D
1/8" = 1'-0"

General Notes

A. REFER TO BM051 FOR GENERAL NOTES.

KEYED DEMOLITION NOTES:

1. REMOVE UNIT VENTILATOR, LOUVER, OUTDOOR AIR INTAKE SLEEVE AND ALL ASSOCIATED ACCESSORIES COMPLETE. REMOVE HWS/R PIPING AS REQUIRED FOR UV REMOVAL.
2. REMOVE THERMOSTAT AND ASSOCIATED ACCESSORIES.
3. REMOVE FINNED TUBE RADIATION AND ASSOCIATED ACCESSORIES COMPLETE. PREPARE FOR RECONNECTION.
4. REMOVE CONDENSING UNIT, REFRIGERANT PIPING AND CONCRETE PAD.
5. REMOVE PACKAGED HEAT PUMP, 6" DIAMETER DUCTS TO COMPRESSOR AND LOUVER COMPLETE.
6. REMOVE ABANDONED CONDENSING UNIT AND CONCRETE PAD.
7. REMOVE EXHAUST GRILLE AND ASSOCIATED ACCESSORIES COMPLETE. PREPARE FOR RECONNECTION.
8. FINNED TUBE RADIATION AND ASSOCIATED ACCESSORIES TO REMAIN.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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Beacon City School District
Beacon, New York

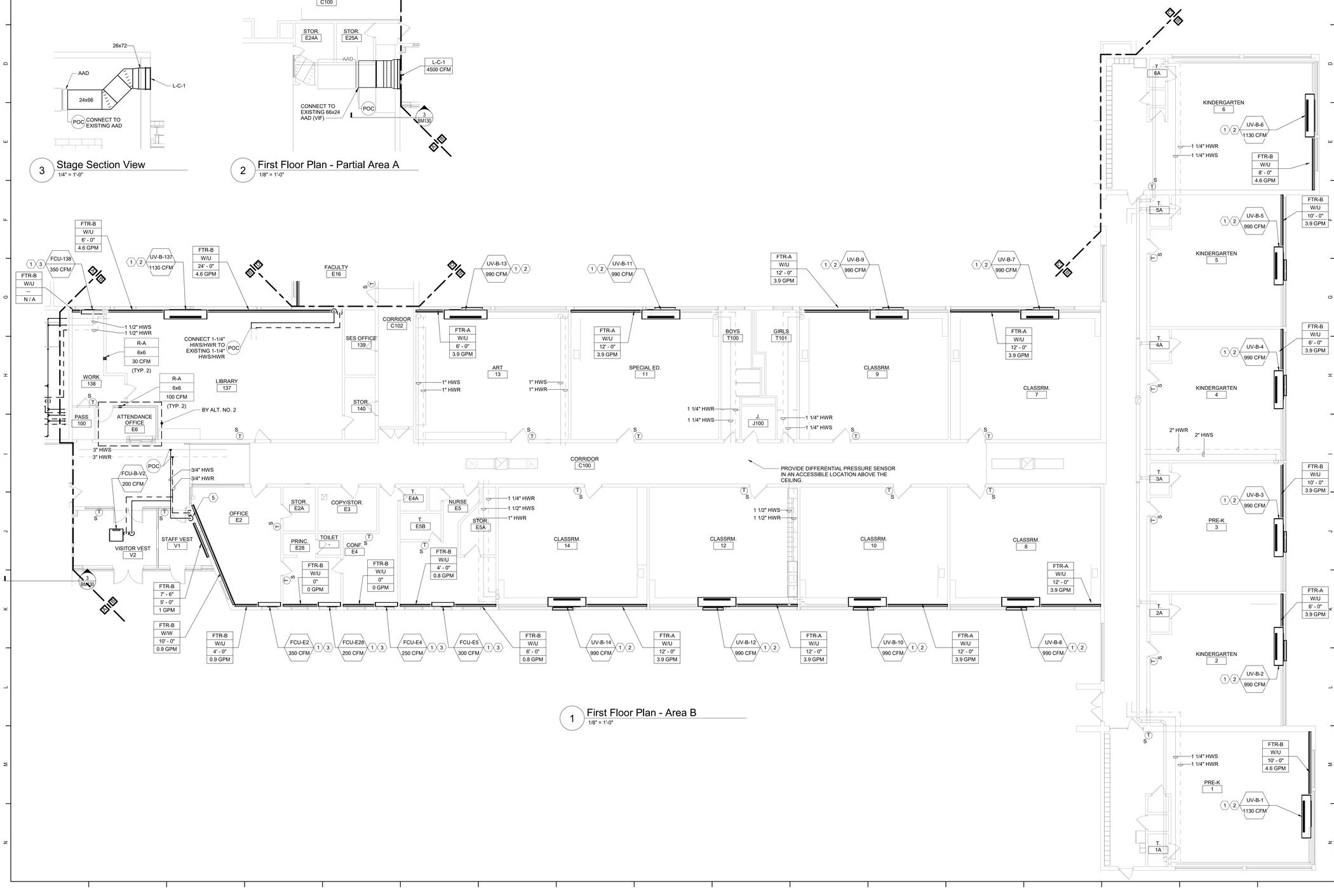
Additions and Alterations to:
Glenham Elementary School

First Floor Demolition Plans - Area C and Partial Area D

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	BM101
Project No.: 279180-22004		

3 Stage Section View
1/4" = 1'-0"

2 First Floor Plan - Partial Area A
1/8" = 1'-0"



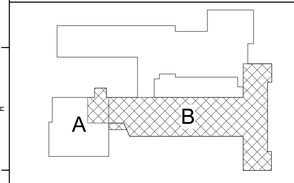
1 First Floor Plan - Area B
1/8" = 1'-0"

General Notes

A. REFER TO BM051 FOR GENERAL NOTES.

KEYED NOTES:

1. EXTEND HWS/R PIPING AS REQUIRED TO MAKE CONNECTION AND PIPE PER DETAIL.
2. PROVIDE LOUVER SIZED TO MATCH EXISTING OPENING. PROVIDE OA INTAKE SLEEVE AND SECURE TO LOUVER PER DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER INSTALLATION.
3. PROVIDE LOUVER AND OA INTAKE SLEEVE AND SECURE PER DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENING AND LOUVER INSTALLATION.
4. EXTEND 1" HWS PIPING AS REQUIRED AND CONNECT INTO EXISTING 1" EXPANSION TANK PIPING.
5. PROVIDE SHEET METAL PIPE ENCLOSURE.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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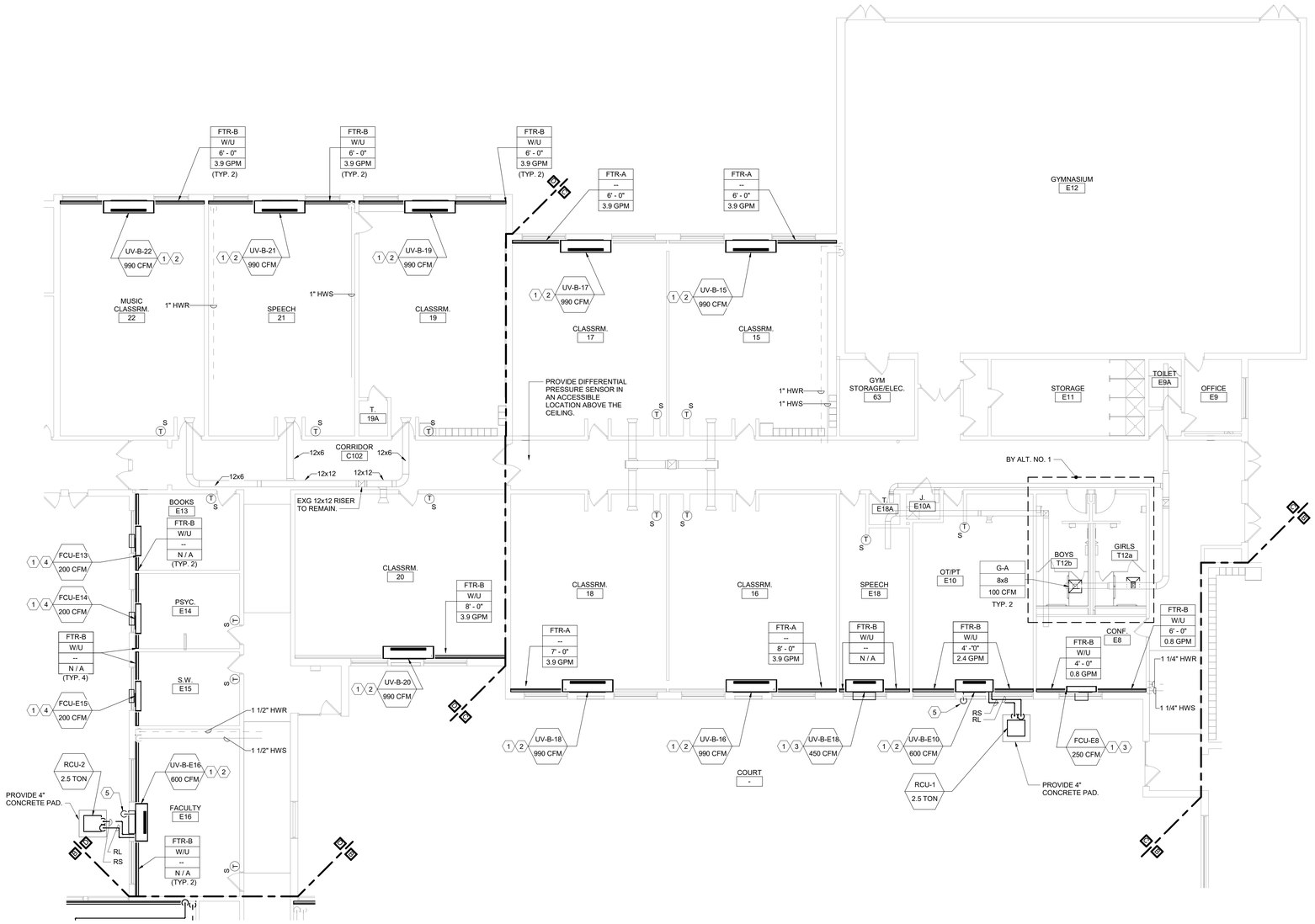
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

First Floor Plans - Partial Area A and Area B

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	BM130
Project No.: 279180-22004		



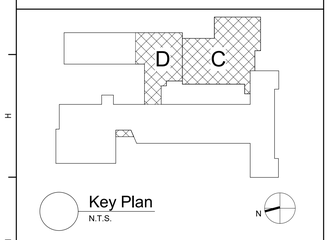
1 First Floor Plan - Area C and Parital Area D
1/8" = 1'-0"

General Notes

A. REFER TO BM051 FOR GENERAL NOTES.

KEYED NOTES:

1. EXTEND HWS/R PIPING AS REQUIRED TO MAKE CONNECTION AND PIPE PER DETAIL.
2. PROVIDE LOUVER SIZED TO MATCH EXISTING OPENING. PROVIDE OA INTAKE SLEEVE AND SECURE TO LOUVER PER DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR LOUVER INSTALLATION.
3. PROVIDE LOUVER AND OA INTAKE SLEEVE AND SECURE PER DETAIL. REFER TO ARCHITECTURAL DRAWINGS FOR WALL OPENING AND LOUVER INSTALLATION.
4. PROVIDE LOUVER AND OA INTAKE SLEEVE. FIELD FABRICATE POWDER COATED SHEETMETAL PLENUM AND SECURE TO LOUVER.
5. PROVIDE 1" CONDENSATE DRAIN. REFER TO BM500.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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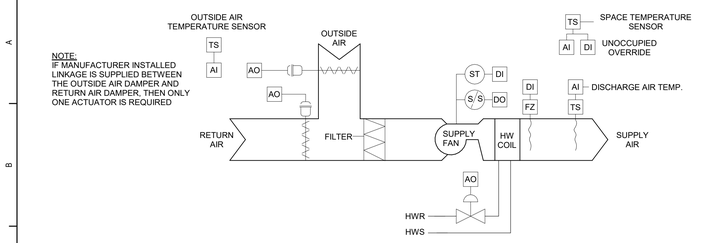
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

First Floor Plan - Area C and Partial Area D

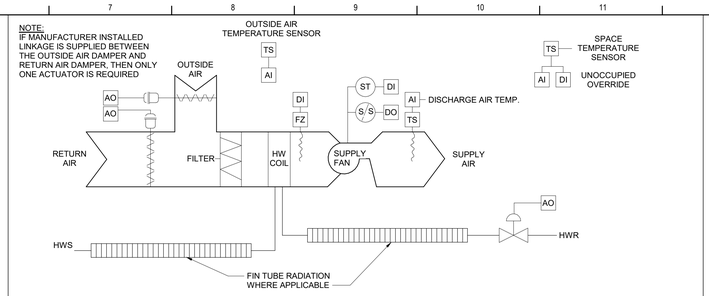
Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	BM131
Project No.: 279180-22004		



FAN COIL UNIT - HOT WATER - VALVE CONTROL - SEQUENCE OF OPERATIONS:

1. OCCUPIED MODE:
   - a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL RUN CONTINUOUSLY.
   - b. THE OUTSIDE AIR DAMPER SHALL OPEN TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY AS INDICATED. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION EXCEPT IN CASE OF ALARM.
   - c. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT, THE 2-WAY CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE) AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJUSTABLE).
   - d. WHEN THE SPACE TEMPERATURE RISES 3 DEG. F (ADJUSTABLE) ABOVE THE SPACE HEATING SETPOINT, AND THE OUTSIDE AIR TEMPERATURE IS LOWER THAN THE SPACE TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL OPEN TO MAINTAIN THE OCCUPIED SETPOINT. THIS SHALL BE DONE SUBJECT TO DISCHARGE LOW LIMIT OF 55 DEG. F (ADJUSTABLE), AND WITH THE HEATING VALVE FULLY CLOSED.
2. UNOCCUPIED MODE:
   - a. THE SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL BE OFF.
   - b. THE OUTSIDE AIR DAMPER AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED.
   - c. WHERE SPACE HAS FINNED TUBE RADIATION, RADIATION SHALL PROVIDE FIRST STAGE UNOCCUPIED HEATING.
   - d. ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED SETPOINT, CYCLE THE FAN AND COIL CONTROL VALVE FULL OPEN AS REQUIRED TO MAINTAIN REDUCED SPACE TEMPERATURE. USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.
   - e. A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.
3. WARM-UP MODE:
   - a. THE UNIT SHALL START PER AN OPTIMUM START PROGRAM.
   - b. THE OUTSIDE AIR DAMPER AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED AND THE ASSOCIATED EXHAUST FAN SHALL BE OFF.
   - c. THE SUPPLY FAN SHALL RUN AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN OCCUPIED SETPOINT.
4. PURGE VENTILATION MODE:
   - a. PROVIDE GLOBAL INITIATION OF PURGE VENTILATION MODE AT THE OPERATOR'S WORKSTATION SUCH THAT ONE INITIATION STARTS OR STOPS PURGE VENTILATION MODE FOR ALL EQUIPMENT SO PROGRAMMED. PROVIDE FOR GLOBAL ADJUSTMENT OF THE BELOW DESCRIBED SCHEDULING AND PERCENTAGE VENTILATION CHANGES, AND ALSO FOR LOCAL ADJUSTMENT AWAY FROM GLOBAL SETPOINTS. IF GLOBAL SETPOINTS ARE SUBSEQUENTLY RE-ADJUSTED, PROVIDE WARNING WITH A LIST OF UNITS WITH LOCAL OVERRIDES, BUT DO NOT RE-ADJUST LOCAL OVER-RIDE SETPOINTS GLOBALLY.
   - b. PROVIDE A PURGE VENTILATION MODE WITH INCREASED VENTILATION AS POSSIBLE WITHIN THE LIMITS OF THE EQUIPMENT. OPERATE WITH ALL THREE MODES DESCRIBED ABOVE WITH THE FOLLOWING MODIFICATIONS TO THE OCCUPIED PERIOD.
   - c. START OCCUPIED VENTILATION MODE 1 HOUR (ADJ) EARLIER AND END IT 4 HOURS (ADJ) LATER.
   - d. INCREASE VENTILATION AS POSSIBLE BY 100% (ADJ) WHERE 0% INCREASE IS THE MINIMUM VENTILATION DESCRIBED ABOVE AND 100% IS 100% OUTSIDE AIR WITH NO RETURN AIR.
   - e. MAINTAIN OCCUPIED SPACE TEMPERATURE AND INCREASED VENTILATION AS POSSIBLE WITHIN HEATING CAPACITY CONSTRAINTS OF LOCAL AND PLANT HEATING CAPACITY. IF SPACE TEMPERATURE DROPS MORE THAN 2 DEG. F (ADJ) BELOW SPACE HEATING SETPOINT WITH THE HEATING VALVE 100% OPEN, MODULATE VENTILATION RATE BACK TO MINIMUM SPECIFIED VENTILATION RATE DESCRIBED ABOVE WITH HEATING VALVE AT 100% OPEN.
5. SAFETIES:
   - a. A SEPARATE LOW LIMIT FREEZE STAT WITH AUTOMATIC RESET SHALL BE INSTALLED WITH SENSING ELEMENT SERPENTINED ACROSS THE FACE OF THE COIL, WHENEVER COIL FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJUSTABLE) THE SUPPLY FAN SHALL STOP, THE OUTSIDE AIR DAMPER SHALL CLOSE 100%, AND CONTROL VALVE SHALL OPEN 100%. AN ALARM SHALL ALSO BE ACTIVATED.
   - b. UPON FAILURE OF THE FAN, AS SENSED BY THE CURRENT SENSING STATUS SWITCH, ACTIVATE AN ALARM.

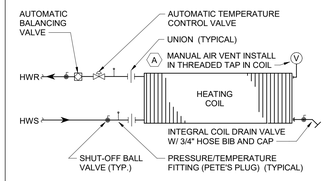
11 FCU - Hot Water - Valve Control - With Outside Air
NTS



UNIT VENTILATOR - HOT WATER - VALVE CONTROL - SEQUENCE OF OPERATIONS:

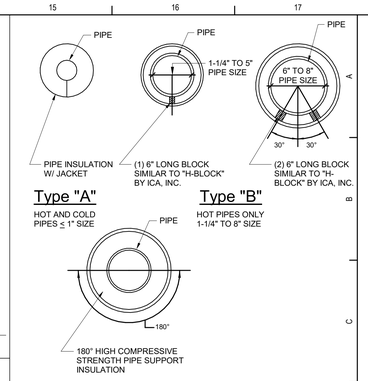
1. OCCUPIED MODE:
   - a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL RUN CONTINUOUSLY.
   - b. THE OUTSIDE AIR DAMPER SHALL OPEN TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY INDICATED. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION EXCEPT IN CASE OF ALARM.
   - c. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT, THE 2-WAY CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE) AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJUSTABLE).
   - d. WHEN THE SPACE TEMPERATURE RISES 3 DEG. F (ADJUSTABLE) ABOVE THE SPACE HEATING SETPOINT, AND THE OUTSIDE AIR TEMPERATURE IS LOWER THAN THE SPACE TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL OPEN TO MAINTAIN THE OCCUPIED SETPOINT. THIS SHALL BE DONE SUBJECT TO DISCHARGE LOW LIMIT OF 55 DEG. F (ADJUSTABLE), AND WITH THE HEATING VALVE FULLY CLOSED.
2. UNOCCUPIED MODE:
   - a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL BE OFF.
   - b. THE OUTSIDE AIR DAMPER AND ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED.
   - c. WHERE SPACE HAS FINNED TUBE RADIATION, RADIATION SHALL PROVIDE FIRST STAGE UNOCCUPIED HEATING.
   - d. ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED SETPOINT, CYCLE THE FAN ON AND COIL CONTROL VALVE FULL OPEN AS REQUIRED TO MAINTAIN REDUCED SPACE TEMPERATURE. USE 5 DEG. F (ADJUSTABLE) DEADBAND AS REQUIRED TO MINIMIZE SHORT CYCLING.
   - e. A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.
3. WARM-UP MODE:
   - a. THE UNIT SHALL START PER AN OPTIMUM START PROGRAM.
   - b. THE OUTSIDE AIR DAMPER AND ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED AND THE ASSOCIATED EXHAUST FAN SHALL BE OFF.
   - c. THE SUPPLY FAN SHALL RUN AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN OCCUPIED SETPOINT.
4. PURGE VENTILATION MODE:
   - a. PROVIDE GLOBAL INITIATION OF PURGE VENTILATION MODE AT THE OPERATOR'S WORKSTATION SUCH THAT ONE INITIATION STARTS OR STOPS PURGE VENTILATION MODE FOR ALL EQUIPMENT SO PROGRAMMED. PROVIDE FOR GLOBAL ADJUSTMENT OF THE BELOW DESCRIBED SCHEDULING AND PERCENTAGE VENTILATION CHANGES, AND ALSO FOR LOCAL ADJUSTMENT AWAY FROM GLOBAL SETPOINTS. IF GLOBAL SETPOINTS ARE SUBSEQUENTLY RE-ADJUSTED, PROVIDE WARNING WITH A LIST OF UNITS WITH LOCAL OVERRIDES, BUT DO NOT RE-ADJUST LOCAL OVER-RIDE SETPOINTS GLOBALLY.
   - b. PROVIDE A PURGE VENTILATION MODE WITH INCREASED VENTILATION AS POSSIBLE WITHIN THE LIMITS OF THE EQUIPMENT. OPERATE WITH ALL THREE MODES DESCRIBED ABOVE WITH THE FOLLOWING MODIFICATIONS TO THE OCCUPIED PERIOD.
   - c. START OCCUPIED VENTILATION MODE 1 HOUR (ADJ) EARLIER AND END IT 4 HOURS (ADJ) LATER.
   - d. INCREASE VENTILATION AS POSSIBLE BY 100% (ADJ) WHERE 0% INCREASE IS THE MINIMUM VENTILATION DESCRIBED ABOVE AND 100% IS 100% OUTSIDE AIR WITH NO RETURN AIR.
   - e. MAINTAIN OCCUPIED SPACE TEMPERATURE AND INCREASED VENTILATION AS POSSIBLE WITHIN HEATING CAPACITY CONSTRAINTS OF LOCAL AND PLANT HEATING CAPACITY. IF SPACE TEMPERATURE DROPS MORE THAN 2 DEG. F (ADJ) BELOW SPACE HEATING SETPOINT WITH THE HEATING VALVE 100% OPEN, MODULATE VENTILATION RATE BACK TO MINIMUM SPECIFIED VENTILATION RATE DESCRIBED ABOVE WITH HEATING VALVE AT 100% OPEN.
5. SAFETIES
   - a. A SEPARATE LOW LIMIT FREEZE STAT WITH AUTOMATIC RESET SHALL BE INSTALLED WITH SENSING ELEMENT SERPENTINED ACROSS THE FACE OF THE COIL; WHENEVER COIL FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJUSTABLE) THE SUPPLY FAN SHALL STOP, THE OUTSIDE AIR DAMPER SHALL CLOSE 100%, AND CONTROL VALVE SHALL OPEN 100%. AN ALARM SHALL ALSO BE ACTIVATED.
   - b. UPON FAILURE OF THE FAN, AS SENSED BY THE CURRENT SENSING STATUS SWITCH, AN ALARM SHALL BE ACTIVATED.

8 UV - Hot Water - Valve Control w/ FTR
NTS

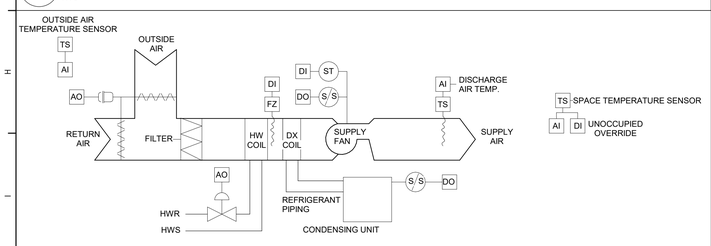


(A) WHERE COIL IS SUPPLIED FROM OVERHEAD PIPING, PROVIDE MANUAL AIR VENT AT HIGH POINT IN HOT WATER SUPPLY PIPING.

4 FCU/UV Hot Water Piping Schematic
NTS



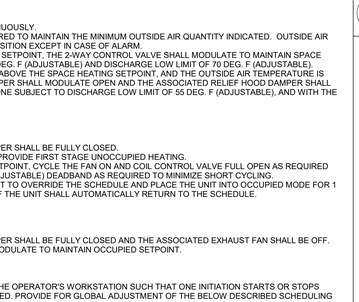
1 Insulation Shield and Blocking
NTS



UNIT VENTILATOR - HOT WATER (VALVE CONTROL) AND DX COOLING - SEQUENCE OF OPERATIONS:

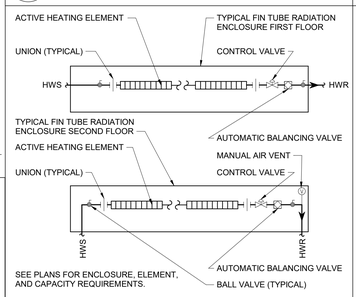
1. OCCUPIED MODE:
   - a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL RUN CONTINUOUSLY.
   - b. THE OUTSIDE AIR DAMPER SHALL OPEN TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY INDICATED. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION EXCEPT IN CASE OF ALARM.
   - c. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT, THE 2-WAY CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJUSTABLE).
   - d. WHEN THE SPACE TEMPERATURE RISES 3 DEG. F (ADJUSTABLE) ABOVE THE SPACE HEATING SETPOINT, AND THE OUTSIDE AIR TEMPERATURE IS LOWER THAN THE SPACE TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL OPEN TO MAINTAIN THE OCCUPIED SETPOINT. THIS SHALL BE DONE SUBJECT TO DISCHARGE LOW LIMIT OF 55 DEG. F (ADJUSTABLE), AND WITH THE HEATING VALVE FULLY CLOSED.
   - e. WHEN THE SPACE TEMPERATURE IS 3 DEG. F (ADJUSTABLE) ABOVE THE COOLING SETPOINT, AND THE OUTSIDE AIR CANNOT COOL THE SPACE, THE RESPECTIVE CONDENSING UNIT SHALL BE CYCLED TO MAINTAIN SPACE TEMPERATURE WITH THE HEATING VALVE FULLY CLOSED. USE 5 DEG. F (ADJUSTABLE) DEADBAND BETWEEN HEATING AND COOLING SETPOINTS.
2. UNOCCUPIED MODE:
   - a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL BE OFF.
   - b. THE OUTSIDE AIR DAMPER AND ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED.
   - c. WHERE SPACE HAS FINNED TUBE RADIATION, RADIATION SHALL PROVIDE FIRST STAGE UNOCCUPIED HEATING.
   - d. ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED SETPOINT, CYCLE THE FAN ON AND COIL CONTROL VALVE FULL OPEN AS REQUIRED TO MAINTAIN REDUCED SPACE TEMPERATURE. USE 5 DEG. F (ADJUSTABLE) DEADBAND AS REQUIRED TO MINIMIZE SHORT CYCLING.
   - e. A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.
3. WARM-UP MODE:
   - a. THE UNIT SHALL START PER AN OPTIMUM START PROGRAM.
   - b. THE OUTSIDE AIR DAMPER AND ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED, AND THE ASSOCIATED EXHAUST FAN SHALL BE OFF.
   - c. THE SUPPLY FAN SHALL RUN AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN OCCUPIED SETPOINT.
4. PURGE VENTILATION MODE:
   - a. PROVIDE GLOBAL INITIATION OF PURGE VENTILATION MODE AT THE OPERATOR'S WORKSTATION SUCH THAT ONE INITIATION STARTS OR STOPS PURGE VENTILATION MODE FOR ALL EQUIPMENT SO PROGRAMMED. PROVIDE FOR GLOBAL ADJUSTMENT OF THE BELOW DESCRIBED SCHEDULING AND PERCENTAGE VENTILATION CHANGES, AND ALSO FOR LOCAL ADJUSTMENT AWAY FROM GLOBAL SETPOINTS. IF GLOBAL SETPOINTS ARE SUBSEQUENTLY RE-ADJUSTED, PROVIDE WARNING WITH A LIST OF UNITS WITH LOCAL OVERRIDES, BUT DO NOT RE-ADJUST LOCAL OVER-RIDE SETPOINTS GLOBALLY.
   - b. PROVIDE A PURGE VENTILATION MODE WITH INCREASED VENTILATION AS POSSIBLE WITHIN THE LIMITS OF THE EQUIPMENT. OPERATE WITH ALL THREE MODES DESCRIBED ABOVE WITH THE FOLLOWING MODIFICATIONS TO THE OCCUPIED PERIOD.
   - c. START OCCUPIED VENTILATION MODE 1 HOUR (ADJ) EARLIER AND END IT 4 HOURS (ADJ) LATER.
   - d. INCREASE VENTILATION AS POSSIBLE BY 100% (ADJ) WHERE 0% INCREASE IS THE MINIMUM VENTILATION DESCRIBED ABOVE AND 100% IS 100% OUTSIDE AIR WITH NO RETURN AIR.
   - e. MAINTAIN OCCUPIED SPACE TEMPERATURE AND INCREASED VENTILATION AS POSSIBLE WITHIN HEATING CAPACITY CONSTRAINTS OF LOCAL AND PLANT HEATING CAPACITY. IF SPACE TEMPERATURE DROPS MORE THAN 2 DEG. F (ADJ) BELOW SPACE HEATING SETPOINT WITH THE HEATING VALVE 100% OPEN, MODULATE VENTILATION RATE BACK TO MINIMUM SPECIFIED VENTILATION RATE DESCRIBED ABOVE WITH HEATING VALVE AT 100% OPEN.
5. SAFETIES:
   - a. A SEPARATE LOW LIMIT FREEZE STAT WITH AUTOMATIC RESET SHALL BE INSTALLED WITH SENSING ELEMENT SERPENTINED ACROSS THE FACE OF THE COIL; WHENEVER COIL FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJUSTABLE) THE SUPPLY FAN SHALL STOP, THE OUTSIDE AIR DAMPER SHALL CLOSE 100%, AND CONTROL VALVE SHALL OPEN 100%. AN ALARM SHALL ALSO BE ACTIVATED.
   - b. WHERE CONDENSATE PUMP IS PROVIDED, INTERLOCK WIRING SHALL DISABLE CONDENSING UNIT WHEN CONDENSATE PUMP HAS FAILED OR ITS OVERFLOW SWITCH IS TRIPPED.
   - c. UPON FAILURE OF THE FAN, AS SENSED BY THE CURRENT SENSING STATUS SWITCH, ACTIVATE AN ALARM.

12 UV - Hot Water - Valve Control and DX Cooling
NTS

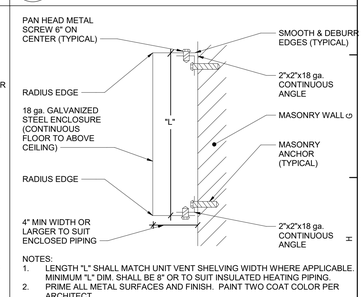


NOTES: 1. BRICK VENT INSTALLATION SIMILAR

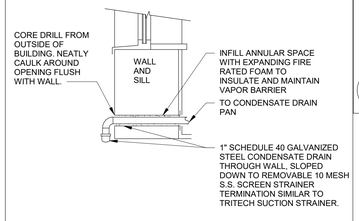
5 Storm Louver Detail
NTS



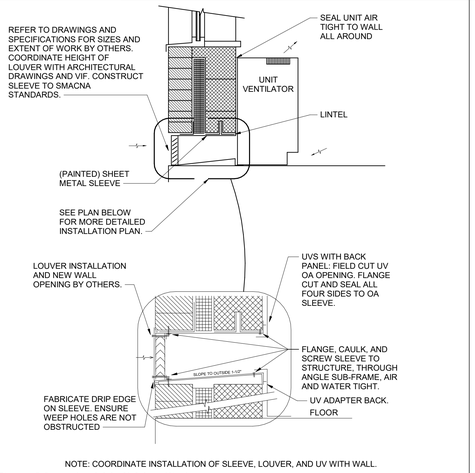
6 Fin Tube Radiation Piping Schematic
NTS



2 Vertical Piping Enclosure Detail
NTS

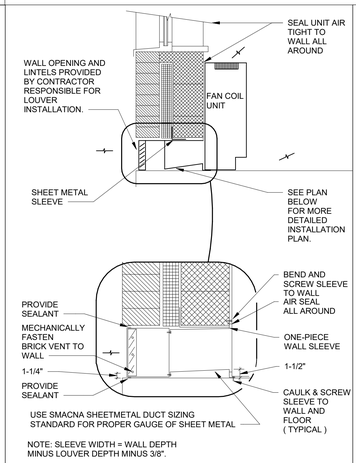


9 Exterior Wall Condensate Drain Detail
NTS



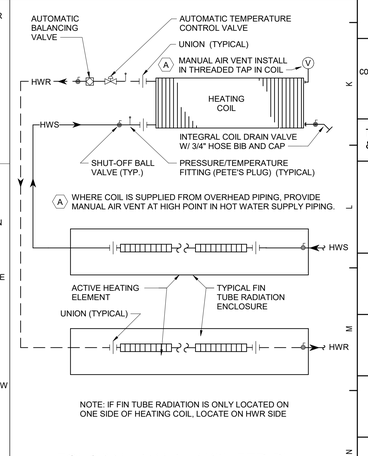
NOTE: COORDINATE INSTALLATION OF SLEEVE, LOUVER, AND UV WITH WALL.

10 Floor Mounted Unit Ventilator
NTS



NOTE: SLEEVE WIDTH = WALL DEPTH MINUS LOUVER DEPTH MINUS 3/8".

7 Floor Mounted Fan Coil Unit
NTS



NOTE: IF FIN TUBE RADIATION IS ONLY LOCATED ON ONE SIDE OF HEATING COIL, LOCATE ON HWR SIDE

3 FCU/UV Hot Water With FTR Piping Schematic
NTS

TEMPERATURE CONTROLS SYMBOLS LIST

AI	ANALOG IN
AO	ANALOG OUT
COM	COMMUNICATIONS PORT
CS	AIRBORNE CONTAMINANT SENSOR
DI	DIGITAL IN
	DAMPER MOTOR
DO	DIGITAL OUT
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
F	FLOW (WATER/AIR)
FM	FLOW METER
FS	AIR FLOW SENSOR
FZ	FREEZE STAT
H	HUMIDITY SENSOR
HL	HIGH LIMIT
KWH	KILOWATT HOUR METER
LL	LOW LIMIT
M/S	MANUAL SWITCH STOP / START
P	PRESSURE SENSOR
ΔP	DIFFERENTIAL PRESSURE
PS	POSITION SENSOR
S/S	STOP / START
SD	SMOKE DETECTOR
ST	STATUS
START	STARTER
T	ADJUSTABLE THERMOSTAT
TS	TEMPERATURE SENSOR
VFD	VARIABLE FREQUENCY DRIVE
WS	WATER SENSOR
%	PERCENT
ES	END SWITCH
BS	BOILER SWITCH

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

complex world | CLEAR SOLUTIONS

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

Details and Controls

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	BM500
Project No.: 279180-22004		

UNIT VENTILATOR (UV) SCHEDULE

DWG LABEL	LOCATION	MODEL NO.	SA CFM	MIN. OA	HEATING DATA NO. ROW	HEATING DATA EAT (°F)	HEATING DATA LAT (°F)	HEATING DATA CAP. (MBH)	HW COIL GPM	HW COIL WPD (FT HD)	COOLING DATA NO. ROWS	COOLING DATA EDB (°F)	COOLING DATA EWB (°F)	COOLING DATA LDB (°F)	COOLING DATA LWB (°F)	COOLING DATA TC (MBH)	COOLING DATA SC (MBH)	ESP (IN. WG.)	RPM	ELECTRICAL MOTOR QTY	MOTOR SIZE (HP)	V/PH	FLA	MCA	MOP	NOTES
UV-B-1	PRE-K 1	VUVE150	1130	510	2	40.9	110.0	91.4	4.6	4.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-2	KINDERGARTEN 2	VUVE125	990	330	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-3	PRE-K 3	VUVE125	990	330	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-4	KINDERGARTEN 4	VUVE125	990	330	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-5	KINDERGARTEN 5	VUVE125	990	340	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-6	KINDERGARTEN 6	VUVE150	1130	510	2	40.9	110.0	91.4	4.6	4.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-7	CLASSRM. 7	VUVE125	990	380	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-8	CLASSRM. 8	VUVE125	990	350	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-9	CLASSRM. 9	VUVE125	990	380	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-10	CLASSRM. 10	VUVE125	990	350	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-11	SPECIAL ED. 11	VUVE125	990	390	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-12	CLASSRM. 12	VUVE125	990	350	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-13	ART 13	VUVE150	990	400	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-14	CLASSRM. 14	VUVE125	990	350	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-15	CLASSRM. 15	VUVE125	990	360	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-16	CLASSRM. 16	VUVE125	990	370	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-17	CLASSRM. 17	VUVE125	990	350	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-18	CLASSRM. 18	VUVE125	990	360	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-11
UV-B-19	CLASSRM. 19	VUVE125	990	380	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-9,11
UV-B-20	CLASSRM. 20	VUVE125	990	390	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-9,11
UV-B-21	SPEECH 21	VUVE125	990	390	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-9,11
UV-B-22	MUSIC CLASSRM. 22	VUVE125	990	380	2	40.0	110.0	77.1	3.9	2.3	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-9,11
UV-B-137	LIBRARY 137	VUVE150	1130	520	2	40.9	110.0	91.4	4.6	4.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1120	2	0.25	120V/1ø	7.0	9.0	15	1,2,4,6-9,11
UV-B-E10	OT/PT E10	VUVE075	600	270	2	40.0	110.0	48.2	2.4	1.1	3	80.0	67.0	53.8	51.3	28.1	17.2	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-8, 10,11
UV-B-E16	FACULTY E16	VUVE075	600	160	2	51.2	110.0	43.7	2.2	1.0	3	80.0	67.0	53.8	51.3	28.1	17.2	0.00	1110	1	0.25	120V/1ø	3.5	4.5	15	1-8,11
UV-B-E18	SPEECH E18	VUVE075	450	140	2	43.5	110.0	39.8	2.0	0.9	0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	730	1	0.25	120V/1ø	3.5	4.5	15	1,2,4,6-11

NOTES:
1. DESIGN BASIS: TRANE
2. FLOOR MOUNTED UNIT
3. PROVIDE 1" MERV8 FILTERS.
4. HOT WATER COIL CONDITIONS: EWT=160°F, LWT=120°F
5. DX COIL CONDITIONS: SUCTION TEMP=45°F, LIQUID TEMP=110°F
6. VERIFY PIPE AND ELECTRICAL LEFT/RIGHT HAND CONNECTIONS PRIOR TO ORDERING.
7. UNIT 21-1/4" DEEP W/CLOSED PIPE TUNNEL.
8. NEMA 1 DISCONNECT SWITCH.
9. PROVIDE 1" MERV13 FILTER.
10. PROVIDE LOUVER AND WALL SLEEVE TO MATCH EXISTING WALL OPENING.
11. ADJUST UV FAN SPEED TO PROVIDE SCHEDULED SUPPLY AIR QUANTITY.

REMOTE CONDENSING UNIT (RCU) SCHEDULE

DWG LABEL	LOCATION	SERVES	MODEL NO.	REFRIG.	SUCTION (°F)	LIQUID (°F)	SUCTION SIZE	LIQUID SIZE	NOMINAL CAPACITY	COOLING CAPACITY	COMPRESSOR QTY & TYPE	FAN CONDENSER QTY & DRIVE TYPE	ELECTRICAL EER	MCA	MOP	V/PH	NET WEIGHT (LBS)	NOTES
RCU-1	GROUND	UV-B-E10	4TTR4030	R-410A	45	110	3/8"	3/4"	2.5 TONS	30000 Btu/h	1 SCROLL	1 DIRECT	12.2	17.0	25	208 V/2ø	160	1-9
RCU-2	GROUND	UV-B-E16	4TTR4030	R-410A	45	110	3/8"	3/4"	2.5 TONS	30000 Btu/h	1 SCROLL	1 DIRECT	12.2	17.0	25	208 V/1ø	160	1-9

NOTES:
1. DESIGN BASIS: TRANE
2. PROVIDE MOTOR STARTER AND NEMA 3R DISCONNECT.
3. PROVIDE DEFROST CONTROLS.
4. PROVIDE LOW AMBIENT OPERATION BELOW 60°F.
5. PROVIDE INTERNAL THERMAL PROTECTION.
6. PROVIDE BRAZED TUBING REFRIGERANT LINE SETS AND COUPLINGS.
7. FIELD CHARGE REFRIGERANT FOR SUPPLY LINE, CONDENSER AND COILS.
8. VERIFY LINE SIZES WITH MANUFACTURER.
9. PROVIDE 4" CONCRETE PAD.

FAN COIL UNIT (FCU) SCHEDULE

DWG LABEL	LOCATION	MODEL NO.	SA CFM	MIN. OA	HEATING DATA NO. ROW	HEATING DATA EAT (°F)	HEATING DATA LAT (°F)	HEATING DATA CAP. (MBH)	HW COIL GPM	HW COIL WPD (FT HD)	SUPPLY FAN ESP (IN. WG.)	SUPPLY FAN RPM	ELECTRICAL MOTOR SIZE (HP)	V/PH	FLA	MCA	MOP	NOTES
FCU-138	WORK 138	FCDB020	350	30	2	63.0	108.6	17.3	0.9	0.9	0.00	1280	0.13	120V/1ø	2.2	2.8	15	1-7
FCU-B-V2	VISITOR VEST V2	FCDB020	200	0	2	60.0	111.8	11.2	0.6	0.4	0.00	800	0.13	120V/1ø	2.2	2.8	15	1,3-8
FCU-E2	OFFICE E2	FCDB020	350	30	2	63.0	108.6	17.3	0.9	0.9	0.00	1280	0.13	120V/1ø	2.2	2.8	15	1-7
FCU-E4	CONFERENCE E4	FCDB020	250	70	2	51.5	109.7	15.8	0.8	0.7	0.00	960	0.13	120V/1ø	2.2	2.8	15	1-7
FCU-E5	NURSE E5	FCDB020	300	30	2	62.1	110.4	15.7	0.8	0.7	0.00	1120	0.13	120V/1ø	2.2	2.8	15	1-7
FCU-E8	CONF. E8	FCDB020	250	70	2	51.5	109.7	15.8	0.8	0.7	0.00	960	0.13	120V/1ø	2.2	2.8	15	1-7
FCU-E13	BOOKS E13	FCDB020	200	20	2	62.1	113.9	11.2	0.6	0.4	0.00	800	0.13	120V/1ø	2.2	2.8	15	1-7
FCU-E14	PSYC. E14	FCDB020	200	20	2	62.1	113.9	11.2	0.6	0.4	0.00	800	0.13	120V/1ø	2.2	2.8	15	1-7
FCU-E15	S.W. E15	FCDB020	200	20	2	62.1	113.9	11.2	0.6	0.4	0.00	800	0.13	120V/1ø	2.2	2.8	15	1-7
FCU-E28	PRINC. E28	FCDB020	200	50	2	53.3	105.1	11.2	0.6	0.4	0.00	800	0.13	120V/1ø	2.2	2.8	15	1-7

NOTES:
1. DESIGN BASIS: TRANE
2. VERTICAL CABINET UNIT
3. HOT WATER COIL CONDITIONS: EWT=160°F, LWT=120°F
4. PROVIDE 1" MERV13 FILTER.
5. VERIFY PIPE AND ELECTRICAL LEFT/RIGHT HAND CONNECTIONS PRIOR TO ORDERING.
6. PROVIDE RETURN AIR BOTTOM INLET TOP GRILLE OUTLET AND OUTSIDE AIR WALL BOX..
7. PROVIDE NEMA 1 DISCONNECT SWITCH.
8. CEILING CABINET UNIT.

LOUVER (L) SCHEDULE

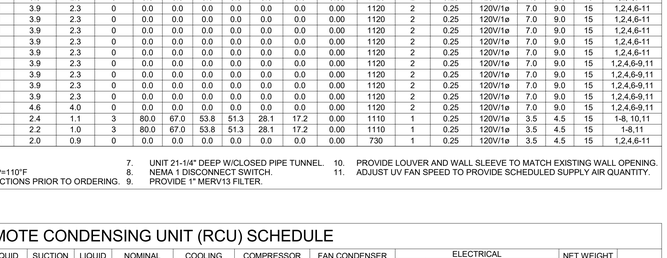
DWG LABEL	SERVES	MODEL NO.	TYPE	LENGTH (IN)	HEIGHT (IN)	DEPTH (IN)	FREE AREA (S.F.)	AIRFLOW (CFM)	VELOCITY (FPM)	MAX APD (IN WG)	NOTES
L-C-1	EXISTING AHU	ESD-635	INTAKE	72	26	6	6.00	4500	750	0.08	1-5

NOTES:
1. DESIGN BASIS: GREENHECK
2. PROVIDE WITH KYNAR FINISH.
3. COLOR TO BE SELECTED BY ARCHITECT.
4. PROVIDE WITH EXTENDED SILL.
5. PROVIDE WITH ALUMINUM BIRDSCREEN IN REMOVABLE FRAME.

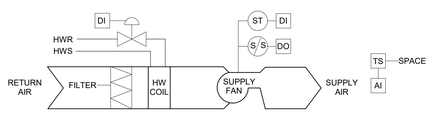
GLENHAM BUILDING/EQUIPMENT VENTILATION CALCULATIONS

EQUIPMENT NUMBER	ZONE ID: ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az - AREA (SF)	MINIMUM VENTILATION RATES: Pz - ZONE OCCU. #1000 FT	ZONE OCCU.	Rp (CFM/ Person)	RpP	Ra (CFM/SF)	RaA	Vbz (CFM)	EZ	Voz (CFM)
UV	1	PRE-K	CLASSROOMS (AGE 9 PLUS)	1071	35	38	10	380	0.12	129	509	0.9	570
UV	2	KINDERGARTEN	CLASSROOMS (AGE 9 PLUS)	705	35	25	10	250	0.12	85	335	0.9	370
UV	3	PRE-K	CLASSROOMS (AGE 9 PLUS)	691	35	25	10	250	0.12	83	333	0.9	370
UV	4	KINDERGARTEN	CLASSROOMS (AGE 9 PLUS)	706	35	25	10	250	0.12	85	335	0.9	370
UV	5	KINDERGARTEN	CLASSROOMS (AGE 9 PLUS)	710	35	25	10	250	0.12	85	335	0.9	370
UV	6	KINDERGARTEN	CLASSROOMS (AGE 9 PLUS)	1078	35	38	10	380	0.12	129	509	0.9	570
UV	7	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	803	35	29	10	290	0.12	96	386	0.9	430
UV	8	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	745	35	27	10	270	0.12	89	359	0.9	400
UV	9	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	795	35	28	10	280	0.12	95	375	0.9	420
UV	10	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	731	35	26	10	260	0.12	88	348	0.9	390
UV	11	SPECIAL ED.	CLASSROOMS (AGE 9 PLUS)	815	35	29	10	290	0.12	98	388	0.9	430
UV	12	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	733	35	26	10	260	0.12	88	348	0.9	390
UV	13	ART	ART CLASSROOM	841	20	17	10	170	0.18	151	321	0.9	360
UV	14	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	735	35	26	10	260	0.12	88	348	0.9	390
UV	15	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	769	35	27	10	270	0.12	92	362	0.9	400
UV	16	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	776	35	28	10	280	0.12	93	373	0.9	410
UV	17	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	743	35	27	10	270	0.12	89	359	0.9	400
UV	E18	SPEECH	CLASSROOMS (AGE 9 PLUS)	296	35	11	10	110	0.12	36	146	0.9	160
UV	18	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	759	35	27	10	270	0.12	91	361	0.9	400
UV	19	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	799	35	28	10	280	0.12	96	376	0.9	420
UV	20	CLASSRM.	CLASSROOMS (AGE 9 PLUS)	831	35	30	10	300	0.12	100	400	0.9	440
UV	21	SPEECH	CLASSROOMS (AGE 9 PLUS)	821	35	29	10	290	0.12	99	389	0.9	430
UV	22	MUSIC CLASSRM.	CLASSROOMS (AGE 9 PLUS)	812	35	29	10	290	0.12	97	387	0.9	430
FCU	E2	OFFICE	OFFICE SPACE	352	5	2	5	10	0.06	21	31	0.9	30
FCU	E4	CONF.	CONFERENCE/MEETING	198	50	10	5	50	0.06	12	62	0.9	70
FCU	E5	NURSE	OFFICE SPACE	282	5	2	5	10	0.06	17	27	0.9	30
	E6	ATTENDANCE OFFICE	OFFICE SPACE	82	5	1	5	5	0.06	5	10	0.9	10
FCU	E8	CONF.	CONFERENCE/MEETING	197	50	10	5	50	0.06	12	62	0.9	70
UV	E10	OT/PT	CLASSROOMS (AGE 9 PLUS)	565	35	20	10	200	0.12	68	268	0.9	300
FCU	E13	BOOKS	OFFICE SPACE	184	5	1	5	5	0.06	11	16	0.9	20
FCU	E14	PSYC.	OFFICE SPACE	182	5	1	5	5	0.06	11	16	0.9	20
FCU	E15	S.W.	OFFICE SPACE	179	5	1	5	5	0.06	11	16	0.9	20
UV	E16	FACULTY	BREAKROOMS	424	50	22	5	110	0.12	51	161	0.9	180
UV	E17	LIBRARY	CLASSROOMS (AGE 9 PLUS)	1093	35	39	10	390	0.12	131	521	0.9	580
FCU	138	WORK	OFFICE SPACE	146	5	1	5	5	0.06	9	14	0.9	20
FCU	E28	PRINC.	CONFERENCE/MEETING	143	50	8	5	40	0.06	9	49	0.9	50

NOTES:
Rp = PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW ,
Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW



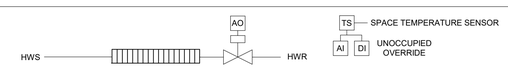
1 Light Equipment Hanging Detail
NTS



FAN COIL UNIT - HOT WATER - NO OUTSIDE AIR - VALVE CONTROL - SEQUENCE OF OPERATIONS:

1. OCCUPIED MODE:
   a. ON DROP IN SPACE TEMPERATURE BELOW OCCUPIED HEATING SETPOINT, CYCLE THE FAN ON AND OPEN CONTROL VALVE FULL TO MAINTAIN SPACE OCCUPIED SETPOINT, FAN SHALL HAVE DELAYED SHUT OFF AFTER VALVE CLOSES. USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.
2. UNOCCUPIED MODE:
   a. ON DROP IN SPACE TEMPERATURE BELOW UNOCCUPIED HEATING SETPOINT, CYCLE THE FAN ON AND OPEN CONTROL VALVE FULL TO MAINTAIN SPACE UNOCCUPIED SETPOINT, FAN SHALL HAVE A DELAYED SHUT OFF AFTER VALVE CLOSES. USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.
3. SAFETIES:
   a. PROVIDE CURRENT SENSOR TO SENSE THE STATUS OF THE FANS. WHEN FAN MOTOR AMP DRAW IS OUT OF NORMAL RANGE, GENERATE AN ALARM AT THE OWS.

3 Fan Coil Unit - Hot Water - Valve Control
NTS



FIN TUBE RADIATION - HOT WATER - WITH 2-WAY CONTROL VALVE - SEQUENCE OF OPERATIONS:

1. OCCUPIED MODE:
   a. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE OCCUPIED HEATING SETPOINT, THE CONTROL VALVE SHALL OPEN 100% TO MAINTAIN OCCUPIED SPACE SETPOINT.
2. UNOCCUPIED MODE:
   a. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE UNOCCUPIED HEATING SETPOINT, THE CONTROL VALVE SHALL OPEN 100% TO MAINTAIN UNOCCUPIED SPACE SETPOINT.
3. WARM-UP MODE:
   a. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE OCCUPIED HEATING SETPOINT, THE CONTROL VALVE SHALL OPEN 100% TO MAINTAIN OCCUPIED SPACE SETPOINT.
4. SAFETIES:
   a. IF THE SPACE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY 10 DEG. F (ADJUSTABLE), THE CONTROL VALVE SHALL OPEN 100%. AN ALARM SHALL BE ACTIVATED.

2 Fin Tube Radiation - Hot Water - 2-Way Control Valve
NTS

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

Schedules, Details and Controls

Drawn By: JPF1/pgm
Date: 10/28/2022
Project No.: 279180-22004
Drawing Number: BM600

Keyed Notes:

1. REMOVE LUMINAIRE(S) AND CIRCUITRY COMPLETE BACK TO SOURCE.
2. REMOVE WALL MOUNTED EMERGENCY LIGHT. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.
3. REMOVE LIGHT SWITCH(ES) CONTROLLING CORRIDOR LUMINAIRES. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT. PROVIDE BLANK COVER PLATE.
4. REMOVE, CLEAN AND STORE FIRE ALARM STROBE.
5. REMOVE JUNCTION BOX.
6. REMOVE, CLEAN AND STORE SPEAKER.
7. DISCONNECT POWER CIRCUITRY TO HAND DRYER, TAG FOR RE-USE.
8. DISCONNECT POWER CIRCUITRY TO HVAC EQUIPMENT AND TAG FOR RE-USE.
9. REMOVE POWER CIRCUITRY TO HVAC EQUIPMENT COMPLETE BACK TO SOURCE. LABEL ANY UNUSED CIRCUIT BREAKERS AS "SPARE". AMEND PANEL DIRECTORY AS NECESSARY.
10. REMOVE RECEPTACLE COMPLETE BACK TO SOURCE.
11. REMOVE FIRE ALARM HORN STROBE AND TELEPHONE LINE, PREPARE FOR RE-INSTALLATION.

Demolition General Notes

A. ALL ELECTRICAL DEVICES INTERFERING WITH DEMOLITION WORK SHALL BE DISCONNECTED AND REMOVED, UNLESS OTHERWISE NOTED. EXISTING CIRCUIT WIRING SHALL BE REMOVED BACK TO SOURCE AND PANEL DIRECTORIES MODIFIED ACCORDINGLY.

B. ANY DEVICE INTERFERING WITH DEMOLITION WORK NOT SHOWN ON THESE DRAWINGS SHALL NOT BE REMOVED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE OR THE ENGINEER.

C. ALL ELECTRICAL DEMOLITION WORK SHALL BE PROPERLY COORDINATED WITH ALL OTHER TRADES.

D. EC IS SOLELY RESPONSIBLE FOR THE SAFE HANDLING AND DISPOSAL OF ALL REMOVED LUMINAIRES AND BALLASTS THAT MAY CONTAIN PCBs (POLYCHLORINATED BIPHENYLS), IN ACCORDANCE WITH ALL APPLICABLE EPA, OSHA, FEDERAL, STATE, AND LOCAL CODES AND LAWS.

E. EC IS SOLELY RESPONSIBLE FOR THE SAFE HANDLING AND DISPOSAL OF ALL REMOVED FLUORESCENT LIGHT TUBES THAT MAY CONTAIN MERCURY, IN ACCORDANCE WITH ALL APPLICABLE EPA, OSHA, FEDERAL, STATE, AND LOCAL CODES AND LAWS.

F. AT ALL CORRIDORS WHERE NEW CEILINGS ARE BEING INSTALLED, DISCONNECT AND REMOVE DEVICES AS INDICATED, TAG EXISTING WIRING FOR REUSE.

G. ALL DEVICES THAT ARE SCHEDULED TO BE REMOVED, CLEANED, STORED AND RE-INSTALLED SHALL BE TESTED PRIOR TO REMOVAL. IF ANY DEVICES IS NOT IN WORKING ORDER, NOTIFY ENGINEER AND OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.

General Notes

A. COORDINATE ALL ELECTRICAL WORK AND POWER OUTAGES WITH OWNER AND OTHER TRADES PRIOR TO THE START OF CONSTRUCTION. NO POWER OUTAGES SHALL OCCUR WITHOUT OWNER'S PRIOR KNOWLEDGE AND CONSENT.

B. REFER TO DRAWING G100 FOR STANDARD SYMBOLS AND ABBREVIATIONS.

C. CIRCUIT WIRING FOR ALL LIGHTING CIRCUITS SHALL BE IN 1/2" EMT CONDUIT (MIN) OR TYPE MC CABLE CONCEALED ABOVE CEILINGS AND IN WALLS (REFER TO SPECIFICATION SECTION 26 05 33 FOR LOCATIONS WHERE MC CABLE IS ACCEPTABLE). ALL CIRCUIT CONDUCTORS SHALL BE #12AWG COPPER (MIN) 90°C THHN THERMOPLASTIC INSULATION.

D. CIRCUIT EXIT AND EMERGENCY LUMINAIRES TO UNSWITCHED HOT LEG OF LIGHTING CIRCUIT OF THE AREA BEING SERVED BY OR ADJACENT TO THE LUMINAIRE. REFER TO PLANS AND DETAILS FOR MINIATURE INVERTER INFORMATION.

E. PROPERLY IDENTIFY ALL CIRCUITS AT PANELS AND J-BOXES AND IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

F. PROVIDE ALL ADAPTERS, COUPLINGS AND ASSOCIATED FITTINGS REQUIRED FOR COMPLETE OPERATIONAL SYSTEM.

G. WHEN INSTALLING NEW DEVICES IN EXISTING LOCATIONS, REUSE EXISTING CONDUIT/RACEWAY AND BACK BOXES IF IN GOOD CONDITION. EXTEND/INSTALL NEW CONDUIT/RACEWAY AS REQUIRED FOR PROPER MOUNTING OF DEVICE. CONCEAL ABOVE CEILINGS OR WITHIN WALLS WHERE POSSIBLE. REFER TO SPECIFICATION SECTION 26 05 33.

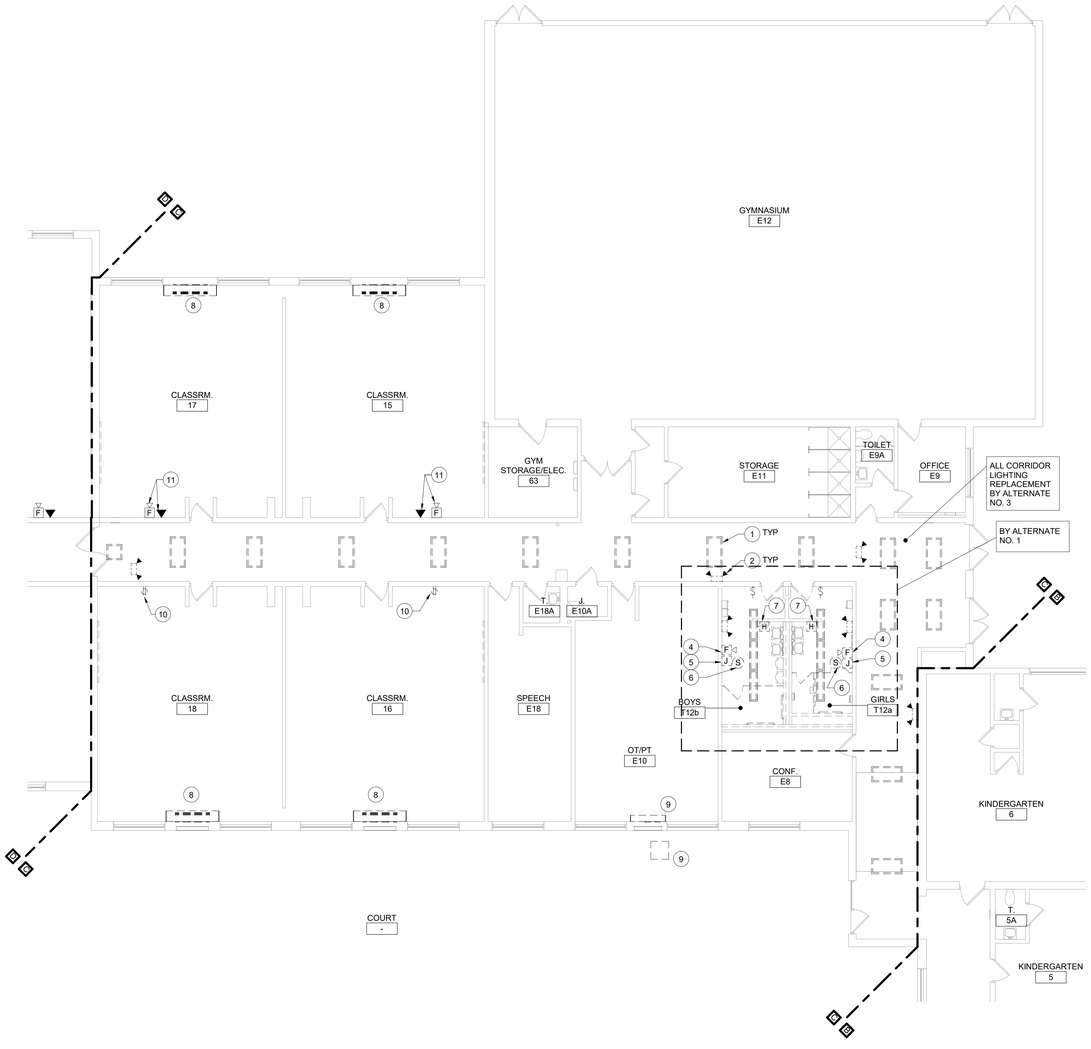
H. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.

I. TESTS OF ALL ELECTRICAL WORK SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER OR ARCHITECT, AS EQUIPMENT IS INSTALLED AND AS SYSTEMS ARE COMPLETED. IN ADDITION AN ELECTRIC APPROVED CERTIFICATE SHALL BE ISSUED BY AN ELECTRICAL INSPECTION AGENCY.

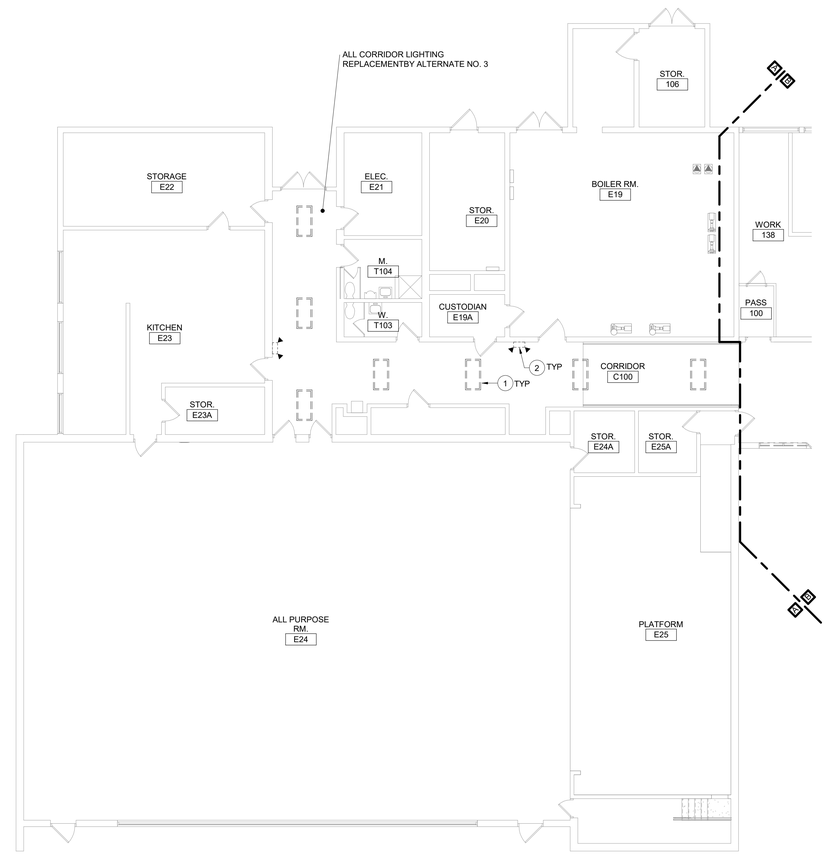
J. UNLESS NOTED ELSEWHERE ON THE CONTRACT DOCUMENTS, THE FOLLOWING LIST REPRESENTS THE TYPICAL MOUNTING HEIGHTS FOR THE DEVICES SHOWN:

1. SWITCHES AND PANIC STATIONS.....48" (TO TOP)
2. RECEPTACLES.....16"
3. COMPUTER RECEPTACLES.....48" (TO TOP)
4. WALL (W) TELEPHONE AND CALL SWITCHES.....48" (TO TOP)
5. TELEPHONE OUTLETS (UNLABELED).....16"
6. VOLUME CONTROLS.....48" (TO TOP)
7. TELEVISION OUTLETS.....16"
8. FIRE ALARM PULL STATIONS.....48" (TO TOP)
9. FIRE ALARM AUDIO/VISUAL UNITS.....88"
   * (OR 6" BELOW CEILING, WHICHEVER IS LOWER)
10. POWER PANELS.....72" (TO TOP)
11. DISCONNECT SWITCHES.....60" (TO TOP)
12. MOTOR STARTERS.....60" (TO TOP)

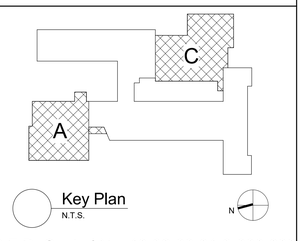
THE HEIGHTS INDICATED SHALL BE NOMINAL TO THE BOTTOM OF THE BOX UNLESS NOTED OTHERWISE. MAINTAIN HEIGHT CONSISTENCY BETWEEN NEW AND EXISTING DEVICES.



2 First Floor Demolition Plan - Area C
1/8" = 1'-0"



1 First Floor Demolition Plan - Area A
1/8" = 1'-0"



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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

BID SET

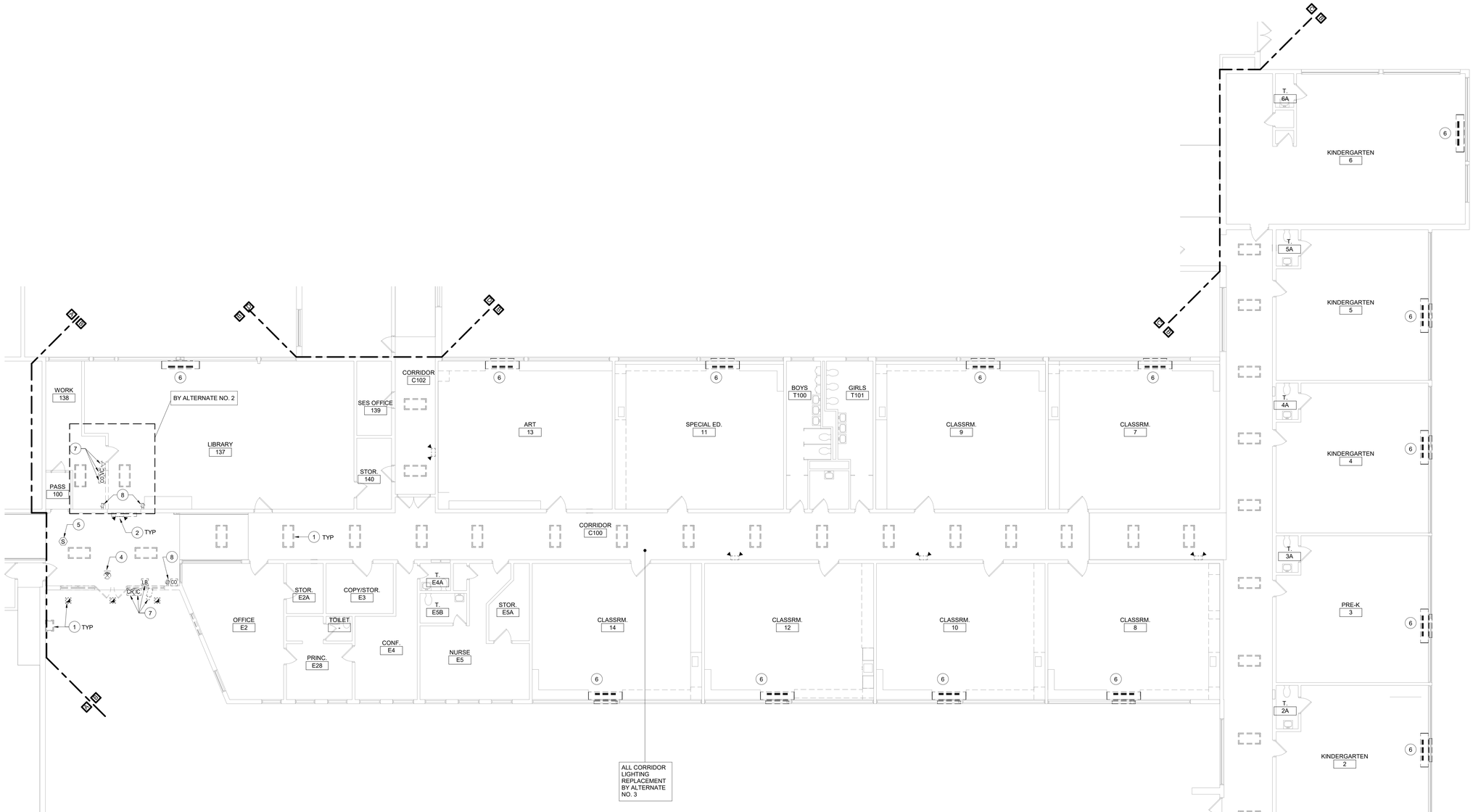
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

First Floor Demolition Plan - Areas A and C

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	BE100
Project No.: 279180-22004		



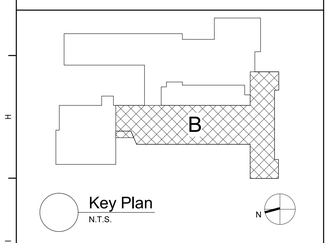
1 First Floor Demolition Plan - Area B
1/8" = 1'-0"

Keyed Notes:

1. REMOVE LUMINAIRE(S) AND CIRCUITRY COMPLETE BACK TO SOURCE.
2. REMOVE WALL MOUNTED EMERGENCY LIGHT. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.
3. REMOVE LIGHT SWITCH(ES) CONTROLLING CORRIDOR LUMINAIRES. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT. PROVIDE BLANK COVER PLATE.
4. REMOVE EXIT LIGHT.
5. REMOVE SMOKE DETECTOR.
6. DISCONNECT POWER CIRCUITRY TO HVAC EQUIPMENT AND TAG FOR RE-USE.
7. REMOVE DEVICES SHOWN, CLEAN AND STORE FOR RE-INSTALLATION.
8. REMOVE RECEPTACLE. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT

General Notes:

A. REFER TO DRAWING BE100 FOR GENERAL NOTES



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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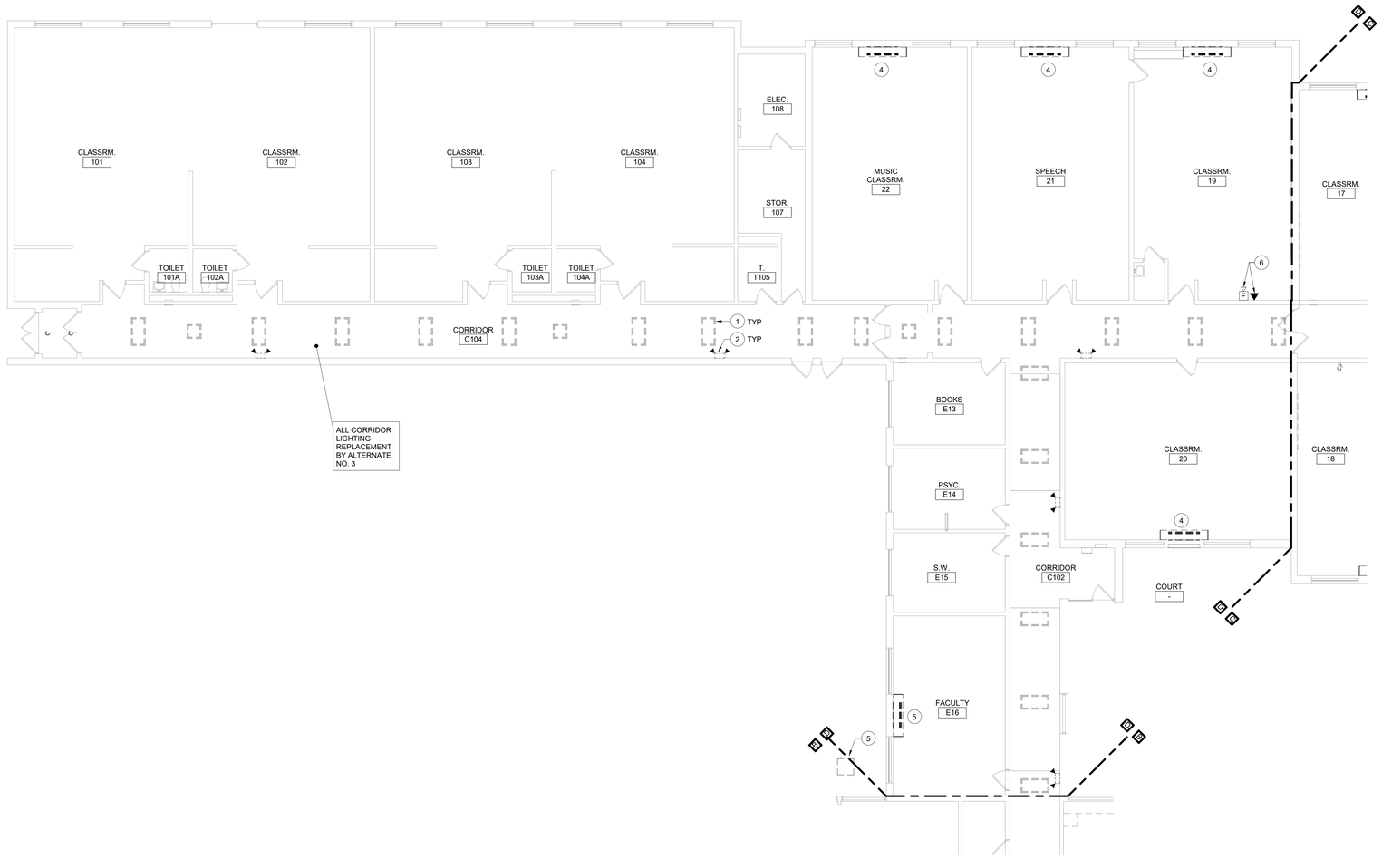
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

First Floor Demolition Plan - Area B

Drawn By:	Date:	Drawing Number:
Author	10/28/2022	BE101
Project No.: 279180-22004		



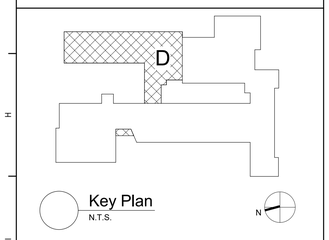
1 Partial First Floor Demolition Plan - Area D
1/8" = 1'-0"

Keyed Notes:

1. REMOVE LUMINAIRE(S) AND CIRCUITRY COMPLETE BACK TO SOURCE.
2. REMOVE WALL MOUNTED EMERGENCY LIGHT. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.
3. REMOVE LIGHT SWITCH CONTROLLING CORRIDOR LUMINAIRES. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT. PROVIDE BLANK COVER PLATE.
4. DISCONNECT POWER CIRCUITRY TO HVAC EQUIPMENT AND TAG FOR RE-USE.
5. REMOVE POWER CIRCUITRY TO HVAC EQUIPMENT COMPLETE BACK TO SOURCE. LABEL ANY UNUSED CIRCUIT BREAKERS AS "SPARE". AMEND PANEL DIRECTORY AS NECESSARY.
6. REMOVE FIRE ALARM HORN STROBE AND TELEPHONE LINE, PREPARE FOR RE-INSTALLATION.

General Notes:

A. REFER TO DRAWING BE100 FOR GENERAL NOTES



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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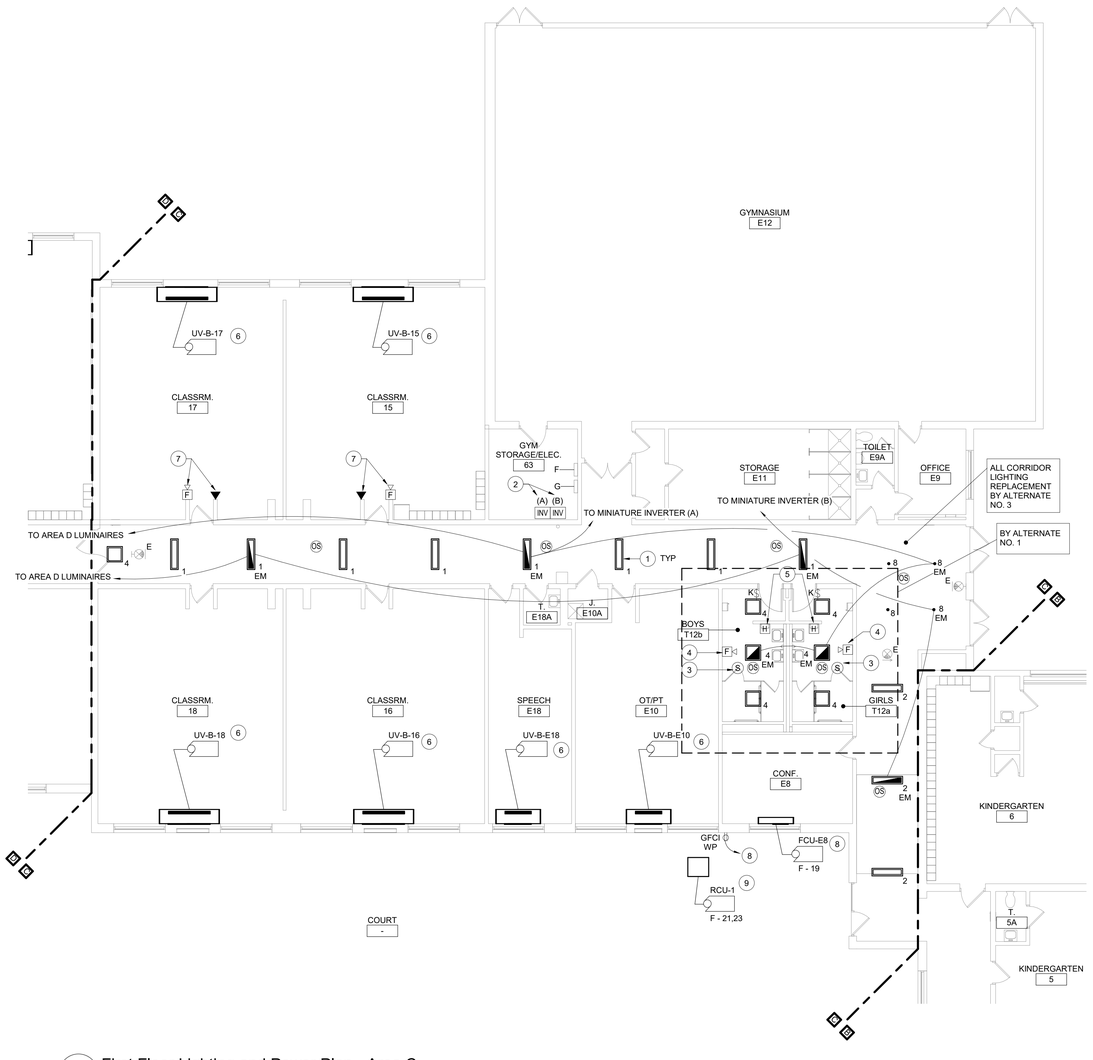
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

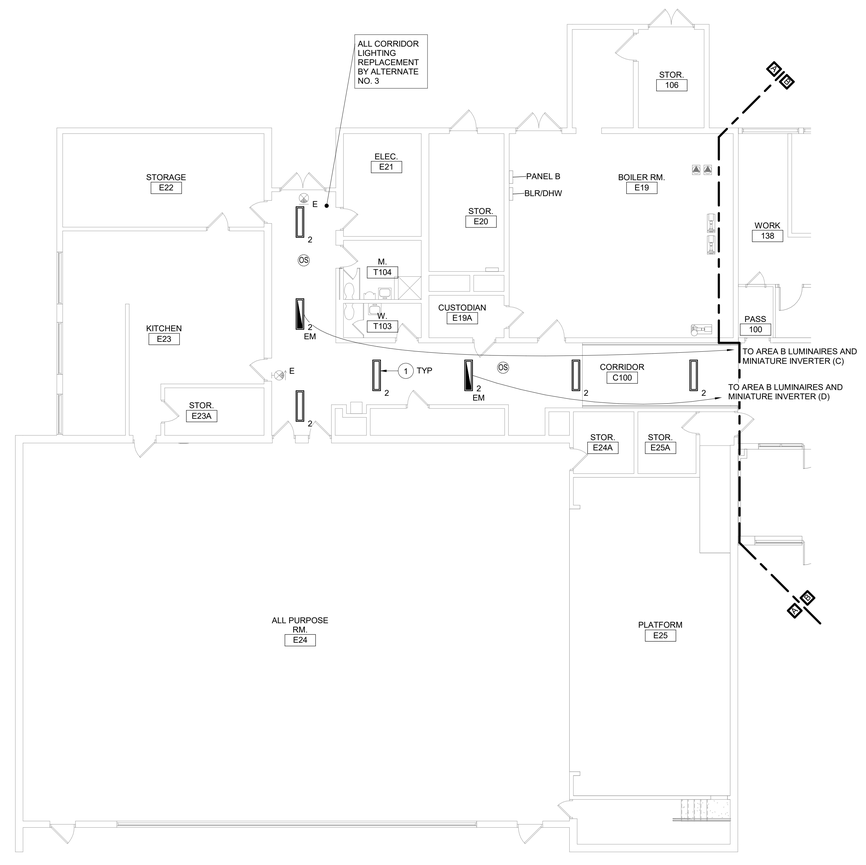
Additions and Alterations to:
Glenham Elementary School

First Floor Demolition Plan - Area D

Drawn By:	Date:	Drawing Number:
Author	10/28/2022	BE102
Project No.: 279180-22004		



2 First Floor Lighting and Power Plan - Area C
1/8" = 1'-0"



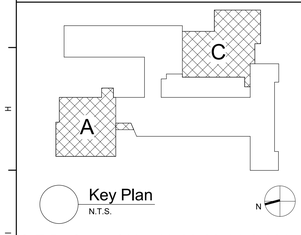
1 First Floor Lighting and Power Plan - Area A
1/8" = 1'-0"

Keyed Notes:

1. CONNECT LUMINAIRES TO EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING THE AREA USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. LUMINAIRES TO BE CONTROLLED BY OCCUPANCY SENSORS AND DIRECT DIGITAL CONTROL SYSTEM.
2. PROVIDE WALL MOUNTED MINIATURE INVERTER BASED ON MODEL VESTA MAX MODEL VST-MAX-375W-UNV-4CK. MOUNT AT 72" AFF. COORDINATE FINAL LOCATION WITH OWNER. CONNECT EVERY OTHER EMERGENCY LUMINAIRE PER CORRIDOR TO ADJACENT INVERTER TO AVOID TOTAL OUTAGE UPON BATTERY FAILURE. REFER TO WIRING DIAGRAM ON DRAWING BE500.
3. RE-INSTALL STORED SPEAKER TO LOCATION SHOWN. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
4. RE-INSTALL STORED FIRE ALARM STROBE TO LOCATION SHOWN. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
5. RE-CONNECT TAGGED POWER CIRCUITRY TO HAND DRYER. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
6. RE-CONNECT TAGGED POWER CIRCUITRY TO HVAC EQUIPMENT. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
7. RE-INSTALL FIRE ALARM HORN STROBE AND TELEPHONE LINE AT LOCATION SHOWN. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
8. PROVIDE 20A1P BREAKER IN AVAILABLE SPACE IN PANEL F IN GYM STORAGE/ELEC 63. CONNECT USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. NEW BREAKER TO BE UL LISTED FOR USE IN PANEL AND MEET OR EXCEED AIC RATING OF EXISTING PANEL. AMEND PANEL DIRECTORY ACCORDINGLY.
9. PROVIDE 30A2P BREAKER IN AVAILABLE SPACE IN PANEL F IN GYM STORAGE/ELEC 63. CONNECT USING (2)#10, (1)#10 G. IN 1/2" CONDUIT. NEW BREAKER TO BE UL LISTED FOR USE IN PANEL AND MEET OR EXCEED AIC RATING OF EXISTING PANEL. AMEND PANEL DIRECTORY ACCORDINGLY.

General Notes:

A. REFER TO DRAWING BE100 FOR GENERAL NOTES.
B. REFER TO DRAWING BE500 FOR LUMINAIRE SCHEDULE.
C. SECURE ALL EXISTING UNSUPPORTED CABLES ABOVE DISTURBED CEILINGS IN CORRIDORS USING J HOOKS OR CABLETRAYS.
D. PATCH/REPLACE CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK.
E. INVERTER SYSTEM EMERGENCY OUTPUT CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT SYSTEMS AND NOT SHARED WITH OTHER ELECTRICAL CIRCUITS AS DESCRIBED IN NEC 700-9(B).
F. LIGHTING CONTROL SEQUENCE:
TOILETS:
PERSON ENTERS THE ROOM AND LUMINAIRES TURN ON TO 100% OUTPUT BY OCCUPANCY SENSOR. WHEN PERSON EXITS THE ROOM THE OCCUPANCY SENSOR WILL TURN OFF THE LUMINAIRES AFTER 15 MINUTES. MANUAL CONTROL BY LINE VOLTAGE KEYED SWITCH.
LOBBY/VESTIBULES/CORRIDORS:
PERSON ENTERS THE AREA, LUMINAIRES TURN ON TO 100% OUTPUT AUTOMATICALLY BY OCCUPANCY SENSOR. PERSON EXITS THE AREA, LUMINAIRES DIM TO 50% OUTPUT (MAINTAINING EGRESS LEVEL ILLUMINATION) . MANUAL CONTROL BY BUILDING MANAGEMENT SYSTEM.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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BID SET

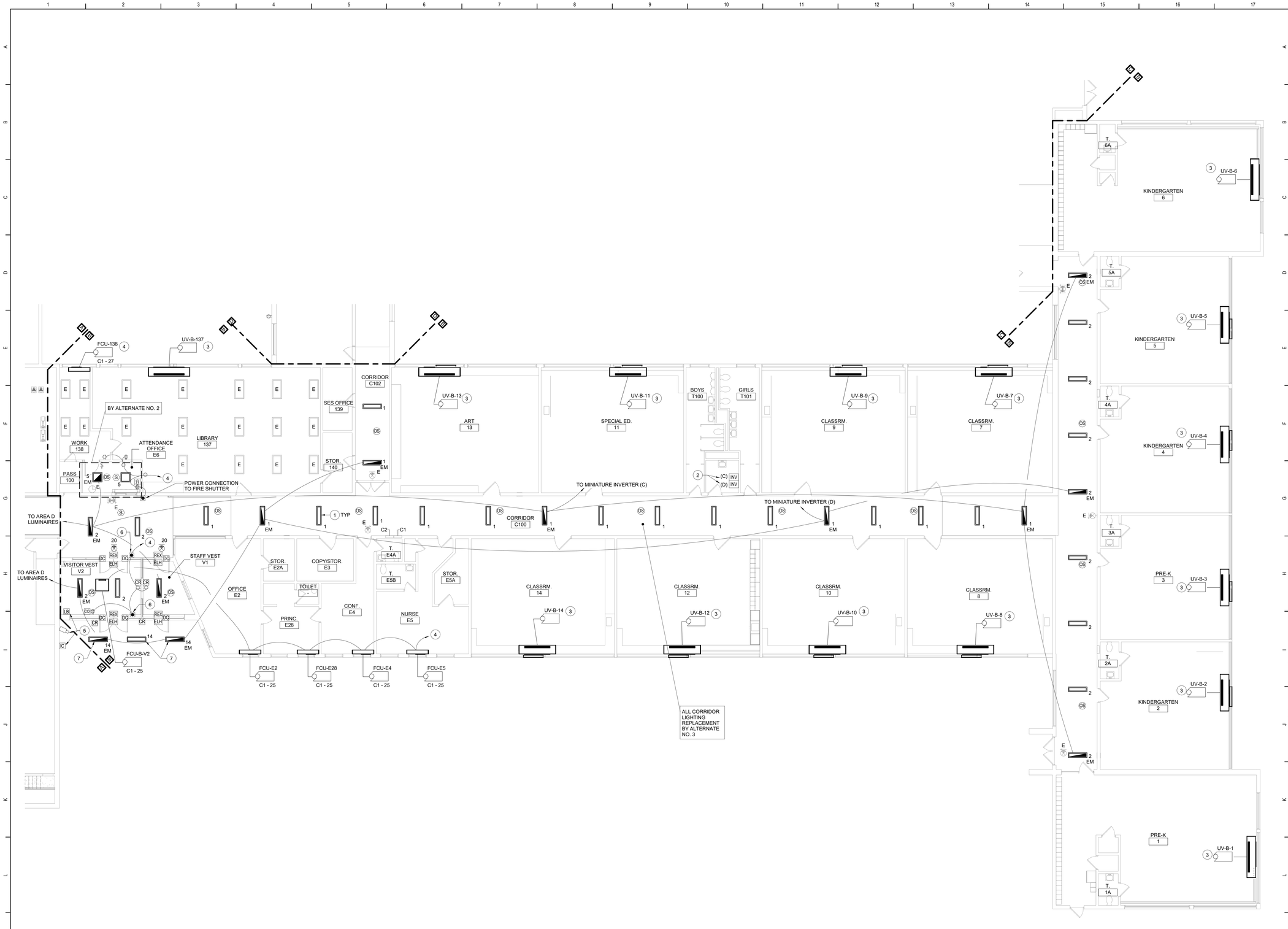
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

First Floor Lighting and Power Plan - Areas A and C

Drawn By:	Date:	Drawing Number:
CR	10/28/2022	BE130
Project No.: 279180-22004		



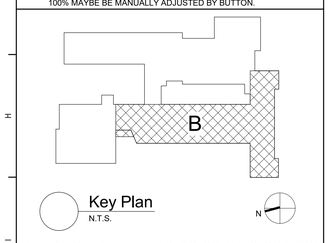
1 First Floor Lighting and Power Plan - Area B
1/8" = 1'-0"

Keyed Notes:

1. CONNECT LUMINAIRES TO EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING THE AREA USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. LUMINAIRES TO BE CONTROLLED BY OCCUPANCY SENSORS AND DIRECT DIGITAL CONTROL SYSTEM.
2. PROVIDE WALL MOUNTED MINIATURE INVERTER BASED ON MODEL VESTA MAX MODEL VST-MAX-375W-UNV-4CK. MOUNT AT 72" AFF. COORDINATE FINAL LOCATION WITH OWNER. CONNECT EVERY OTHER EMERGENCY LUMINAIRE PER CORRIDOR TO ADJACENT INVERTER TO AVOID TOTAL OUTAGE UPON BATTERY FAILURE. REFER TO WIRING DIAGRAM ON DRAWING BE500.
3. RE-CONNECT TAGGED POWER CIRCUITRY TO HVAC EQUIPMENT. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
4. CIRCUIT TO SPARE 20A1P BREAKER IN PANEL C1 IN CORRIDOR C100. CONNECT USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. AMEND PANEL DIRECTORY ACCORDINGLY.
5. RELOCATE DEVICES TO LOCATION SHOWN. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
6. PROVIDE POWER CONNECTION TO POWER SUPPLY FOR DOOR HARDWARE.
7. CONNECT EXTERIOR LUMINAIRES TO EXISTING CIRCUITRY PREVIOUSLY SERVING THE AREA. CONNECT LUMINAIRES TO EXISTING EXTERIOR LIGHTING CONTROLS.

General Notes:

A. REFER TO DRAWING BE100 FOR GENERAL NOTES.
B. REFER TO DRAWING BE500 FOR LUMINAIRE SCHEDULE.
C. SECURE ALL EXISTING UNSUPPORTED CABLES ABOVE DISTURBED CEILINGS IN CORRIDORS USING J HOOKS OR CABLETRAYS.
D. PATCH/REPLACE CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK.
E. INVERTER SYSTEM EMERGENCY OUTPUT CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT SYSTEMS AND NOT SHARED WITH OTHER ELECTRICAL CIRCUITS AS DESCRIBED IN NEC 700-9(B).
F. LIGHTING CONTROL SEQUENCES:
LOBBY/VESTIBULES/CORRIDORS:
PERSON ENTERS THE AREA, LUMINAIRES TURN ON TO 100% OUTPUT AUTOMATICALLY BY OCCUPANCY SENSOR. PERSON EXITS THE AREA, LUMINAIRES DIM TO 50% OUTPUT (MAINTAINING EGRESS LEVEL ILLUMINATION) . MANUAL CONTROL BY BUILDING MANAGEMENT SYSTEM.
OFFICES:
PERSON ENTERS THE ROOM AND LUMINAIRES TURN ON TO 50% OUTPUT BY OCCUPANCY SENSOR. WHEN PERSON EXITS THE ROOM THE OCCUPANCY SENSOR WILL TURN OFF THE LUMINAIRES AFTER 15 MINUTES. LOW VOLTAGE LIGHTING CONTROL. BUTTON CAPABLE OF ON/OFF, 50% AND 100% MAYBE BE MANUALLY ADJUSTED BY BUTTON.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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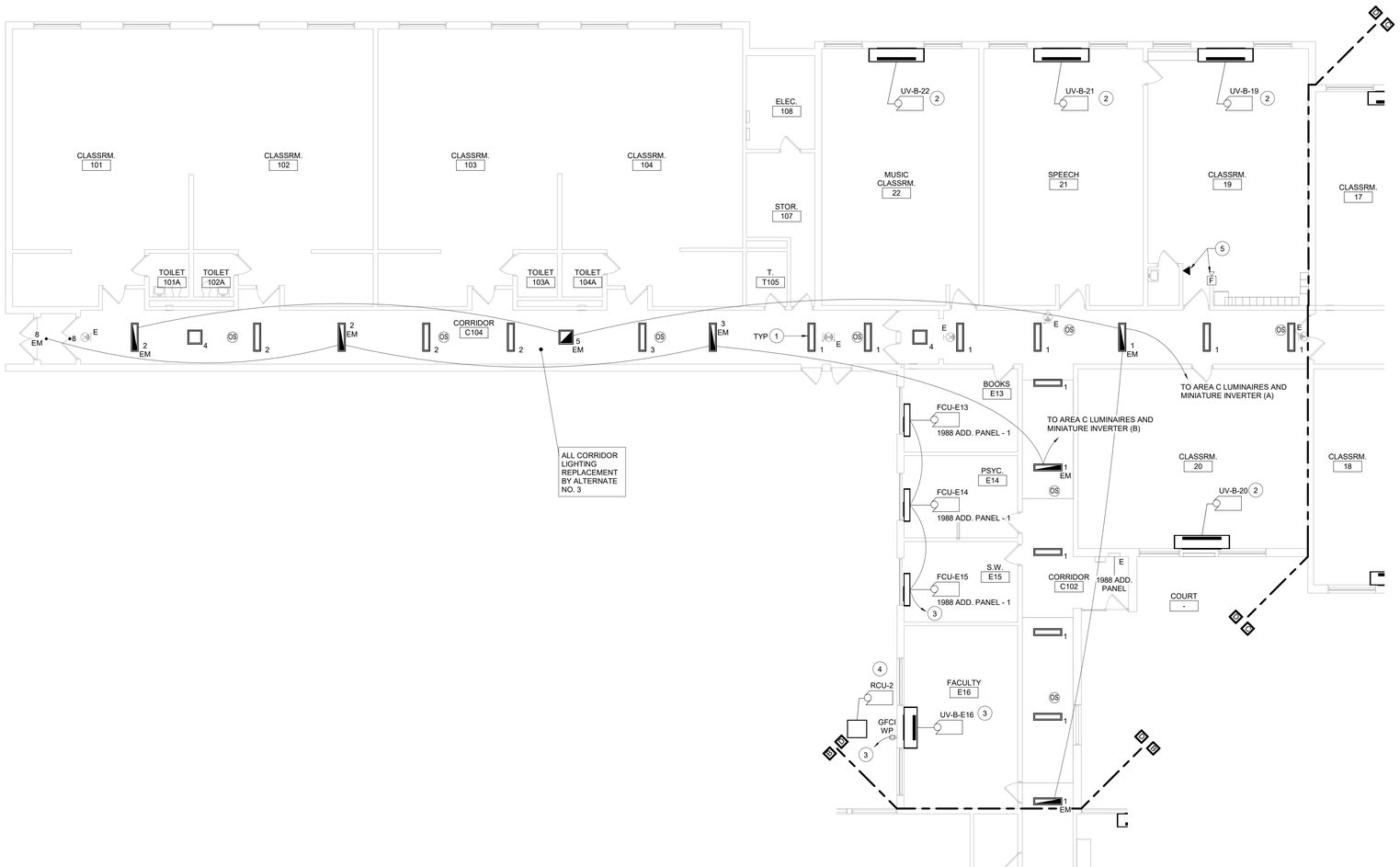
Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

First Floor Lighting and Power Plan - Area B

Drawn By:	Date:	Drawing Number:
CR	10/28/2022	BE131
Project No.: 279180-22004		



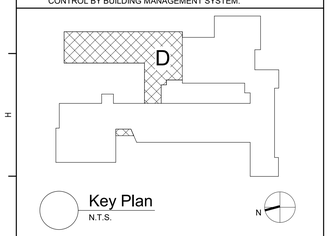
1 Partial First Floor Lighting and Power Plan - Area D
1/8" = 1'-0"

Keyed Notes:

1. CONNECT LUMINAIRES TO EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING THE AREA USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. LUMINAIRES TO BE CONTROLLED BY OCCUPANCY SENSORS AND DIRECT DIGITAL CONTROL SYSTEM.
2. RE-CONNECT TAGGED POWER CIRCUITRY TO HVAC EQUIPMENT. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
3. CIRCUIT TO SPARE 20A1P BREAKER IN PANEL 1988 ADD. PANEL IN CORR C102. CONNECT USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. AMEND PANEL DIRECTORY ACCORDINGLY.
4. PROVIDE 30A2P BREAKER IN AVAILABLE SPACE IN PANEL 1988 ADD. PANEL IN CORR C102. CONNECT USING (2)#10, (1)#10 G. IN 1/2" CONDUIT. REMOVE EXISTING SPARE BREAKER(S) IF NECESSARY TO PROVIDE ROOM IN PANEL. NEW BREAKER TO BE UL LISTED FOR USE IN PANEL AND MEET OR EXCEED AIC RATING OF EXISTING PANEL. AMEND PANEL DIRECTORY ACCORDINGLY.
5. RE-INSTALL FIRE ALARM HORN STROBE AND TELEPHONE LINE AT LOCATION SHOWN. MODIFY/EXTEND CIRCUITRY AS NECESSARY.

General Notes:

A. REFER TO DRAWING BE100 FOR GENERAL NOTES.
B. REFER TO DRAWING BE500 FOR LUMINAIRE SCHEDULE.
C. SECURE ALL EXISTING UNSUPPORTED CABLES ABOVE DISTURBED CEILINGS IN CORRIDORS USING J HOOKS OR CABLETRAYS.
D. PATCH/REPLACE CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK.
E. INVERTER SYSTEM EMERGENCY OUTPUT CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT SYSTEMS AND NOT SHARED WITH OTHER ELECTRICAL CIRCUITS AS DESCRIBED IN NEC 700-9(B).
F. LIGHTING CONTROL SEQUENCES:
LOBBY/VESTIBULES/CORRIDORS:
PERSON ENTERS THE AREA, LUMINAIRES TURN ON TO 100% OUTPUT AUTOMATICALLY BY OCCUPANCY SENSOR. PERSON EXITS THE AREA, LUMINAIRES DIM TO 50% OUTPUT (MAINTAINING EGRESS LEVEL ILLUMINATION) . MANUAL CONTROL BY BUILDING MANAGEMENT SYSTEM.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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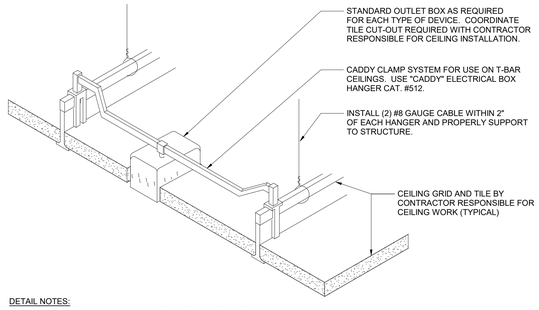
Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

First Floor Lighting and Power Plan - Area D

Drawn By:	Date:	Drawing Number:
CR	10/28/2022	BE132
Project No.: 279180-22004		



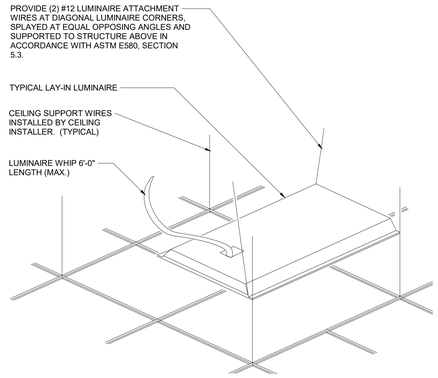
DETAIL NOTES:

A. IN AREAS RECEIVING NEW CEILINGS ALL CEILING MOUNTED ITEMS (DETECTORS, SPEAKERS, ETC) ARE TO BE CENTERED WITHIN THE PATTERN OF THE CEILING PANEL. A 2'X4' PANEL SCORED TO A 2'X2' PATTERN SHALL HAVE ITEMS CENTERED IN THE 2'x2' PORTION.

B. PROVIDE ADDITIONAL SUPPORT FOR EXIT SIGNS, WHERE REQUIRED.

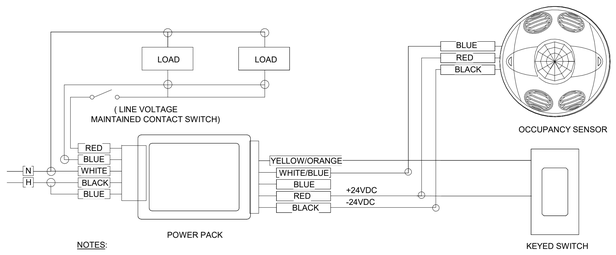
1 Ceiling Mounting Device Detail

NTS



2 Typical Troffer Mounting Detail

NTS

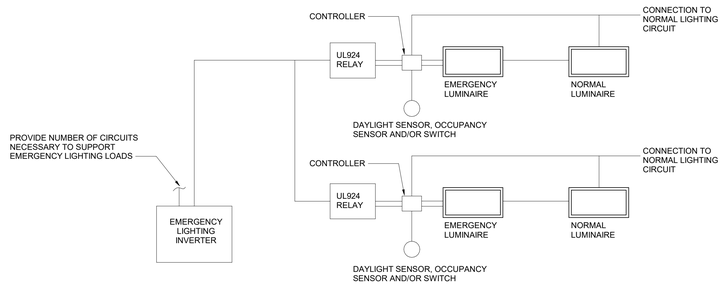


NOTES:

A. PAINT ALL SURFACE RACEWAY AND BOXES TO MATCH EXISTING SURFACES. (WHERE APPLICABLE).
B. PROVIDE RELAYS WHERE TWO OR MORE CIRCUITS FEED LIGHTING IN SAME ROOM.
C. ADJUST SENSITIVITY OF EACH OCCUPANCY SENSOR TO DETECT HUMAN MOVEMENT BUT NOT HVAC EQUIPMENT. ADJUST TIME DELAY FOR OPTIMUM PERFORMANCE. APPLY MASKING SEGMENTS TO DETECTION HEAD WHERE REQUIRED.
D. POWER PACK AND THE LOAD SWITCHED BY THE POWER PACK MUST BE FED FROM THE SAME PHASE.
E. REFER TO LIGHTING PLANS FOR LIGHTING SEQUENCES

3 Occupancy Sensor Wiring Diagram

12" = 1'-0"



4 Emergency Miniature Inverter Wiring Diagram

NTS

LUMINAIRE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	LAMPS			MANUFACTURERS (OR EQUAL)	
			WATTAGE	LUMENS	TYPE	NAME	MODEL OR SERIES
1		1' x 4' TROFFER (RECESSED IN GRID)	12.2	1482	LED	SIGNIFY (DAY-BRITE)	1FPZ15L835-4-DS-UNV-DIM
1 EM		SAME AS TYPE 1 - CONNECTED TO EMERGENCY MINIATURE INVERTER	12.2	1482	LED	SIGNIFY (DAY-BRITE)	1FPZ15L835-4-DS-UNV-DIM
2		1' x 4' TROFFER (RECESSED IN GRID)	24.6	2972	LED	SIGNIFY (DAY-BRITE)	1FPZ30L835-4-DS-UNV-DIM
2 EM		SAME AS TYPE 2 - CONNECTED TO EMERGENCY MINIATURE INVERTER	24.6	2972	LED	SIGNIFY (DAY-BRITE)	1FPZ30L835-4-DS-UNV-DIM
3		1' x 4' TROFFER (RECESSED IN GRID)	31.3	3775	LED	SIGNIFY (DAY-BRITE)	1FPZ38L835-4-DS-UNV-DIM
3 EM		SAME AS TYPE 3 - CONNECTED TO EMERGENCY MINIATURE INVERTER	31.3	3775	LED	SIGNIFY (DAY-BRITE)	1FPZ38L835-4-DS-UNV-DIM
4		2' x 2' TROFFER (RECESSED IN GRID)	15.7	1918	LED	SIGNIFY (DAY-BRITE)	2FPZ20L835-2-DS-UNV-DIM
4 EM		SAME AS TYPE 4 - CONNECTED TO EMERGENCY MINIATURE INVERTER	15.7	1918	LED	SIGNIFY (DAY-BRITE)	2FPZ20L835-2-DS-UNV-DIM
5		2' x 2' TROFFER (RECESSED IN GRID)	23.4	2911	LED	SIGNIFY (DAY-BRITE)	2FPZ30L835-2-DS-UNV-DIM
5 EM		SAME AS TYPE 5 - CONNECTED TO EMERGENCY MINIATURE INVERTER	23.4	2911	LED	SIGNIFY (DAY-BRITE)	2FPZ30L835-2-DS-UNV-DIM
6 **		2' x 2' TROFFER (RECESSED IN GRID)	29.8	3856	LED	SIGNIFY (DAY-BRITE)	2FPZ38L835-2-DS-UNV-DIM
6 EM **		SAME AS TYPE 6 - CONNECTED TO EMERGENCY MINIATURE INVERTER	29.8	3856	LED	SIGNIFY (DAY-BRITE)	2FPZ38L835-2-DS-UNV-DIM
7 **		2' x 2' TROFFER (RECESSED IN GRID)	35.7	4403	LED	SIGNIFY (DAY-BRITE)	2FPZ45L835-2-DS-UNV-DIM
7 EM **		SAME AS TYPE 7 - CONNECTED TO EMERGENCY MINIATURE INVERTER	35.7	4403	LED	SIGNIFY (DAY-BRITE)	2FPZ45L835-2-DS-UNV-DIM
8		4" ROUND DOWNLIGHT	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
8 EM		SAME AS TYPE 8 - CONNECTED TO EMERGENCY MINIATURE INVERTER	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
9 **		4" SQUARE DOWNLIGHT	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
9 EM **		SAME AS TYPE 9 - CONNECTED TO EMERGENCY MINIATURE INVERTER	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
10 **		2" RECESSED LINEAR. LENGTH VARIES, SEE PLANS FOR SPECIFIC LENGTHS.	14.5	1345	LED	FINELITE	HP-2-R-D-XFT-S-835
10 EM **		SAME AS TYPE 10 - CONNECTED TO EMERGENCY MINIATURE INVERTER	14.5	1345	LED	FINELITE	HP-2-R-D-XFT-S-835
11 **		15/16" T-BAR LED	39	2854	LED	JLC TECH	TBSL-MW-5-24-B2-X-W
11 EM **		SAME AS TYPE 11 - CONNECTED TO EMERGENCY MINIATURE INVERTER	39	2854	LED	JLC TECH	TBSL-MW-5-24-B2-X-W
12 **		2" RECESSED PERIMETER	27.6	2999	LED	PINNACLE ARCHITECTURAL LIGHTING	EV2DPM-A-835HO-4
12 EM **		SAME AS TYPE 12 - CONNECTED TO EMERGENCY MINIATURE INVERTER	27.6	2999	LED	PINNACLE ARCHITECTURAL LIGHTING	EV2DPM-A-835HO-4
13 **		WALL MOUNT LINEAR	33.1	3361	LED	SIGNIFY (LEDALITE)	7408LBEQN047DEW
13 EM **		SAME AS TYPE 13 - CONNECTED TO EMERGENCY MINIATURE INVERTER	33.1	3361	LED	SIGNIFY (LEDALITE)	7408LBEQN047DEW
14		4' RECESSED LINEAR - CONNECTED TO EMERGENCY MINIATURE INVERTER	8.7	1780	LED	PINNACLE ARCHITECTURAL LIGHTING	EX3-WET-35-4-FL-U-OL2-1-0-W
14 EM		4' RECESSED LINEAR - CONNECTED TO EMERGENCY MINIATURE INVERTER	8.7	1780	LED	PINNACLE ARCHITECTURAL LIGHTING	EX3-WET-35-4-FL-U-OL2-1-0-W
20		EXIT SIGN (SINGLE FACE) WALL AND CEILING MOUNT. SEE PLANS FOR DIRECTIONAL INDICATORS	2.5		LED	SIGNIFY (CHLORIDE)	ER46L-2-W-R

** LUMINAIRE TYPE NOT USED IN THIS BUILDING

NOTE: ALL LUMINAIRES ARE 120 VOLTS

* MANUFACTURER AND MODEL NUMBER ARE PROVIDED TO SHOW BASIS OF DESIGN ONLY.

5 Luminaire Schedule

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S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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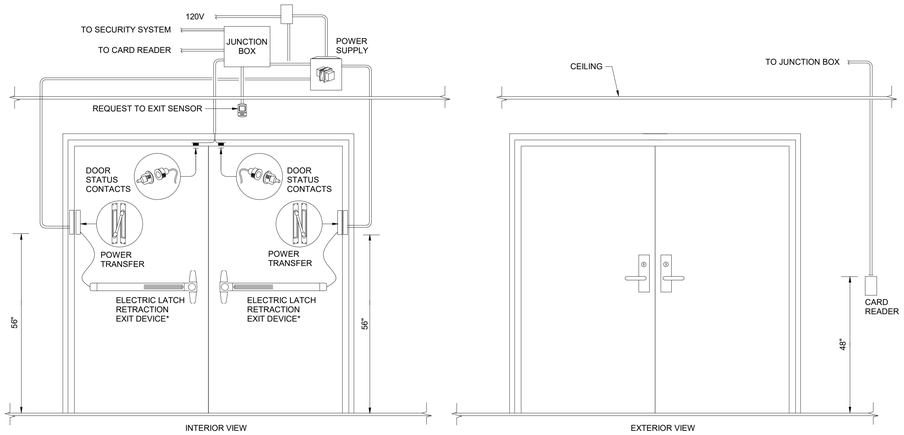
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

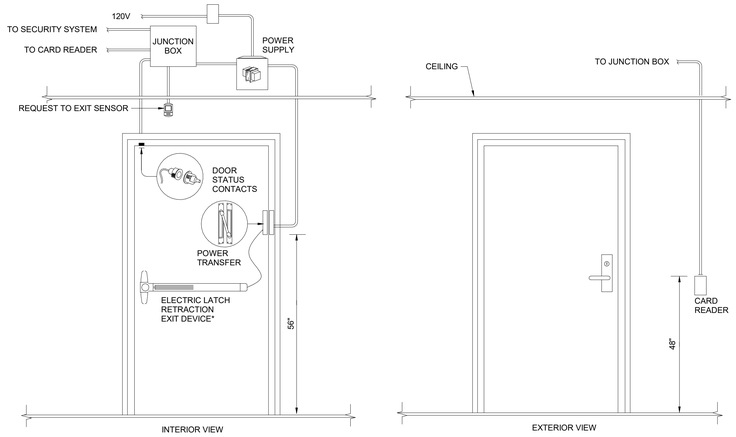
Details

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	BE500
Project No.: 279180-22004		

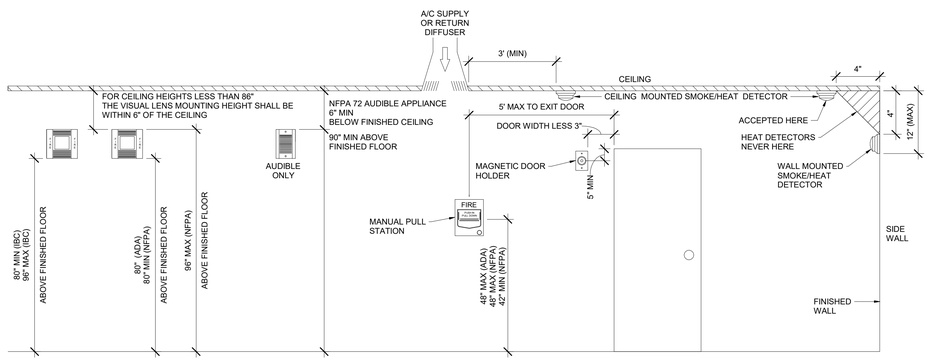


*NOTES:
1. PANIC HARDWARE SHALL ALWAYS REMAIN FULLY OPERATIONAL MANUALLY, NO MATTER WHAT THE STATUS OF ELECTRIC LATCH. SEE SPECIFICATION SECTION 087100 FOR FURTHER INFORMATION.
2. VIEW MAY BE MIRRORED

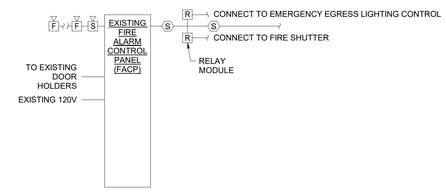
1 Door Configurations
NTS



*NOTE:
PANIC HARDWARE SHALL ALWAYS REMAIN FULLY OPERATIONAL MANUALLY, NO MATTER WHAT THE STATUS OF ELECTRIC LATCH. SEE SPECIFICATION SECTION 087100 FOR FURTHER INFORMATION.



6 Typical Mounting Heights
NTS



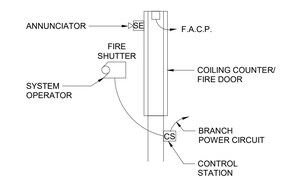
FIRE ALARM SEQUENCE OF OPERATION

A. UPON ACTIVATION OF MANUAL PULL STATIONS, HEAT DETECTORS, SMOKE DETECTORS, DUCT DETECTORS. THE FIRE ALARM PANEL WILL GO INTO ALARM AND SHOULD SOUND THE A/V DEVICES, SHUT DOWN THE FANS, RELEASE THE MAGNETIC DOOR HOLDERS, CONTACT THE LOCAL FIRE DEPARTMENT AND INDICATE WHICH ALARM ZONE THE ALARM IS IN VIA THE REMOTE ANNUNCIATORS.

B. UPON ACTIVATION OF A TROUBLE CONDITION THE FIRE ALARM PANEL SHALL GO INTO "TROUBLE" MODE INDICATING WHICH ZONE IS IN TROUBLE BY A LIGHT IN THE REMOTE ANNUNCIATOR AND AT THE FIRE ALARM PANEL.

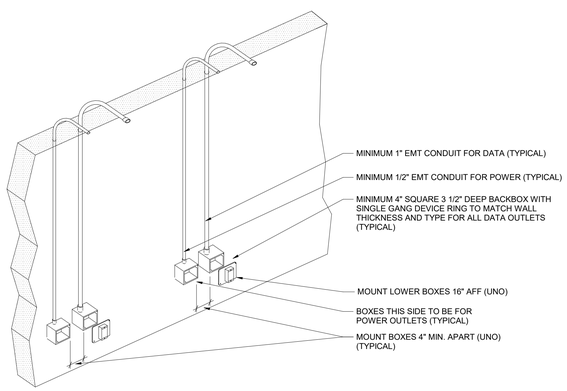
NOTE:
FIRE ALARM RISER IS INTENDED TO BE SCHEMATIC ONLY. ALL DEVICES INDICATED ON PLANS AND DETAILS ARE TO BE INSTALLED AND CONNECTED FOR PROPER OPERATION OF SYSTEM.

4 Fire Alarm System Wiring Diagram
NTS



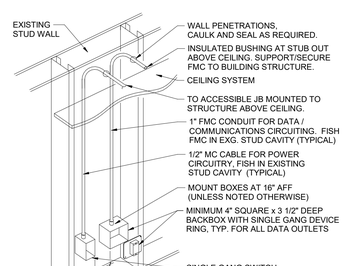
NOTES:
1. INSTALL THE FOLLOWING EQUIPMENT, FURNISHED BY OTHERS:
   - CONTROL STATION(S)
   - ANNUNCIATOR(S)
2. PROVIDE A BRANCH CIRCUIT (INDICATED ON PLAN) TO SYSTEM OPERATOR VIA THE CONTROL STATION.
3. PROVIDE A 24 VDC CONNECTION FROM THE F.A.C.P. TO THE RELEASE DEVICE(S).
4. PROPERLY PROGRAM F.A.C.P. TO SIGNAL RELEASE DEVICE TO OPERATE WHEN A FIRE DETECTION APPLIANCE IN THE ADJOINING SPACES SERVED BY ROLLING FIRE DOOR(S) ARE INITIATED.

2 Typical Coiling Door Wiring Schematic
NTS

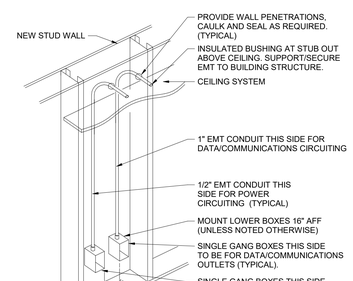


NOTES:
1. PROVIDE LARGER BOXES AND CONDUIT SIZES WHEN REQUIRED TO ACCOMMODATE DEVICES AND WIRING
2. COORDINATE QUANTITY OF DEVICES AND TYPE OF DEVICE REQUIRED WITH FLOOR PLANS
3. COORDINATE CONDUIT LOCATIONS WITH OTHER TRADES AND OWNER PRIOR TO INSTALLATION

7 Conduit/Backbox Installation Detail
NTS



5 Conduit/Backbox Installation Detail (in Existing Stud Wall)
NTS



3 Conduit/Backbox Installation Detail
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S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

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TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

Details

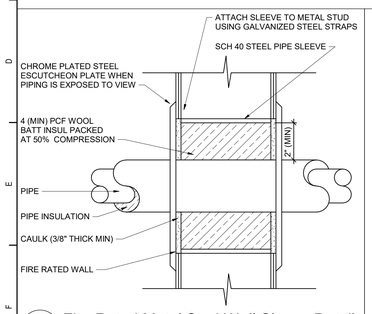
Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	BE501
Project No.: 279180-22004		

Plumbing Fixture Schedule

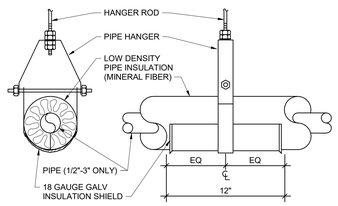
DWG LABEL	ROUGH-IN CONNECTION SIZE (INCHES)				BARRIER FREE	AGE GROUP	RIM HEIGHT	DESCRIPTION	NOTES
	SAN	VENT	CW	HW					
WC "A"	4	2	1	-	NO	ADULT	15"	VITREOUS CHINA, WALL MOUNTED WITH SUPPORT, TOP SPUD, MANUAL DUAL FLUSH VALVE AND SEAT.	1, 2
WC "B"	4	2	1	-	YES	ADULT	18"	ACCESSIBLE, VITREOUS CHINA, WALL MOUNTED WITH SUPPORT, TOP SPUD, MANUAL DUAL FLUSH VALVE AND SEAT.	1, 2
LAV "A"	1 1/2	1 1/2	1/2	1/2	NO	ADULT	31"	VITREOUS CHINA, WALL MOUNTED WITH MANUAL, HARD WIRED SENSOR FAUCET, SUPPLIES, TAILPIECE AND TRAP.	1, 2
LAV "B"	1 1/2	1 1/2	1/2	1/2	YES	ADULT	34"	ACCESSIBLE, VITREOUS CHINA, WALL MOUNTED WITH MANUAL, HARD WIRED SENSOR FAUCET, SUPPLIES, OFFSET TAILPIECE, TRAP, AND INSULATION KIT.	1, 2, 3
INT WH	-	-	3/4	-	-	-	-	CONCEALED OUTLET, SELF DRAINING MODERATE CLIMATE WALL HYDRANT.	

NOTES:

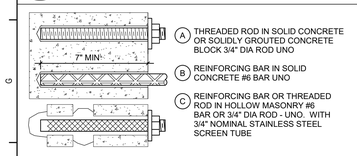
1. REFER TO TOILET ROOM PLANS ON ARCHITECTURE DRAWINGS FOR FIXTURE CENTERLINE DIMENSIONS.
2. SIZES INDICATED ARE MINIMUM. LARGER SIZES SPECIFICALLY INDICATED ON DRAWINGS SUPERCEDE MINIMUM SIZES INDICATED IN THIS SCHEDULE.
3. REFER TO DETAIL 8/ BP130 FOR ADDITIONAL INFORMATION.



6 Fire Rated Metal Stud Wall Sleeve Detail
NTS



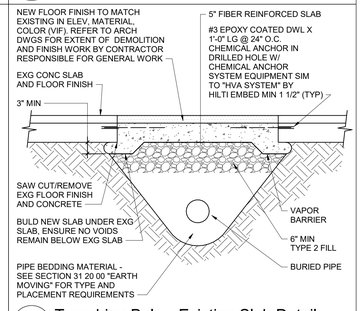
4 Insulation Shield Detail
NTS



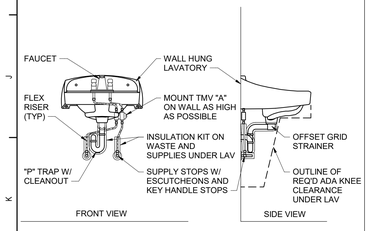
BAR/ROD SIZE	EMBEDMENT DEPTH
#4 OR 1/2"	5"
#5 OR 5/8"	6"
#6 OR 3/4"	7"
#7 OR 7/8"	8"
#8 OR 1"	9"

GENERAL NOTES:
1. FOR ACCEPTABLE ADHESIVE PRODUCTS REFER TO SPECIFICATIONS.
2. COMPLY WITH MANUFACTURERS REQUIREMENTS FOR INSTALLATION.

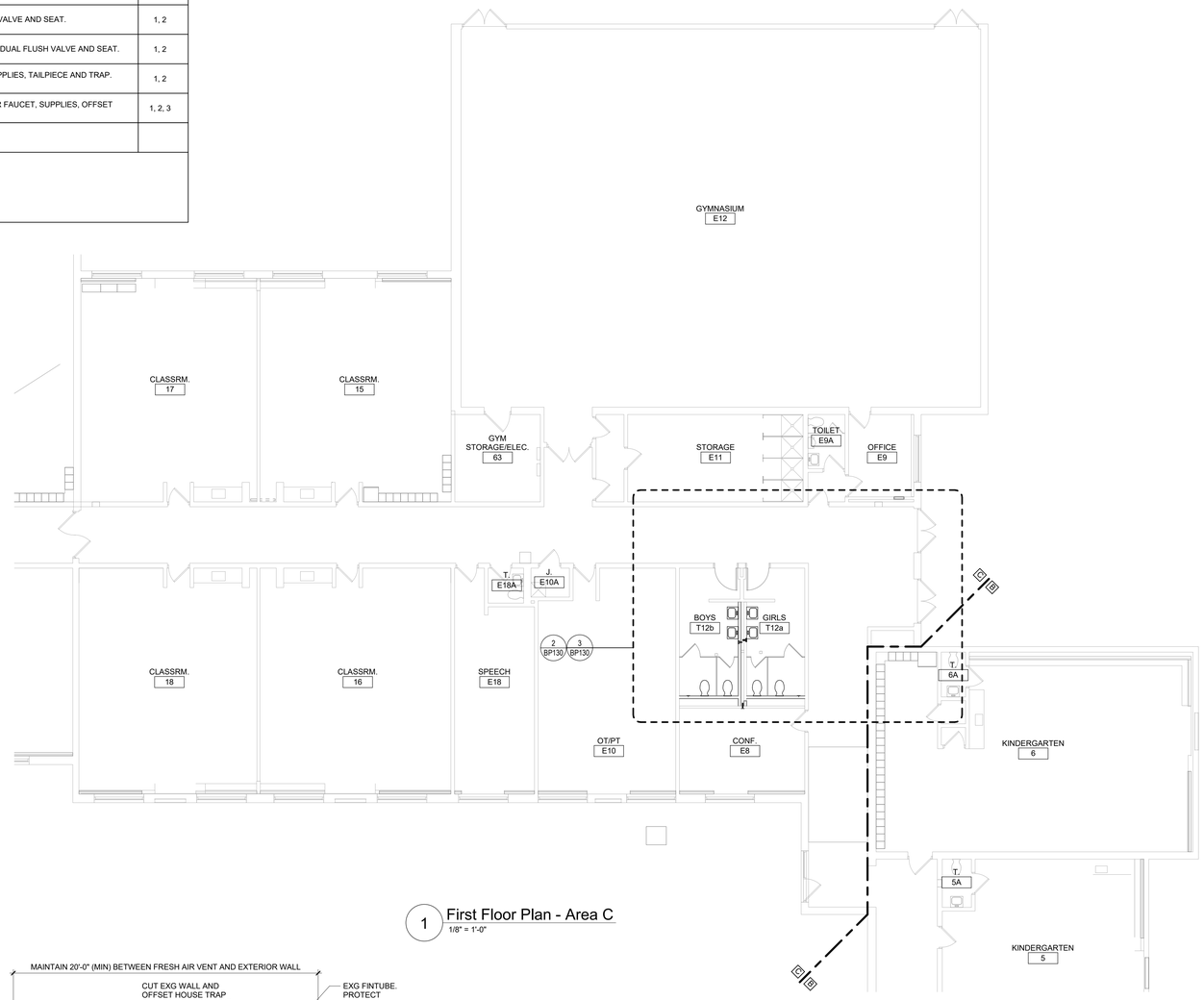
7 Typical Chemical Anchors
NTS



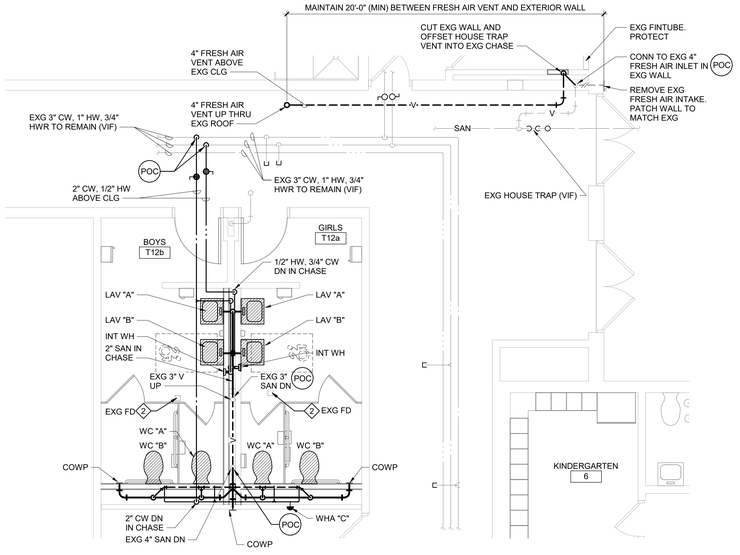
5 Trenching Below Existing Slab Detail
NTS



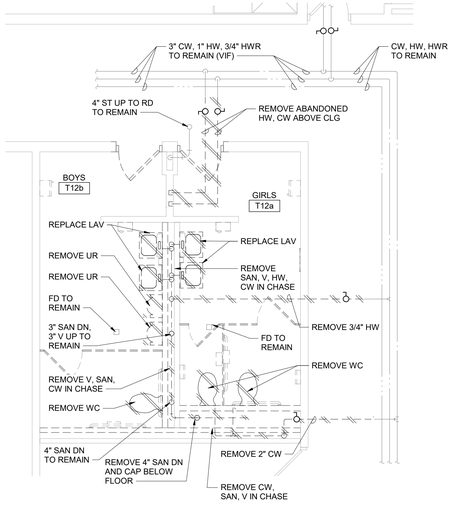
8 ADA Lavatory Rough-in Detail
NTS



1 First Floor Plan - Area C
1/8" = 1'-0"



1 3 Toilet Rooms T12a and T12b Plan
1/4" = 1'-0"



1 2 Toilet Rooms T12a and T12b Demolition Plan
1/4" = 1'-0"

General Notes

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

B. VERIFY IN FIELD INVERT AND DIRECTION OF FLOW IN EXISTING SOIL PIPE WHERE NEW SOIL PIPE IS TO BE CONNECTED TO EXISTING SOIL PIPE.

C. LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS.

D. 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.

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

F. PROVIDE THROUGH PENETRATION FIRESTOPPING FOR FIRE RATED WALLS AND FLOORS. PENETRATIONS THROUGH EXISTING WALLS AND FLOORS ARE CONSIDERED TWO-HOUR PARTITIONS UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO "A" SERIES OR CODE COMPLIANCE DRAWINGS FOR LOCATION OF FIRE RATED WALLS AND FLOORS.

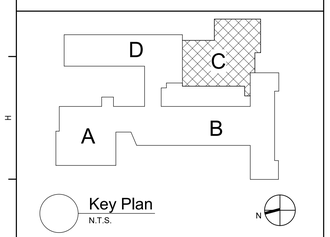
G. REMOVE PLUMBING FIXTURES INDICATED, INCLUDING ASSOCIATED PIPING, FASTENERS, SUPPORTS, ETC., BACK TO POINTS OF CONCEALMENT WITHIN OR BEHIND REMAINING WALLS, BELOW FLOORS OR ABOVE CEILINGS.

H. 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.

I. 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. WORK IS PART OF ALTERNATE NO 1.
2. REPLACE STRAINER ON EXISTING FLOOR DRAIN.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-006-022

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT WHERE EXCELLENCE IS THE STANDARD

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

BID SET

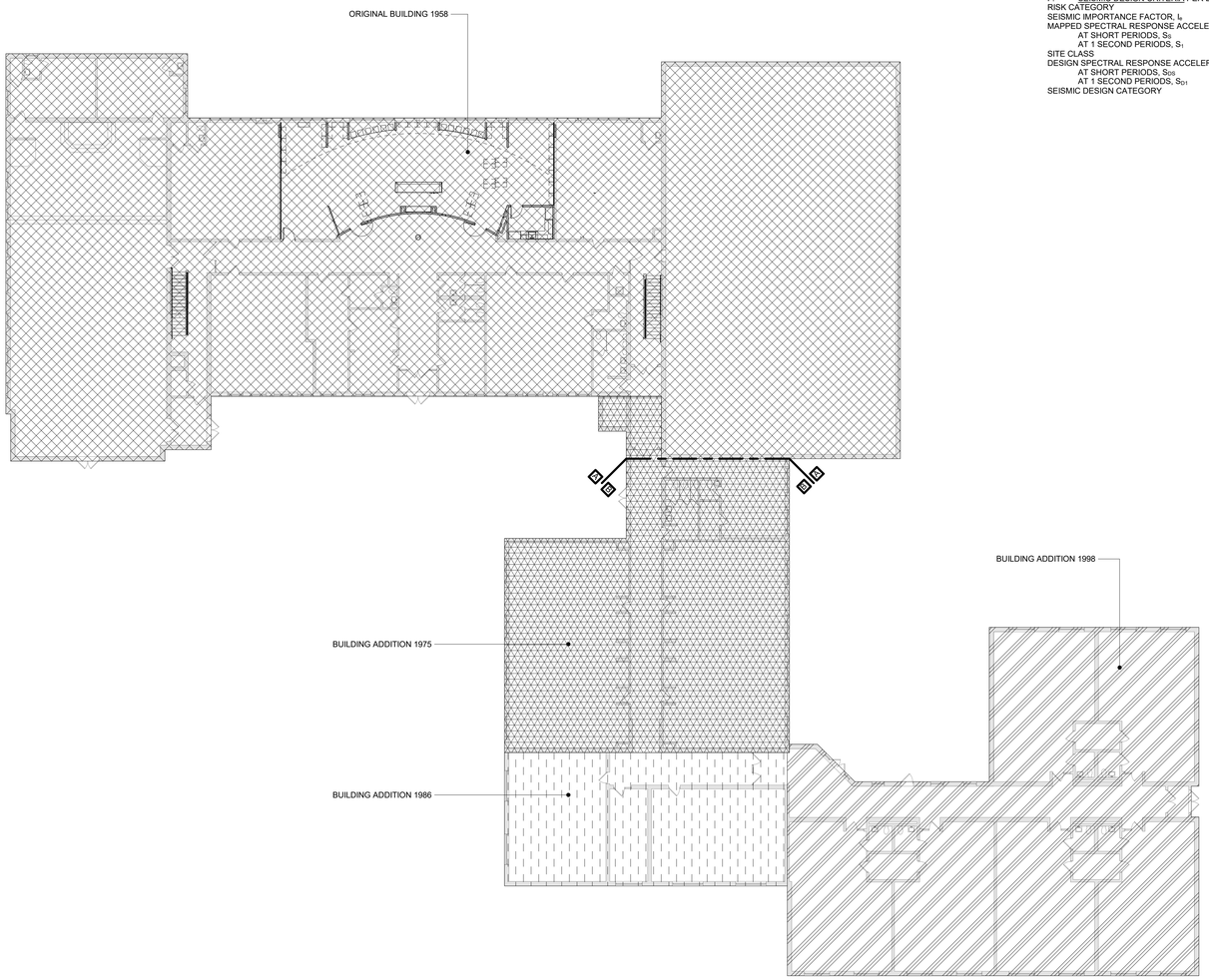
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Additions and Alterations to:
Glenham Elementary School

First Floor Plan - Area C, Details and Schedule

Drawn By:	Date:	Drawing Number:
GPD/ sef	10/28/2022	BP130
Project No.: 279180-22004		



1 Vintage Key Plan
1/16" = 1'-0"

Structural Loads:

A. FLOOR LIVE LOADS PER BCNYS 1607

OCCUPANCY OR USE	UNIFORM	CONCENTRATED
READING ROOMS	60 PSF	1000 LBS
CLASSROOMS	40 PSF	1000 LBS
LOBBIES	100 PSF	
OFFICES	50 PSF	2000 LBS
TOILET ROOMS	60 PSF	
PARTITIONS	15 PSF PER 1607.5	

REDUCTION IN LIVE LOADS HAS BEEN APPLIED WHERE PERMITTED PER 1607.11

B. ROOF LIVE LOADS PER BCNYS 1607.13
MINIMUM ROOF LIVE LOAD 20 PSF

C. RAIN LOADS PER BCNYS 1611
RAIN INTENSITY, i 2.75 IN/HR
RAIN LOAD, R 16 PSF

RAIN SURCHARGE LOAD HAS BEEN APPLIED TO AREAS WHERE PONDING OCCURS IN ACCORDANCE WITH BCNYS 1611.1.

D. SNOW LOADS PER BCNYS 1608
GROUND SNOW, P_g (FIGURE 1608.2) 30 PSF
FLAT ROOF SNOW LOAD, P_f (ASCE 7) 23.1 PSF
SNOW EXPOSURE FACTOR, C_e 1.0
THERMAL FACTOR, C_t 1.0
SLOPE FACTOR, C 1.0
SNOW LOAD IMPORTANCE FACTOR, I_S 1.1

ADDITIONAL SNOW LOADS HAVE BEEN APPLIED TO AREAS WHERE DRIFTING OCCURS IN ACCORDANCE WITH BCNYS 1608.

E. WIND LOAD DESIGN CRITERIA PER BCNYS 1609
BASIC DESIGN WIND SPEED (3 SECOND GUST), V 121 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, V_{asd} 93.7MPH
RISK CATEGORY I I I
EXPOSURE CATEGORY B
INTERNAL PRESSURE COEFFICIENT, GCP_i +/- 0.18

F. SEISMIC DESIGN CRITERIA PER BCNYS 1613
RISK CATEGORY I I I
SEISMIC IMPORTANCE FACTOR, I_e 1.25
MAPPED SPECTRAL RESPONSE ACCELERATION
AT SHORT PERIODS, S_S 23.3 %g
AT 1 SECOND PERIODS, S_1 5.7 %g
SITE CLASS D (DEFAULT)
DESIGN SPECTRAL RESPONSE ACCELERATION
AT SHORT PERIODS, S_{DS} 24.8 %g
AT 1 SECOND PERIODS, S_{D1} 9.1 %g
SEISMIC DESIGN CATEGORY B

Code Compliance Review

PROJECT LOCATION:
29 EDUCATION DRIVE, BEACON, NEW YORK 12508
BOUNDED BY EDUCATION DRIVE TO THE NORTH, SARGENT AVE TO THE WEST, KNEVELS AVE TO THE SOUTH, AND TIORONDA AVE TO THE EAST.

PROJECT DESCRIPTION:
THIS PROJECT INCLUDES RENOVATION OF APPROXIMATELY 3,081 SF OF SPACE ON THE BASEMENT, FIRST AND SECOND FLOOR OF STAIR RAILING MODIFICATIONS, MECHANICAL VENTILATION AND RELOCATION OF LIBRARY/MEDIA CENTER SPACE.

WORK GENERALLY CONSISTS OF THE FOLLOWING:
ALTERATIONS - LEVEL 1
- MODIFY RAILING TO MEET ADA REQUIREMENTS
- REPLACE GREASE INTERCEPTOR IN KITCHEN

ALTERATIONS - LEVEL 2
- ADD MECHANICAL VENTILATION TO GYM OFFICE AND NURSES OFFICE
- RELOCATE LIBRARY/MEDIA CENTER TO MAIN FLOOR

APPLICABLE CODES AND STANDARDS:

BASED ON THE 2020 NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE INCLUDING APPLICABLE 2018 ICC CODES AND 2020 BUILDING CODES of NYS, AND ICC A117.1-2017 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.

REFER TO PROJECT MANUAL FOR REQUIREMENTS STATED IN "NYCRR 155 REGULATIONS OF THE COMMISSIONER OF EDUCATION".

BUILDING DATA:

BUILDING: SARGENT ELEMENTARY SCHOOL
29 EDUCATION DRIVE
BEACON, NY 12508

DESCRIPTION: THREE STORY MASONRY AND REINFORCED CONCRETE BUILDING.

YEAR BUILT: 1958
ADDITIONS: 1975, 1986 AND 1998

BUILDING AREA:

BASEMENT	20,726 SQFT
1ST FLOOR	29,024 SQFT
2ND FLOOR	9,615 SQFT
TOTAL GROSS AREA=	59,365 SQFT

CODE DATA SUMMARY:

USE GROUP: E : EDUCATION

CONSTRUCTION TYPE -
EXISTING: IIB

FIRE SAFETY: AN AUTOMATIC SPRINKLER SYSTEM IS NOT PROVIDED. .

WORK AREA:

LOCATION	AREA	% OF TOTAL
BASEMENT	274 SQFT	1.3%
1ST FLOOR	2,696 SQFT	9.3%
2ND FLOOR	111 SQFT	1.2%

CORRIDOR DOORS: ALL CORRIDOR DOORS SCHEDULED TO BE REPLACED SHALL HAVE MINIMUM FIRE DOOR ASSEMBLY RATING OF 20 MINUTES IN ACCORDANCE WITH SECTION 716.5

PATH OF CODE COMPLIANCE:

2018 IEBC CODES AND 2020 EXISTING BUILDING CODE of NYS
301.1.2 WORK AREA COMPLIANCE METHOD

CHAPTER 5 - CLASSIFICATION OF WORK
503 ALTERATION - LEVEL 1 (CHAPTER 7)
504 ALTERATION - LEVEL 2 (CHAPTER 8)

EXIT TRAVEL DISTANCE (PER TABLE 1017.2):
FOR EXIT TRAVEL DISTANCE - SEE CG351.

NEW CONSTRUCTION WILL COMPLY WITH REQUIREMENTS OF 2018 ICC CODES AND 2020 BUILDING CODES of NYS

CORRIDOR ENCLOSURES (PER TABLE 1020.1):
FOR CORRIDOR FIRE RESISTANCE - SEE ENLARGED PLANS, PARTITION TYPES AND DOOR SCHEDULE.
ALL CROSS CORRIDOR PARTITIONS ARE SMOKE PARTITIONS AND EXTEND FROM FINISH FLOOR TO DECK ABOVE.

ASSEMBLY AREAS (PER TABLE 1004.1.2):
[LIST NEW ASSEMBLY AREAS AND MAXIMUM OCCUPANCY DESIGNATIONS]

INTERIOR FINISH REQUIREMENTS:

ALL FINISHES IN CORRIDORS AND ASSEMBLY SPACES SHALL HAVE A FIRE HAZARD CLASSIFICATION PER MANUAL OF PLANNING STANDARDS SECTION S202-2, a. THROUGH e.

FIRE AREAS

Building Number	Fire Area Number	Exg SF	Sprinkler System	Allowable Fire Area (sf)	OK
B1	F1-1	28,250	NA	5,000	PENC*

(MAXIMUM FIRE AREA = 5,000 SF PER SECTION 406 AND 903)
PENC = PRE-EXISTING NON-CONFORMING
REFER TO CG351 AND BUILDING KEY PLANS

General Code Notes

A. REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL CODE COMPLIANCE INFORMATION.

B. COORDINATE WITH FLOOR PLANS, WALL SECTIONS AND PARTITION TYPES FOR RATED WALL TYPES AND LOCATIONS. IMMEDIATELY NOTIFY ARCHITECT OF ANY WALL RATING DISCREPANCIES BETWEEN CG351 DRAWINGS AND FLOOR PLANS.

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

D. AT AREAS OF PROJECT WORK, COMPLETELY SEAL ALL PENETRATIONS REQUIRED TO COMPLY WITH FIRE RESISTANCE RATINGS IDENTIFIED ON THE CG351 DRAWINGS, REGARDLESS IF WALL IS NEW OR EXISTING, TYPICAL UNLESS NOTED OTHERWISE.

E. PROVIDE APPLIED FIREPROOFING TO ALL BEAMS, JOISTS AND STRUCTURAL STEEL ELEMENTS AT ALL FIRE BARRIERS, FIRE PARTITIONS, AND OTHER RATED WALLS WHERE INDICATED ON DRAWINGS, AND THAT ARE NOT COMPLETELY PROTECTED WITHIN THE RATED CONSTRUCTION. PROTECTION OF SUCH ELEMENTS SHALL MATCH THE RATING OF THE WALL THAT THE ELEMENTS ARE CONTAINED WITHIN.

F. ALL CMU CONSTRUCTION SHALL MEET FIRE RESISTANCE REQUIREMENTS INDICATED. PROVIDED BLOCK TYPE AS REQUIRED TO COMPLY WITH UL DESIGN NUMBERS AND WALL RATINGS INDICATED, REGARDLESS IF NOTED AS SUCH ON PLAN DETAILS.

Legend

- 1-HOUR FIRE PARTITION
- COMMON EGRESS PATH
- XX NUMBER OF OCCUPANTS IN EACH SPACE, UNO
- EXISTING FIRE EXTINGUISHER LOCATION
- RW RESCUE WINDOW
- ALTERATION LEVEL 1 WORK AREA
- ALTERATION LEVEL 2 WORK AREA

General Notes

A. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

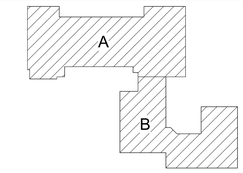
B. TAKE FIELD MEASUREMENTS TO FIT THE WORK PROPERLY. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.

C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.

D. ITEMS ARE SHOWN DIAGRAMMATICALLY ON DRAWINGS. VERIFY SPACE REQUIREMENTS AND DIMENSIONS TO FIT THE WORK PROPERLY.

E. NOTES SHOWN ON ONE DRAWING APPLY TO ALL SIMILAR DRAWINGS.

F. DO NOT DISTURB CONSTRUCTION SUSPECTED OF CONTAINING HAZARDOUS MATERIAL. IF ENCOUNTERED, IMMEDIATELY NOTIFY ARCHITECT[, CONSTRUCTION MANAGER] AND OWNER.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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

BID SET

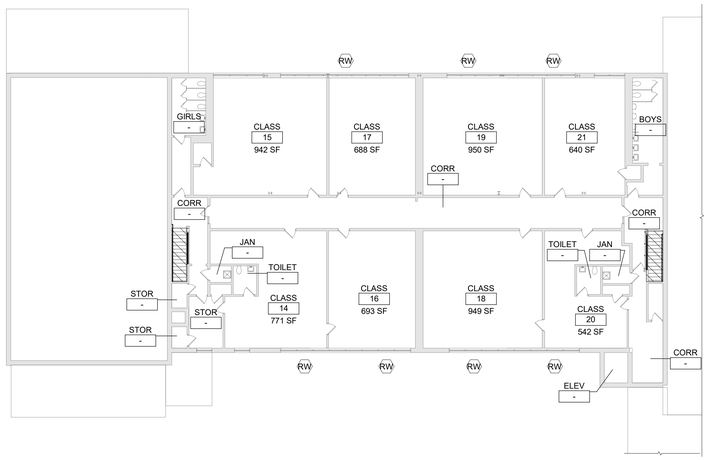
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

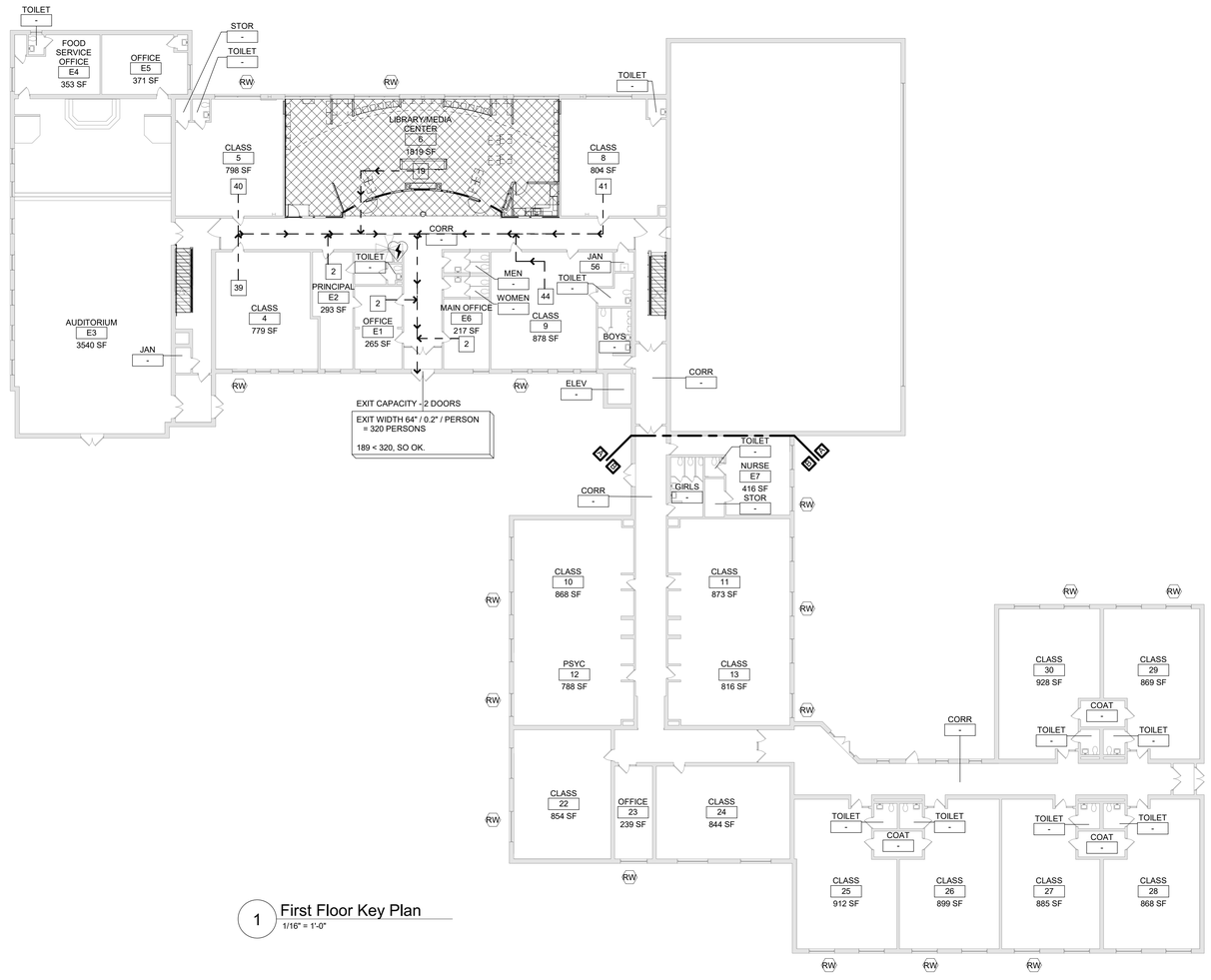
Reconstruction to:
Sargent Elementary School

Code Compliance Review and Vintage Plan

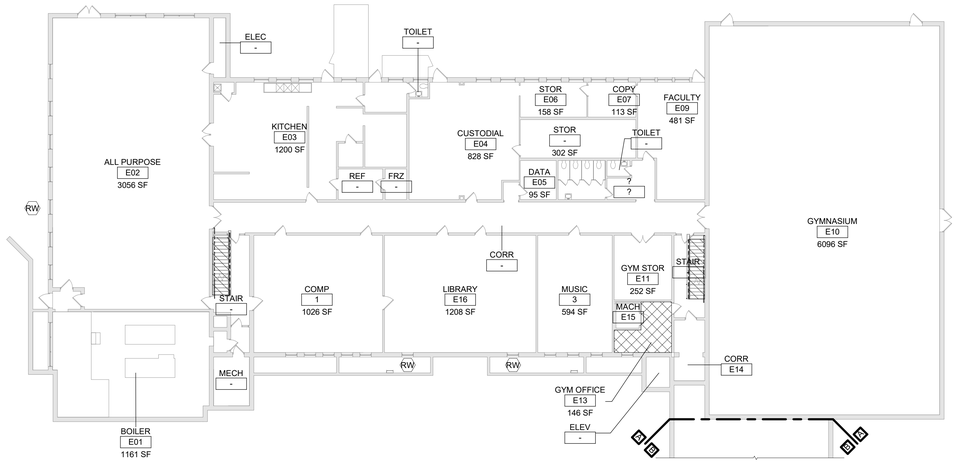
Drawn By: TLG
Date: 10/28/2022
Project No.: 279180-22004
Drawing Number: CG350



3 Second Floor Key Plan
1/16" = 1'-0"



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



2 Basement Key Plan
1/16" = 1'-0"

General Code Notes

A. REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL CODE COMPLIANCE INFORMATION.

B. COORDINATE WITH FLOOR PLANS, WALL SECTIONS AND PARTITION TYPES FOR RATED WALL TYPES AND LOCATIONS. IMMEDIATELY NOTIFY ARCHITECT OF ANY WALL RATING DISCREPANCIES BETWEEN CG351 DRAWINGS AND FLOOR PLANS.

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

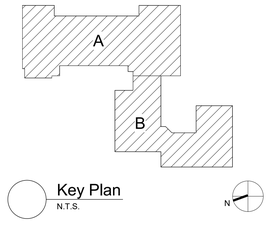
D. AT AREAS OF PROJECT WORK, COMPLETELY SEAL ALL PENETRATIONS REQUIRED TO COMPLY WITH FIRE RESISTANCE RATINGS IDENTIFIED ON THE CG351 DRAWINGS, REGARDLESS IF WALL IS NEW OR EXISTING, TYPICAL UNLESS NOTED OTHERWISE.

E. PROVIDE APPLIED FIREPROOFING TO ALL BEAMS, JOISTS AND STRUCTURAL STEEL ELEMENTS AT ALL FIRE BARRIERS, FIRE PARTITIONS, AND OTHER RATED WALLS WHERE INDICATED ON DRAWINGS, AND THAT ARE NOT COMPLETELY PROTECTED WITHIN THE RATED CONSTRUCTION. PROTECTION OF SUCH ELEMENTS SHALL MATCH THE RATING OF THE WALL THAT THE ELEMENTS ARE CONTAINED WITHIN.

F. ALL CMU CONSTRUCTION SHALL MEET FIRE RESISTANCE REQUIREMENTS INDICATED. PROVIDED BLOCK TYPE AS REQUIRED TO COMPLY WITH UL DESIGN NUMBERS AND WALL RATINGS INDICATED, REGARDLESS IF NOTED AS SUCH ON PLAN DETAILS.

Legend

- 1-HOUR FIRE PARTITION
- COMMON EGRESS PATH
- XX NUMBER OF OCCUPANTS IN EACH SPACE, UNO
- EXISTING FIRE EXTINGUISHER LOCATION
- RW RESCUE WINDOW
- ALTERATION LEVEL 1 WORK AREA
- ALTERATION LEVEL 2 WORK AREA



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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

BID SET

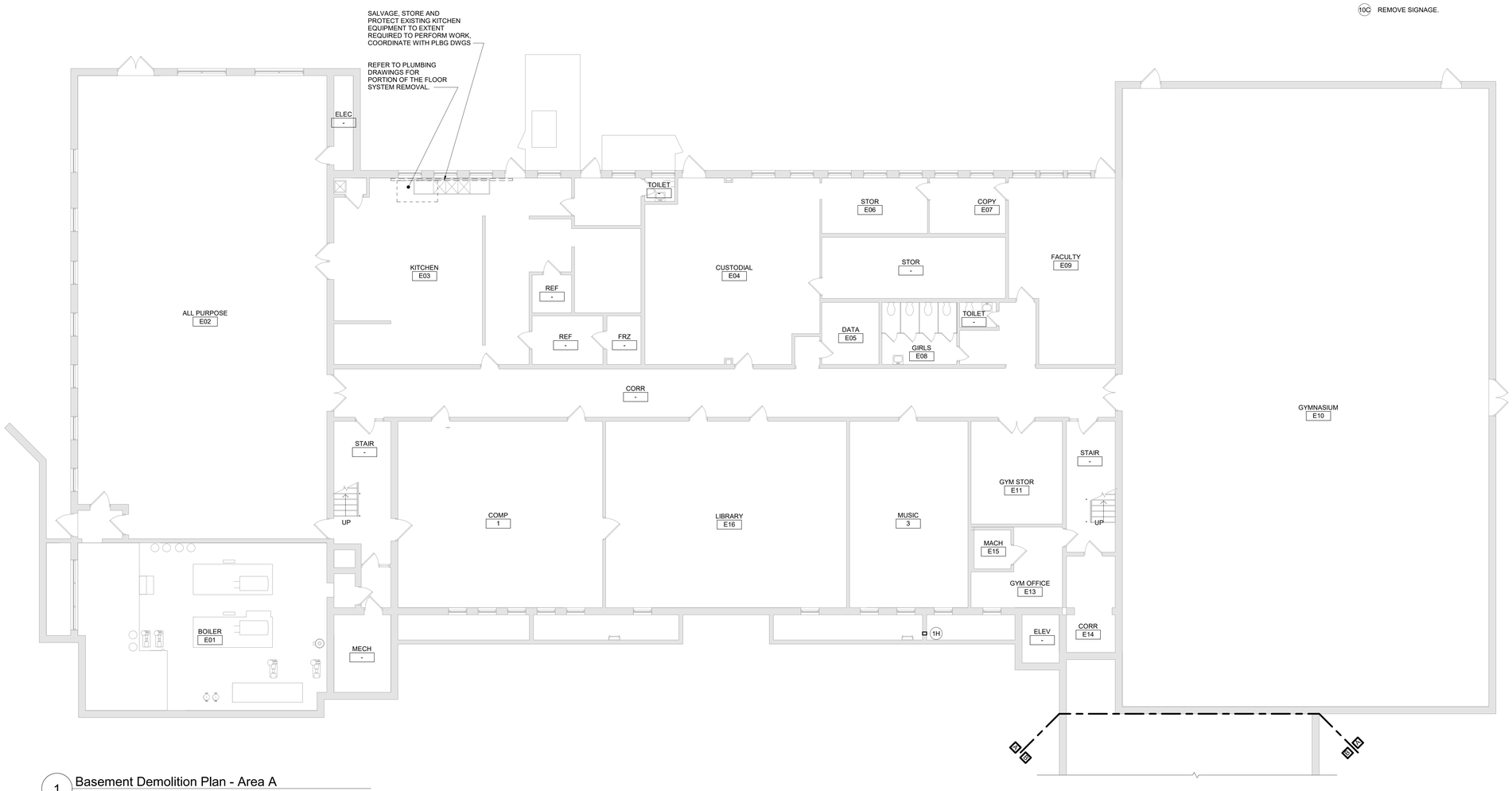
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Sargent Elementary School

Code Compliance Basement, First and Second Floor Key Plans

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	CG351
Project No.: 279180-22004		



1 Basement Demolition Plan - Area A
1/8" = 1'-0"

Demolition Key Notes

1A WITHIN THIS SPACE: REMOVE ALL CONSTRUCTION IN ITS ENTIRETY. STRUCTURE TO REMAIN, TYPICAL UNO. REMOVE CEILING AND ALL FINISH MATERIALS ON FLOOR AND WALL OR OTHER ITEMS ATTACHED TO FACE OF WALLS SCHEDULED TO REMAIN, TYPICAL UNO.

1H PROVIDE NEW OR ENLARGE EXISTING OPENING IN WALL TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH SCHEDULED WORK ON MECHANICAL DRAWINGS.

1N REMOVE STUDENT ARTWORK TILE. PROTECT AND DELIVER TO OWNER STORAGE LOCATION FOR THEIR REUSE.

8B REMOVE DOOR AND FRAME COMPLETELY. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.

9A SALVAGE TILES FROM EXISTING WALL SURFACE AND TURN OVER TO OWNER.

9C,x REMOVE FLOOR FINISH, MASTIC AND WALL BASE TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS OF FLOOR REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO MAKE SURFACE LEVEL. PREPARE FOR FINISH. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE.

SUFFIX KEY (FLOOR FINISH IDENTIFICATIONS):
- A. CARPET.
- B. CERAMIC FLOOR TILE.
- C. CONCRETE (NATURAL OR SEALED OR STAINED OR PAINTED).
- D. LINOLEUM, SHEET OR TILE.
- E. PORCELAIN TILE.
- F. POURED EPOXY.
- G. RUBBER FLOORING.
- H. TERRAZZO.
- I. VAT/VCT.
- J. VINYL, SHEET.
- K. WOOD FLOORING.

10A REMOVE TEACHING SURFACES INCLUDING MARKER BOARDS, TACK BOARDS AND CHALK BOARDS. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.

10C REMOVE SIGNAGE.

General Demolition Notes

A. - - - - - REMOVE ITEMS INDICATED BY DASHED LINE.

B. KEYED DEMOLITION TAGS REFER TO SPECIFIC LOCATIONS AS FOLLOWS:

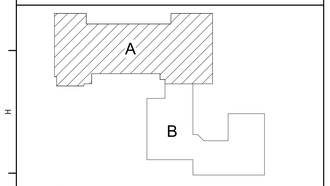
1. DEMOLITION TAGS LOCATED WITHIN THE MIDDLE OF A SPACE REFER TO DEMOLITION OF ALL ITEMS OF THAT SAME TYPE WITHIN THAT ENTIRE SPACE.

2. DEMOLITION TAGS PLACED IMMEDIATELY ON OR ADJACENT TO A DASHED LINE INDICATING ITEM REMOVAL OR THAT HAVE A LEADER POINTING TO SPECIFIC ITEM(S) REFER TO DEMOLITION OF THAT SPECIFIC ITEM ONLY OF THAT TYPE WITHIN THAT SPACE.

3. DEMOLITION TAGS IN SERIES REFER TO DEMOLITION OF ALL THOSE ITEMS EITHER WITHIN THAT ENTIRE SPACE OR TO THE SPACE IDENTIFIED BY THAT LEADER.

C. WHEN AN ITEM IS INDICATED TO BE DEMOLISHED REMOVE ALL ASSOCIATED COMPONENTS AS PART OF THAT WORK.

D. ALL ARTWORK NOT PERMANENTLY AFFIXED TO EXISTING CONSTRUCTION SHALL BE REMOVED AND STORED BY OWNER PRIOR TO BEGINNING DEMOLITION WORK. CONTACT OWNER'S AGENT(S) IF ANY ARTWORK IS ENCOUNTERED PRIOR TO START OF DEMOLITION WORK.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Sargent Elementary School

Basement Demolition Plan - Area A

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	CA100
Project No.: 279180-22004		

Demolition Key Notes

(1A) WITHIN THIS SPACE: REMOVE ALL CONSTRUCTION IN ITS ENTIRETY. STRUCTURE TO REMAIN, TYPICAL UNO. REMOVE CEILING AND ALL FINISH MATERIALS ON FLOOR AND WALL OR OTHER ITEMS ATTACHED TO FACE OF WALLS SCHEDULED TO REMAIN, TYPICAL UNO.

(1H) PROVIDE NEW OR ENLARGE EXISTING OPENING IN WALL TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH SCHEDULED WORK ON MECHANICAL DRAWINGS.

(1N) REMOVE STUDENT ARTWORK TILE, PROTECT AND DELIVER TO OWNER STORAGE LOCATION FOR THEIR REUSE.

(8B) REMOVE DOOR AND FRAME COMPLETELY. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.

(9A) SALVAGE TILES FROM EXISTING WALL SURFACE AND TURN OVER TO OWNER.

(9C,x) REMOVE FLOOR FINISH, MASTIC AND WALL BASE TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS OF FLOOR REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO MAKE SURFACE LEVEL. PREPARE FOR FINISH. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE.

SUFFIX KEY (FLOOR FINISH IDENTIFICATIONS):

A. CARPET.
B. CERAMIC FLOOR TILE.
C. CONCRETE (NATURAL OR SEALED OR STAINED OR PAINTED).
D. LINOLEUM, SHEET OR TILE.
E. PORCELAIN TILE.
F. POURED EPOXY.
G. RUBBER FLOORING.
H. TERRAZZO.
I. VAT/VCT.
J. VINYL, SHEET.
K. WOOD FLOORING.

(10A) REMOVE TEACHING SURFACES INCLUDING MARKER BOARDS, TACK BOARDS AND CHALK BOARDS. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES.

(10C) REMOVE SIGNAGE.

General Demolition Notes

A. - - - - - REMOVE ITEMS INDICATED BY DASHED LINE.

B. KEYED DEMOLITION TAGS REFER TO SPECIFIC LOCATIONS AS FOLLOWS:

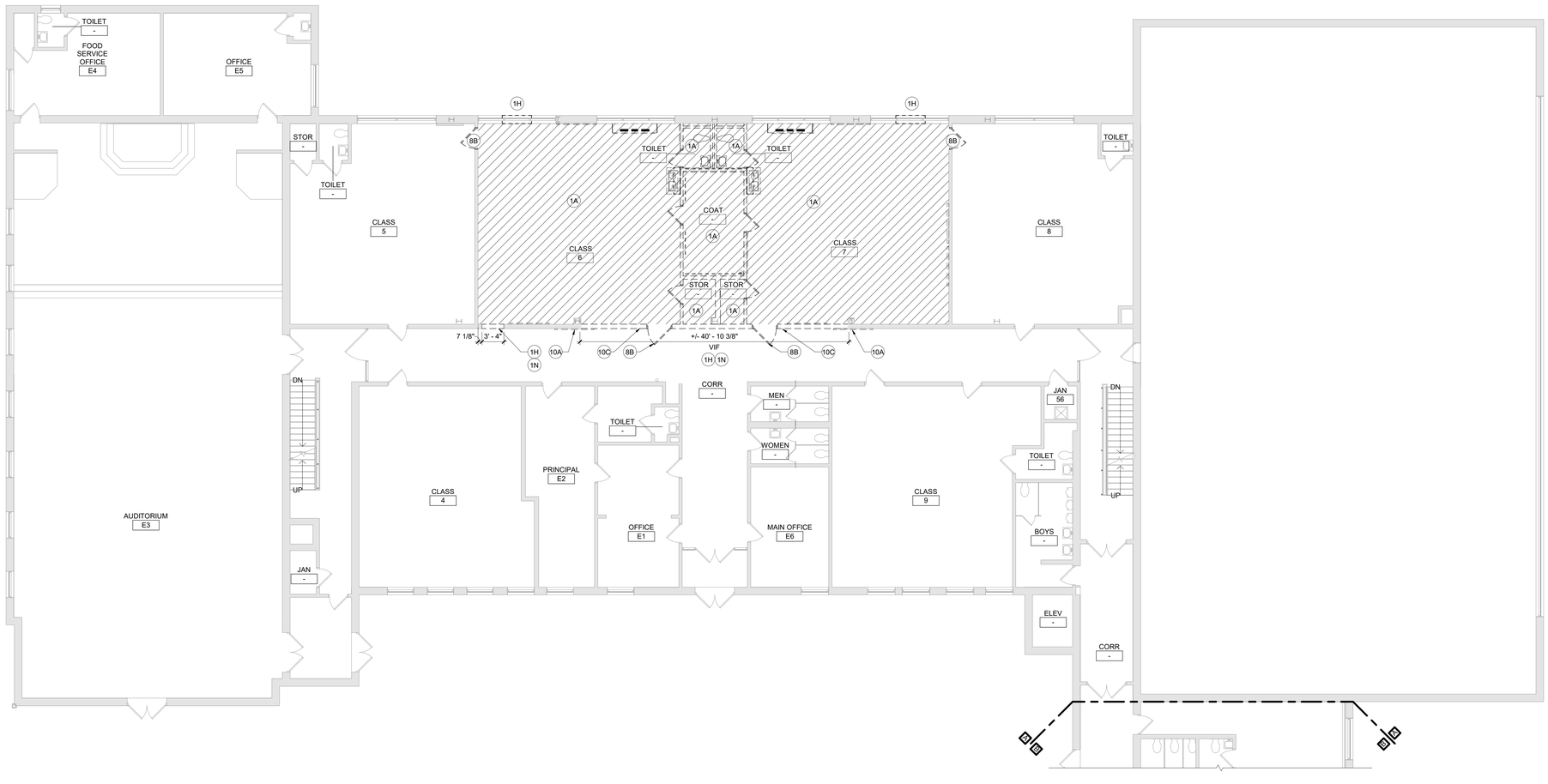
1. DEMOLITION TAGS LOCATED WITHIN THE MIDDLE OF A SPACE REFER TO DEMOLITION OF ALL ITEMS OF THAT SAME TYPE WITHIN THAT ENTIRE SPACE.

2. DEMOLITION TAGS PLACED IMMEDIATELY ON OR ADJACENT TO A DASHED LINE INDICATING ITEM REMOVAL OR THAT HAVE A LEADER POINTING TO SPECIFIC ITEM(S) REFER TO DEMOLITION OF THAT SPECIFIC ITEM ONLY OF THAT TYPE WITHIN THAT SPACE.

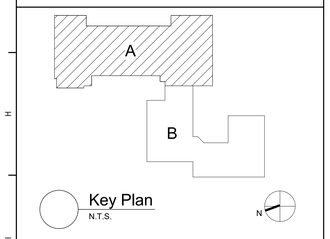
3. DEMOLITION TAGS IN SERIES REFER TO DEMOLITION OF ALL THOSE ITEMS EITHER WITHIN THAT ENTIRE SPACE OR TO THE SPACE IDENTIFIED BY THAT LEADER.

C. WHEN AN ITEM IS INDICATED TO BE DEMOLISHED REMOVE ALL ASSOCIATED COMPONENTS AS PART OF THAT WORK.

D. ALL ARTWORK NOT PERMANENTLY AFFIXED TO EXISTING CONSTRUCTION SHALL BE REMOVED AND STORED BY OWNER PRIOR TO BEGINNING DEMOLITION WORK. CONTACT OWNER'S AGENT(S) IF ANY ARTWORK IS ENCOUNTERED PRIOR TO START OF DEMOLITION WORK.



1 First Floor Demolition Plan - Area A
1/8" = 1'-0"



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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

BID SET

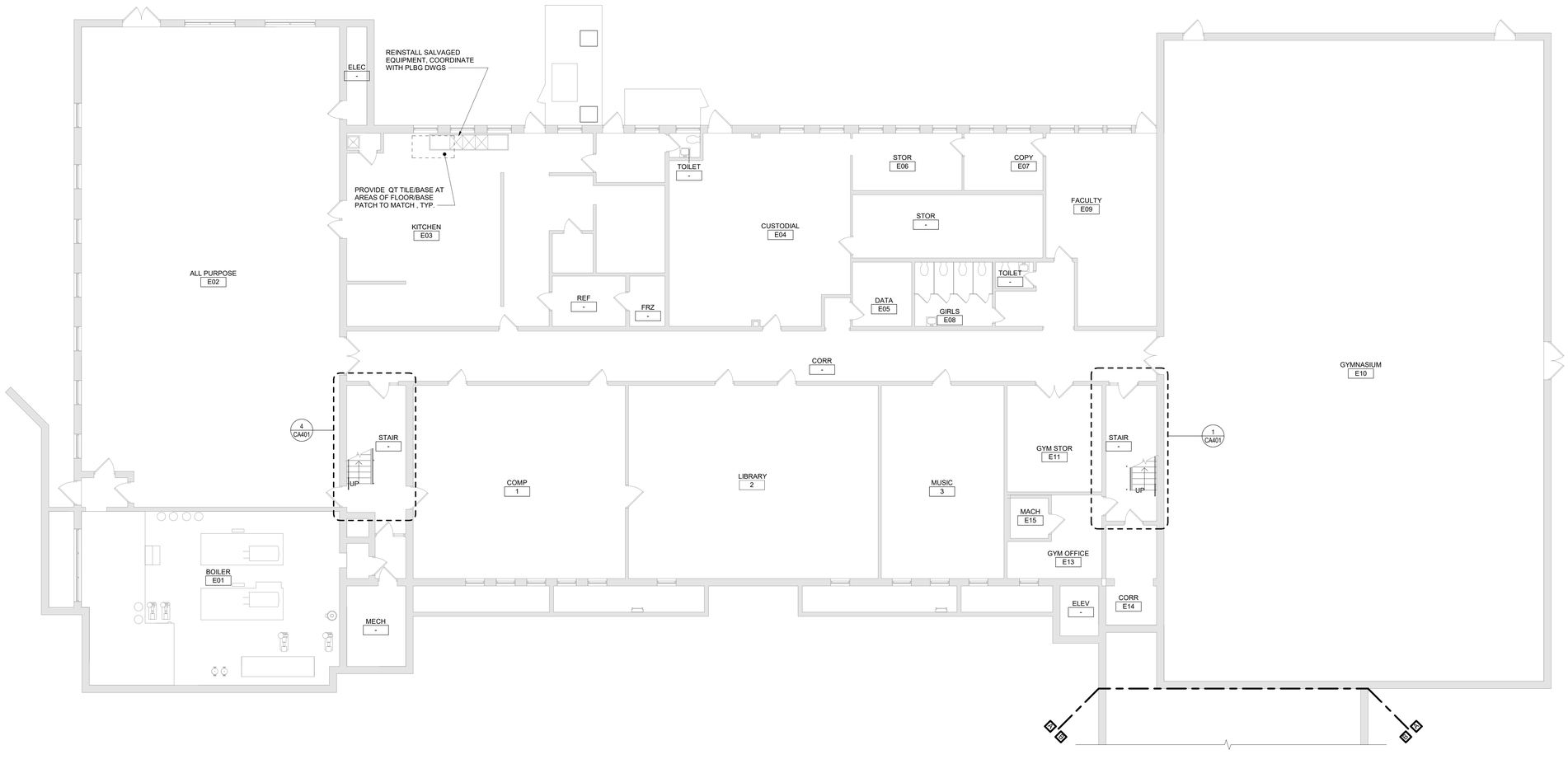
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Sargent Elementary School

First Floor Demolition Plan - Area A

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	CA101
Project No.: 279180-22004		



1 Basement Plan - Area A
1/8" = 1'-0"

General Plan Notes

A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

B. PARTITION TYPE TAGS APPLY TO ENTIRE LENGTH OF WALL INDICATED BY THAT TAG, REGARDLESS OF OPENINGS WITHIN THAT WALL, TYPICAL UNLESS NOTED OTHERWISE.

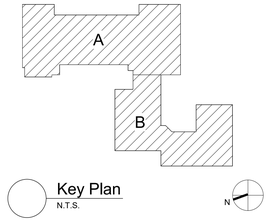
1. ALL INTERIOR WALLS SHALL BE WALL/PARTITION TYPE P12.3, TYPICAL UNLESS NOTED OTHERWISE.

C. INFILL AREAS OF RECESSED FLOOR MAT AND/OR FINISH REMOVALS WITH REPAIR MATERIAL. PROVIDE SUBSTRATE LEVEL AS REQUIRED SO SCHEDULED FINISHED FLOOR WILL MATCH THAT OF EXISTING ADJACENT AREAS.

D. PROVIDE BRACING WITHIN CHASES AS FOLLOWS:

1. MASONRY WALLS: FULL-HEIGHT 4" CMU BRACES AT MAXIMUM SPACING OF 11'-0" OC.

2. GYPSUM BOARD/TILE BACKING PANELS ON METAL FRAMING: FULL-HEIGHT 6" METAL STUD BRACES AT MAXIMUM SPACING OF 11'-0" OC.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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

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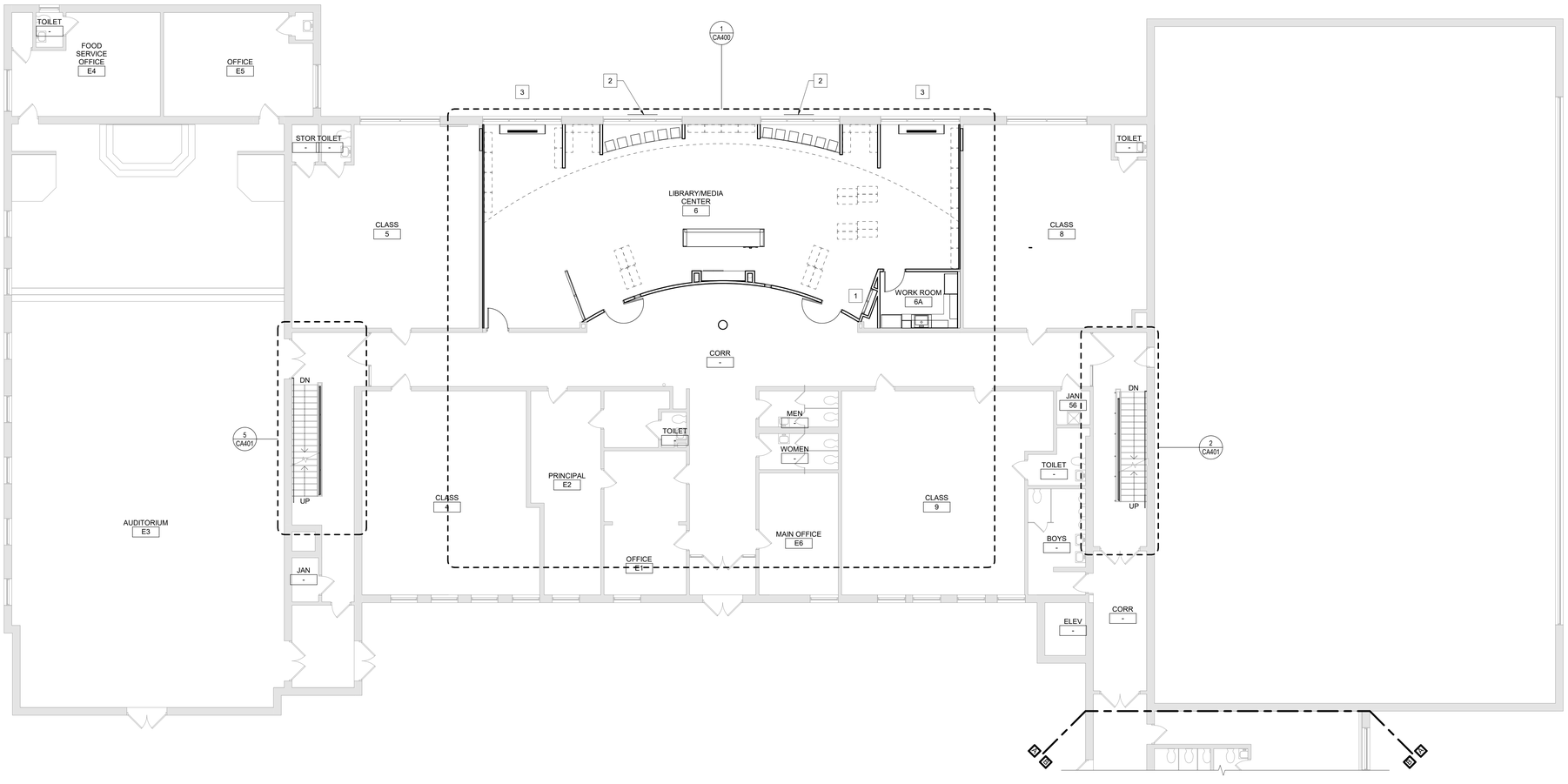
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Sargent Elementary School

Basement Plan - Area A

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	CA130
Project No.: 279180-22004		



1 First Floor Plan - Area A
1/8" = 1'-0"

General Plan Notes

A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

B. PARTITION TYPE TAGS APPLY TO ENTIRE LENGTH OF WALL INDICATED BY THAT TAG, REGARDLESS OF OPENINGS WITHIN THAT WALL, TYPICAL UNLESS NOTED OTHERWISE.

1. ALL INTERIOR WALLS SHALL BE WALL/PARTITION TYPE P12.3, TYPICAL UNLESS NOTED OTHERWISE.

C. INFILL AREAS OF RECESSED FLOOR MAT AND/OR FINISH REMOVALS WITH REPAIR MATERIAL. PROVIDE SUBSTRATE LEVEL AS REQUIRED SO SCHEDULED FINISHED FLOOR WILL MATCH THAT OF EXISTING ADJACENT AREAS.

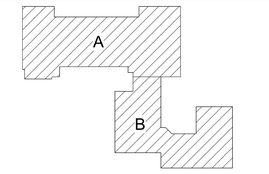
D. PROVIDE BRACING WITHIN CHASES AS FOLLOWS:

1. MASONRY WALLS: FULL-HEIGHT 4" CMU BRACES AT MAXIMUM SPACING OF 11'-0" OC.

2. GYPSUM BOARD/TILE BACKING PANELS ON METAL FRAMING: FULL-HEIGHT 6" METAL STUD BRACES AT MAXIMUM SPACING OF 11'-0" OC.

Keyed Plan Notes

1. DISPLAY CASE, REFER TO DETAIL 8/CA750.
2. PROVIDE EXTERIOR WALL INFILL AT EXISTING OPENING. MATCH ADJACENT CONSTRUCTION MATERIALS AND THICKNESS, VIF.
3. INSTALL LOUVER FURNISHED BY OTHERS AT NEW OPENING. COORDINATE WITH MECHANICAL DRAWINGS.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Sargent Elementary School

First Floor Plan - Area A

Drawn By:	Date:	Drawing Number:
GK	10/28/2022	CA131
Project No.: 279180-22004		

1 Second Floor Plan
1/8" = 1'-0"

General Plan Notes

A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

B. PARTITION TYPE TAGS APPLY TO ENTIRE LENGTH OF WALL INDICATED BY THAT TAG, REGARDLESS OF OPENINGS WITHIN THAT WALL, TYPICAL UNLESS NOTED OTHERWISE.

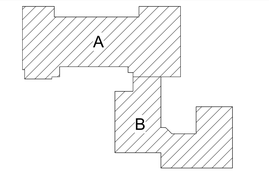
1. ALL INTERIOR WALLS SHALL BE WALL/PARTITION TYPE P12.3, TYPICAL UNLESS NOTED OTHERWISE.

C. INFILL AREAS OF RECESSED FLOOR MAT AND/OR FINISH REMOVALS WITH REPAIR MATERIAL. PROVIDE SUBSTRATE LEVEL AS REQUIRED SO SCHEDULED FINISHED FLOOR WILL MATCH THAT OF EXISTING ADJACENT AREAS.

D. PROVIDE BRACING WITHIN CHASES AS FOLLOWS:

1. MASONRY WALLS: FULL-HEIGHT 4" CMU BRACES AT MAXIMUM SPACING OF 11'-0" OC.

2. GYPSUM BOARD/TILE BACKING PANELS ON METAL FRAMING: FULL-HEIGHT 6" METAL STUD BRACES AT MAXIMUM SPACING OF 11'-0" OC.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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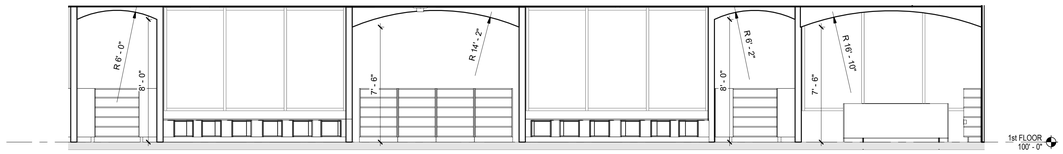
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

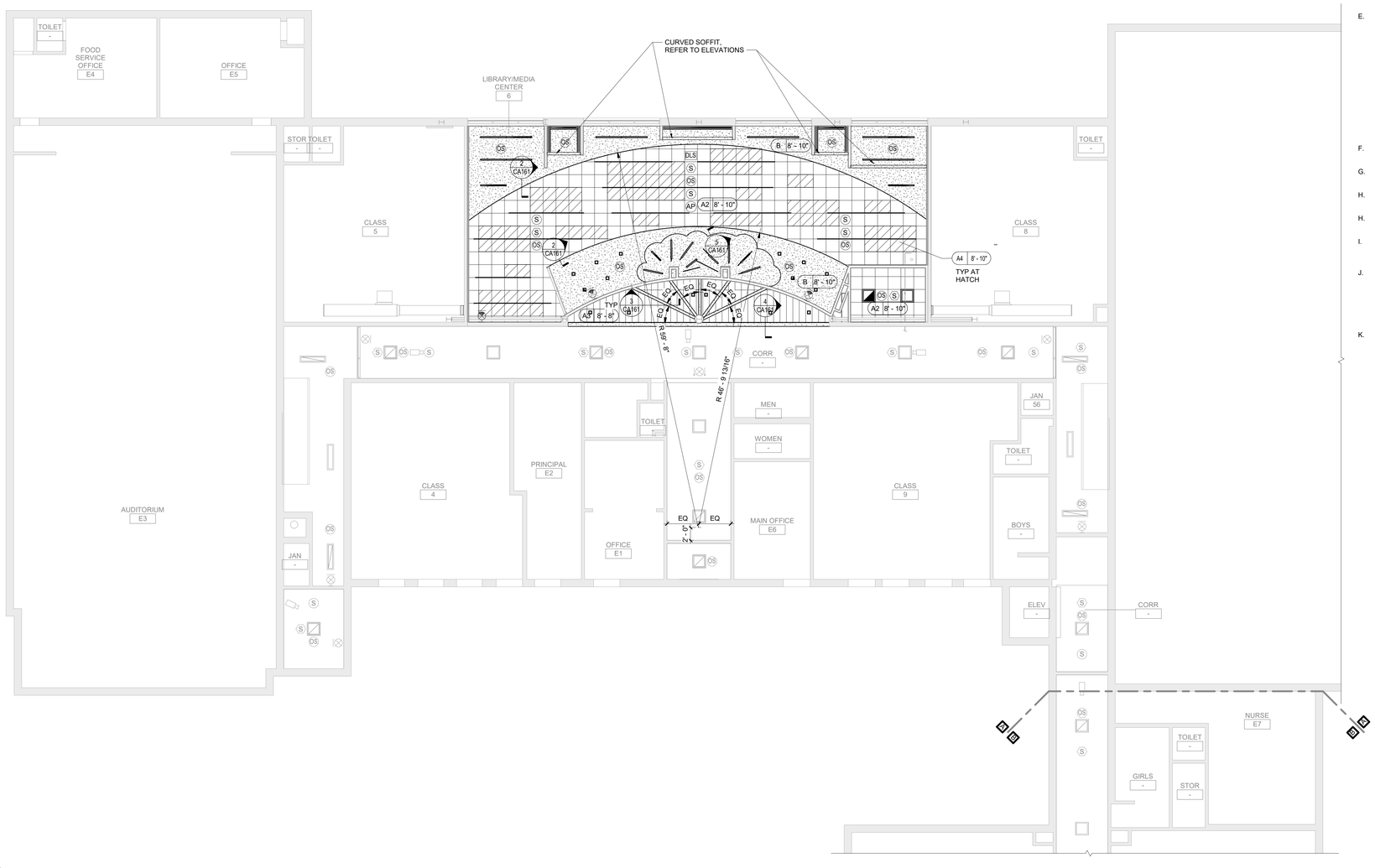
Reconstruction to:
Sargent Elementary School

Second Floor Plan

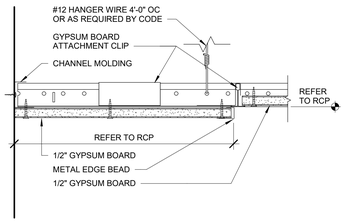
Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	CA132
Project No.: 279180-22004		



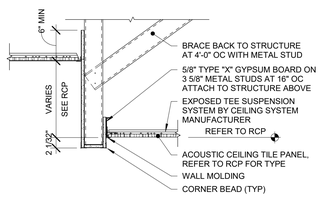
6 Interior Elevation
1/4" = 1'-0"



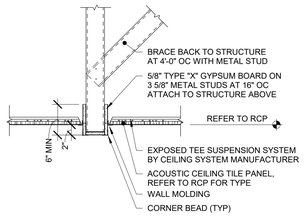
1 First Floor Reflected Ceiling Plan Area A
1/8" = 1'-0"



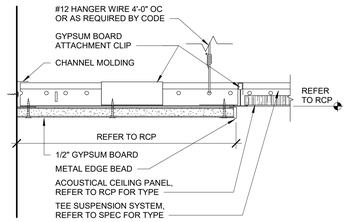
5 Ceiling Detail
3" = 1'-0"



4 Soffit Detail
1" = 1'-0"



3 Soffit Detail
1" = 1'-0"



2 Ceiling Detail
3" = 1'-0"

General Finish Notes

ALL FINISH PRODUCTS ARE TO BE INSTALLED IN ACCORDANCE WITH CONTRACT SPECIFICATION AND MANUFACTURES INSTRUCTIONS. REFER TO SPECIFICATIONS AND FINISH DETAILS FOR ADDITIONAL INFORMATION ON INSTALLATION OF SPECIFIED MATERIALS,

A. ALL PAINTS FOR INTERIOR AND EXTERIOR ARE TO BE APPLIED IN ACCORDANCE WITH SPECIFICATION SECTION 09 91 00 AND 09 96 00.

B. ALL EXPOSED STRUCTURES, INCLUDING BUT NOT LIMITED TO PIPING AND FIREPROOFING, CONDUIT, AND ALL ASSOCIATED EQUIPMENT ARE TO BE PAINTED.

C. APPLY PAINT TO BOTH NEW AND EXISTING ITEMS IN ALL AREAS INDICATED WITH A FINISH BOX AND/OR NOTES - THESE ITEMS ARE INCLUDING BUT ARE NOT LIMITED TO:
- FEC 'S, LADDERS, BEAMS, DOOR/FRAMES - BOTH SIDES
GLAZING FRAMES IN DOOR/WALLS- BOTH SIDES, ALL EXPOSED STAIR PARTS INCLUDING RAILINGS, HAND AND GUARD RAILS, STRINGERS AND UNDERSIDES OF STAIRS, ALL ITEMS ARE TO BE ACCENT COLORS.

D. PATTERNS FOR FLOORS ARE AS SHOWN, SUBMIT SHOP DRAWINGS SHOWING DETAILED LAYOUTS OF EACH AREA, INCLUDING EDGES AND TRANSITIONS, ALL LAYOUTS ARE TO BE CENTERED IN EACH ROOM UNO - TYP ALL DRAWINGS. ABOVE REQUIREMENTS ARE TO INCLUDE BUT NOT LIMITED TO:
- TERRAZZO AND BASE
- CARPET
- VCT
- LVT
- RUBBER

E. FIELD AND ACCENT PAINT ARE ISSUED DURING THE CONSTRUCT ION PHASE. CONTRACTOR IS TO ASSUME ALL FIELD AND ACCENT COLORS ARE DIFFERENT ROOM TO ROOM. AS WELL AS WITHIN EACH ROOM, REQUIREMENTS ARE TO INCLUDE BUT ARE NOT LIMITED TO:
- WALL, FIELD COLOR
- WALL, ACCENT COLOR
- CEILING CLOUDS, ACCENT COLOR
- SOFFITS, ACCENT COLOR
- DOOR AND WINDOW FRAMES, ACCENT COLOR
- EXPOSED COLUMNS, ACCENT COLOR
- GUARDRAILS, ACCENT COLOR
- HANDRAILS, ACCENT COLOR
- EXPOSED DECKS, ACCENT COLOR
- EXPOSED JOISTS, ACCENT COLOR
- EXPOSED DUCTWORK, ACCENT COLOR

F. PROVIDE PAINT AT ALL NEW SOFFITS, REFER TO REFLECTIVE CEILING PLANS FOR ADDITIONAL LOCATIONS.

G. ALL EXPOSED BRICK, GROUND FACE BLOCK IS TO REMAIN UNPAINTED, UNO.

H. CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PAINTING OVER MURALS ON EXISTING SURFACES.

H. PROVIDE PAINT AND RUBBER BASE AT ALL NEW CHASES, REFER TO NEW WORK PLANS FOR ADDITIONAL LOCATIONS.

I. CARPET IS TO RUN WALL TO WALL, UNDER ALL FURNITURE, MOVEABLE EQUIPMENT AND LIBRARY SHELVING UNITS, INCLUDING ALL UNITS AT THE PERIMETER WALLS.

J. FOR ALL RENOVATED AREAS REQUIRING FINISH WORK REMOVE, PROTECT AND REINSTALL MOVABLE EQUIPMENT INCLUDING BUT NOT LIMITED TO: BOARD UNITS, LOCKERS GYM EQUIPMENT, SHADES/BLINDS, BOOKCASES ETC. REINSTALL IN ORIGINAL LOCATION, OR AS NOTED ON DRAWINGS, COORDINATE WITH OWNER. REFER TO SPEC SECTION O1 23 00 ALTERATION PROJECT PROCEDURES FOR MORE INFORMATION.

K. PROVIDE ALL FINISHES AS INDICATED BY ROOM FINISH BOX AND/OR AS NOTED ON DRAWINGS.

General Ceiling Notes

A. LIGHTING AND OTHER CEILING-MOUNTED FIXTURES ARE SHOWN FOR DRAWING CLARITY. COORDINATE ALL CEILING WORK PRIOR TO INSTALLATION OF CEILING GRID.

B. CENTER CEILING-MOUNTED ITEMS (LIGHTS, GRILLES, DETECTORS, SPRINKLER HEAD, ETC) WITHIN THE CEILING PANELS AND GRIDS UNLESS THE PANELS ARE SCORED. CENTER ITEMS WITHIN THE PATTERN OF SCORED PANELS.

C. PATCH CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK TO MATCH ADJACENT CONSTRUCTION PRIOR TO PAINTING.

D. (X | 9'-0") DESIGNATES BOTTOM OF CEILING ABOVE FINISHED FLOOR AT THAT POINT UNO. DESIGNATION "ME" INDICATES MATCH EXISTING CEILING HEIGHT.

E. AT ALL LOCATIONS OF GYPSUM CEILINGS - PROVIDE 24" X 24" CONCEALED FLANGE ACCESS DOOR REGARDLESS OF LOCATION OR REQUIREMENT FOR ACCESS TO EQUIPMENT.

Ceiling Types

(A2 | X'-X") ACOUSTIC PANEL CEILING

(A3 | X'-X") ACOUSTIC PANEL CEILING

(A4 | X'-X") ACOUSTIC PANEL CEILING

(B | X'-X") PAINTED 1/2" GYPSUM CEILING ON SUPPORT MATERIALS (GRID SUSPENSION SYSTEM, TYP UNO)

Ceiling Tile Legend

TIDE FELT PANEL (A4)

General Notes

A. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

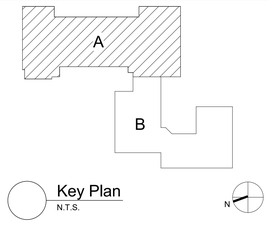
B. TAKE FIELD MEASUREMENTS TO FIT THE WORK PROPERLY. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.

C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.

D. ITEMS ARE SHOWN DIAGRAMMATICALLY ON DRAWINGS. VERIFY SPACE REQUIREMENTS AND DIMENSIONS TO FIT THE WORK PROPERLY.

E. NOTES SHOWN ON ONE DRAWING APPLY TO ALL SIMILAR DRAWINGS.

F. DO NOT DISTURB CONSTRUCTION SUSPECTED OF CONTAINING HAZARDOUS MATERIAL. IF ENCOUNTERED, IMMEDIATELY NOTIFY ARCHITECT[, CONSTRUCTION MANAGER] AND OWNER.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

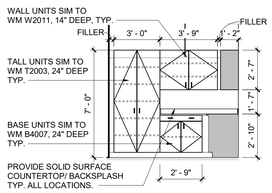
Beacon City School District
Beacon, New York

Reconstruction to:
Sargent Elementary School

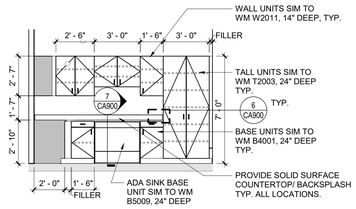
First Floor Reflected Ceiling Plan - Area A

Drawn By:	Date:	Drawing Number:
GK	10/28/2022	CA161

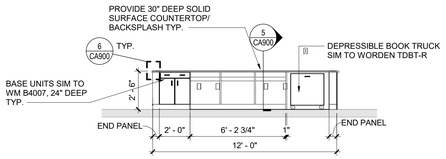
Project No.: 279180-22004



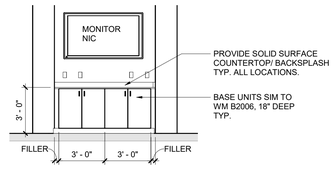
3 Work Room 6A
1/4" = 1'-0"



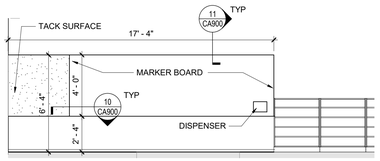
2 Work Room 6A
1/4" = 1'-0"



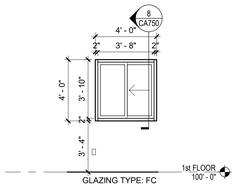
6 Library Media Center 6
1/4" = 1'-0"



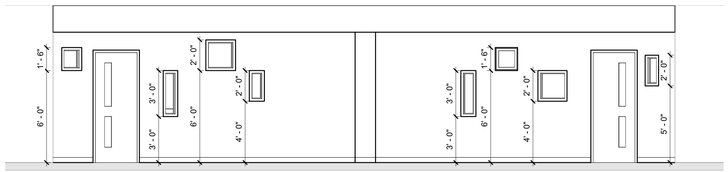
5 Library Media Center 6
1/4" = 1'-0"



9 Library Media Center 6
1/4" = 1'-0"



7 Display Case Window
1/4" = 1'-0"



8 Corridor Elevation
1/4" = 1'-0"

LIBRARY SHELVING SCHEDULE

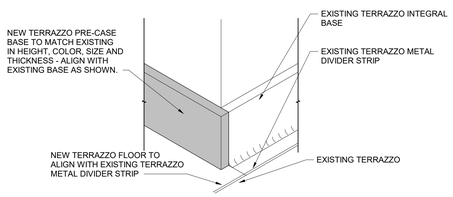
A	WORDEN	SHELVING - STARTER	36"W X 42" H X 14" D	PROVIDE WITH SOLID SURFACE TOPS, SEE DETAIL
B	WORDEN	SHELVING - ADDER	36"W X 42" H X 14" D	PROVIDE WITH SOLID SURFACE TOPS, SEE DETAIL
C	WORDEN	SHELVING - DOUBLE UNITS	36"W X 42" H X 24" D	PROVIDE WITH SOLID SURFACE TOPS, SEE DETAILS. EACH DOUBLE UNITS IS TO HAVE 4 LOCKING CASTERS
D	WORDEN	SHELVING - BIG BOOK	16"W X 17" H X 18" D	PROVIDE WITH SOLID SURFACE TOPS, SEE DETAIL

REFER TO DRAWING CA900 FOR LIBRARY SHELVING NOTES.

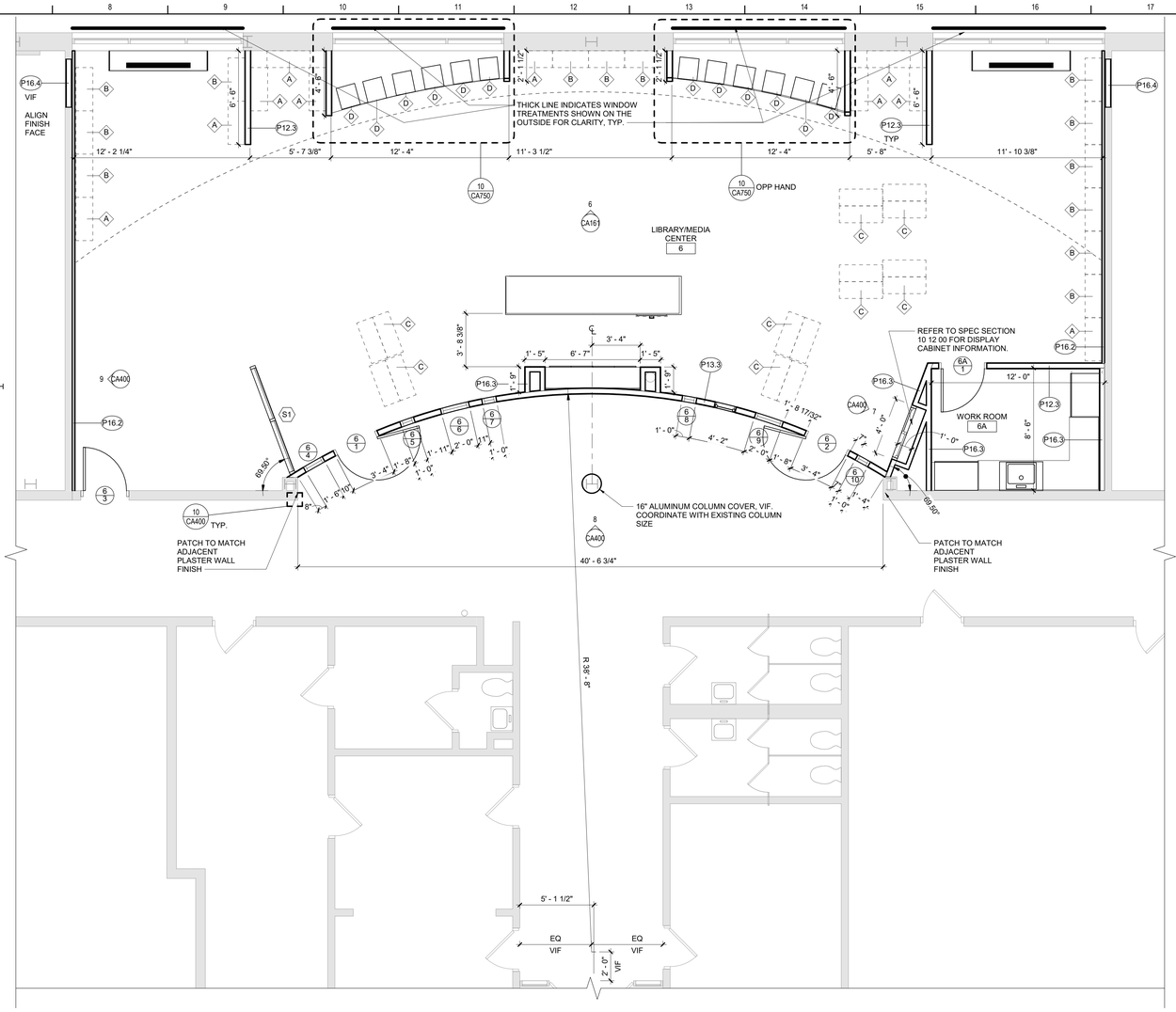
REFER TO DRAWING CA900 FOR SHELVING TOP DETAIL.

ALL UNITS ARE TO BE MODIFIED PER SHELVING SCHEDULE.

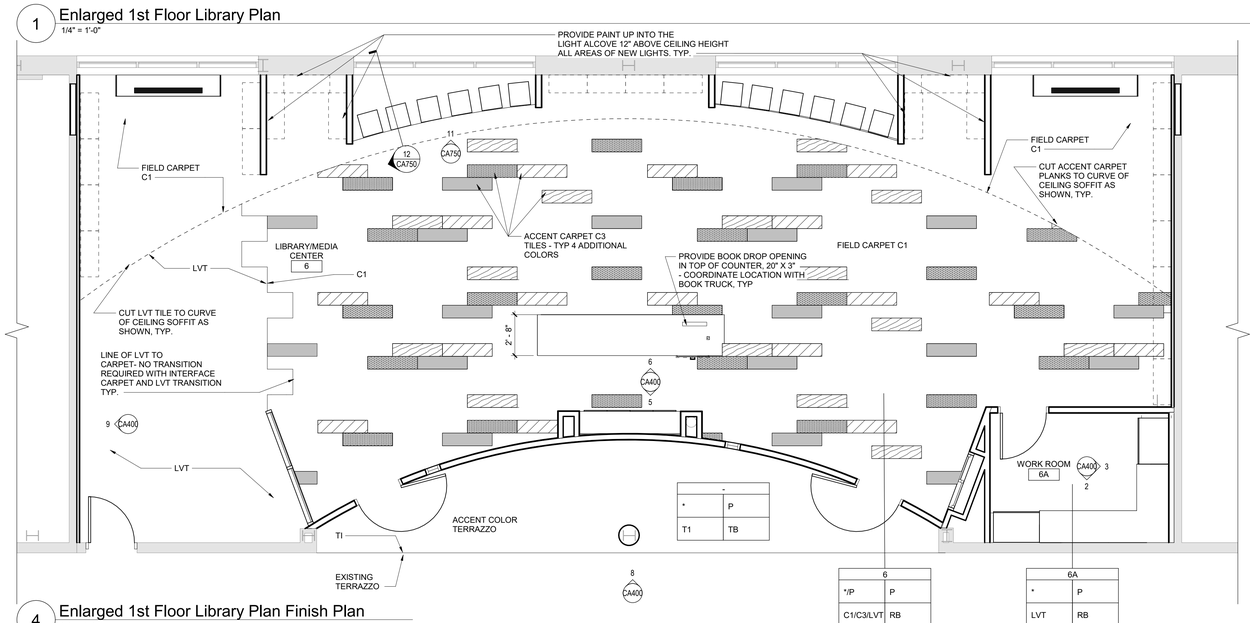
PROVIDE FULL FINISHED FILLER PANELS AT ALL TOP/SIDE/CORNERS AS REQUIRED, PROVIDED BY LIBRARY SHELVING SUPPLIER, INCLUDING BETWEEN BASE UNITS AT WINDOW SEAT AREAS, TYP.



10 Terrazzo Base at New Opening
1 1/2" = 1'-0"



1 Enlarged 1st Floor Library Plan
1/4" = 1'-0"



4 Enlarged 1st Floor Library Plan Finish Plan
1/4" = 1'-0"

Room Finish Key

C1	CARPET - TYPE 1
C3	CARPET ACCENT PLANKS
HPC	HIGH PERFORMANCE COATING
LVT	LUXURY VINYL TILE
N	NO WORK REQUIRED
P	PAINT SURFACE(S) INCLUDING SOFFITS
QT	QUARRY TILE
RF1	RUBBER FLOORING - TYPE 1
RS	RUBBER STAIR TREAD AND RISERS
RB	RUBBER BASE
RFM	RECESSED FLOOR MAT
T1	TERRAZZO - TYPE 1 - POURED EPOXY
TB	TERRAZZO BASE - PRECAST
VCT1	VINYL COMPOSITION TILE - TYPE 1
*	SEE REFLECTED CEILING PLAN
	INDICATED CHANGE IN FLOOR FINISH

NOTE: ALL FINISHES LISTED MAY NOT BE REQUIRED FOR THIS PROJECT

FINISHES SHOWN IN ROOM FINISH BOX ARE FOR ALL WALLS AND ENTIRE FLOOR AND CEILING REFER TO EACH ROOM FOR MORE INFORMATION.

RM#	
CLG*	WALL
FLR	BASE

Window Treatment Key

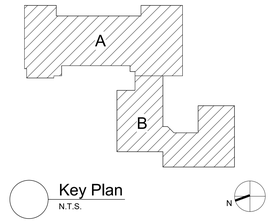
INDICATES AREAS OF WINDOW TREATMENT

Window Treatment Notes

THIS DRAWING IS FOR LOCATION OF WINDOW TREATMENTS ONLY, SPECIFICATIONS SECTION AND ARCH. DRAWINGS FOR SIZES AND ADDITIONAL PRODUCT INFORMATION.

SHADE SIZES SHALL BE COORDINATED WITH WINDOWS, INCLUDING ALL RESCUE WINDOW REQUIREMENTS.

REFER TO DRAWING CA400 FOR CASEWORK NOTES
REFER TO DRAWING CA400 FOR GENERAL FINISH NOTES



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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

BID SET

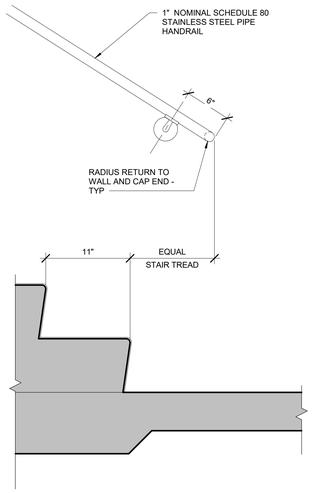
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

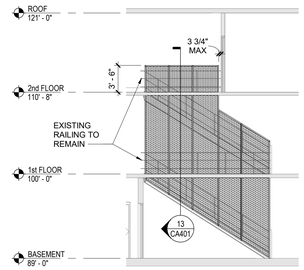
Reconstruction to:
Sargent Elementary School

Enlarged Plans / Interior Elevations

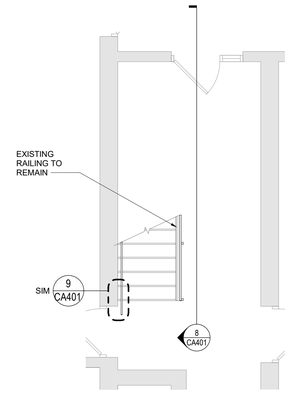
Drawn By:	Date:	Drawing Number:
MHH/GK	10/28/2022	CA400
Project No.: 279180-22004		



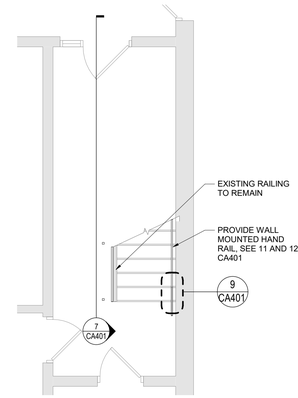
11 Typical Stair Base Section
1 1/2" = 1'-0"



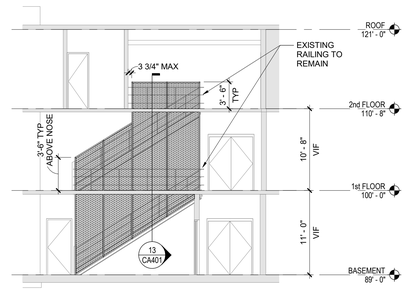
7 South Stair Section
1/8" = 1'-0"



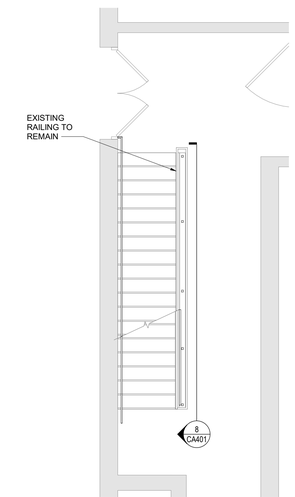
4 North Stair Enlarged Basement Plan
1/4" = 1'-0"



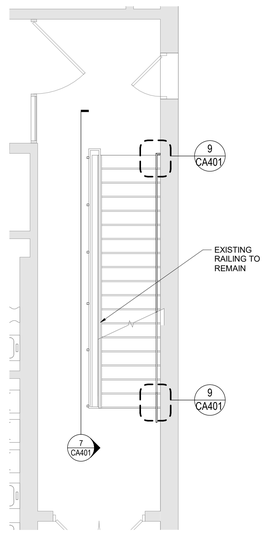
1 South Stair Enlarged Basement Plan
1/4" = 1'-0"



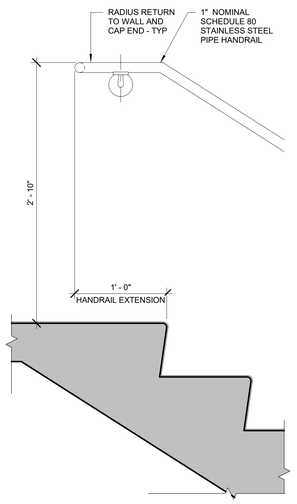
8 North Stair Section
1/8" = 1'-0"



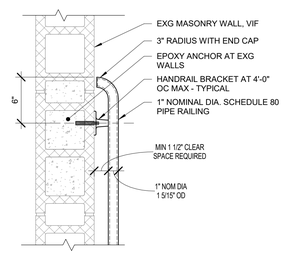
5 North Stair Enlarged First Floor Plan
1/4" = 1'-0"



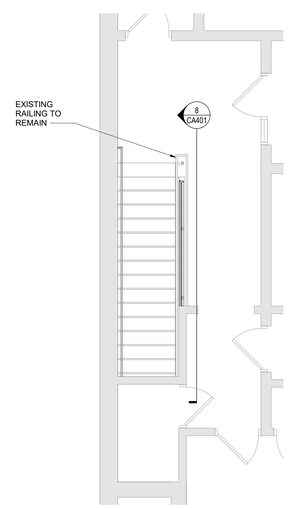
2 South Stair Enlarged First Floor Plan
1/4" = 1'-0"



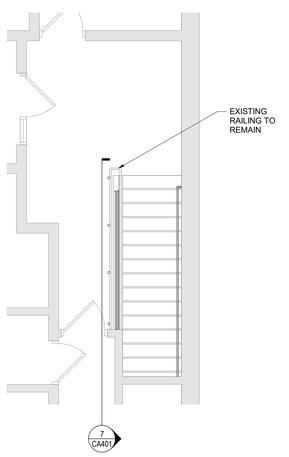
12 Typical Stair Head Section
1 1/2" = 1'-0"



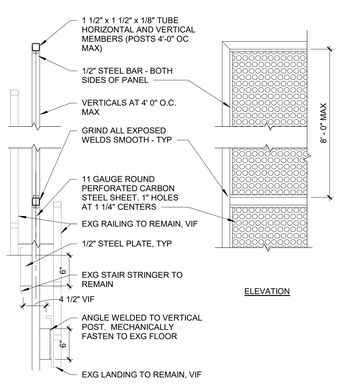
9 Railing Termination Detail
1 1/2" = 1'-0"



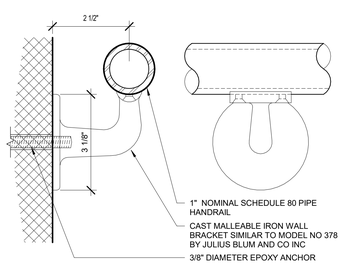
6 North Stair Enlarged Second Floor Plan
1/4" = 1'-0"



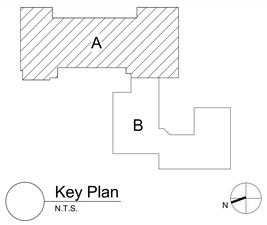
3 South Stair Enlarged Second Floor Plan
1/4" = 1'-0"



13 Guardrail Section Detail
1" = 1'-0"



10 Wall Mounted Rail Support Detail
6" = 1'-0"



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Sargent Elementary School

Enlarged Stair Plans, Sections, and Details

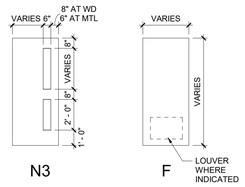
Drawn By:	Date:	Drawing Number:
GK	10/28/2022	CA401
Project No.: 279180-22004		

Door Schedule

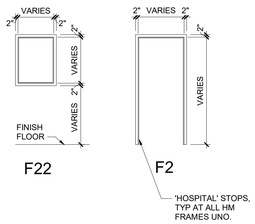
ROOM NUMBER	DOOR NUMBER	DOOR TYPE	DOOR MATERIAL	DOOR WIDTH	DOOR HEIGHT	DOOR RATING	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME WIDTH	FRAME HEIGHT	FRAME RATING	FRAME GLAZING	HEAD	JAMB	SILL	HDW SET	REMARKS
1st FLOOR																		
6	1	N3	WD	3' - 0"	7' - 2"	20 MIN	FP	F2	HM	3' - 4"	7' - 4"	20 MIN	-	H-13	J-13	-	01	NOTE 1
6	2	N3	WD	3' - 0"	7' - 2"	20 MIN	FP	F2	HM	3' - 4"	7' - 4"	20 MIN	-	H-13	J-13	-	01	NOTE 1
6	3	N3	WD	3' - 0"	7' - 2"	20 MIN	FP	F2	HM	3' - 4"	7' - 4"	20 MIN	-	H-2	J-2	-	02	NOTE 1
6	4	-	-	0"	0"	20 MIN	-	F22	HM	1' - 6"	1' - 6"	45 MIN	FPC	J-14 SIM	J-14	-		NOTE 1, SILL HEIGHT 6'-0" AFF
6	5	-	-	0"	0"	20 MIN	-	F22	HM	1' - 0"	3' - 0"	45 MIN	FPC	J-14 SIM	J-14	-		NOTE 1, SILL HEIGHT 3'-0" AFF
6	6	-	-	0"	0"	20 MIN	-	F22	HM	2' - 0"	2' - 0"	45 MIN	FPC	J-14 SIM	J-14	-		NOTE 1, SILL HEIGHT 6'-0" AFF
6	7	-	-	0"	0"	20 MIN	-	F22	HM	1' - 0"	2' - 0"	45 MIN	FPC	J-14 SIM	J-14	-		NOTE 1, SILL HEIGHT 4'-0" AFF
6	8	-	-	0"	0"	20 MIN	-	F22	HM	1' - 0"	3' - 0"	45 MIN	FPC	J-14 SIM	J-14	-		NOTE 1, SILL HEIGHT 3'-0" AFF
6	9	-	-	0"	0"	20 MIN	-	F22	HM	2' - 0"	2' - 0"	45 MIN	FPC	J-14 SIM	J-14	-		NOTE 1, SILL HEIGHT 4'-0" AFF
6	10	-	-	0"	0"	20 MIN	-	F22	HM	1' - 0"	2' - 0"	45 MIN	FPC	J-14 SIM	J-14	-		NOTE 1, SILL HEIGHT 5'-0" AFF
6A	1	F	WD	3' - 0"	7' - 2"	-	-	F2	HM	3' - 4"	7' - 4"	-	-	H-13	J-13	-	03	PROVIDE LOUVER 10" HIGH X 20" WIDE

GENERAL NOTES:
VERIFY ALL DIMENSIONS IN THE FIELD

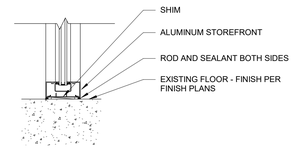
SPECIFIC NOTES
- NOT APPLICABLE
1. COORDINATE WITH CURVED WALL RADIUS, SEE PLAN



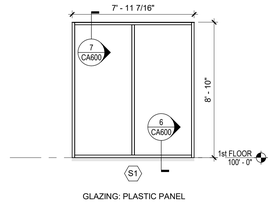
DOOR TYPES



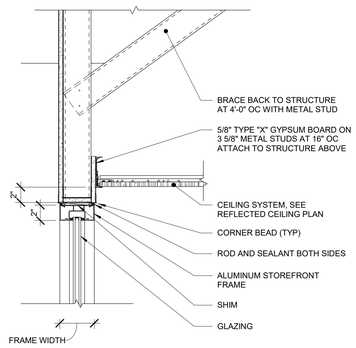
FRAME TYPES



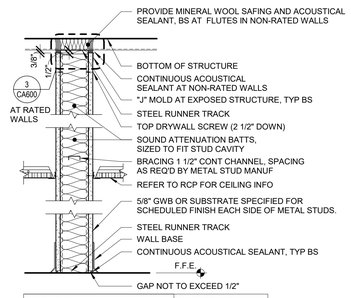
6 Sill Detail
1 1/2" = 1'-0"



4 Storefront S1
1/4" = 1'-0"

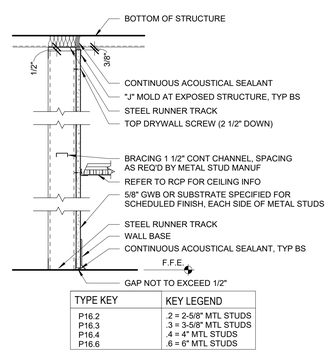


7 Head Detail
1 1/2" = 1'-0"



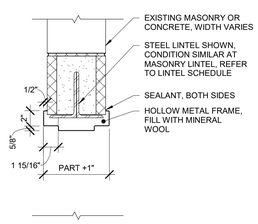
TYPE KEY	KEY LEGEND
P12.3, P12.4, AND P12.6 (NO RATING) P13.3 UL DESIGN #U465 (1 HOUR) P13.4 UL DESIGN #U465 (1 HOUR) P13.6 UL DESIGN #U465 (1 HOUR)	.3 = 3-5/8" MTL STUDS .4 = 4" MTL STUDS .6 = 6" MTL STUDS

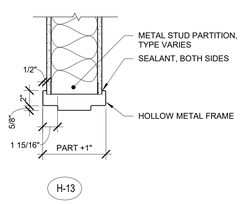
1 Metal Stud Partition Type P12 and P13
1 1/2" = 1'-0"

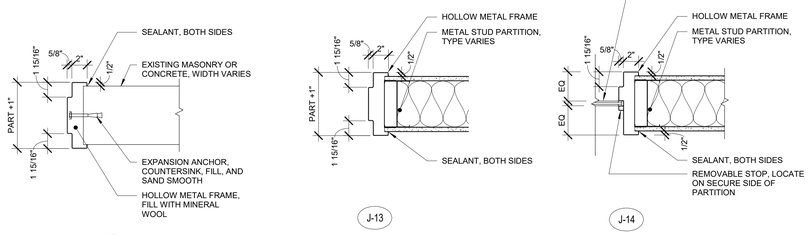


TYPE KEY	KEY LEGEND
P16.2 P16.3 P16.4 P16.6	.2 = 2-5/8" MTL STUDS .3 = 3-5/8" MTL STUDS .4 = 4" MTL STUDS .6 = 6" MTL STUDS

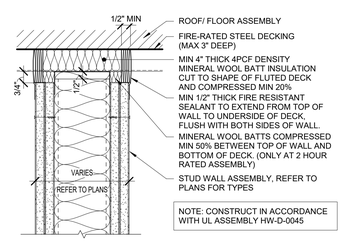
2 Metal Stud Partition Type P16
1 1/2" = 1'-0"







5 Typical Hollow Metal Frame Details
1 1/2" = 1'-0"



NOTE: CONSTRUCT IN ACCORDANCE WITH UL ASSEMBLY HW-D-0045

3 Typical Top of Wall Assembly (Rated)
3" = 1'-0"

General Door Notes

A. HARDWARE ON DOORS FROM SPACES OF PUPIL OCCUPANCY SHALL BE A TYPE WHICH WILL ALWAYS PERMIT THE DOOR TO BE OPENED FROM THE INSIDE WITHOUT DIRECT MANIPULATION OF ANY TYPE LOCKING DEVICE.

B. METAL VISION PANEL TRIM SHALL BE PAINTED SAME COLOR AS DOOR FRAMES.

C. APPLY CONTINUOUS JOINT SEALANT TO ALL JOINTS BETWEEN FRAMES AND WALLS, TYP ALL.

D. PAINT ALL HM DOORS AND FRAMES.

E. PROVIDE LINTELS AT ALL DOOR AND WINDOW OPENINGS IN ACCORDANCE WITH LINTEL SCHEDULE ON STRUCTURAL DWGS.

F. NOTE THAT DUE TO REQUIREMENTS IN THE BCNYS, SOME FIRE RESISTANCE RATINGS MAY DIFFER BETWEEN DOORS (AND ITS GLASS, IF ANY) AND THAT DOOR'S FRAME ESPECIALLY IF THAT FRAME HAS GLASS (SIDELITES, TRANSOMS; ETC).

G. VERIFY SIZES OF ALL EXISTING OPENINGS IN SCHEDULE PRIOR TO FIRST SUBMISSION OF SHOP DRAWINGS. NOTIFY ARCHITECT IF ANY ARE LESS THAN CODE MINIMUM HEIGHT OF 6'-8". ASSUME FOR BIDDING ALL EXISTING OPENINGS ARE AS NOTED IN THE SCHEDULE (VIF, TYP).

H. MATERIAL DESIGNATION KEY:
FRP FIBERGLASS REINFORCED PLASTIC
HM HOLLOW METAL
WD WOOD
AL ALUMINUM
STL STEEL
EXG EXISTING

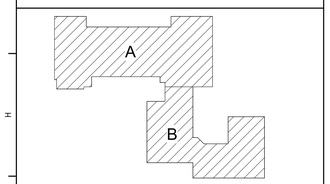
J. ADDITIONAL DOOR SCHEDULE DESIGNATIONS:
* EXISTING TO REMAIN
\- NOT APPLICABLE
NOT APPLICABLE OR TO BE COORDINATED WITH STOREFRONT TYPE.

General Window Notes

A. REFER TO WINDOW TREATMENTS AS SHOWN ON DRAWINGS.

B. GLAZING SYSTEMS FRAME TYPE KEY:

HM HOLLOW METAL
S ALUMINUM STOREFRONT



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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BID SET

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

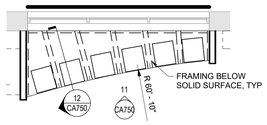
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

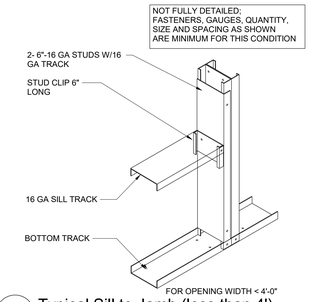
Reconstruction to:
Sargent Elementary School

Door Schedule, Door and Window Types, and Details

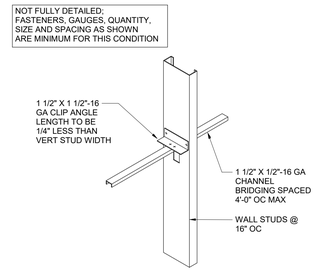
Drawn By:	Date:	Drawing Number:
GK	10/28/2022	CA600
Project No.: 279180-22004		



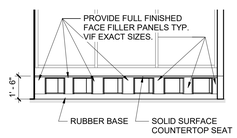
10 Window Seat - Plan
1/4" = 1'-0"



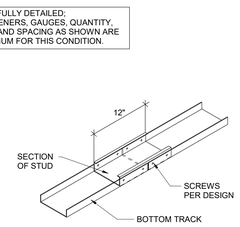
6 Typical Sill to Jamb (less than 4')
3/4" = 1'-0"



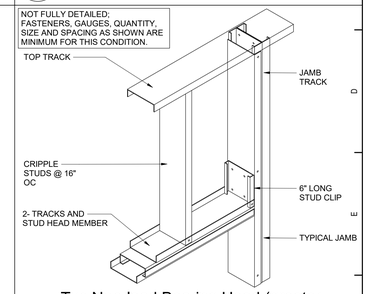
1 Typical Wall Bridging
3/4" = 1'-0"



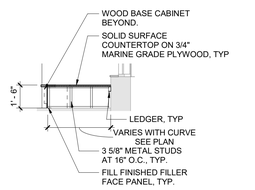
11 Elevation- Window Seat
1/4" = 1'-0"



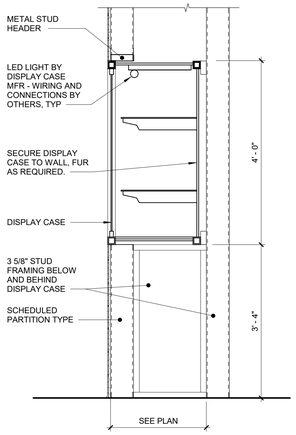
7 Typical Track Splice
3/4" = 1'-0"



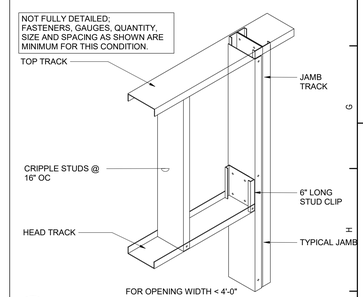
2 Typ Non-load Bearing Head (greater than 4)
3/4" = 1'-0"



12 Bench Section
1/4" = 1'-0"



8 Display Case Detail
3/4" = 1'-0"



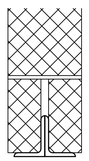
3 Typ Non-load Bearing Head (less than 4)
3/4" = 1'-0"

1. FOR 4" THICK WALLS

MASONRY OPENING	LINTEL ANGLE
UP TO 6'-4"	MT 6X5.9

2. FOR 6" THICK WALLS

MASONRY OPENING (±)	LINTEL ANGLE
5'-0"	2- L2 1/2X2 1/2X5/16
6'-0"	2- L3X2 1/2X5/16 LLV
7'-0"	2- L3 1/2X2 1/2X5/16 LLV
8'-0"	2- L3 1/2X2 1/2X5/16 LLV



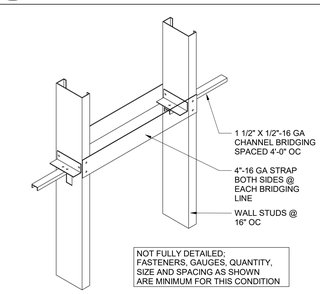
3. FOR 8", 12", AND 16" THICK WALLS:
FOR EACH 4" THICKNESS OF WALL

MASONRY OPENING (±)	LINTEL ANGLE
5'-0"	L3 1/2X3 1/2X5/16
6'-0"	L4X3 1/2X 5/16 LLV
7'-0"	L5X3 1/2X5/16 LLV
8'-0"	L5X3 1/2X5/16 LLV
9'-0"	L6X3 1/2X5/16 LLV
10'-0"	L6X3 1/2X5/16 LLV

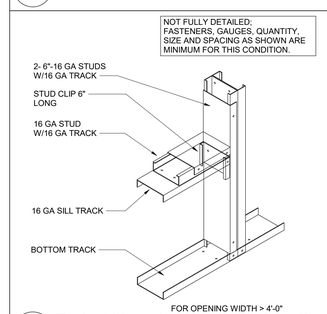
LINTEL NOTES

1. ALL OPENINGS 1'-0" AND OVER REQUIRE LINTELS.
2. STEEL TO BE A36.
3. THIS SCHEDULE IS TYPICAL FOR ALL MASONRY OPENINGS IN NON-LOAD BEARING WALLS UNLESS OTHERWISE NOTED.
4. ALL LINTELS TO HAVE MINIMUM 8" BEARING BOTH ENDS.
5. BACK TO BACK ANGLES ARE TO BE STITCH WELDED TOGETHER BEFORE PLACEMENT.
6. ALL LINTELS ARE TO HAVE BOTH ENDS BEAR ON SOLID MASONRY OR SOLIDLY GROUTED HOLLOW MASONRY.
7. WHERE MINIMUM 8" BEARING LENGTH CANNOT BE PROVIDED DUE TO COLUMN INTERFERENCE, PROVIDE CONNECTION OF LINTEL TO COLUMN.
8. THIS LINTEL SCHEDULE IS APPLICABLE FOR USE IN EXISTING BUILDING. SHORE EXISTING STRUCTURE AND WALL AS REQD FOR INSTALLATION OF NEW MAS AND LINTEL. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.

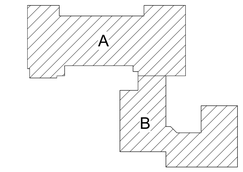
9 Lintel Schedule
12" = 1'-0"



4 Typ Wall Bridging at Pipe Chase
3/4" = 1'-0"



5 Typical Sill to Jamb (greater than 4')
3/4" = 1'-0"



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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BID SET

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

TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Sargent Elementary School

Miscellaneous Details

Drawn By:	Date:	Drawing Number:
GK/MHH/TLG	10/28/2022	CA750
Project No.: 279180-22004		

General Wood Casework Notes

FOR ALL CONTRACTOR RESPONSIBILITIES REFER TO SPECIFICATION SECTION 01 10 00/01 12 00.

A. THE CASEWORK SHOWN ON THE DRAWINGS IS BASED ON WOOD METAL WOOD CASEWORK. REFER TO THE PROJECT MANUAL, SECTION 12 32 13 FOR DETAILED SPECIFICATIONS.

B. ALL STANDARD CASEWORK DIMENSIONS TO BE MODIFIED TO CORRESPOND WITH THE DIMENSIONS NOTED ON THE DRAWINGS. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF CABINETS

C. MODEL NUMBERS LISTED ON DRAWINGS APPLY TO ELEVATIONS SHOWN. PROVIDE OPPOSITE HAND MODELS WHERE SHOWN.

D. PROVIDE FULL DEPTH SHELVES AT BASE, WALL AND TALL CABINETS, UNLESS NOTED OTHERWISE.

E. BASE AND TALL CABINETS ARE 24 INCHES DEEP. U.N.O. WALL CABINETS ARE 14 INCHES DEEP, UNO BASE CABINET DEPTH DOES NOT INCLUDE 1" COUNTERTOP OVERHANG, TYP.

F. PROVIDE FINISHED ENDS, BACK EXTENSIONS, SCRIBES AND FINISHED FILLER PANELS ON ALL CABINETS. FILLER PANELS ARE NOT TO EXCEED 3" WIDE, UNLESS NOTED OTHERWISE. PROVIDE TOP AND BOTTOM FILLER PANELS AT ALL BASE & WALL UNITS. SUBMIT SHOP DRAWINGS SHOWING DETAILS OF THESE CONDITIONS.

G. ALL COUNTERTOPS TO SOLID SURFACE UNLESS NOTED OTHERWISE. BACKSPLASHES TO BE 4" HIGH, TYP.

H. RADIUS COUNTERTOPS AT EDGE OF SOLID SURFACE COUNTERTOPS ENDS MEETING TALL SHELVING UNITS WITH A DEPTH LESS THAN COUNTERTOP DEPTH. RADIUS TO BE 1-1/2" UNLESS NOTED OTHERWISE. REFER TO DETAIL.

I. PROVIDE CUTS AT ALL CONDITIONS THAT INTERFERE WITH COUNTERTOPS/CABINETS: SCRIBE TO FIT.

J. PROVIDE SHOP DRAWINGS SHOWING LOCATIONS AND DETAILS FOR ALL GRILLES, LOUVERS, REMOVABLE PANELS, VALVE LOCATIONS ECT. ASSOCIATED WITH CASEWORK COORDINATE WITH ALL REQUIRED CONTRACTORS.

K. PROVIDE CABINETS WITH FINISHED SIDES, INCLUDING BUT NOT LIMITED TO, LOCATIONS OF ADJACENT CABINETS OR EQUIPMENT WITH A DEPTH LESS THAN CABINET OR EQUIPMENT.

L. PROVIDE ALL STANDARD FEATURES OF CASEWORK UNITS AS INDICATED BY MODEL NUMBER OR AS SHOWN ON PLANS, DETAILS AND ELEVATIONS, INCLUDED BUT NOT LIMITED TO: OUTLETS, SWITCHES, LIGHTS ETC.

M. PROVIDE BLOCKING AT NEW AND EXISTING GYPSUM BOARD WALLS PER MANUFACTURER RECOMMENDATIONS FOR SUPPORT OF WALL /TALL MOUNTED UNITS. REFER TO SPECIFICATION SECTION 06 10 00 FOR WOOD BLOCKING RESPONSIBILITIES.

N. PROVIDE LOCKS AT ALL CASEWORK DOORS/DRAWERS AND FILE UNITS TYP.

O. PROVIDE AS NOTED ON DRAWINGS AND DETAILS; 2" GROMMETS AT OPEN BASE COUNTERS 30"/36" OC, WIRE MANAGEMENT, KEY BOARD TRAYS AND CABLE TRAYS.

P. PROVIDE ALL CUTOUTS AS SHOWN ON CASEWORK PLANS AND ELEVATIONS OR AS REQUIRED. CUTOUTS ARE TO INCLUDE BUT NOT LIMITED TO: ALL ELEC BOXES, OUTLETS, AND ASSOCIATED WIRING AND FINAL HOOK-UP.

Q. REFER TO BOTH 1/8" AND 1/4" PLANS FOR LAYOUTS.

General Finish Notes

ALL FINISH PRODUCTS ARE TO BE INSTALLED IN ACCORDANCE WITH CONTRACT SPECIFICATION AND MANUFACTURES INSTRUCTIONS. REFER TO SPECIFICATIONS AND FINISH DETAILS FOR ADDITIONAL INFORMATION ON INSTALLATION OF SPECIFIED MATERIALS,

A. ALL PAINTS FOR INTERIOR AND EXTERIOR ARE TO BE APPLIED IN ACCORDANCE WITH SPECIFICATION SECTION 09 91 00 AND 09 96 00.

B. ALL EXPOSED STRUCTURES, INCLUDING BUT NOT LIMITED TO PIPING AND FIREPROOFING, CONDUIT, AND ALL ASSOCIATED EQUIPMENT ARE TO BE PAINTED.

C. APPLY PAINT TO BOTH NEW AND EXISTING ITEMS IN ALL AREAS INDICATED WITH A FINISH BOX AND/OR NOTES - THESE ITEMS ARE INCLUDING BUT ARE NOT LIMITED TO:
- FEC 'S, LADDERS, BEAMS, DOOR/FRAMES - BOTH SIDES GLAZING FRAMES IN DOOR/WALLS- BOTH SIDES, ALL EXPOSED STAIR PARTS INCLUDING RAILINGS, HAND AND GUARD RAILS, STRINGERS AND UNDERSIDES OF STAIRS, ALL ITEMS ARE TO BE ACCENT COLORS.

D. PATTERNS FOR FLOORS ARE AS SHOWN, SUBMIT SHOP DRAWINGS SHOWING DETAILED LAYOUTS OF EACH AREA, INCLUDING EDGES AND TRANSITIONS, ALL LAYOUTS ARE TO BE CENTERED IN EACH ROOM UNO - TYP ALL DRAWINGS. ABOVE REQUIREMENTS ARE TO INCLUDE BUT NOT LIMITED TO:
- TERRAZZO AND BASE
- CARPET
- VCT
- LVT
- RUBBER

E. FIELD AND ACCENT PAINT ARE ISSUED DURING THE CONSTRUCT ION PHASE, CONTRACTOR IS TO ASSUME ALL FIELD AND ACCENT COLORS ARE DIFFERENT ROOM TO ROOM. AS WELL AS WITHIN EACH ROOM, REQUIREMENTS ARE TO INCLUDE BUT ARE NOT LIMITED TO:
- WALL, FIELD COLOR
- WALL, ACCENT COLOR
- CEILING CLOUDS, ACCENT COLOR
- SOFFITS, ACCENT COLOR
- DOOR AND WINDOW FRAMES, ACCENT COLOR
- EXPOSED COLUMNS, ACCENT COLOR
- GUARDRAILS, ACCENT COLOR
- HANDRAILS, ACCENT COLOR
- EXPOSED DECKS, ACCENT COLOR
- EXPOSED JOISTS, ACCENT COLOR
- EXPOSED DUCTWORK, ACCENT COLOR

F. PROVIDE PAINT AT ALL NEW SOFFITS, REFER TO REFLECTIVE CEILING PLANS FOR ADDITIONAL LOCATIONS.

G. ALL EXPOSED BRICK, GROUND FACE BLOCK IS TO REMAIN UNPAINTED, UNO.

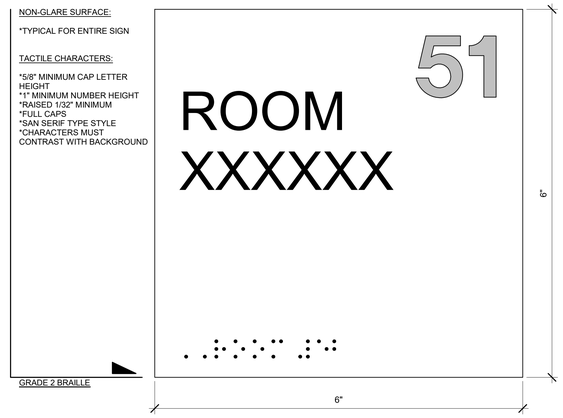
H. CONFIRM WITH OWNER AND ARCHITECT PRIOR TO PAINTING OVER MURALS ON EXISTING SURFACES.

H. PROVIDE PAINT AND RUBBER BASE AT ALL NEW CHASES, REFER TO NEW WORK PLANS FOR ADDITIONAL LOCATIONS.

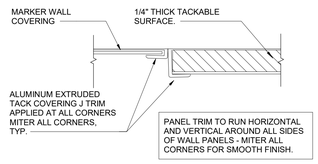
I. CARPET IS TO RUN WALL TO WALL, UNDER ALL FURNITURE, MOVEABLE EQUIPMENT AND LIBRARY SHELVING UNITS, INCLUDING ALL UNITS AT THE PERIMETER WALLS.

J. FOR ALL RENOVATED AREAS REQUIRING FINISH WORK REMOVE, PROTECT AND REINSTALL MOVABLE EQUIPMENT INCLUDING BUT NOT LIMITED TO: BOARD UNITS, LOCKERS GYM EQUIPMENT, SHADES/BLINDS, BOOKCASES ETC. REINSTALL IN ORIGINAL LOCATION, OR AS NOTED ON DRAWINGS, COORDINATE WITH OWNER. REFER TO SPEC SECTION 01 23 00 ALTERATION PROJECT PROCEDURES FOR MORE INFORMATION.

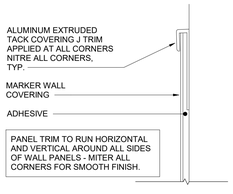
K. PROVIDE ALL FINISHES AS INDICATED BY ROOM FINISH BOX AND/OR AS NOTED ON DRAWINGS.



TYPE 5 - Typical Permanent Room Plaque



10 Wall Covering Trim Detail
12" = 1'-0"



11 Wall Covering Trim Detail -Top
12" = 1'-0"

General Library Notes

A. THE LIBRARY EQUIPMENT SHOWN ARE BASED ON WORDEN REFER TO THE PROJECT MANUAL, SECTION 12 56 51 FOR DETAILED SPECIFICATIONS. CHAIRS ARE BASED ON COMMUNITY SEATING - SEE SPEC AND SCHEDULE.

B. ALL SHELVING UNITS, BOTH SINGLE AND DOUBLE ARE TO BE PROVIDE WITH WOOD END PANELS.

C. ALL LIBRARY SHELVING IS TO BE PROVIDED WITH CANOPY TOPS AS LISTED BELOW:

-ALL 30", 42" HIGH SHELVING UNITS ARE TO BE PROVIDED WITH A CONTINUOUS SOLID SURFACE TOP

-ALL SINGLE FACED SHELVING UNITS ARE TO BE FURNISHED AND INSTALLED WITH BACKS AS PER SPECIFICATIONS. SECURE ALL SINGLE FACED SHELVING TO WALLS.

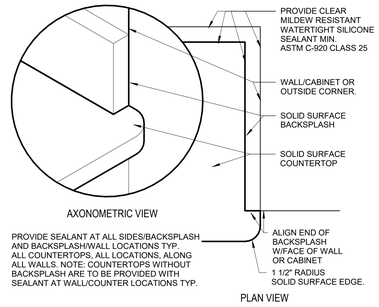
D. PROVIDE SOLID HARDBOARD BACKS FOR ALL SHELVING UNITS UNLESS OTHERWISE NOTED. PROVIDE FINISHED BACK PANELS FOR DOUBLE FACE SHELVING UNITS UNO.

E. PROVIDE FINISHED FILLER PANELS BOTH VERTICAL AND HORIZONTAL ALL FILLER SIZE ARE TO VERIFIED IN FIELD.

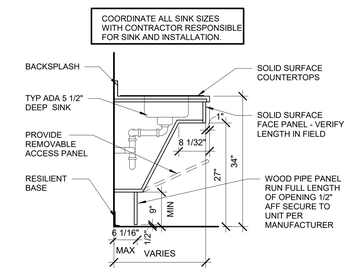
F. ALL SHELVING UNITS ARE TO BE FIELD VERIFIED PRIOR TO FABRICATION, MODIFY UNITS AS REQUIRED, SEE DETAILS.

G. PROVIDE SHOP DRAWINGS SHOWING LAYOUTS OF ALL SHELVING, DETAILS AND CHASES.

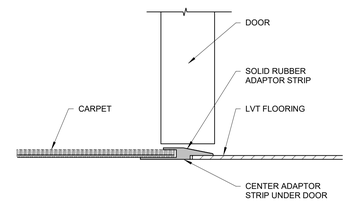
H. REFER TO SPEC SECTION 01 23 00 FOR ADDITIONAL INFORMATION REGARDING CASEWORK ALTERNATES.



6 Solid Surface Countertop Edge Detail
3" = 1'-0"

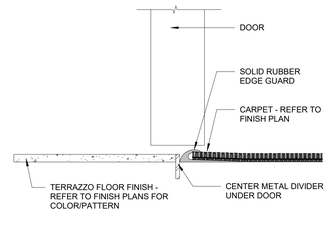


7 ADA Sink Base - Double Sink
3/4" = 1'-0"



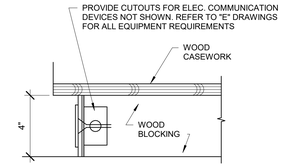
NOTE:
REFER TO SPECIFICATIONS FOR TRANSITION AND TYPES
REFER TO FINISH PLANS FOR ALL LOCATIONS, TYPICAL.
THRESHOLD TO MEET ALL ADA CRITERIA
RATED DOOR UNDERCUT DISTANCE TO MEET REQUIRED NFPA CRITERIA

8 Threshold Detail
6" = 1'-0"

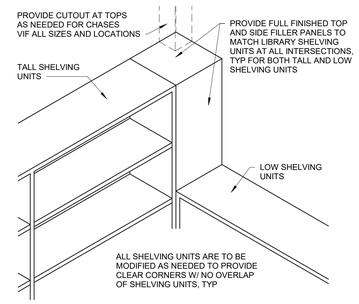


NOTE:
REFER TO SPECIFICATIONS FOR TRANSITION TYPES.
REFER TO FINISH PLANS FOR ALL LOCATIONS, TYPICAL.
THRESHOLD TO MEET ALL ADA CRITERIA.
RATED DOOR UNDERCUT DISTANCE TO MEET REQUIRED NFPA CRITERIA.

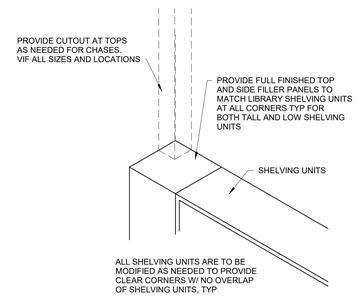
9 Threshold Detail
6" = 1'-0"



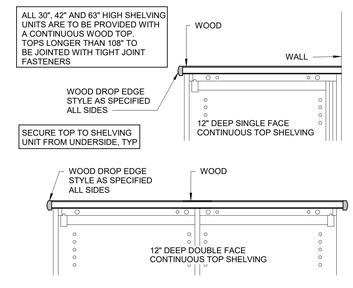
1 Base Outlet Detail
3" = 1'-0"



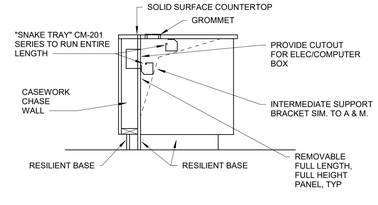
2 Corner Filler @ Library Casework
3/4" = 1'-0"



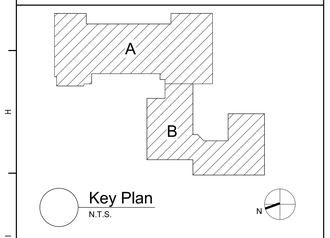
3 Corner FIller @ Library Casework
3/4" = 1'-0"



4 Continuous Canopy Top
3/4" = 1'-0"



5 Library Desk Section
3/4" = 1'-0"



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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

BID SET

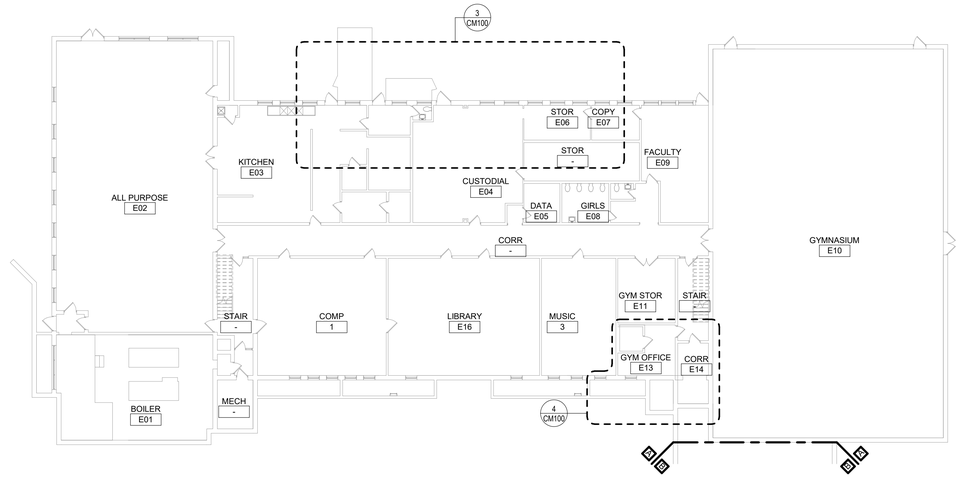
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Sargent Elementary School

Details

Drawn By:	Date:	Drawing Number:
MHH	10/28/2022	CA900
Project No.: 279180-22004		

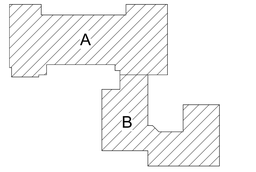


1 Basement Key Plan
1/16" = 1'-0"

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

General Notes

A. THE FOLLOWING GENERAL NOTES APPLY TO ALL "CM" SERIES DRAWINGS.
B. REFER TO ALL CONTRACT DOCUMENTS; DRAWINGS AND SPECIFICATIONS, FOR DETAILED STANDARDS AND REQUIREMENTS.
C. REPORT UNSAFE OR UNSATISFACTORY CONDITIONS IN WRITING TO ARCHITECT AND RESOLVE ISSUES BEFORE PROCEEDING.
D. WORK INCLUDES ALL LABOR AND MATERIALS REQUIRED TO PROVIDE COMPLETE WORKING SYSTEMS.
E. COORDINATE PHASING REQUIREMENTS AT JOB MEETINGS AND ON WORK SCHEDULES.
F. DO NOT SCALE DRAWINGS. PIPING AND DUCTWORK ARE SHOWN DIAGRAMMATICALLY. IT IS NOT POSSIBLE TO SHOW EVERY TRANSITION, FITTING, ASPECT RATIO CHANGE, ETC.; PROVIDE AS REQUIRED TO FIT WITHIN STRUCTURAL CONSTRAINTS. EXAMINE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND VERIFY ALL ACCESS, LOCATIONS, DIMENSIONS, ARRANGEMENTS, ELECTRICAL CHARACTERISTICS AND INTERFERENCE IN THE FIELD PRIOR TO BID.
G. VERIFY EXTENT OF CEILING WORK SHOWN ELSEWHERE IN THE CONTRACT DOCUMENTS. PROVIDE FOR ADDITIONAL CEILING SYSTEM REMOVAL, PROTECTION, AND REINSTALLATION AS REQUIRED FOR CONTRACT WORK.
H. DEMOLITION DRAWINGS SHOW THE GENERAL SCOPE OF ITEMS AND SYSTEMS TO BE REMOVED. IT IS NOT THE INTENT TO SHOW ALL ITEMS TO BE REMOVED. FIELD VERIFY AND REMOVE ALL ASSOCIATED ITEMS BACK TO POINT OF CONTINUED SERVICE, UNLESS OTHERWISE NOTED. VERIFY WHAT ALL EQUIPMENT SERVES PRIOR TO REMOVAL.
I. GIVE ALL REMOVED EQUIPMENT TO THE OWNER. DELIVER ON SITE WHERE DESIGNATED BY THE OWNER. PROMPTLY REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ANY SUCH ITEMS DECLINED BY OWNER.
J. IF UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL CONFLICTS ARE ENCOUNTERED, INVESTIGATE AND REPORT BOTH NATURE AND EXTENT OF THE CONFLICT. RE-ROUTE WORK AS REQUIRED.
K. CUT, DRILL, OR OTHERWISE CREATE OPENINGS AS NEATLY AS POSSIBLE, AS REQUIRED FOR THE INDICATED CONTRACT WORK. PROVIDE SUPPORT AS REQUIRED FOR AND USE METHODS LEAST LIKELY TO DAMAGE ELEMENTS TO REMAIN. PRIOR TO WORK, VERIFY LOCATIONS OF ALL STRUCTURAL MEMBERS INCLUDING CROSS BRACING, ELECTRICAL WIRING, PLUMBING, ETC. PROMPTLY NOTIFY ARCHITECT OF ANY CONFLICTS. DO NOT CUT ANY STRUCTURAL MEMBERS OR OTHER SERVICES UNTIL SPECIFICALLY DIRECTED TO DO SO. PENDING RECEIPT OF DIRECTIVE, REARRANGE SCHEDULE AS NECESSARY TO CONTINUE OVERALL JOB PROGRESS WITHOUT DELAY.
L. PATCH ALL DISTURBANCES RESULTING FROM DEMOLITION OR NEW WORK TO MATCH SURROUNDING SURFACES. PATCH FOLLOWING DEMOLITION, AND AGAIN FOLLOWING WORK. WHERE HOLES REMAIN FROM REMOVALS, INFILL AND PATCH TO MATCH UNLESS HOLE IS TO BE REUSED.
M. PROTECT ALL CONTRACT EQUIPMENT, ELEMENTS TO REMAIN, OWNER'S BELONGINGS, AND EQUIPMENT TO BE REUSED OR RETAINED BY OWNER DURING ALL CONTRACT WORK. AT NO ADDITIONAL COST TO OWNER, REPAIR OR REPLACE ITEMS WHICH ARE DAMAGED.
N. THOROUGHLY CLEAN FOLLOWING DEMOLITION AND BEFORE BEGINNING CONTRACT INSTALLATIONS. THOROUGHLY CLEAN AGAIN DURING AND FOLLOWING CONTRACT WORK AS REQUIRED. LEAVE ALL WORK AREAS CLEANER THAN FOUND. LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS.
O. PROVIDE TEMPORARY PIPING, DUCT, HEAT, WEATHERPROOFING, ETC. TO SERVICES TO REMAIN UNTIL PERMANENT INSTALLATIONS CAN BE MADE.
P. ALL EXCESS MATERIALS AND SCRAPS ARE CONTRACTOR'S PROPERTY. PROMPTLY REMOVE FROM SITE UNLESS SPECIFICALLY DIRECTED OTHERWISE.
Q. EXISTING HVAC COMPONENTS IN THIS BUILDING MAY CONTAIN, BE IN PROXIMITY TO, OR, WORK ON THEM MAY CAUSE DISTURBANCE OF, ASBESTOS CONTAINING OR OTHER HAZARDOUS MATERIALS. REFER TO ABATEMENT SERIES DRAWINGS AND SPECIFICATIONS COMPLETE FOR ADDITIONAL INFORMATION.
R. SEAL ALL FLOOR, WALL AND CEILING PENETRATIONS PER FIRE-RESISTANCE RATINGS NOTED ON AG-SERIES DRAWINGS, BUT NOT LESS THAN 1-HOUR, AND IN ACCORDANCE WITH SECTION 07 84 13 - PENETRATION FIRESTOPPING. THIS INCLUDES ALL NEW PENETRATIONS AND EXISTING UNFIRESTOPPED PENETRATIONS CREATED BY REMOVALS, AS REQUIRED TO PERFORM THE WORK.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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

BID SET

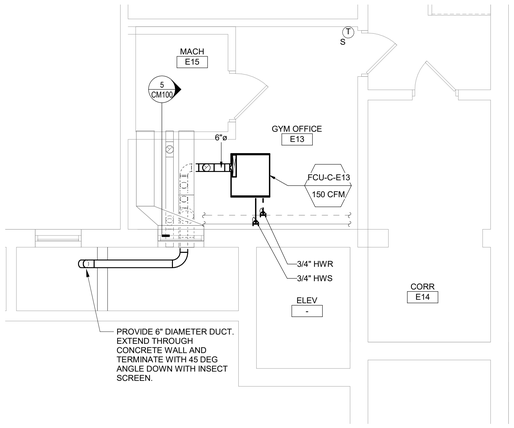
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

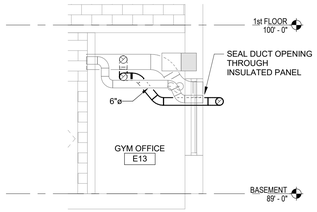
Reconstruction to:
Sargent Elementary School

Key Plans

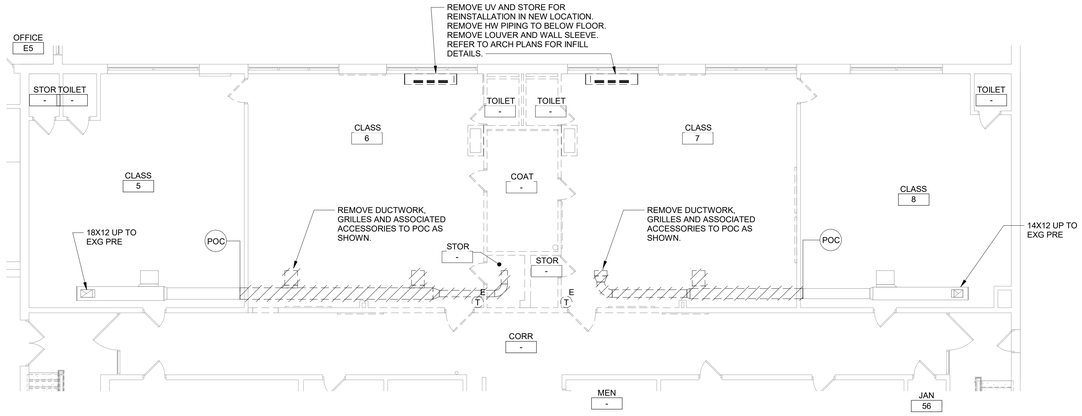
Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	CM050
Project No.: 279180-22004		



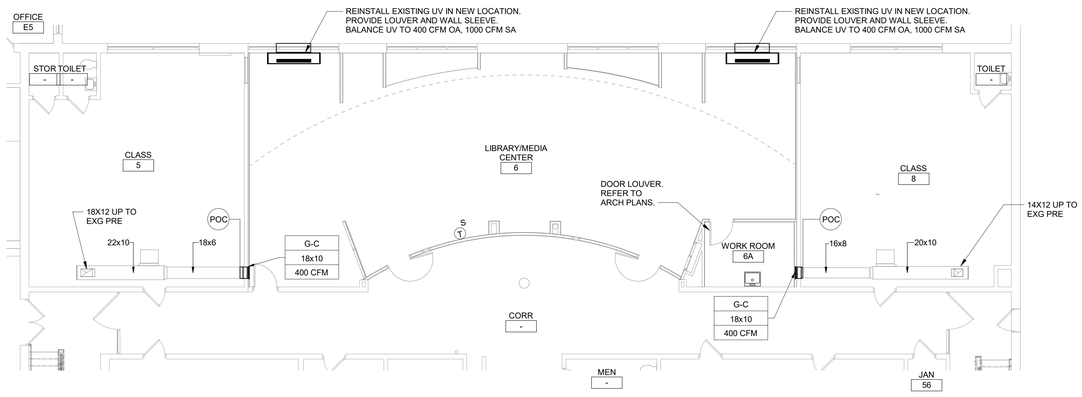
4 Gym Office E13 Partial Plan
1/4" = 1'-0"



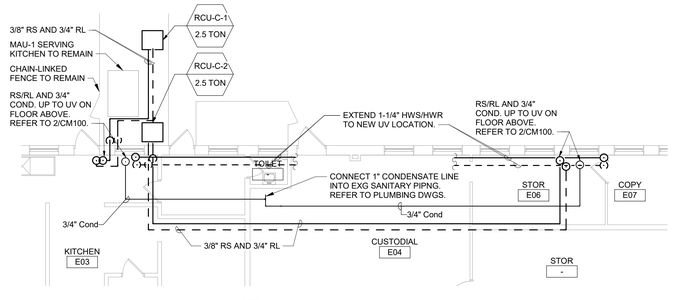
5 Gym Office E13 Ductwork Connection
1/4" = 1'-0"



1 First Floor Demolition Plan - Library/Media Center
1/8" = 1'-0"



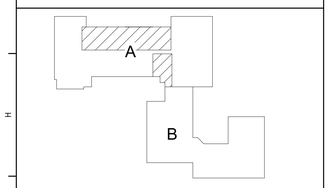
2 First Floor Plan - Library/Media Center
1/8" = 1'-0"



3 Basement Plan - Partial Area A
1/8" = 1'-0"

General Notes

A. REFER TO CM050 FOR GENERAL NOTES.



Key Plan
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Beacon City School District
Beacon, New York

Reconstruction to:
Sargent Elementary School

Partial Plans

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	CM100
Project No.: 279180-22004		

REMOTE CONDENSING UNIT (RCU) SCHEDULE

DWG LABEL	LOCATION	SERVES	MODEL NO.	REFRIG.	SUCTION (°F)	LIQUID (°F)	SUCTION SIZE	LIQUID SIZE	NOMINAL CAPACITY	COOLING CAPACITY	COMPRESSOR QTY & TYPE	FAN CONDENSER QTY & DRIVE TYPE	ELECTRICAL EER	MCA	MOP	V/PH	NET WEIGHT (LBS)	NOTES
RCU-C-1	MECH YARD	EXISTING UV	4TTR4030	R-410A	45.0	110	3/8"	3/4"	2.5 TONS	30000 Btu/h	1 SCROLL	1 DIRECT	12.2	17.0	25	208/2ø	160	1-9
RCU-C-2	MECH YARD	EXISTING UV	4TTR4030	R-410A	45.0	110	3/8"	3/4"	2.5 TONS	30000 Btu/h	1 SCROLL	1 DIRECT	12.2	17.0	25	208/2ø	160	1-9

NOTES:
1. DESIGN BASIS: TRANE
2. PROVIDE MOTOR STARTER AND NEMA 3R DISCONNECT.
3. PROVIDE DEFROST CONTROLS.
4. PROVIDE LOW AMBIENT OPERATION BELOW 60°F.
5. PROVIDE INTERNAL THERMAL PROTECTION.
6. PROVIDE BRAZED TUBING REFRIGERANT LINE SETS AND COUPLINGS.
7. FIELD CHARGE REFRIGERANT FOR SUPPLY LINE, CONDENSER AND COILS.
8. VERIFY LINE SIZES WITH MANUFACTURER.
9. PROVIDE 4" CONCRETE PAD.

FAN COIL UNIT (FCU) SCHEDULE

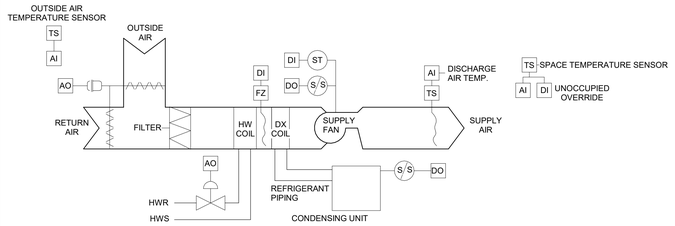
EQUIP NO.	LOCATION	MODEL NO.	SA CFM	MIN. OA	HEATING DATA NO. ROW	EAT (°F)	LAT (°F)	CAP. (MBH)	HW COIL GPM	WPD (FT HD)	SUPPLY FAN ESP (IN. WG.)	RPM	ELECTRICAL MOTOR SIZE (HP)	V/PH	FLA	MCA	MOP	NOTES
FCU-C-E13	GYM OFFICE E13	FCBB040	150	20	2	60.1	116.6	9.2	0.5	1.2	0.00	740	0.01	120V/1ø	2.2	2.8	15	1-7

NOTES:
1. DESIGN BASIS: TRANE
2. CEILING CABINET UNIT
3. PROVIDE 1" MERV13 FILTER.
4. HOT WATER COIL CONDITIONS: EWT=160°F, LWT=120°F
5. PROVIDE NEMA 1 DISCONNECT SWITCH.
6. VERIFY PIPE AND ELECTRICAL LEFT/RIGHT HAND CONNECTIONS PRIOR TO ORDERING.
7. PROVIDE RETURN AIR BOTTOM INLET, FRONT GRILLE OUTLET AND BACK FRESH AIR DUCT COLLAR.

SARGENT BUILDING/EQUIPMENT VENTILATION CALCULATIONS

EQUIPMENT NUMBER	ZONE ID: ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az - AREA (SF)	MINIMUM VENTILATION RATES: Pz - ZONE OCCU. #/1000 FT	ZONE OCCU.	Rp (CFM/ Person)	RpP	Ra (CFM/SF)	RaA	Vbz (CFM)	EZ	Voz (CFM)
EXG UVs	6	LIBRARY/MEDIA CENTER	Media center	1821	25	46	10	460	0.12	219	679	0.9	760
EXG UVs	6A	WORK ROOM	Office Space	98	5	1	5	5	0.06	6	11	0.9	20
FCU-C-E13	E13	GYM OFFICE	Office Space	146	5	1	5	4	0.06	9	12	0.8	20

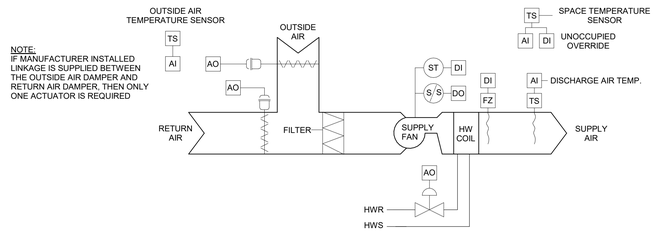
NOTES:
Rp = PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW ,
Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW



UNIT VENTILATOR - HOT WATER (VALVE CONTROL) AND DX COOLING - SEQUENCE OF OPERATIONS:

1. OCCUPIED MODE:
   a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL RUN CONTINUOUSLY.
   b. THE OUTSIDE AIR DAMPER SHALL OPEN TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY INDICATED. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION EXCEPT IN CASE OF ALARM.
   c. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT, THE 2-WAY CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE) AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJUSTABLE).
   d. WHEN THE SPACE TEMPERATURE RISES 3 DEG. F (ADJUSTABLE) ABOVE THE SPACE HEATING SETPOINT, AND THE OUTSIDE AIR TEMPERATURE IS LOWER THAN THE SPACE TEMPERATURE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL OPEN TO MAINTAIN THE OCCUPIED SETPOINT. THIS SHALL BE DONE SUBJECT TO DISCHARGE LOW LIMIT OF 55 DEG. F (ADJUSTABLE), AND WITH THE HEATING VALVE FULLY CLOSED.
   e. WHEN THE SPACE TEMPERATURE IS 3 DEG. F (ADJUSTABLE) ABOVE THE COOLING SETPOINT, AND THE OUTSIDE AIR CANNOT COOL THE SPACE, THE RESPECTIVE CONDENSING UNIT SHALL BE CYCLED TO MAINTAIN SPACE TEMPERATURE WITH THE HEATING VALVE FULLY CLOSED. USE 5 DEG. F (ADJUSTABLE) DEADBAND BETWEEN HEATING AND COOLING SETPOINTS.
2. UNOCCUPIED MODE:
   a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL BE OFF.
   b. THE OUTSIDE AIR DAMPER AND ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED.
   c. WHERE SPACE HAS FINNED TUBE RADIATION, RADIATION SHALL PROVIDE FIRST STAGE UNOCCUPIED HEATING.
   d. ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED SETPOINT, CYCLE THE FAN ON AND COIL CONTROL VALVE FULL OPEN AS REQUIRED TO MAINTAIN REDUCED SPACE TEMPERATURE. USE 5 DEG. F (ADJUSTABLE) DEADBAND AS REQUIRED TO MINIMIZE SHORT CYCLING.
   e. A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.
3. WARM-UP MODE:
   a. THE UNIT SHALL START PER AN OPTIMUM START PROGRAM.
   b. THE OUTSIDE AIR DAMPER AND ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED, AND THE ASSOCIATED EXHAUST FAN SHALL BE OFF.
   c. THE SUPPLY FAN SHALL RUN AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN OCCUPIED SETPOINT.
4. PURGE VENTILATION MODE:
   a. PROVIDE GLOBAL INITIATION OF PURGE VENTILATION MODE AT THE OPERATOR'S WORKSTATION SUCH THAT ONE INITIATION STARTS OR STOPS PURGE VENTILATION MODE FOR ALL EQUIPMENT SO PROGRAMMED. PROVIDE FOR GLOBAL ADJUSTMENT OF THE BELOW DESCRIBED SCHEDULING AND PERCENTAGE VENTILATION CHANGES, AND ALSO FOR LOCAL ADJUSTMENT AWAY FROM GLOBAL SETPOINTS. IF GLOBAL SETPOINTS ARE SUBSEQUENTLY RE-ADJUSTED, PROVIDE WARNING WITH A LIST OF UNITS WITH LOCAL OVERRIDES, BUT DO NOT RE-ADJUST LOCAL OVER-RIDE SETPOINTS GLOBALLY.
   b. PROVIDE A PURGE VENTILATION MODE WITH INCREASED VENTILATION AS POSSIBLE WITHIN THE LIMITS OF THE EQUIPMENT. OPERATE WITH ALL THREE MODES DESCRIBED ABOVE WITH THE FOLLOWING MODIFICATIONS TO THE OCCUPIED PERIOD.
   c. START OCCUPIED VENTILATION MODE 1 HOUR (ADJ) EARLIER AND END IT 4 HOURS (ADJ) LATER.
   d. INCREASE VENTILATION AS POSSIBLE BY 100% (ADJ) WHERE 0% INCREASE IS THE MINIMUM VENTILATION DESCRIBED ABOVE AND 100% IS 100% OUTSIDE AIR WITH NO RETURN AIR.
   e. MAINTAIN OCCUPIED SPACE TEMPERATURE AND INCREASED VENTILATION AS POSSIBLE WITHIN HEATING CAPACITY CONSTRAINTS OF LOCAL AND PLANT HEATING CAPACITY. IF SPACE TEMPERATURE DROPS MORE THAN 2 DEG. F (ADJ) BELOW SPACE HEATING SETPOINT WITH THE HEATING VALVE 100% OPEN, MODULATE VENTILATION RATE BACK TO MINIMUM SPECIFIED VENTILATION RATE DESCRIBED ABOVE WITH HEATING VALVE AT 100% OPEN.
5. SAFETIES:
   a. A SEPARATE LOW LIMIT FREEZE STAT WITH AUTOMATIC RESET SHALL BE INSTALLED WITH SENSING ELEMENT SERPENTINED ACROSS THE FACE OF THE COIL, WHENEVER COIL FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJUSTABLE) THE SUPPLY FAN SHALL STOP, THE OUTSIDE AIR DAMPER SHALL CLOSE 100%, AND CONTROL VALVE SHALL OPEN 100%. AN ALARM SHALL ALSO BE ACTIVATED.
   b. UPON FAILURE OF THE FAN, AS SENSED BY THE CURRENT SENSING STATUS SWITCH, ACTIVATE AN ALARM.

4 UV - Hot Water - Valve Control and DX Cooling
NTS



NOTE:
IF MANUFACTURER INSTALLED LINKAGE IS SUPPLIED BETWEEN THE OUTSIDE AIR DAMPER AND RETURN AIR DAMPER, THEN ONLY ONE ACTUATOR IS REQUIRED

FAN COIL UNIT - HOT WATER - VALVE CONTROL - SEQUENCE OF OPERATIONS:

1. OCCUPIED MODE:
   a. SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL RUN CONTINUOUSLY.
   b. THE OUTSIDE AIR DAMPER SHALL OPEN TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY AS INDICATED. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION EXCEPT IN CASE OF ALARM.
   c. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SETPOINT, THE 2-WAY CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE) AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJUSTABLE).
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2. UNOCCUPIED MODE:
   a. THE SUPPLY FAN AND ASSOCIATED EXHAUST FAN SHALL BE OFF.
   b. THE OUTSIDE AIR DAMPER AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED.
   c. WHERE SPACE HAS FINNED TUBE RADIATION, RADIATION SHALL PROVIDE FIRST STAGE UNOCCUPIED HEATING.
   d. ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED SETPOINT, CYCLE THE FAN AND COIL CONTROL VALVE FULL OPEN AS REQUIRED TO MAINTAIN REDUCED SPACE TEMPERATURE. USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.
   e. A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.
3. WARM-UP MODE:
   a. THE UNIT SHALL START PER AN OPTIMUM START PROGRAM.
   b. THE OUTSIDE AIR DAMPER AND THE ASSOCIATED RELIEF HOOD DAMPER SHALL BE FULLY CLOSED AND THE ASSOCIATED EXHAUST FAN SHALL BE OFF.
   c. THE SUPPLY FAN SHALL RUN AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN OCCUPIED SETPOINT.
4. PURGE VENTILATION MODE:
   a. PROVIDE GLOBAL INITIATION OF PURGE VENTILATION MODE AT THE OPERATOR'S WORKSTATION SUCH THAT ONE INITIATION STARTS OR STOPS PURGE VENTILATION MODE FOR ALL EQUIPMENT SO PROGRAMMED. PROVIDE FOR GLOBAL ADJUSTMENT OF THE BELOW DESCRIBED SCHEDULING AND PERCENTAGE VENTILATION CHANGES, AND ALSO FOR LOCAL ADJUSTMENT AWAY FROM GLOBAL SETPOINTS. IF GLOBAL SETPOINTS ARE SUBSEQUENTLY RE-ADJUSTED, PROVIDE WARNING WITH A LIST OF UNITS WITH LOCAL OVERRIDES, BUT DO NOT RE-ADJUST LOCAL OVER-RIDE SETPOINTS GLOBALLY.
   b. PROVIDE A PURGE VENTILATION MODE WITH INCREASED VENTILATION AS POSSIBLE WITHIN THE LIMITS OF THE EQUIPMENT. OPERATE WITH ALL THREE MODES DESCRIBED ABOVE WITH THE FOLLOWING MODIFICATIONS TO THE OCCUPIED PERIOD.
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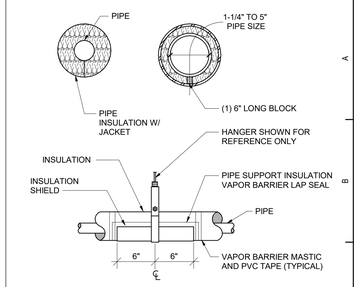
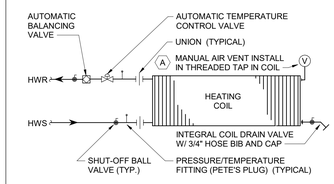
   b. UPON FAILURE OF THE FAN, AS SENSED BY THE CURRENT SENSING STATUS SWITCH, ACTIVATE AN ALARM.

5 FCU - Hot Water - Valve Control - With Outside Air
NTS

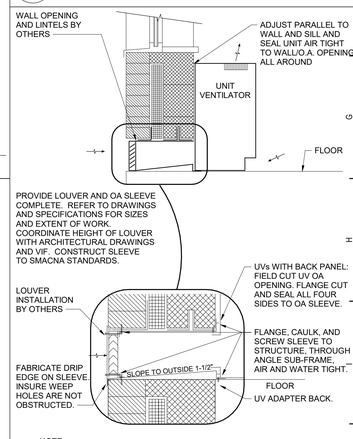


1 Pipe Insulation
NTS



(A) WHERE COIL IS SUPPLIED FROM OVERHEAD PIPING, PROVIDE MANUAL AIR VENT AT HIGH POINT IN HOT WATER SUPPLY PIPING.

2 FCU/UV Hot Water Piping Schematic
NTS



NOTE:
COORDINATE INSTALLATION OF SLEEVE, LOUVER, AND UV WITH WALL.

(Low Back Intake, Adapter Back Not Required)

3 Floor Mounted UV OA Intake Detail
NTS

TEMPERATURE CONTROLS SYMBOLS LIST

AI	ANALOG IN
AO	ANALOG OUT
COM	COMMUNICATIONS PORT
CS	AIRBORNE CONTAMINANT SENSOR
DI	DIGITAL IN
	DAMPER MOTOR
DO	DIGITAL OUT
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
F	FLOW (WATER/AIR)
FM	FLOW METER
FS	AIR FLOW SENSOR
FZ	FREEZE STAT
H	HUMIDITY SENSOR
HL	HIGH LIMIT
KWH	KILOWATT HOUR METER
LL	LOW LIMIT
M/S	MANUAL SWITCH STOP / START
P	PRESSURE SENSOR
ΔP	DIFFERENTIAL PRESSURE
PS	POSITION SENSOR
S/S	STOP / START
SD	SMOKE DETECTOR
ST	STATUS
START	STARTER
T	ADJUSTABLE THERMOSTAT
TS	TEMPERATURE SENSOR
VFD	VARIABLE FREQUENCY DRIVE
WS	WATER SENSOR
%	PERCENT
ES	END SWITCH
BS	BOILER SWITCH

S.E.D. Control No. 13-02-00-01-0-008-020

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Details, Schedules and Controls

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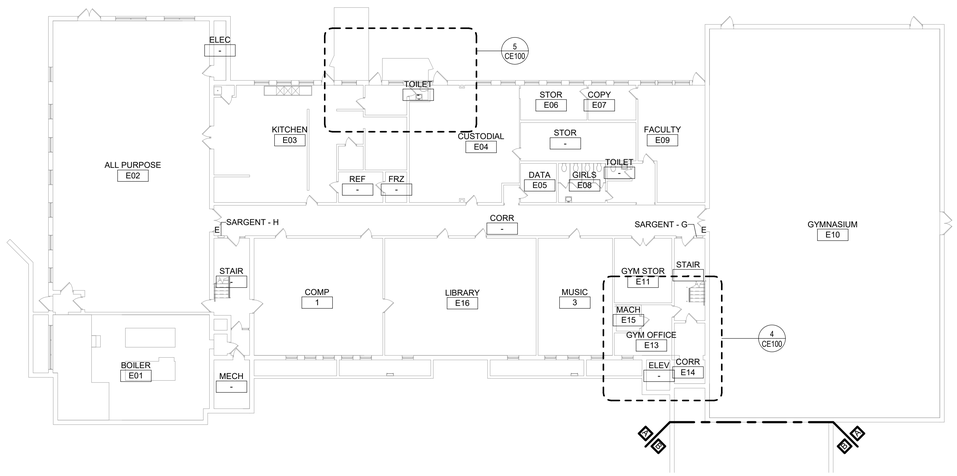
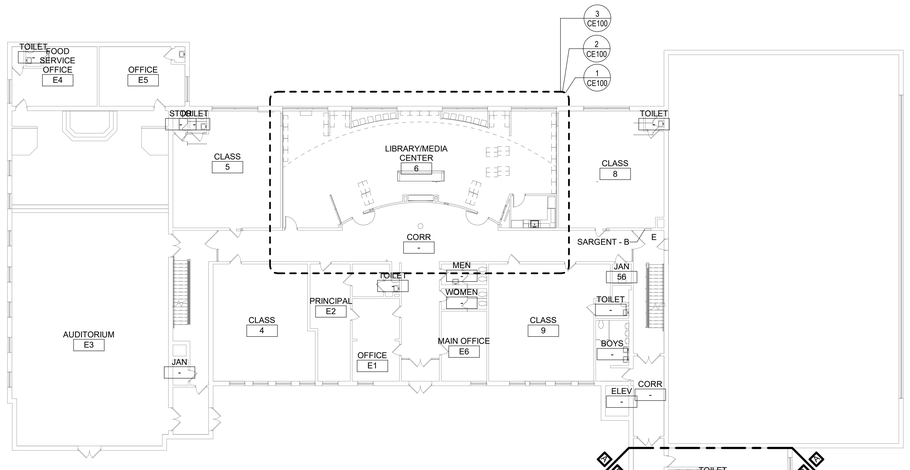
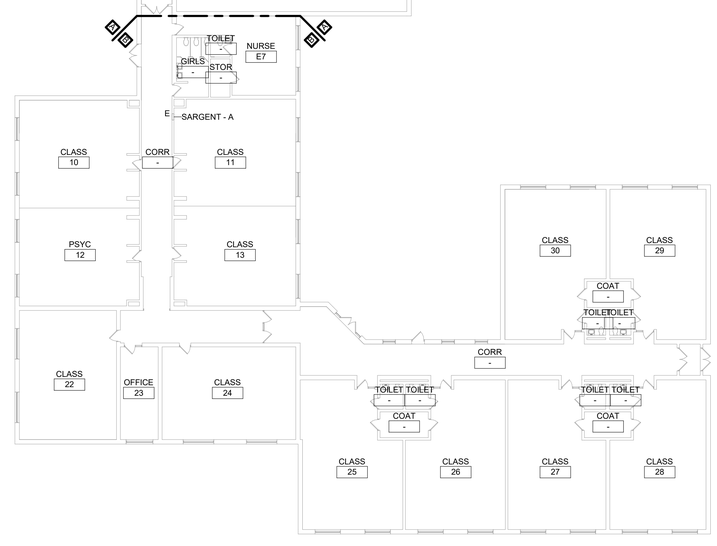


1 Basement - Key Plan
1/16" = 1'-0"



3 Second Floor - Key Plan
1/16" = 1'-0"



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

Demolition General Notes

A. ALL ELECTRICAL DEVICES INTERFERING WITH DEMOLITION WORK SHALL BE DISCONNECTED AND REMOVED. UNLESS OTHERWISE NOTED. EXISTING CIRCUIT WIRING SHALL BE REMOVED BACK TO SOURCE AND PANEL DIRECTORIES MODIFIED ACCORDINGLY.

B. ANY DEVICE INTERFERING WITH DEMOLITION WORK NOT SHOWN ON THESE DRAWINGS SHALL NOT BE REMOVED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE OR THE ENGINEER.

C. ALL ELECTRICAL DEMOLITION WORK SHALL BE PROPERLY COORDINATED WITH ALL OTHER TRADES.

D. EC IS SOLELY RESPONSIBLE FOR THE SAFE HANDLING AND DISPOSAL OF ALL REMOVED LUMINAIRES AND BALLASTS THAT MAY CONTAIN PCBs (POLYCHLORINATED BIPHENYLS), IN ACCORDANCE WITH ALL APPLICABLE EPA, OSHA, FEDERAL, STATE, AND LOCAL CODES AND LAWS.

E. EC IS SOLELY RESPONSIBLE FOR THE SAFE HANDLING AND DISPOSAL OF ALL REMOVED FLUORESCENT LIGHT TUBES THAT MAY CONTAIN MERCURY, IN ACCORDANCE WITH ALL APPLICABLE EPA, OSHA, FEDERAL, STATE, AND LOCAL CODES AND LAWS.

F. AT ALL CORRIDORS WHERE NEW CEILINGS ARE BEING INSTALLED, DISCONNECT AND REMOVE DEVICES AS INDICATED, TAG EXISTING WIRING FOR REUSE.

General Notes

A. COORDINATE ALL ELECTRICAL WORK AND POWER OUTAGES WITH OWNER AND OTHER TRADES PRIOR TO THE START OF CONSTRUCTION. NO POWER OUTAGES SHALL OCCUR WITHOUT OWNER'S PRIOR KNOWLEDGE AND CONSENT.

B. REFER TO DRAWING G100 FOR STANDARD SYMBOLS AND ABBREVIATIONS.

C. CIRCUIT WIRING FOR ALL LIGHTING CIRCUITS SHALL BE IN 1/2" EMT CONDUIT (MIN) OR TYPE MC CABLE CONCEALED ABOVE CEILINGS AND IN WALLS (REFER TO SPECIFICATION SECTION 26 05 33 FOR LOCATIONS WHERE MC CABLE IS ACCEPTABLE). ALL CIRCUIT CONDUCTORS SHALL BE #12AWG COPPER (MIN) 90°C THHN THERMOPLASTIC INSULATION.

D. CIRCUIT EXIT AND EMERGENCY LUMINAIRES TO UNSWITCHED HOT LEG OF LIGHTING CIRCUIT OF THE AREA BEING SERVED BY OR ADJACENT TO THE LUMINAIRE. REFER TO PLANS AND DETAILS FOR MINIATURE INVERTER INFORMATION.

E. PROPERLY IDENTIFY ALL CIRCUITS AT PANELS AND J-BOXES AND IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

F. PROVIDE ALL ADAPTERS, COUPLINGS AND ASSOCIATED FITTINGS REQUIRED FOR COMPLETE OPERATIONAL SYSTEM.

G. WHEN INSTALLING NEW DEVICES IN EXISTING LOCATIONS, REUSE EXISTING CONDUIT/RACEWAY AND BACK BOXES IF IN GOOD CONDITION. EXTEND/INSTALL NEW CONDUIT/RACEWAY AS REQUIRED FOR PROPER MOUNTING OF DEVICE. CONCEAL ABOVE CEILINGS OR WITHIN WALLS WHERE POSSIBLE. REFER TO SPECIFICATION SECTION 26 05 33.

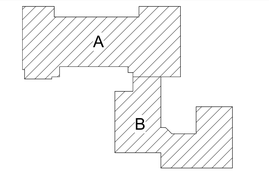
H. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.

I. TESTS OF ALL ELECTRICAL WORK SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER OR ARCHITECT, AS EQUIPMENT IS INSTALLED AND AS SYSTEMS ARE COMPLETED. IN ADDITION AN ELECTRIC APPROVED CERTIFICATE SHALL BE ISSUED BY AN ELECTRICAL INSPECTION AGENCY.

J. UNLESS NOTED ELSEWHERE ON THE CONTRACT DOCUMENTS, THE FOLLOWING LIST REPRESENTS THE TYPICAL MOUNTING HEIGHTS FOR THE DEVICES SHOWN:

1. SWITCHES AND PANIC STATIONS.....48" (TO TOP)
2. RECEPTACLES.....16"
3. COMPUTER RECEPTACLES.....48" (TO TOP)
4. WALL (W) TELEPHONE AND CALL SWITCHES.....48" (TO TOP)
5. TELEPHONE OUTLETS (UNLABELED).....16"
6. VOLUME CONTROLS.....48" (TO TOP)
7. TELEVISION OUTLETS.....16"
8. FIRE ALARM PULL STATIONS.....48" (TO TOP)
9. FIRE ALARM AUDIO/VISUAL UNITS.....88"
   * (OR 6" BELOW CEILING, WHICHEVER IS LOWER)
10. POWER PANELS.....72" (TO TOP)
11. DISCONNECT SWITCHES.....60" (TO TOP)
12. MOTOR STARTERS.....60" (TO TOP)

THE HEIGHTS INDICATED SHALL BE NOMINAL TO THE BOTTOM OF THE BOX UNLESS NOTED OTHERWISE. MAINTAIN HEIGHT CONSISTENCY BETWEEN NEW AND EXISTING DEVICES.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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

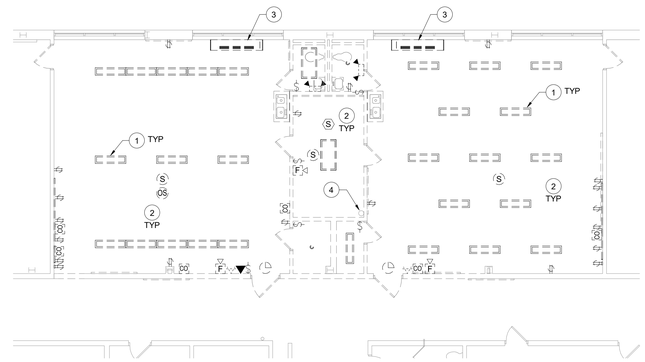
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

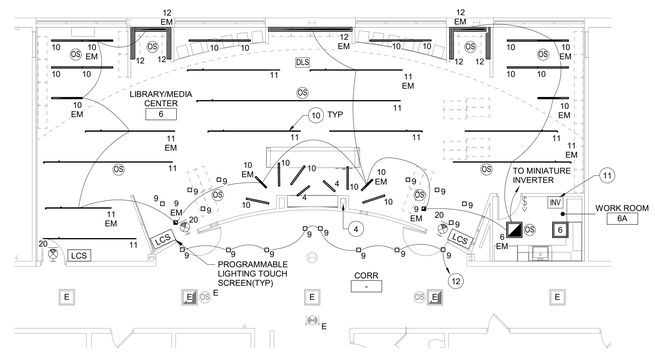
Reconstruction to:
Sargent Elementary School

Key Plans

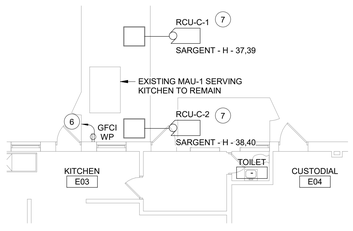
Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	CE050
Project No.: 279180-22004		



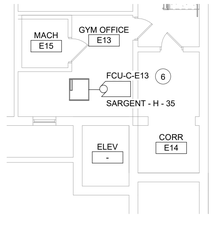
1 Partial First Floor Demolition Plan - Area A
1/8" = 1'-0"



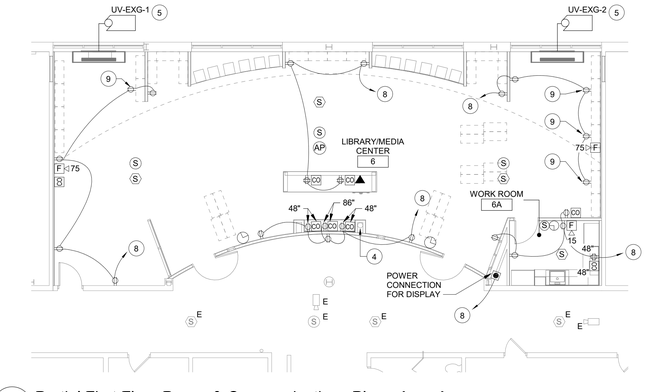
2 Partial First Floor Lighting Plan - Area A
1/8" = 1'-0"



5 Partial Basement Power & Communications Plan - Area A
1/8" = 1'-0"



4 Partial Basement Power & Communications Plan - Area A
1/8" = 1'-0"



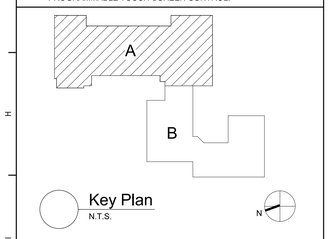
3 Partial First Floor Power & Communications Plan - Area A
1/8" = 1'-0"

Keyed Notes:

1. REMOVE LUMINAIRE(S). TAG CIRCUITRY FOR RE-USE.
2. REMOVE ELECTRICAL DEVICES SHOWN. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX, DEVICE OR SWITCH OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.
3. DISCONNECT POWER CIRCUITRY SERVING HVAC EQUIPMENT. TAG CIRCUITRY FOR RE-USE.
4. PROTECT AND SECURE EXISTING DATA CABLES AND CONDUITS.
5. RE-CONNECT POWER CIRCUITRY TO RELOCATED HVAC EQUIPMENT. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
6. CIRCUIT TO SPARE 20A1P BREAKER IN PANEL SARGENT - H. CONNECT USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. AMEND PANEL DIRECTORY ACCORDINGLY.
7. PROVIDE 30A2P CIRCUIT BREAKER IN AVAILABLE SPACE IN PANEL SARGENT - H. CONNECT USING (2)#10, (1)#10 G. IN 3/4" CONDUIT. NEW BREAKER TO BE UL LISTED FOR USE IN PANEL AND MEET OR EXCEED AIC RATING OF EXISTING PANEL. AMEND PANEL DIRECTORY ACCORDINGLY.
8. CIRCUIT TO SPARE 20A1P BREAKER IN PANEL SARGENT - B. CONNECT USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. AMEND PANEL DIRECTORY ACCORDINGLY.
9. PROVIDE RECEPTACLE IN TOE KICK OF CASEWORK. REFER TO DETAIL 1 ON SHEET CA900 FOR MORE INFORMATION.
10. CONNECT LUMINAIRES TO EXISTING CIRCUITRY PREVIOUSLY SERVING THE AREA.
11. PROVIDE WALL MOUNTED MINIATURE INVERTER BASED ON MODEL VESTA MAX MODEL VST-MAX-375W-UNV-4CK, MOUNT AT 72" AFF. COORDINATE FINAL LOCATION WITH OWNER. REFER TO WIRING DIAGRAM ON DRAWING CE500.
12. CONNECT LUMINAIRES TO EXISTING CIRCUITRY SERVING THE CORRIDOR LUMINAIRES. CONNECT LUMINAIRES TO EXISTING LIGHTING CONTROLS IN THE CORRIDOR.

General Notes:

A. REFER TO DRAWING CE100 FOR GENERAL NOTES.
B. REFER TO DRAWING CE500 FOR LUMINAIRE SCHEDULE.
C. SECURE ALL EXISTING UNSUPPORTED CABLES ABOVE CEILINGS USING J HOOKS OR CABLETRAYS.
D. FIRE ALARM DEVICES ARE TO BE WIRED TO EXISTING NOTIFICATION CIRCUITS.
E. INVERTER SYSTEM EMERGENCY OUTPUT CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT SYSTEMS AND NOT SHARED WITH OTHER ELECTRICAL CIRCUITS AS DESCRIBED IN NEC 700-9(B).
F. SPEAKERS ARE TO BE COMPATIBLE AND WIRED TO EXISTING PA SYSTEM.
G. CLOCKS ARE TO BE COMPATIBLE WITH EXISTING CLOCK SYSTEM.
H. LIGHTING CONTROL SEQUENCE:
LIBRARY:
MULTI-ZONES PER OWNER, OPERATED WITH PROGRAMMABLE TOUCH SCREEN CONTROL.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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BID SET

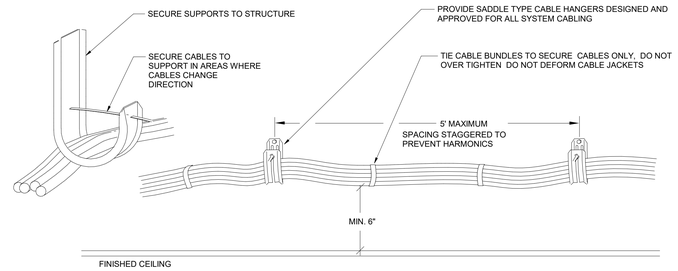
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Sargent Elementary School

Partial Plans

Drawn By:	Date:	Drawing Number:
SAS/CR	10/28/2022	CE100
Project No.: 279180-22004		



INSTALLATION NOTES:

1. LOCATE CABLE BUNDLES A MINIMUM OF 6" ABOVE REMOVABLE CEILINGS TO MAINTAIN CLEARANCE (ALONG WALLS WHERE POSSIBLE). LOCATE IN AREAS THAT ARE ACCESSIBLE.
2. USE 2 OR MORE CABLE HANGERS AT ALL TURNS TO MAINTAIN MANUFACTURER'S BEND RADIUS REQUIREMENTS.
3. THIS SUPPORT SYSTEM TO BE USED WHEREVER CABLE TRAY IS NOT INDICATED ON PLANS.

1 Typical Installation with Cable Hangars

NTS

LUMINAIRE SCHEDULE

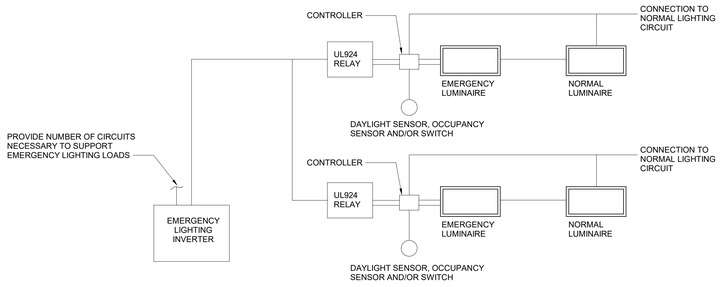
TYPE	SYMBOL	DESCRIPTION	LAMPS			MANUFACTURERS (OR EQUAL)	
			WATTAGE	LUMENS	TYPE	NAME	MODEL OR SERIES
1 **		1' x 4' TROFFER (RECESSED IN GRID)	12.2	1482	LED	SIGNIFY (DAY-BRITE)	1FPZ15L835-4-DS-UNV-DIM
1 EM **		SAME AS TYPE 1 - CONNECTED TO EMERGENCY MINIATURE INVERTER	12.2	1482	LED	SIGNIFY (DAY-BRITE)	1FPZ15L835-4-DS-UNV-DIM
2 **		1' x 4' TROFFER (RECESSED IN GRID)	24.6	2972	LED	SIGNIFY (DAY-BRITE)	1FPZ30L835-4-DS-UNV-DIM
2 EM **		SAME AS TYPE 2 - CONNECTED TO EMERGENCY MINIATURE INVERTER	24.6	2972	LED	SIGNIFY (DAY-BRITE)	1FPZ30L835-4-DS-UNV-DIM
3 **		1' x 4' TROFFER (RECESSED IN GRID)	31.3	3775	LED	SIGNIFY (DAY-BRITE)	1FPZ38L835-4-DS-UNV-DIM
3 EM **		SAME AS TYPE 3 - CONNECTED TO EMERGENCY MINIATURE INVERTER	31.3	3775	LED	SIGNIFY (DAY-BRITE)	1FPZ38L835-4-DS-UNV-DIM
4 **		2' x 2' TROFFER (RECESSED IN GRID)	15.7	1918	LED	SIGNIFY (DAY-BRITE)	2FPZ20L835-2-DS-UNV-DIM
4 EM **		SAME AS TYPE 4 - CONNECTED TO EMERGENCY MINIATURE INVERTER	15.7	1918	LED	SIGNIFY (DAY-BRITE)	2FPZ20L835-2-DS-UNV-DIM
5 **		2' x 2' TROFFER (RECESSED IN GRID)	23.4	2911	LED	SIGNIFY (DAY-BRITE)	2FPZ30L835-2-DS-UNV-DIM
5 EM **		SAME AS TYPE 5 - CONNECTED TO EMERGENCY MINIATURE INVERTER	23.4	2911	LED	SIGNIFY (DAY-BRITE)	2FPZ30L835-2-DS-UNV-DIM
6		2' x 2' TROFFER (RECESSED IN GRID)	29.8	3856	LED	SIGNIFY (DAY-BRITE)	2FPZ38L835-2-DS-UNV-DIM
6 EM		SAME AS TYPE 6 - CONNECTED TO EMERGENCY MINIATURE INVERTER	29.8	3856	LED	SIGNIFY (DAY-BRITE)	2FPZ38L835-2-DS-UNV-DIM
7 **		2' x 2' TROFFER (RECESSED IN GRID)	35.7	4403	LED	SIGNIFY (DAY-BRITE)	2FPZ45L835-2-DS-UNV-DIM
7 EM **		SAME AS TYPE 7 - CONNECTED TO EMERGENCY MINIATURE INVERTER	35.7	4403	LED	SIGNIFY (DAY-BRITE)	2FPZ45L835-2-DS-UNV-DIM
8 **		4" ROUND DOWNLIGHT	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
8 EM **		SAME AS TYPE 8 - CONNECTED TO EMERGENCY MINIATURE INVERTER	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
9		4" SQUARE DOWNLIGHT	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
9 EM		SAME AS TYPE 9 - CONNECTED TO EMERGENCY MINIATURE INVERTER	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
10		2" RECESSED LINEAR. LENGTH VARIES, SEE PLANS FOR SPECIFIC LENGTHS.	14.5	1345	LED	FINELITE	HP-2-R-D-XFT-S-835
10 EM		SAME AS TYPE 10 - CONNECTED TO EMERGENCY MINIATURE INVERTER	14.5	1345	LED	FINELITE	HP-2-R-D-XFT-S-835
11		15/16" T-BAR LED	39	2854	LED	JLC TECH	TBSL-MW-5-24-B2-X-W
11 EM		SAME AS TYPE 11 - CONNECTED TO EMERGENCY MINIATURE INVERTER	39	2854	LED	JLC TECH	TBSL-MW-5-24-B2-X-W
12		2" RECESSED PERIMETER	27.6	2999	LED	PINNACLE ARCHITECTURAL LIGHTING	EV2DPM-A-835HO-4
12 EM		SAME AS TYPE 12 - CONNECTED TO EMERGENCY MINIATURE INVERTER	27.6	2999	LED	PINNACLE ARCHITECTURAL LIGHTING	EV2DPM-A-835HO-4
13**		WALL MOUNT LINEAR	33.1	3361	LED	SIGNIFY (LEDALITE)	7408LBEQN047DEW
13 EM **		SAME AS TYPE 13 - CONNECTED TO EMERGENCY MINIATURE INVERTER	33.1	3361	LED	SIGNIFY (LEDALITE)	7408LBEQN047DEW
14 EM **		4' SURFACE MOUNTED LINEAR - CONNECTED TO EMERGENCY MINIATURE INVERTER	18.8	1780	LED	PINNACLE ARCHITECTURAL LIGHTING	EX3-WET-N-835-4-S-U-OL2-1-0-W
20		EXIT SIGN (SINGLE FACE) WALL AND CEILING MOUNT. SEE PLANS FOR DIRECTIONAL INDICATORS	2.5		LED	SIGNIFY (CHLORIDE)	ER46L-2-W-R

** LUMINAIRE TYPE NOT USED IN THIS BUILDING

* MANUFACTURER AND MODEL NUMBER ARE PROVIDED TO SHOW BASIS OF DESIGN ONLY.

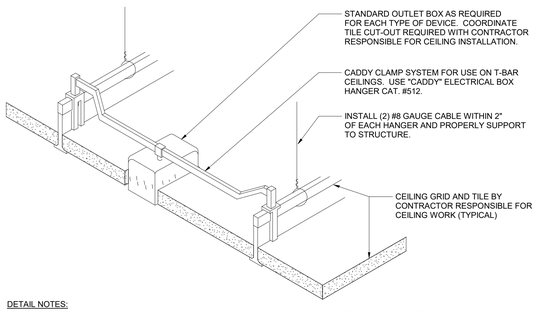
2 Luminaire Schedule

NTS



3 Emergency Miniature Inverter Wiring Diagram

1/4" = 1'-0"



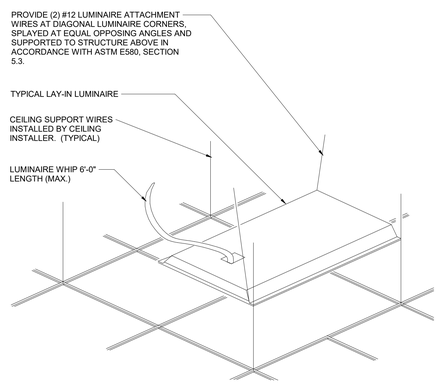
DETAIL NOTES:

A. IN AREAS RECEIVING NEW CEILINGS ALL CEILING MOUNTED ITEMS (DETECTORS, SPEAKERS, ETC) ARE TO BE CENTERED WITHIN THE PATTERN OF THE CEILING PANEL. A 2'X4' PANEL SCORED TO A 2'X2' PATTERN SHALL HAVE ITEMS CENTERED IN THE 2'x2' PORTION.

B. PROVIDE ADDITIONAL SUPPORT FOR EXIT SIGNS, WHERE REQUIRED.

5 Ceiling Mounting Device Detail

NTS



4 Typical Troffer Mounting Detail

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S.E.D. Control No. 13-02-00-01-0-008-020

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Beacon City School District
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Reconstruction to:
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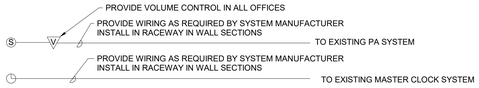
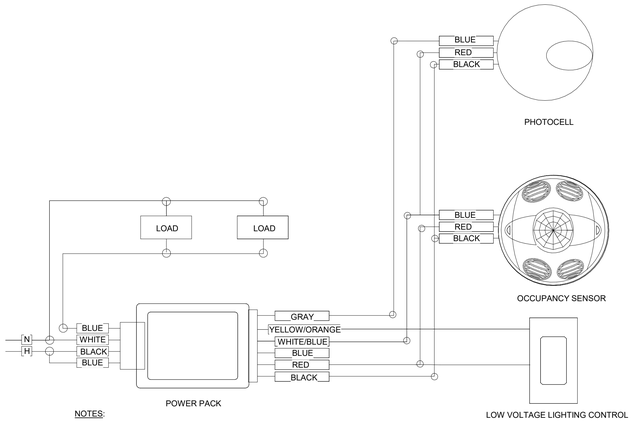
Details

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	CE500
Project No.: 279180-22004		



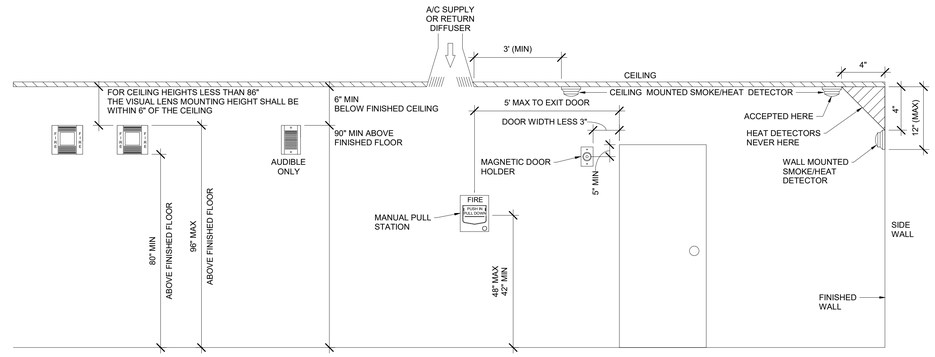
6 Clock and Speaker System Wiring Diagram
12" = 1'-0"



NOTES:

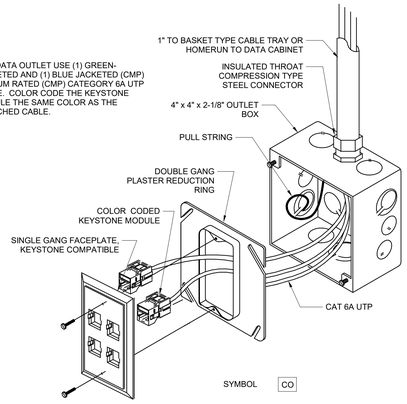
A. PAINT ALL SURFACE RACEWAY AND BOXES TO MATCH EXISTING SURFACES. (WHERE APPLICABLE).
B. PROVIDE RELAYS WHERE TWO OR MORE CIRCUITS FEED LIGHTING IN SAME ROOM.
C. ADJUST SENSITIVITY OF EACH OCCUPANCY SENSOR TO DETECT HUMAN MOVEMENT BUT NOT HVAC EQUIPMENT. ADJUST TIME DELAY FOR OPTIMUM PERFORMANCE. APPLY MASKING SEGMENTS TO DETECTION HEAD WHERE REQUIRED.
D. POWER PACK AND THE LOAD SWITCHED BY THE POWER PACK MUST BE FED FROM THE SAME PHASE.
E. REFER TO LIGHTING PLANS FOR LIGHTING SEQUENCES

7 Daylight Responsive Controls Wiring Diagram
NTS

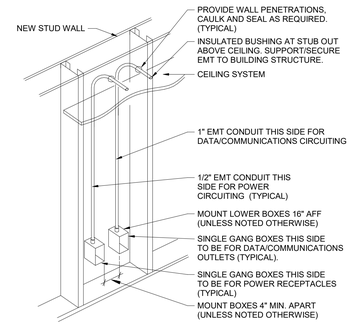


1 Typical Mounting Heights
NTS

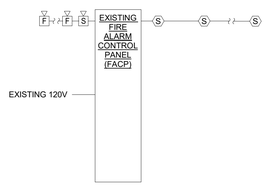
NOTE:
FOR DATA OUTLET USE (1) GREEN-JACKETED AND (1) BLUE JACKETED (CMP) PLENUM RATED (CMP) CATEGORY 6A UTP CABLE. COLOR CODE THE KEYSTONE MODULE THE SAME COLOR AS THE ATTACHED CABLE.



4 Data Outlet
NTS



2 Conduit/Backbox Installation Detail
NTS



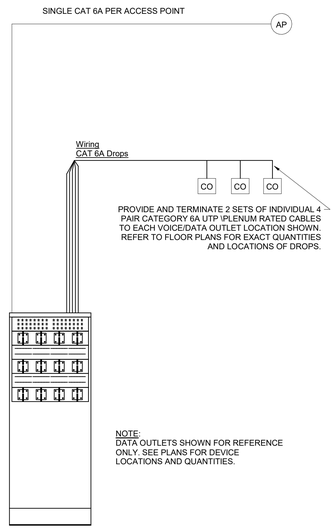
FIRE ALARM SEQUENCE OF OPERATION

A. UPON ACTIVATION TROUBLE CONDITION THE FIRE ALARM PANEL SHALL GO INTO "TROUBLE" MODE INDICATING WHICH ZONE IS IN TROUBLE BY A LIGHT IN THE REMOTE ANNUNCIATOR AND AT THE FIRE ALARM PANEL.

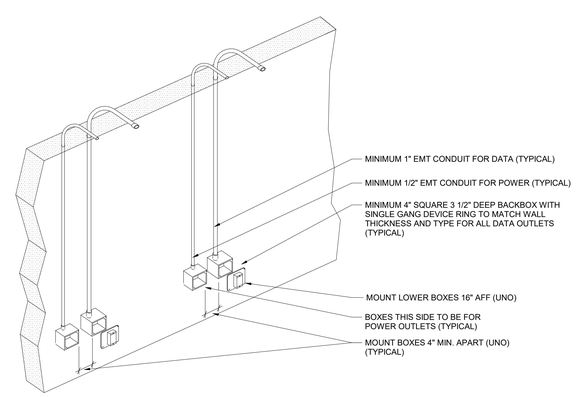
NOTES:
1. FIRE ALARM RISER IS INTENDED TO BE SCHEMATIC ONLY. ALL DEVICES INDICATED ON PLANS AND DETAILS ARE TO BE INSTALLED AND CONNECTED FOR PROPER OPERATION OF SYSTEM.

2. WIRE NEW DEVICES INTO EXISTING WIRING OR PROVIDE A NEW CIRCUIT AS DIRECTED BY FIRE ALARM SYSTEM REPRESENTATIVE.

8 Fire Alarm System Wiring Diagram
NTS



5 Data Distribution Riser Diagram
NTS



NOTES:
1. PROVIDE LARGER BOXES AND CONDUIT SIZES WHEN REQUIRED TO ACCOMMODATE DEVICES AND WIRING
2. COORDINATE QUANTITY OF DEVICES AND TYPE OF DEVICE REQUIRED WITH FLOOR PLANS
3. COORDINATE CONDUIT LOCATIONS WITH OTHER TRADES AND OWNER PRIOR TO INSTALLATION

3 Conduit/Backbox Installation Detail
NTS

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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

BID SET

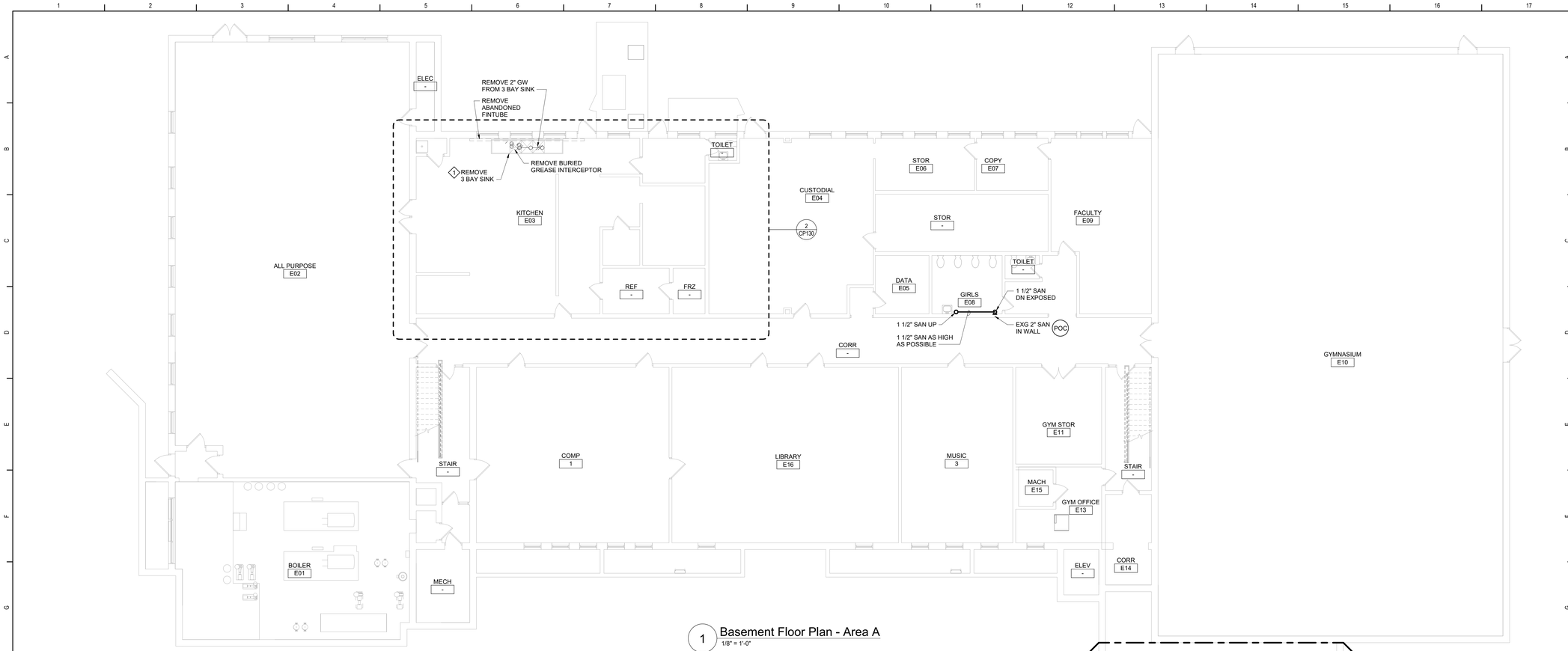
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Sargent Elementary School

Details

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	CE501
Project No.: 279180-22004		



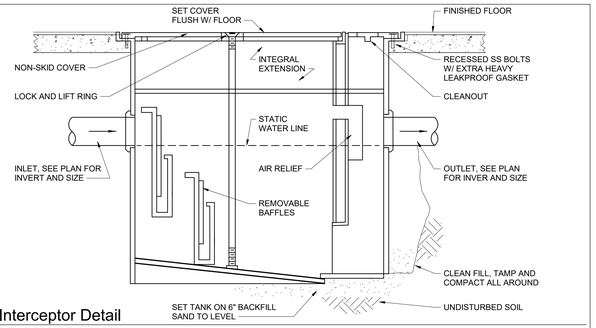
1 Basement Floor Plan - Area A
1/8" = 1'-0"

Grease Interceptor Schedule

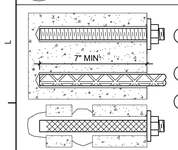
DWG LABEL	LOCATION	DESIGN MAKE AND MODEL	GREASE RETENTION CAPACITY (POUNDS)	PDI RATED FLOW RATE (GPM)	INSTALLATION	INLET / OUTLET SIZE (NPS)	CENTERLINE OF INLET / OUTLET TO BOTTOM (INCHES)	CENTERLINE OF INLET / OUTLET TO TOP (INCHES)	EXTENSION HEIGHT (INCHES)	LENGTH (INCHES)	WIDTH (INCHES)	HEIGHT (INCHES)	VENT SIZE (NPS)	NOTES
GI-C-1	KITCHEN E03	JR SMITH 8050	100	50	BURIED	3	17-1/2	6-3/4	FIELD VERIFY	35-1/2	20-3/4	24-1/4	2	1, 2

NOTES:

1. PROVIDE EXTERNAL FLOW CONTROL FITTING SUPPLIED BY SAME MANUFACTERER AS GREASE INTERCEPTOR.
2. SET UNIT COVER/EXTENSION FLUSH WITH FINISHED FLOOR.



3 Grease Interceptor Detail
NTS



A THREADED ROD IN SOLID CONCRETE OR SOLIDLY GROUTED CONCRETE BLOCK 3/4" DIA ROD UNO

B REINFORCING BAR IN SOLID CONCRETE #6 BAR UNO

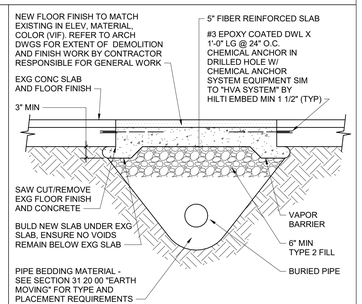
C REINFORCING BAR OR THREADED ROD IN HOLLOW MASONRY #6 BAR OR 3/4" DIA ROD - UNO. WITH 3/4" NOMINAL STAINLESS STEEL SCREEN TUBE

BAR/ROD SIZE	EMBEDMENT DEPTH
#4 OR 1/2"	5"
#5 OR 5/8"	6"
#6 OR 3/4"	7"
#7 OR 7/8"	8"
#8 OR 1"	9"

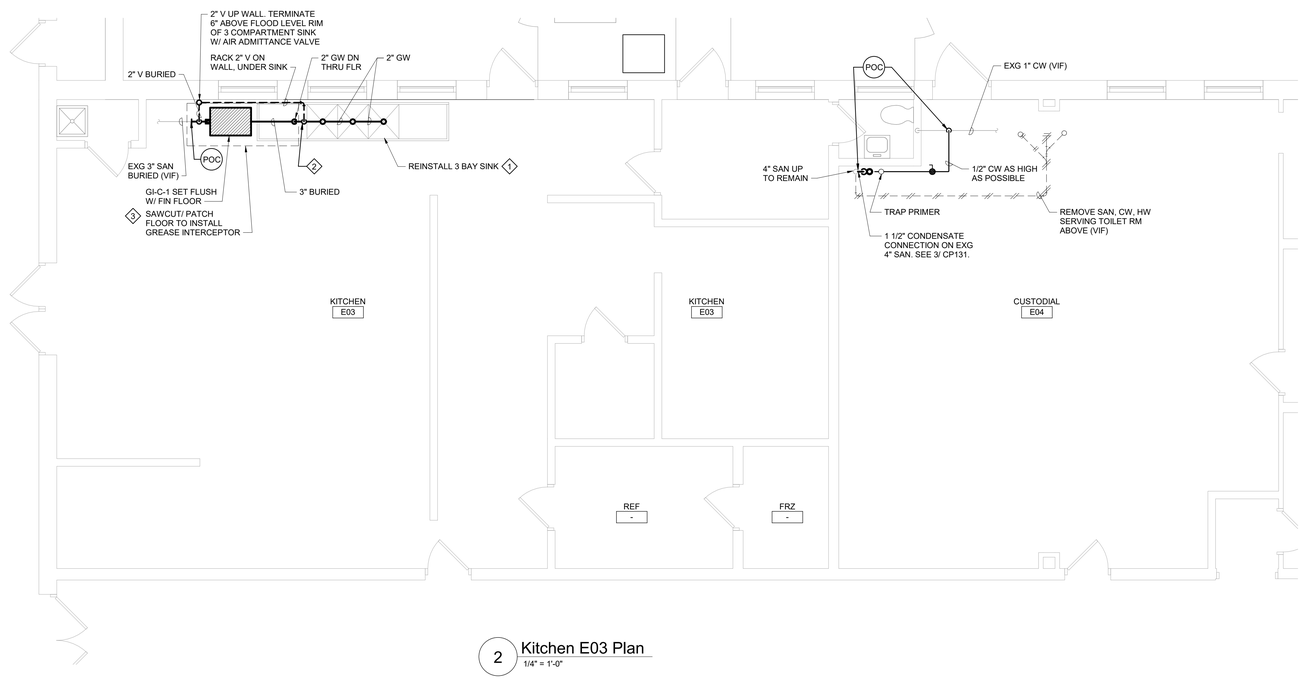
GENERAL NOTES:

1. FOR ACCEPTABLE ADHESIVE PRODUCTS REFER TO SPECIFICATIONS.
2. COMPLY WITH MANUFACTURERS REQUIREMENTS FOR INSTALLATION.

5 Typical Chemical Anchors
NTS



4 Trenching Below Existing Slab Detail
NTS



2 Kitchen E03 Plan
1/4" = 1'-0"

General Notes

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

B. VERIFY IN FIELD INVERT AND DIRECTION OF FLOW IN EXISTING SOIL PIPE WHERE NEW SOIL PIPE IS TO BE CONNECTED TO EXISTING SOIL PIPE.

C. LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS.

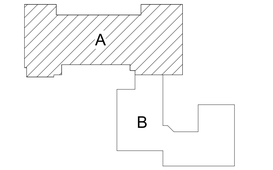
D. INCLUDE TRENCHING, CUTTING AND PATCHING OF FLOORS, WALLS AND CEILINGS, INCLUDING CEILING TILE REMOVAL AND REPLACEMENT, WHEN REQUIRED FOR PLUMBING WORK. PATCH ABANDONED OPENINGS AND DISTURBED FINISHES TO MATCH EXISTING. TAKE PRECAUTIONS TO PROTECT STRUCTURAL INTEGRITY OF FLOOR OR WALLS WHEN TRENCHING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

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

F. REPLACE PLUMBING EQUIPMENT 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.

Plumbing Notes

1. REMOVE 3 BAY SINK AND STORE FOR REINSTALLATION AFTER GREASE INTERCEPTOR IS REPLACED. CLEAN TABLE BEFORE REINSTALLATION.
2. FLOW CONTROL FITTING SUPPLIED BY GREASE INTERCEPTOR MANUFACTURER.
3. REFER TO DETAILS 4/CP130 AND 5/ CP130 FOR ADDITIONAL INFORMATION.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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

BID SET

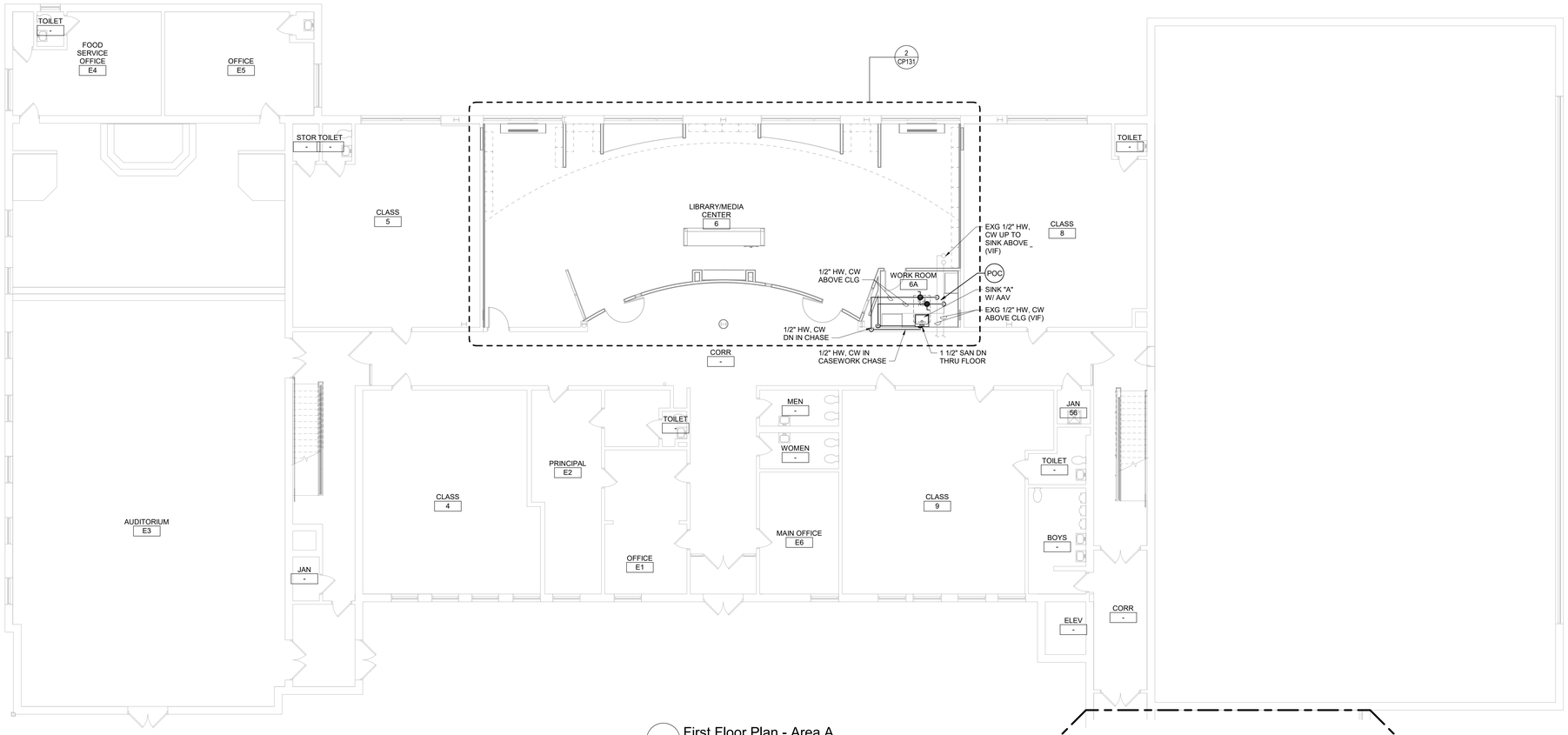
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

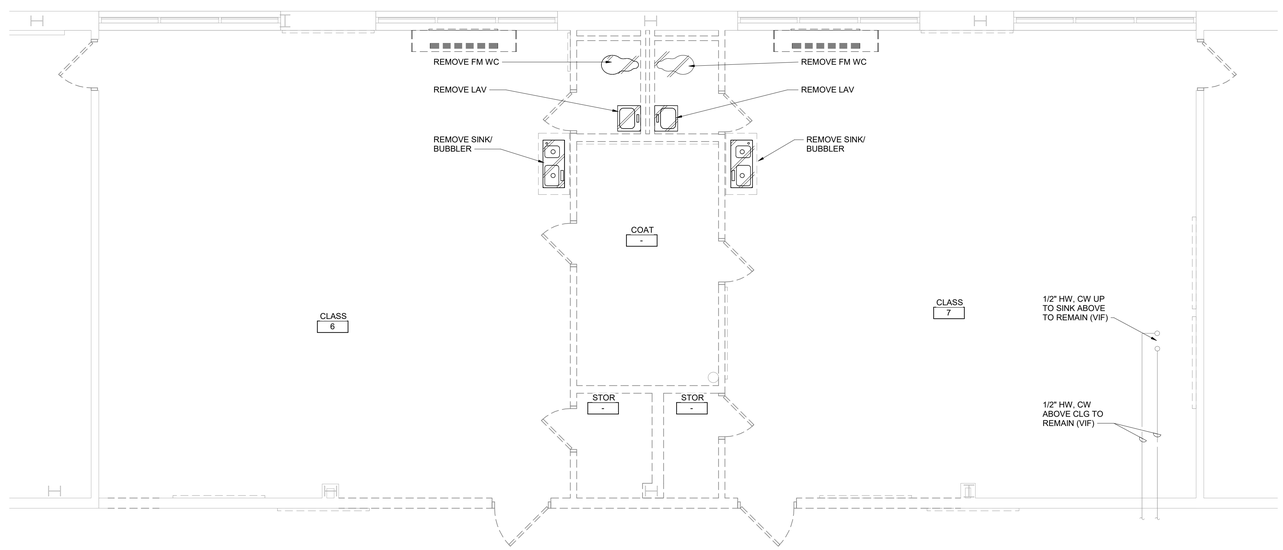
Reconstruction to:
Sargent Elementary School

Basement Floor Plan - Area A, Details and Schedule

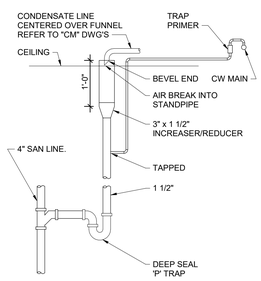
Drawn By: GPD / sef
Date: 10/28/2022
Project No.: 279180-22004
Drawing Number: CP130



1 First Floor Plan - Area A
1/8" = 1'-0"



2 Partial First Floor - Area A Demolition Plan
1/4" = 1'-0"



3 Condensate Connection Detail
NTS

Plumbing Fixture Schedule

DWG LABEL	ROUGH-IN CONNECTION SIZE (INCHES)				BARRIER FREE	AGE GROUP	RIM HEIGHT	DESCRIPTION	NOTES
	SAN	VENT	CW	HW					
SINK "A"	1 1/2	1 1/2	1/2	1/2	YES	ADULT	-	ACCESSIBLE, STAINLESS STEEL, COUNTER MOUNTED SINK W/ MANUAL, SINGLE CONTROL MIXING FAUCET W/ SWING SPOUT, SUPPLIES, OFFSET DRAIN FITTING AND TRAP.	1, 2, 3

NOTES:

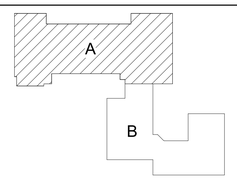
1. SIZES INDICATED ARE MINIMUM. LARGER SIZES SPECIFICALLY INDICATED ON DRAWINGS SUPERCEDE MINIMUM SIZES INDICATED IN THIS SCHEDULE.
2. TERMINATION STYLE AND SIZE FOR FIXTURE CONNECTIONS SHALL BE AS INDICATED BY FIXTURE MANUFACTURER.
3. DRAIN AND TRAP CONCEALED BEHIND ADA CASEWORK PANEL. REFER TO DETAILS ON "A" SERIES DRAWINGS.

Plan Notes

A. REFER TO DRAWING NO. CP130 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. 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.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-008-020

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Sargent Elementary School

First Floor Plan - Area A and Schedule

Drawn By:	Date:	Drawing Number:
GPD / sef	10/28/2022	CP131
Project No.: 279180-22004		

Structural Loads:

A. FLOOR LIVE LOADS PER BCNYS 1607

OCCUPANCY OR USE	UNIFORM	CONCENTRATED
CLASSROOMS	40 PSF	1000 LBS
LOBBIES	100 PSF	
OFFICES	50 PSF	2000 LBS
TOILET ROOMS	60 PSF	
PARTITIONS	15 PSF PER 1607.5	

REDUCTION IN LIVE LOADS HAS BEEN APPLIED WHERE PERMITTED PER 1607.11

B. ROOF LIVE LOADS PER BCNYS 1607.13
MINIMUM ROOF LIVE LOAD 20 PSF

C. RAIN LOADS PER BCNYS 1611
RAIN INTENSITY, i 2.75 IN/HR
RAIN LOAD, R 16 PSF

RAIN SURCHARGE LOAD HAS BEEN APPLIED TO AREAS WHERE PONDING OCCURS IN ACCORDANCE WITH BCNYS 1611.1.

D. SNOW LOADS PER BCNYS 1608
GROUND SNOW, P_g (FIGURE 1608.2) 30 PSF
FLAT ROOF SNOW LOAD, P_f (ASCE 7) 27.7 PSF
SNOW EXPOSURE FACTOR, C_e 1.0
THERMAL FACTOR, C_t 1.2
SLOPE FACTOR, C 1.0
SNOW LOAD IMPORTANCE FACTOR, I_s 1.1

ADDITIONAL SNOW LOADS HAVE BEEN APPLIED TO AREAS WHERE DRIFTING OCCURS IN ACCORDANCE WITH BCNYS 1608.

E. WIND LOAD DESIGN CRITERIA PER BCNYS 1609
BASIC DESIGN WIND SPEED (3 SECOND GUST), V 121 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, V_{asd} 93.7MPH
RISK CATEGORY I I I
EXPOSURE CATEGORY B
INTERNAL PRESSURE COEFFICIENT, GCPi +/- 0.18

F. SEISMIC DESIGN CRITERIA PER BCNYS 1613
RISK CATEGORY I I I
SEISMIC IMPORTANCE FACTOR, I_e 1.25
MAPPED SPECTRAL RESPONSE ACCELERATION
AT SHORT PERIODS, S_S 23.3 %g
AT 1 SECOND PERIODS, S_1 5.7 %g
SITE CLASS D (DEFAULT)
DESIGN SPECTRAL RESPONSE ACCELERATION
AT SHORT PERIODS, S_{DS} 24.8 %g
AT 1 SECOND PERIODS, S_{D1} 9.1 %g
SEISMIC DESIGN CATEGORY B
BASIC SEISMIC-FORCE-RESISTING SYSTEM:
MOMENT-RESISTING FRAME SYSTEM
ORDINARY STEEL MOMENT FRAMES R= 3.5
Cs= 0.09
DESIGN BASE SHEAR V=1.2K

COMPONENTS & CLADDING WIND PRESSURE (PSF) - BUILDING

MEAN ROOF HEIGHT, "h" (FT)	EFFECTIVE WIND AREA (SQ FT)	ROOF												
		ZONE 1'		ZONE 1		ZONE 1/1'	ZONE 2			ZONE 3			ZONE 4		ZONE 5	
		MIDDLE INTERIOR		INTERIOR		OVERHANG	EDGE		OVERHANG	CORNER		OVERHANG	INTERIOR		CORNER	
12.00	≤ 10	-24.1	16.0	-42.0	16.0	-37.9	-55.4	16.0	-51.3	-75.4	16.0	-71.4	-26.1	24.1	-32.1	24.1
	20	-24.1	16.0	-39.2	16.0	-37.3	-51.8	16.0	-46.6	-68.3	16.0	-63.1	-25.0	23.0	-30.0	23.0
	50	-24.1	16.0	-35.5	16.0	-36.4	-47.1	16.0	-40.3	-58.9	16.0	-52.1	-23.6	21.6	-27.2	21.6
	100	-24.1	16.0	-32.8	16.0	-35.7	-43.5	16.0	-35.6	-51.8	16.0	-43.8	-22.6	20.6	-25.0	20.6
	≥ 500	-16.3	16.0	-26.3	16.0	-24.6	-35.3	16.0	-24.6	-35.3	16.0	-24.6	-20.1	18.1	-20.1	18.1

NOTES:

1. MEAN ROOF HEIGHT IS MEASURED ABOVE DATUM FFE, ELEVATION = 100'-0".

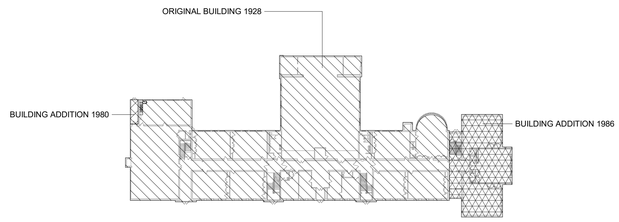
2. REFER TO ASCE 7-16 FOR DEFINITION OF TERMS. FOR THE DIMENSIONS OF EACH ZONE, REFERENCE FIGURE 30.4-1 IN ASCE 7-16 AND USE "h" FROM ABOVE TABLE TO DETERMINE 0.6h AND 0.2h.

3. THESE TABLES ARE TO BE USED FOR WIND LOAD CONTRIBUTION TO TOTAL LOAD ACTING ON ANY COMPONENT OR CLADDING MEMBER WHICH IS PART OF A ROOF OR EXTERIOR WALL ASSEMBLY. EXAMPLES OF COMPONENTS AND CLADDING INCLUDE, BUT ARE NOT LIMITED TO ROOF JOISTS, WALL STUDS, ROOF DECK FASTENERS, VENEER TIES, WINDOWS, AND THEIR ATTACHMENTS.

4. FOR EFFECTIVE WIND AREA VALUES LISTED IN THE TABLE ABOVE, PRESSURE VALUES MAY INTERPOLATED; OTHERWISE USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE WIND AREA.

5. POSITIVE PRESSURES (+) ACT TOWARDS THE BUILDING, NEGATIVE PRESSURES (-) ACT AWAY FROM THE BUILDING, POSITIVE AND NEGATIVE PRESSURES DO NOT ACT SIMULTANEOUSLY. PRESSURES ARE APPLIED TO THE SURFACE OF THE COMPONENT OR CLADDING.

6. DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLIED BY 0.6 FOR USE WITH SERVICE LEVEL OR ASD DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.



1 Vintage Key Plan
1" = 50'-0"

Code Compliance Review

PROJECT LOCATION:
60 SOUTH AVE, BEACON, NY 12508
BOUNDED BY SOUTH AVE TO THE WEST, ROMBOUT AVE TO THE NORTH, W CENTER STREET TO THE SOUTH, AND SCHOOL STREET TO THE EAST.

PROJECT DESCRIPTION:
THIS PROJECT INCLUDES RENOVATION OF APPROXIMATELY 6,340 SF.

WORK GENERALLY CONSISTS OF THE FOLLOWING:
ALTERATIONS - LEVEL 1
- REPLACE FLOOR SINK WASTE LINE
- REPLACE SELECT CEILINGS
- UPGRADE EMERGENCY LIGHTING
- UPGRADE LIGHTING
- REPLACE PAVING IN FRONT LOOP
- OUTDOOR PLAY AREA IMPROVEMENTS

ALTERATIONS - LEVEL 2
- REPLACE FACULTY ROOM WINDOW
- ADD GREASE TRAP TO KITCHEN
- ADD MECHANICAL VENTILATION
- OUTDOOR LEARNING SPACE
- ADDITIONAL PLAY STRUCTURES

APPLICABLE CODES [AND STANDARDS]:

BASED ON THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE INCLUDING APPLICABLE 2018 ICC CODES AND 2020 BUILDING CODES of NYS, AND ICC A117.1-2017 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.

REFER TO PROJECT MANUAL FOR REQUIREMENTS STATED IN "NYCRR 155 REGULATIONS OF THE COMMISSIONER OF EDUCATION".

BUILDING DATA:

BUILDING: SOUTH AVENUE ELEMENTARY SCHOOL
60 SOUTH AVE,
BEACON, NY 12508

DESCRIPTION: TWO STORY MASONRY AND REINFORCED CONCRETE BUILDING WITH BASEMENT.

YEAR BUILT: 1930'S
ADDITIONS: 1980 AND 1986

BUILDING AREA: GROUND FLOOR 14,500 SQFT
1ST FLOOR 18,875 SQFT
2ND FLOOR 12,950 SQFT

TOTAL GROSS AREA= 46,325 SQFT

CODE DATA SUMMARY:

USE GROUP: E : EDUCATION

CONSTRUCTION TYPE -

EXISTING: IIB

FIRE SAFETY: NO, AUTOMATIC SPRINKLER SYSTEM IS PROVIDED.

WORK AREA:

LOCATION	AREA	% OF TOTAL
GROUND FLOOR	585 SQFT	4.0%
1ST FLOOR	3,097 SQFT	16.4%
2ND FLOOR	2,658 SQFT	20.5%

PATH OF CODE COMPLIANCE:

2018 IEBC CODES AND 2020 EXISTING BUILDING CODE of NYS
301.1.2 WORK AREA COMPLIANCE METHOD

CHAPTER 5 - CLASSIFICATION OF WORK
503 ALTERATION - LEVEL 1 (CHAPTER 7)
504 ALTERATION - LEVEL 2 (CHAPTER 8)

NEW CONSTRUCTION WILL COMPLY WITH REQUIREMENTS OF 2018 ICC CODES AND 2020 BUILDING CODES of NYS

CORRIDOR ENCLOSURES (PER TABLE 1020.1):
FOR CORRIDOR FIRE RESISTANCE - SEE ENLARGED PLANS. PARTITION TYPES AND DOOR SCHEDULE. ALL CROSS CORRIDOR PARTITIONS ARE SMOKE PARTITIONS AND EXTEND FROM FINISH FLOOR TO DECK ABOVE.

INTERIOR FINISH REQUIREMENTS:

ALL FINISHES IN CORRIDORS AND ASSEMBLY SPACES SHALL HAVE A FIRE HAZARD CLASSIFICATION PER MANUAL OF PLANNING STANDARDS SECTION S202-2, a. THROUGH e.

General Code Notes

A. REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL CODE COMPLIANCE INFORMATION.

B. AT AREAS OF PROJECT WORK, COMPLETELY SEAL ALL PENETRATIONS REQUIRED TO COMPLY WITH FIRE RESISTANCE RATINGS IDENTIFIED ON THE DG351 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.

- 2-HOUR FIRE BARRIER
- 1-HOUR FIRE BARRIER
- 1-HOUR FIRE PARTITION
- SMOKE PARTITION
- COMMON EGRESS PATH
- EXISTING FIRE EXTINGUISHER LOCATION
- AREA OF REFUGE
- AUTOMATED EXTERNAL DEFIBRILLATOR (AED)
- RW RESCUE WINDOW
- ALTERATION LEVEL 1 WORK AREA
- ALTERATION LEVEL 2 WORK AREA

General Notes

A. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

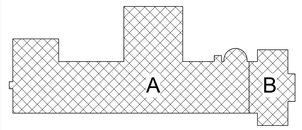
B. TAKE FIELD MEASUREMENTS TO FIT THE WORK PROPERLY. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.

C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.

D. ITEMS ARE SHOWN DIAGRAMMATICALLY ON DRAWINGS. VERIFY SPACE REQUIREMENTS AND DIMENSIONS TO FIT THE WORK PROPERLY.

E. NOTES SHOWN ON ONE DRAWING APPLY TO ALL SIMILAR DRAWINGS.

F. DO NOT DISTURB CONSTRUCTION SUSPECTED OF CONTAINING HAZARDOUS MATERIAL. IF ENCOUNTERED, IMMEDIATELY NOTIFY ARCHITECT[, CONSTRUCTION MANAGER] AND OWNER.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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

BID SET

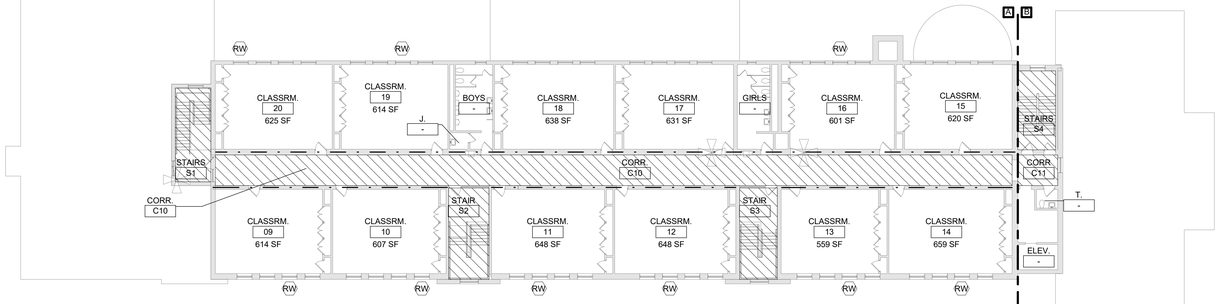
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

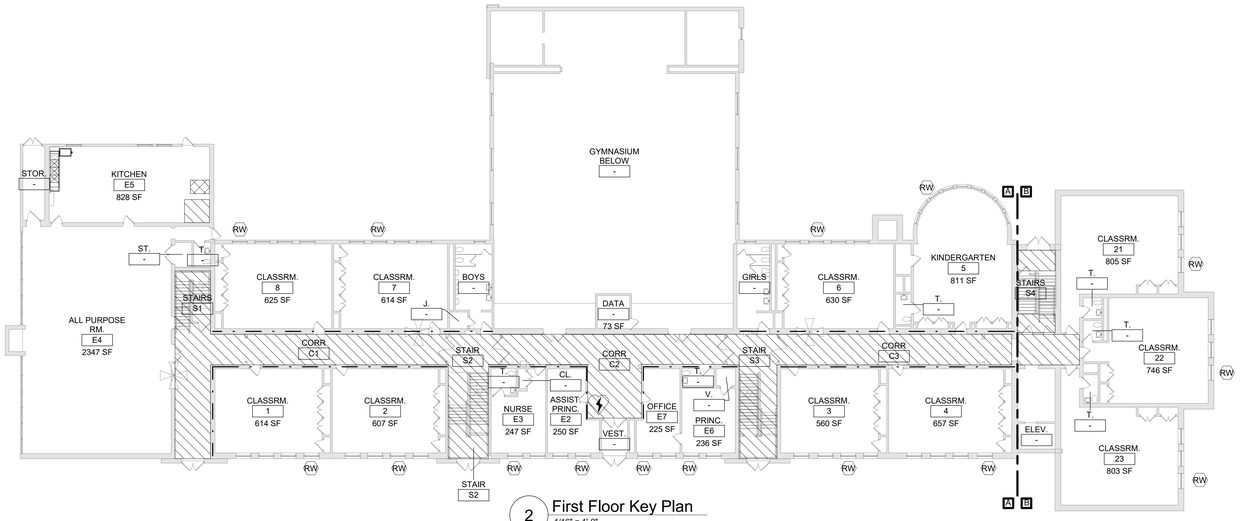
Reconstruction to:
South Ave Elementary School

Code Compliance Review

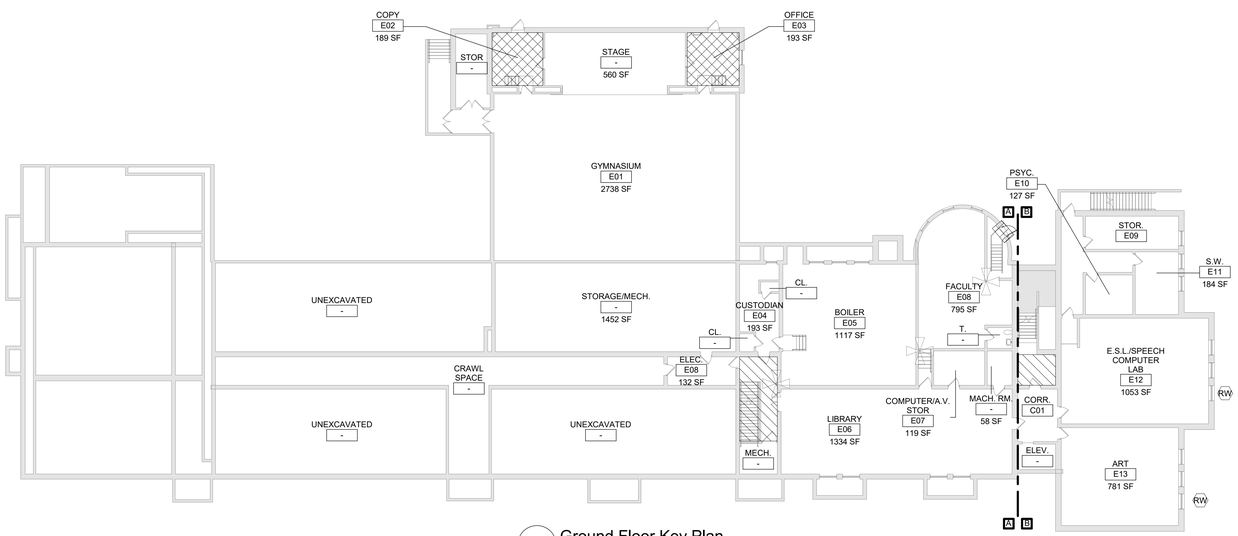
Drawn By: TLG
Date: 10/28/2022
Project No.: 279180-22004
Drawing Number: DG350



3 Second Floor Key Plan
1/16" = 1'-0"



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



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

General Notes

A. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

B. TAKE FIELD MEASUREMENTS TO FIT THE WORK PROPERLY. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.

C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.

D. ITEMS ARE SHOWN DIAGRAMMATICALLY ON DRAWINGS. VERIFY SPACE REQUIREMENTS AND DIMENSIONS TO FIT THE WORK PROPERLY.

E. NOTES SHOWN ON ONE DRAWING APPLY TO ALL SIMILAR DRAWINGS.

F. DO NOT DISTURB CONSTRUCTION SUSPECTED OF CONTAINING HAZARDOUS MATERIAL. IF ENCOUNTERED, IMMEDIATELY NOTIFY ARCHITECT[, CONSTRUCTION MANAGER] AND OWNER.

General Code Notes

A. REFER TO CODE COMPLIANCE DRAWINGS FOR ADDITIONAL CODE COMPLIANCE INFORMATION.

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

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

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

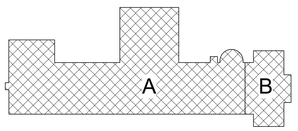
E. PROVIDE APPLIED FIREPROOFING TO ALL BEAMS, JOISTS AND STRUCTURAL STEEL ELEMENTS AT ALL FIRE BARRIERS, FIRE PARTITIONS, AND OTHER RATED WALLS WHERE INDICATED ON DRAWINGS, AND THAT ARE NOT COMPLETELY PROTECTED WITHIN THE RATED CONSTRUCTION. PROTECTION OF SUCH ELEMENTS SHALL MATCH THE RATING OF THE WALL THAT THE ELEMENTS ARE CONTAINED WITHIN.

F. ALL CMU CONSTRUCTION SHALL MEET FIRE RESISTANCE REQUIREMENTS INDICATED. PROVIDED BLOCK TYPE AS REQUIRED TO COMPLY WITH UL DESIGN NUMBERS AND WALL RATINGS INDICATED, REGARDLESS IF NOTED AS SUCH ON PLAN DETAILS.

Legend

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

- 2-HOUR FIRE BARRIER
- 1-HOUR FIRE BARRIER
- 1-HOUR FIRE PARTITION
- SMOKE PARTITION
- COMMON EGRESS PATH
- EXISTING FIRE EXTINGUISHER LOCATION
- AREA OF REFUGE
- AUTOMATED EXTERNAL DEFIBRILLATOR (AED)
- RW RESCUE WINDOW
- ALTERATION LEVEL 1 WORK AREA
- ALTERATION LEVEL 2 WORK AREA



Key Plan
N.T.S.

N

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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

BID SET

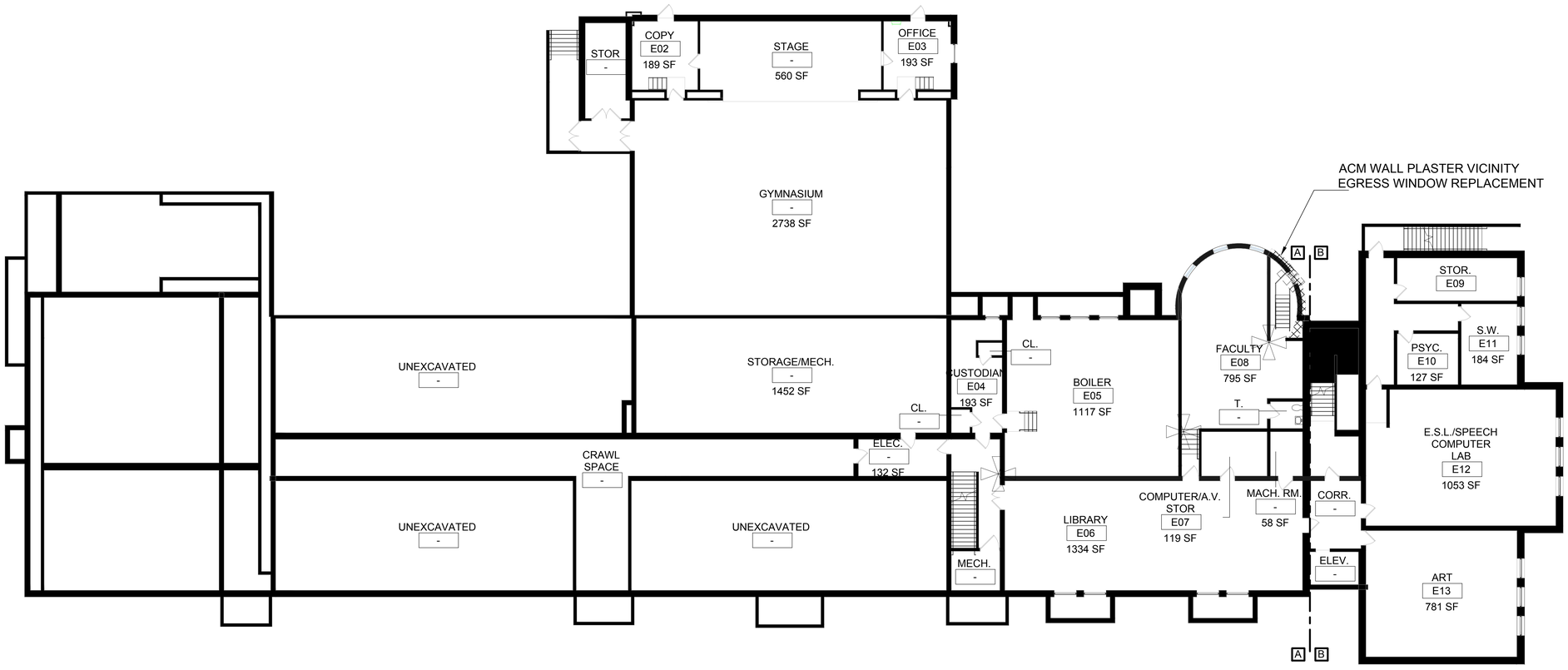
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
South Ave Elementary School

Code Compliance Ground, First, and Second Floor Key Plans

Drawn By: TLG
Date: 10/28/2022
Drawing Number: DG351
Project No.: 279180-22004



SOUTH AVENUE ELEMENTARY - GROUND FLOOR ABATEMENT PLAN
AM-100 SCALE: NONE

ASBESTOS ABATEMENT NOTES

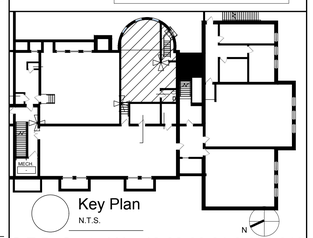
ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING (ACM) PLASTER WALL AND COVERINGS AT LOCATIONS INDICATED.

REFER TO SPECIFICATION SECTION 020800 - SECTION 3.17 FOR A DESCRIPTION OF THE WORK.

ASBESTOS ABATEMENT LEGEND

ASBESTOS CONTAINING PLASTER WALLS AND CEILINGS.

QUALITY ENVIRONMENTAL SOUTIONS
& TECHNOLOGIES, INC.
1376 NYS ROUTE 9
WAPPINGERS FALLS, NY 12590
TEL. : (845) 298-6031



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-003-016

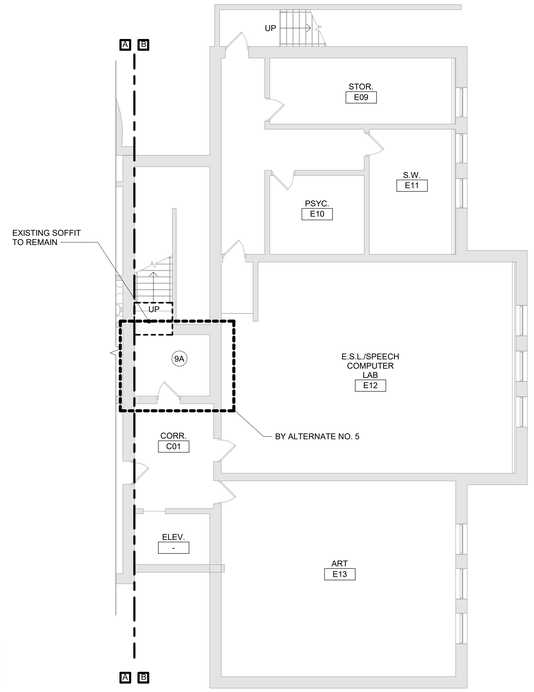
Rev. No.:	Date:	Description:
1	9-13-22	100% SED Submittal

Beacon City School District
Beacon, New York

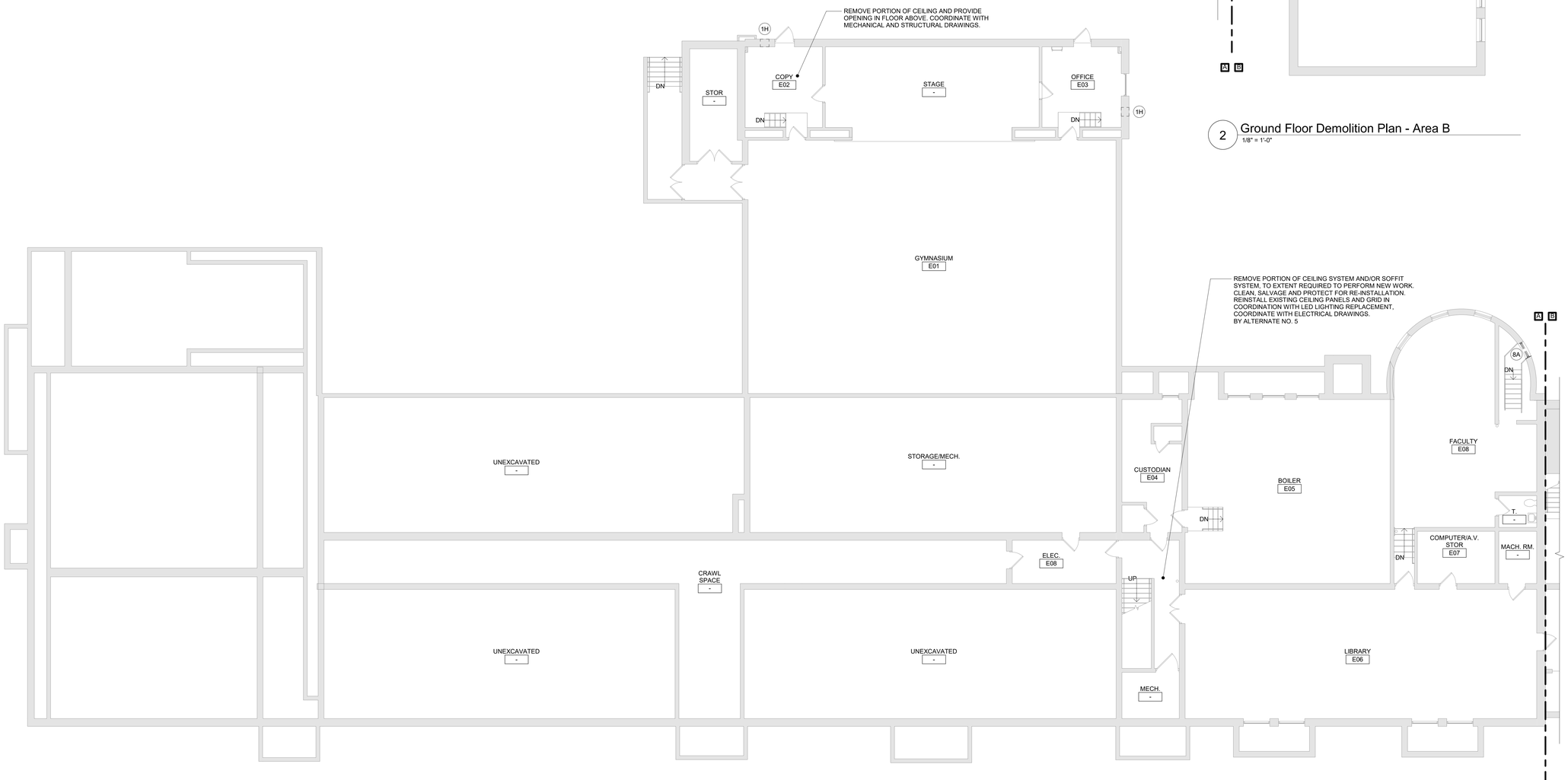
Reconstruction to:
South Avenue Elementary School

Asbestos Abatement

Drawn By:	Date:	Drawing Number:
AM/GD	10/28/2022	DH100
Project No.: 279180-22004		



2 Ground Floor Demolition Plan - Area B
1/8" = 1'-0"



1 Ground Floor Demolition Plan - Area A
1/8" = 1'-0"

General Demolition Notes

A. - - - - - REMOVE ITEMS INDICATED BY DASHED LINE.

B. KEYED DEMOLITION TAGS REFER TO SPECIFIC LOCATIONS AS FOLLOWS:

1. DEMOLITION TAGS LOCATED WITHIN THE MIDDLE OF A SPACE REFER TO DEMOLITION OF ALL ITEMS OF THAT SAME TYPE WITHIN THAT ENTIRE SPACE.

2. DEMOLITION TAGS PLACED IMMEDIATELY ON OR ADJACENT TO A DASHED LINE INDICATING ITEM REMOVAL OR THAT HAVE A LEADER POINTING TO SPECIFIC ITEM(S) REFER TO DEMOLITION OF THAT SPECIFIC ITEM ONLY OF THAT TYPE WITHIN THAT SPACE.

3. DEMOLITION TAGS IN SERIES REFER TO DEMOLITION OF ALL THOSE ITEMS EITHER WITHIN THAT ENTIRE SPACE OR TO THE SPACE IDENTIFIED BY THAT LEADER.

C. WHEN AN ITEM IS INDICATED TO BE DEMOLISHED REMOVE ALL ASSOCIATED COMPONENTS AS PART OF THAT WORK.

D. ALL ARTWORK NOT PERMANENTLY AFFIXED TO EXISTING CONSTRUCTION SHALL BE REMOVED AND STORED BY OWNER PRIOR TO BEGINNING DEMOLITION WORK. CONTACT OWNER'S AGENT(S) IF ANY ARTWORK IS ENCOUNTERED PRIOR TO START OF DEMOLITION WORK.

E. COORDINATE WITH ABATEMENT DRAWINGS PRIOR TO DEMOLITION.

Demolition Key Notes

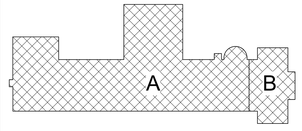
1H PROVIDE NEW OR ENLARGE EXISTING OPENING IN WALL TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE, SEE STRU DRAWINGS. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH SCHEDULED WORK ON MECHANICAL DRAWINGS.

8A REMOVE WINDOW COMPLETELY. PREPARE OPENING TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. SEE ABATEMENT DRAWINGS.

9A REMOVE CEILING SYSTEM AND/OR SOFFIT SYSTEM IN ITS ENTIRETY.

9B.x REMOVE FLOOR FINISH, MASTIC AND WALL BASE TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. AT ALL AREAS OF FLOOR REMOVAL, LEVEL SLAB WITH ADJACENT SLABS AT LOCATIONS SCHEDULED TO RECEIVE FLOOR FINISH. INCLUDE CONCRETE FLOOR PATCHING AND LEVELING MATERIALS TO MAKE SURFACE LEVEL. PREPARE FOR FINISH. PATCH AREAS OF WALLS TO REMAIN THAT WERE DAMAGED BY REMOVAL OF WALL BASE.

SUFFIX KEY (FLOOR FINISH IDENTIFICATIONS):
A. CERAMIC FLOOR TILE.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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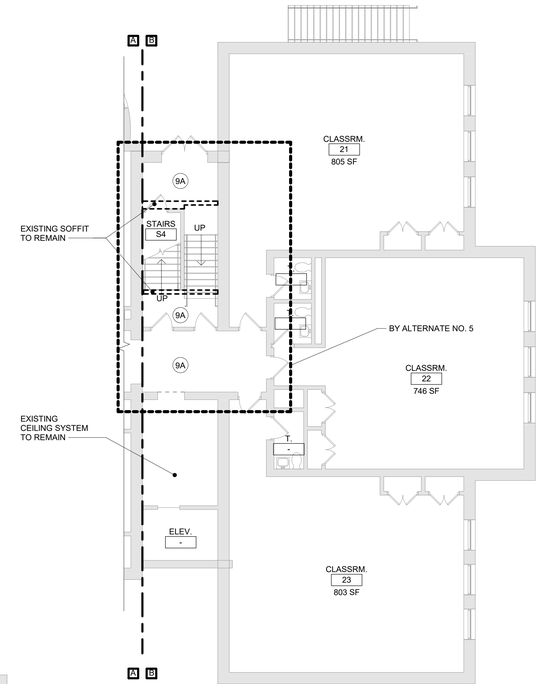
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

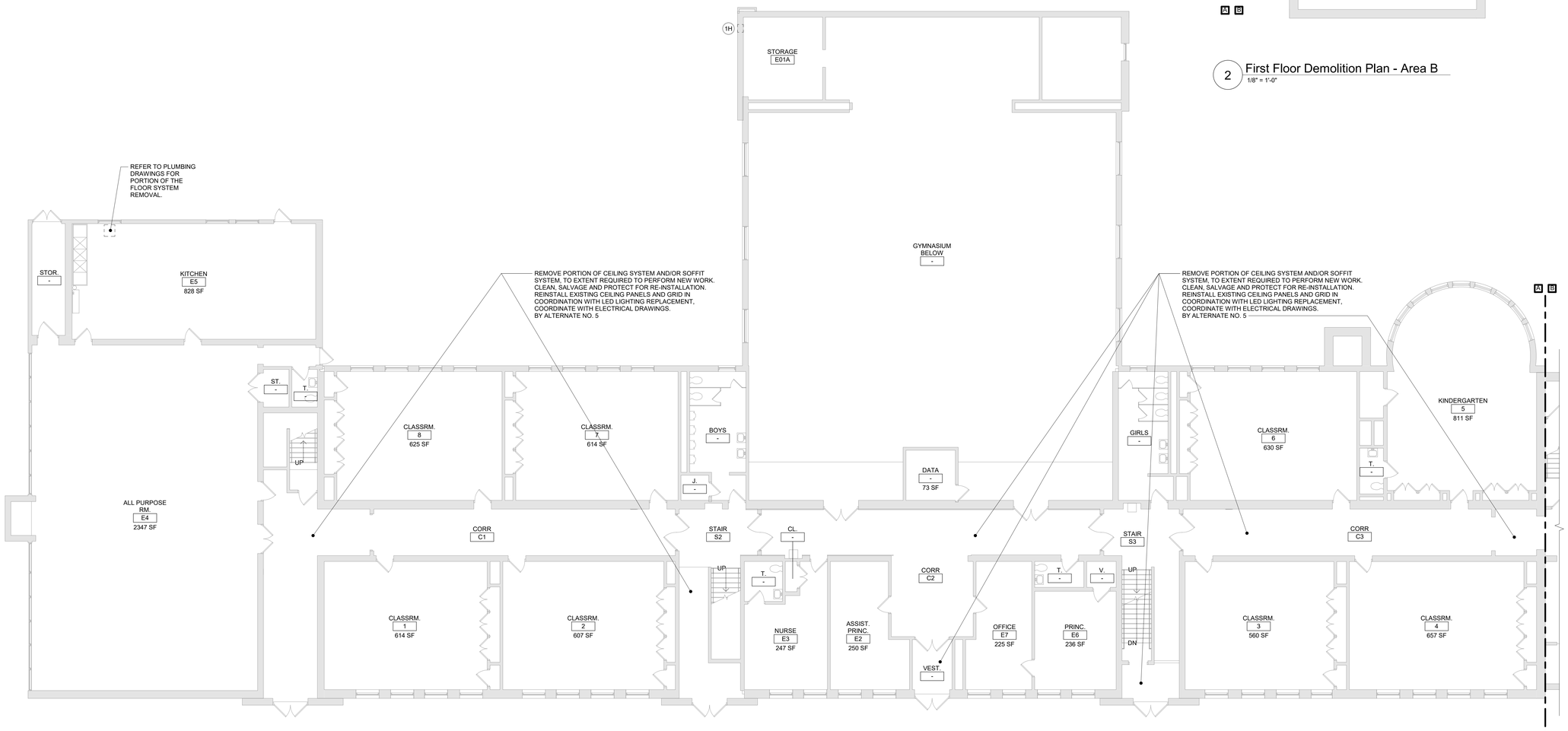
Reconstruction to:
South Ave Elementary School

Ground Floor Demolition Plans - Area A and B

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	DA100
Project No.: 279180-22004		



2 First Floor Demolition Plan - Area B
1/8" = 1'-0"



1 First Floor Demolition Plan - Area A
1/8" = 1'-0"

General Demolition Notes

A. - - - - - REMOVE ITEMS INDICATED BY DASHED LINE.

B. KEYED DEMOLITION TAGS REFER TO SPECIFIC LOCATIONS AS FOLLOWS:

1. DEMOLITION TAGS LOCATED WITHIN THE MIDDLE OF A SPACE REFER TO DEMOLITION OF ALL ITEMS OF THAT SAME TYPE WITHIN THAT ENTIRE SPACE.

2. DEMOLITION TAGS PLACED IMMEDIATELY ON OR ADJACENT TO A DASHED LINE INDICATING ITEM REMOVAL OR THAT HAVE A LEADER POINTING TO SPECIFIC ITEM(S) REFER TO DEMOLITION OF THAT SPECIFIC ITEM ONLY OF THAT TYPE WITHIN THAT SPACE.

3. DEMOLITION TAGS IN SERIES REFER TO DEMOLITION OF ALL THOSE ITEMS EITHER WITHIN THAT ENTIRE SPACE OR TO THE SPACE IDENTIFIED BY THAT LEADER.

C. WHEN AN ITEM IS INDICATED TO BE DEMOLISHED REMOVE ALL ASSOCIATED COMPONENTS AS PART OF THAT WORK.

D. ALL ARTWORK NOT PERMANENTLY AFFIXED TO EXISTING CONSTRUCTION SHALL BE REMOVED AND STORED BY OWNER PRIOR TO BEGINNING DEMOLITION WORK. CONTACT OWNER'S AGENT(S) IF ANY ARTWORK IS ENCOUNTERED PRIOR TO START OF DEMOLITION WORK.

E. COORDINATE WITH ABATEMENT DRAWINGS PRIOR TO DEMOLITION.

Demolition Key Notes

1H PROVIDE NEW OR ENLARGE EXISTING OPENING IN WALL TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK. PROVIDE LINTEL PER LINTEL SCHEDULE, SEE STRU DRAWINGS. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES. COORDINATE WITH SCHEDULED WORK ON MECHANICAL DRAWINGS.

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9A REMOVE CEILING SYSTEM AND/OR SOFFIT SYSTEM IN ITS ENTIRETY.

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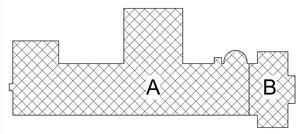

Key Plan
N.T.S.

N

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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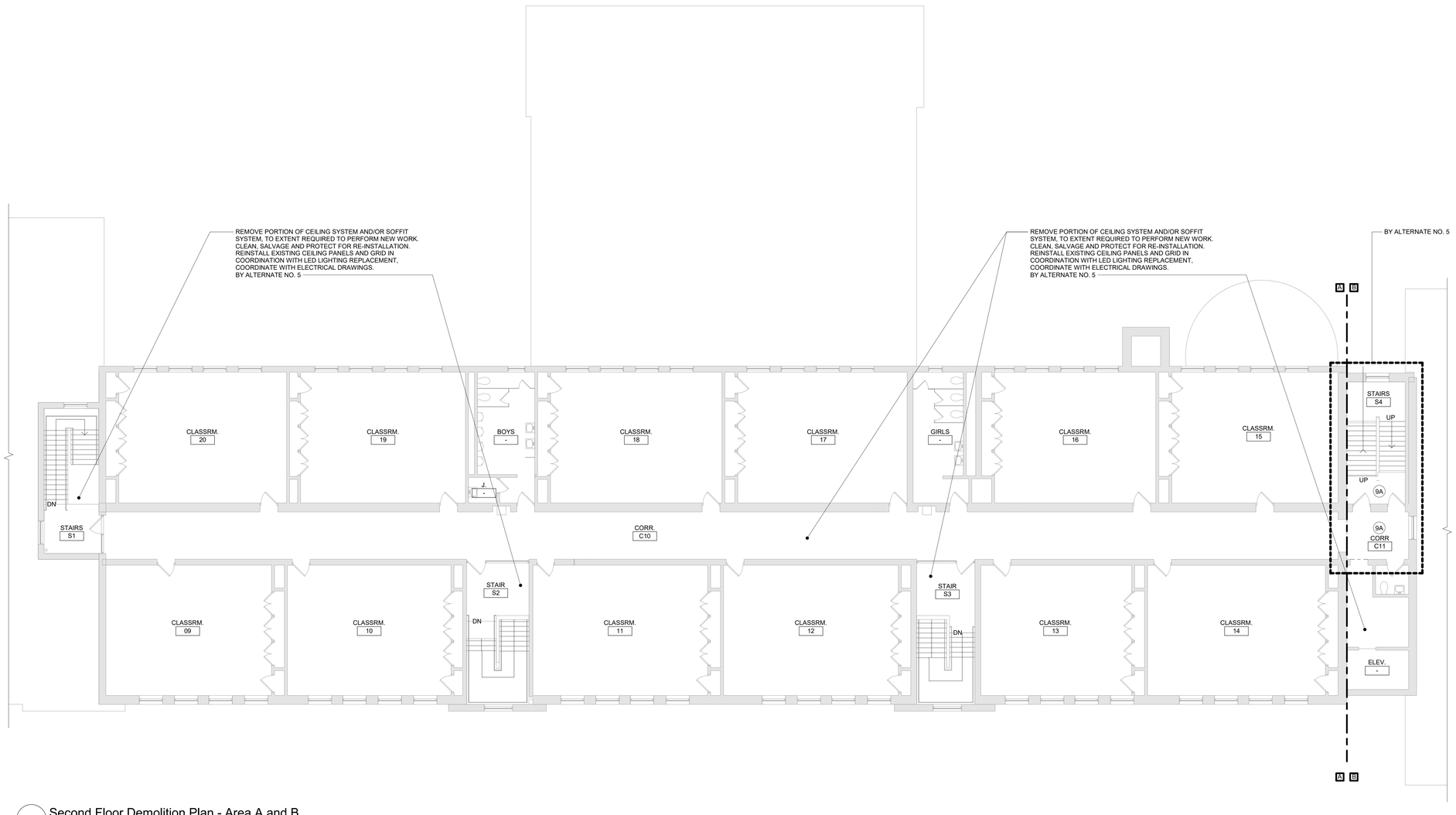
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
South Ave Elementary School

First Floor Demolition Plan - Area A and B

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	DA101
Project No.: 279180-22004		



1 Second Floor Demolition Plan - Area A and B
1/8" = 1'-0"

General Demolition Notes

A. - - - - - REMOVE ITEMS INDICATED BY DASHED LINE.

B. KEYED DEMOLITION TAGS REFER TO SPECIFIC LOCATIONS AS FOLLOWS:

1. DEMOLITION TAGS LOCATED WITHIN THE MIDDLE OF A SPACE REFER TO DEMOLITION OF ALL ITEMS OF THAT SAME TYPE WITHIN THAT ENTIRE SPACE.

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3. DEMOLITION TAGS IN SERIES REFER TO DEMOLITION OF ALL THOSE ITEMS EITHER WITHIN THAT ENTIRE SPACE OR TO THE SPACE IDENTIFIED BY THAT LEADER.

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Demolition Key Notes

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SUFFIX KEY (FLOOR FINISH IDENTIFICATIONS):
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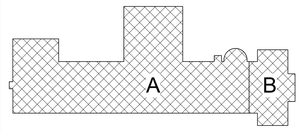

Key Plan
N.T.S.

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S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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Beacon City School District
Beacon, New York

Reconstruction to:
South Ave Elementary School

Second Floor Demolition Plan - Area A and B

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	DA102
Project No.: 279180-22004		

1 Ground Floor Plan - Area A
1/8" = 1'-0"

General Plan Notes

A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

General Door Notes

A. HARDWARE ON DOORS FROM SPACES OF PUPIL OCCUPANCY SHALL BE A TYPE WHICH WILL ALWAYS PERMIT THE DOOR TO BE OPENED FROM THE INSIDE WITHOUT DIRECT MANIPULATION OF ANY TYPE LOCKING DEVICE.

B. APPLY CONTINUOUS JOINT SEALANT TO ALL JOINTS BETWEEN FRAMES AND WALLS, TYP ALL.

C. VERIFY SIZES OF ALL EXISTING OPENINGS IN SCHEDULE PRIOR TO FIRST SUBMISSION OF SHOP DRAWINGS. NOTIFY ARCHITECT IF ANY ARE LESS THAN CODE MINIMUM HEIGHT OF 6'-8". ASSUME FOR BIDDING ALL EXISTING OPENINGS ARE AS NOTED IN THE SCHEDULE (VIF, TYP).

D. MATERIAL DESIGNATION KEY:

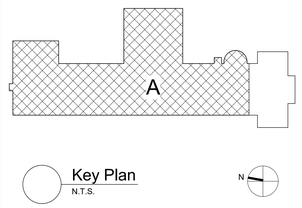
FRP FIBERGLASS REINFORCED PLASTIC
HM HOLLOW METAL
WD WOOD
AL ALUMINUM
STL STEEL
EXG EXISTING

E. ADDITIONAL DOOR SCHEDULE DESIGNATIONS:

* EXISTING TO REMAIN
\- NOT APPLICABLE
NOT APPLICABLE OR TO BE COORDINATED WITH STOREFRONT TYPE.

Keyed Plan Notes

1 INSTALL LOUVER FURNISHED BY OTHERS AT NEW OPENING. COORDINATE WITH MECHANICAL DRAWINGS.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-003-016

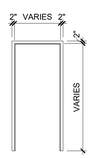
Rev. No.:	Date:	Description:

Door Schedule

ROOM NUMBER	DOOR NUMBER	DOOR TYPE	DOOR MATERIAL	DOOR WIDTH	DOOR HEIGHT	DOOR RATING	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME WIDTH	FRAME HEIGHT	FRAME RATING	FRAME GLAZING	HEAD	JAMB	SILL	HDW SET	REMARKS
BASEMENT																		
E08	1	F	FRP	2' - 6"	4' - 0"	-	-	F2	AL	2' - 10"	4' - 2"	-	-	4/DA130	5/DA130	6/DA130	15	NOTE 1, 2 AND 3

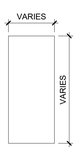
GENERAL NOTES:
VERIFY ALL DIMENSIONS IN THE FIELD

SPECIFIC NOTES:
- NOT APPLICABLE
1. THRESHOLD 2'-1" ABOVE INTERIOR LANDING, LEVEL WITH EXTERIOR GRADE, VIF.
2. MATCH FRAME TO EXISTING OPENING HEIGHT AND WIDTH, VIF.
3. PROVIDE 1" HIGH BUMPER SEAL THRESHOLD. FULL WIDTH OF WALL, VIF



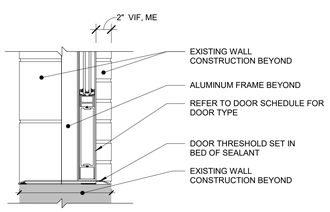
F2

FRAME TYPES

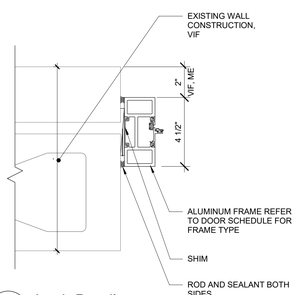


F

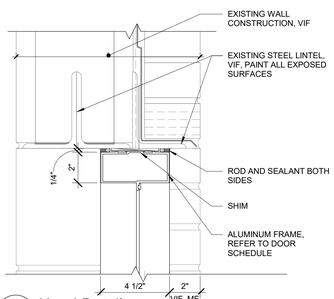
DOOR TYPES



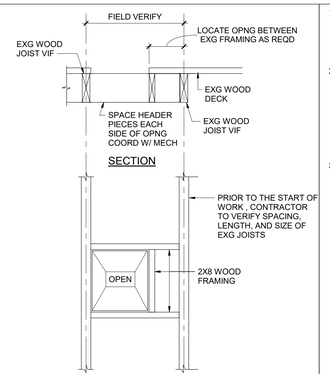
6 Threshold Detail
1 1/2" = 1'-0"



5 Jamb Detail
3" = 1'-0"



4 Head Detail
3" = 1'-0"



AFTER NEW FRAME IS IN PLACE CUT EXG FLOOR DECK AT FACE OF NEW FRAMING

NOTE: REFER TO TABLE 2304.10.1 IN 2020 BCNYS FOR FASTENER REQUIREMENTS LOCATION AND SIZE OF OPENING TO BE COORDINATED WITH A-SERIES AND M-SERIES DWG

3 Typ New Opng at Exg Wood Framed
3/4" = 1'-0"

1. FOR 4" THICK WALLS

MASONRY OPENING UP TO 6'-4"	LINTEL ANGLE MT 6X5.9

2. FOR 6" THICK WALLS

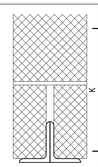
MASONRY OPENING (±)	LINTEL ANGLE
5'-0"	2- L2 1/2X2 1/2X5/16
6'-0"	2- L3X2 1/2X5/16 LLV
7'-0"	2- L3 1/2X2 1/2X5/16 LLV
8'-0"	2- L3 1/2X2 1/2X5/16 LLV

3. FOR 8", 12", AND 16" THICK WALLS: FOR EACH 4" THICKNESS OF WALL

MASONRY OPENING (±)	LINTEL ANGLE
5'-0"	L3 1/2X3 1/2X5/16
6'-0"	L4X3 1/2X 5/16 LLV
7'-0"	L5X3 1/2X5/16 LLV
8'-0"	L5X3 1/2X5/16 LLV
9'-0"	L6X3 1/2X5/16 LLV
10'-0"	L6X3 1/2X5/16 LLV

LINTEL NOTES

1. ALL OPENINGS 1'-0" AND OVER REQUIRE LINTELS.
2. STEEL TO BE A36.
3. THIS SCHEDULE IS TYPICAL FOR ALL MASONRY OPENINGS IN NON-LOAD BEARING WALLS UNLESS OTHERWISE NOTED.
4. ALL LINTELS TO HAVE MINIMUM 8" BEARING BOTH ENDS.
5. BACK TO BACK ANGLES ARE TO BE STITCH WELDED TOGETHER BEFORE PLACEMENT.
6. ALL LINTELS ARE TO HAVE BOTH ENDS BEAR ON SOLID MASONRY OR SOLIDLY GROUTED HOLLOW MASONRY.
7. WHERE MINIMUM 8" BEARING LENGTH CANNOT BE PROVIDED DUE TO COLUMN INTERFERENCE, PROVIDE CONNECTION OF LINTEL TO COLUMN.
8. THIS LINTEL SCHEDULE IS APPLICABLE FOR USE IN EXISTING BUILDING. SHORE EXISTING STRUCTURE AND WALL AS REQD FOR INSTALLATION OF NEW MAS AND LINTEL. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.



2 Lintel Schedule
12" = 1'-0"

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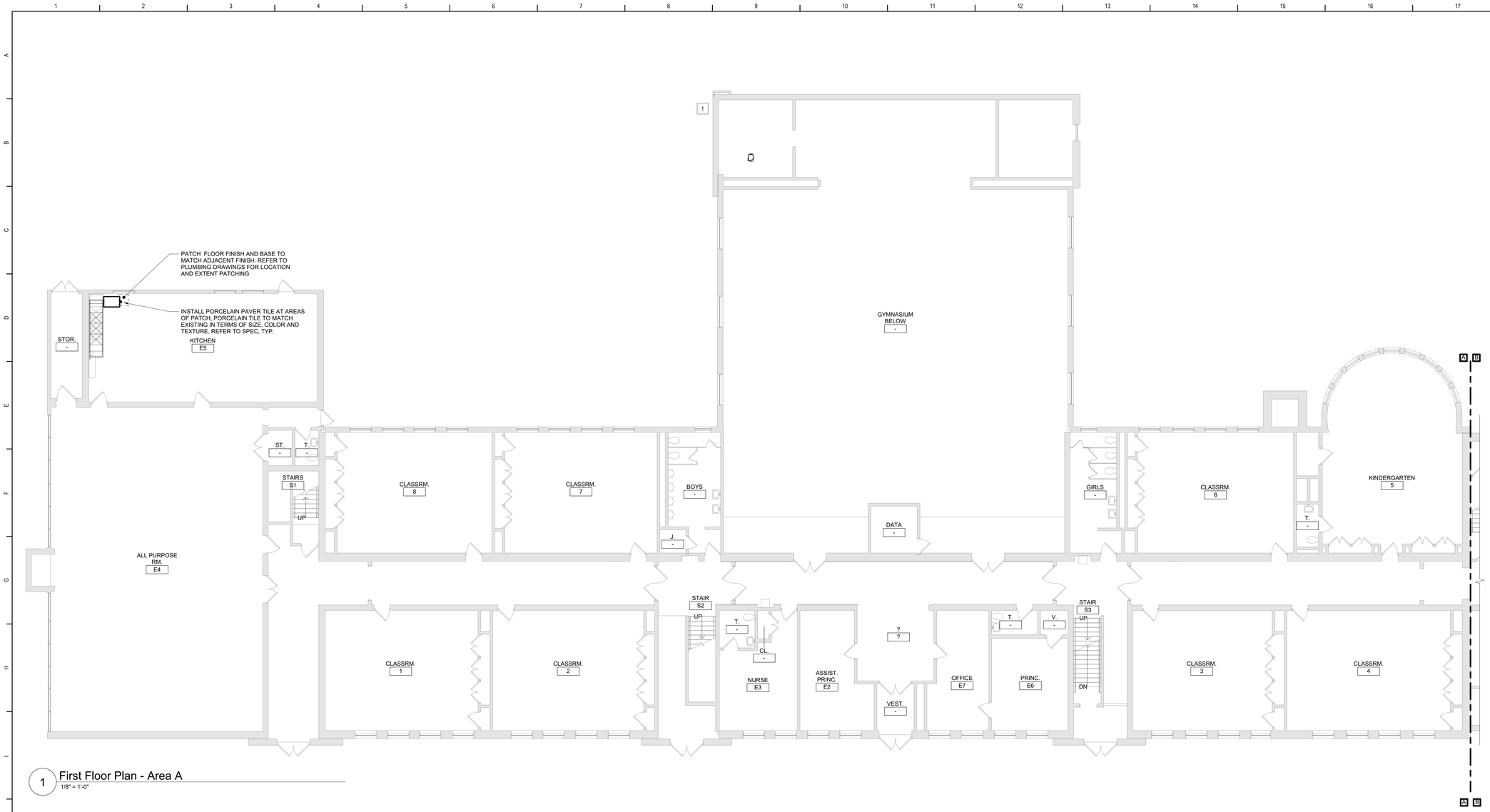
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
South Ave Elementary School

Ground Floor Plan - Area A, Door Schedule, Door and Frame Types and Details

Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	DA130
Project No.: 279180-22004		



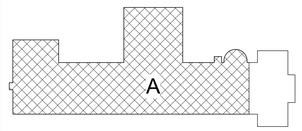
1 First Floor Plan - Area A
1/8" = 1'-0"

General Plan Notes

A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

Keyed Plan Notes

1 INSTALL LOUVER FURNISHED BY OTHERS AT NEW OPENING. COORDINATE WITH MECHANICAL DRAWINGS.



Key Plan
N.T.S.

N

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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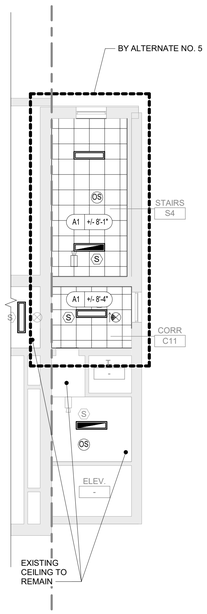
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

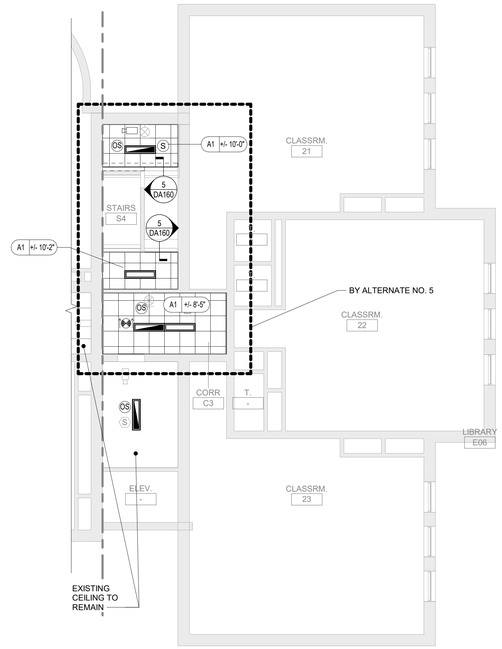
Reconstruction to:
South Ave Elementary School

First Floor Plan - Area A

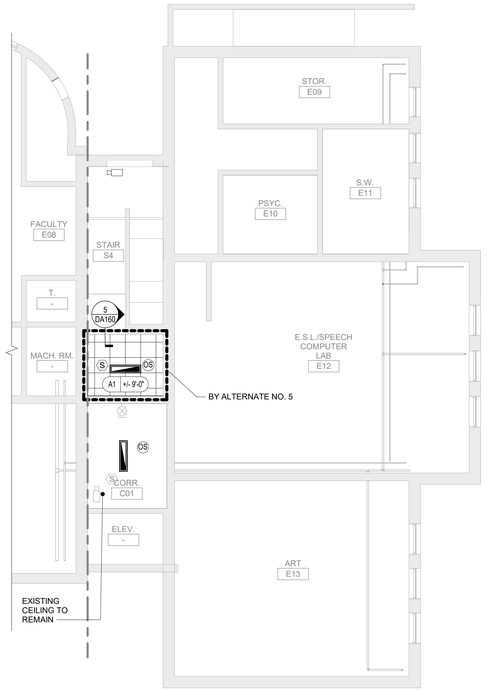
Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	DA131
Project No.: 279180-22004		



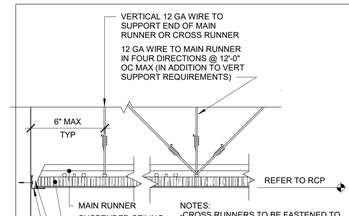
3 Second Floor - Reflected Ceiling Plan - Area B
1/8" = 1'-0"



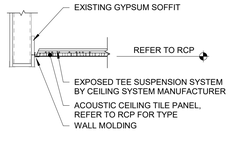
2 First Floor - Reflected Ceiling Plan - Area B
1/8" = 1'-0"



1 Ground Floor - Reflected Ceiling Plan - Area B
1/8" = 1'-0"



4 Typical Ceiling Detail
3" = 1'-0"



5 Soffit Detail
1" = 1'-0"

General Ceiling Notes

A. LIGHTING AND OTHER CEILING-MOUNTED FIXTURES ARE SHOWN FOR DRAWING CLARITY. COORDINATE ALL CEILING WORK PRIOR TO INSTALLATION OF CEILING GRID.

B. CEILING HEIGHT IS 9'-0" ABOVE FINISHED FLOOR (UNO).

C. CENTER CEILING-MOUNTED ITEMS (LIGHTS, GRILLES, DETECTORS, SPRINKLER HEAD, ETC) WITHIN THE CEILING PANELS AND GRIDS UNLESS THE PANELS ARE SCORED. CENTER ITEMS WITHIN THE PATTERN OF SCORED PANELS.

D. PROVIDE EXPANSION JOINT (EJ) COVERS IN CEILINGS AND SOFFITS AT EJ LOCATIONS.

E. PROVIDE CONTROL JOINTS IN GYPSUM BOARD CEILINGS AND SOFFITS AS DETAILED ON DRAWINGS (MAXIMUM 20'-0" OC, EVENLY SPACED, TYP UNO).

F. PATCH CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK TO MATCH ADJACENT CONSTRUCTION PRIOR TO PAINTING.

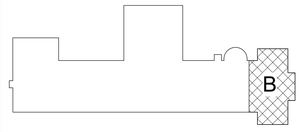
G. X 9'-0" DESIGNATES BOTTOM OF CEILING ABOVE FINISHED FLOOR AT THAT POINT UNO. DESIGNATION "ME" INDICATES MATCH EXISTING CEILING HEIGHT.

H. AT ALL LOCATIONS OF GYPSUM CEILINGS - PROVIDE 24" X 24" CONCEALED FLANGE ACCESS DOOR REGARDLESS OF LOCATION OR REQUIREMENT FOR ACCESS TO EQUIPMENT.

Ceiling Types

A1 X'-X" ACOUSTIC PANEL CEILING

NOTE: AT AREAS WITH "+/-", THE INTENT IS TO MATCH EXISTING, VERIFY IN FIELD.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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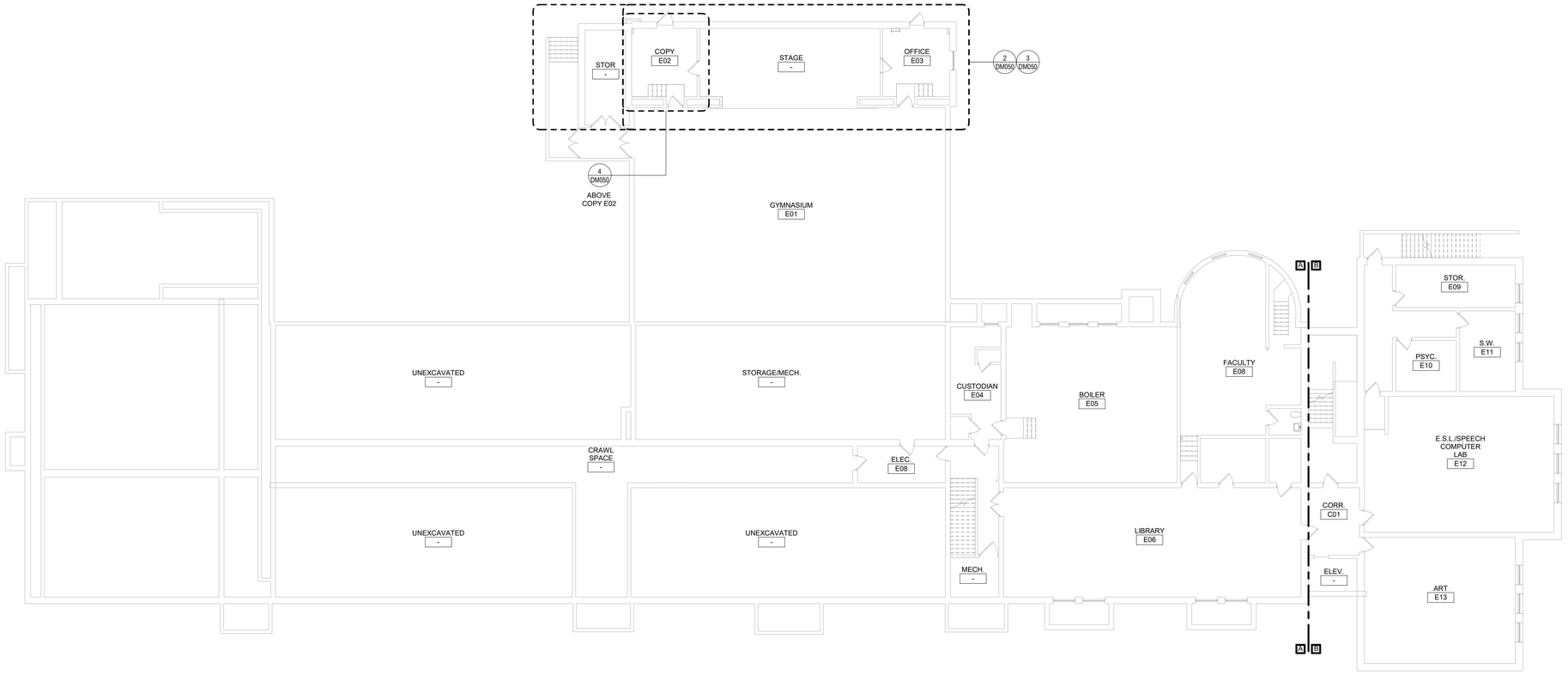
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

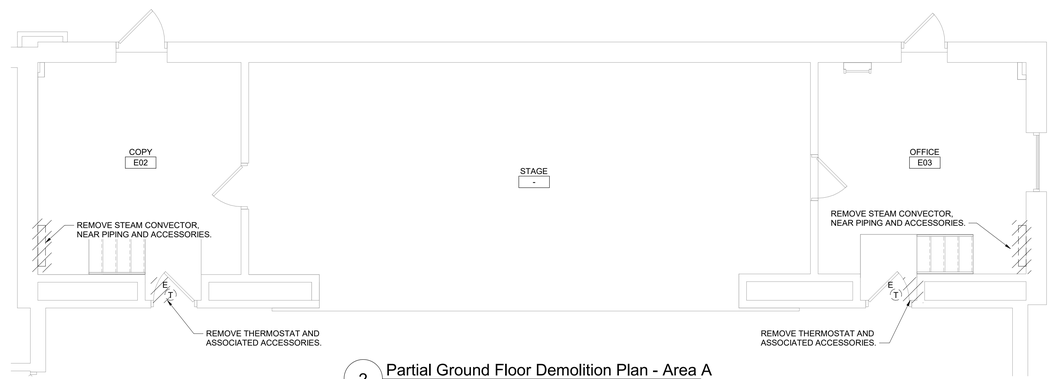
Reconstruction to:
South Ave Elementary School

Reflected Ceiling Plans

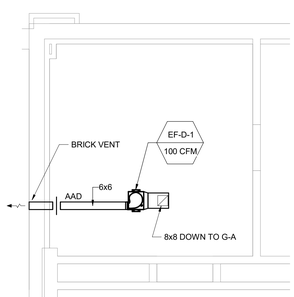
Drawn By:	Date:	Drawing Number:
TLG	10/28/2022	DA160
Project No.: 279180-22004		



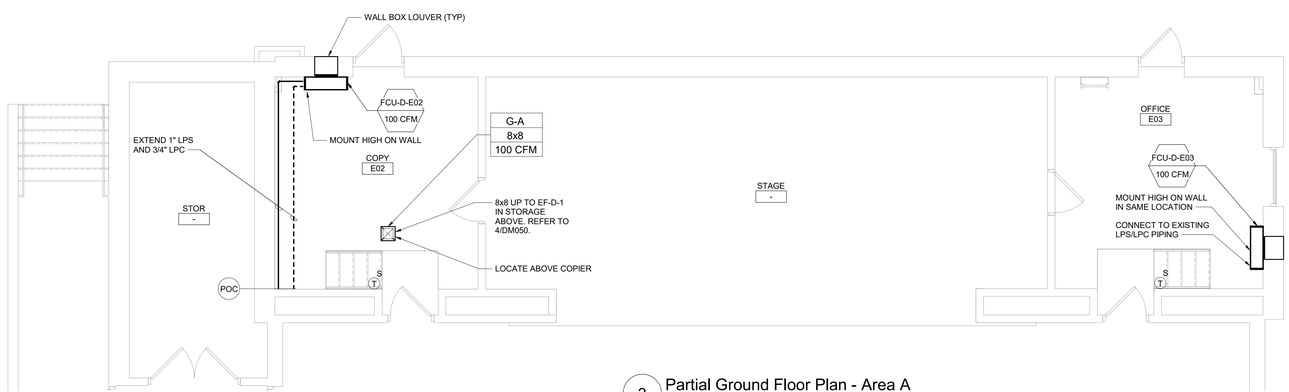
1 Ground Floor Key Plan
3/32" = 1'-0"



2 Partial Ground Floor Demolition Plan - Area A
1/4" = 1'-0"



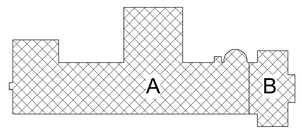
4 Storage Plan
1/4" = 1'-0"



3 Partial Ground Floor Plan - Area A
1/4" = 1'-0"

General Notes

A. THE FOLLOWING GENERAL NOTES APPLY TO ALL "DM" SERIES DRAWINGS.
B. REFER TO ALL CONTRACT DOCUMENTS; DRAWINGS AND SPECIFICATIONS, FOR DETAILED STANDARDS AND REQUIREMENTS.
C. REPORT UNSAFE OR UNSATISFACTORY CONDITIONS IN WRITING TO ARCHITECT AND RESOLVE ISSUES BEFORE PROCEEDING.
D. WORK INCLUDES ALL LABOR AND MATERIALS REQUIRED TO PROVIDE COMPLETE WORKING SYSTEMS.
E. COORDINATE PHASING REQUIREMENTS AT JOB MEETINGS AND ON WORK SCHEDULES.
F. DO NOT SCALE DRAWINGS. PIPING AND DUCTWORK ARE SHOWN DIAGRAMMATICALLY. IT IS NOT POSSIBLE TO SHOW EVERY TRANSITION, FITTING, ASPECT RATIO CHANGE, ETC.; PROVIDE AS REQUIRED TO FIT WITHIN STRUCTURAL CONSTRAINTS. EXAMINE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND VERIFY ALL ACCESS, LOCATIONS. DIMENSIONS, ARRANGEMENTS, ELECTRICAL CHARACTERISTICS AND INTERFERENCE IN THE FIELD PRIOR TO BID.
G. VERIFY EXTENT OF CEILING WORK SHOWN ELSEWHERE IN THE CONTRACT DOCUMENTS. PROVIDE FOR ADDITIONAL CEILING SYSTEM REMOVAL, PROTECTION, AND REINSTALLATION AS REQUIRED FOR CONTRACT WORK.
H. DEMOLITION DRAWINGS SHOW THE GENERAL SCOPE OF ITEMS AND SYSTEMS TO BE REMOVED. IT IS NOT THE INTENT TO SHOW ALL ITEMS TO BE REMOVED. FIELD VERIFY AND REMOVE ALL ASSOCIATED ITEMS BACK TO POINT OF CONTINUED SERVICE, UNLESS OTHERWISE NOTED. VERIFY WHAT ALL EQUIPMENT SERVES PRIOR TO REMOVAL.
I. GIVE ALL REMOVED EQUIPMENT TO THE OWNER. DELIVER ON SITE WHERE DESIGNATED BY THE OWNER. PROMPTLY REMOVE FROM THE SITE AND LEGALLY DISPOSE OF ANY SUCH ITEMS DECLINED BY OWNER.
J. IF UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL CONFLICTS ARE ENCOUNTERED, INVESTIGATE AND REPORT BOTH NATURE AND EXTENT OF THE CONFLICT. RE-ROUTE WORK AS REQUIRED.
K. CUT, DRILL, OR OTHERWISE CREATE OPENINGS AS NEATLY AS POSSIBLE, AS REQUIRED FOR THE INDICATED CONTRACT WORK. PROVIDE SUPPORT AS REQUIRED FOR AND USE METHODS LEAST LIKELY TO DAMAGE ELEMENTS TO REMAIN. PRIOR TO WORK, VERIFY LOCATIONS OF ALL STRUCTURAL MEMBERS INCLUDING CROSS BRACING, ELECTRICAL WIRING, PLUMBING, ETC. PROMPTLY NOTIFY ARCHITECT OF ANY CONFLICTS. DO NOT CUT ANY STRUCTURAL MEMBERS OR OTHER SERVICES UNTIL SPECIFICALLY DIRECTED TO DO SO. PENDING RECEIPT OF DIRECTIVE, REARRANGE SCHEDULE AS NECESSARY TO CONTINUE OVERALL JOB PROGRESS WITHOUT DELAY.
L. PATCH ALL DISTURBANCES RESULTING FROM DEMOLITION OR NEW WORK TO MATCH SURROUNDING SURFACES. PATCH FOLLOWING DEMOLITION, AND AGAIN FOLLOWING WORK. WHERE HOLES REMAIN FROM REMOVALS, INFILL AND PATCH TO MATCH UNLESS HOLE IS TO BE REUSED.
M. PROTECT ALL CONTRACT EQUIPMENT, ELEMENTS TO REMAIN, OWNER'S BELONGINGS, AND EQUIPMENT TO BE REUSED OR RETAINED BY OWNER DURING ALL CONTRACT WORK. AT NO ADDITIONAL COST TO OWNER, REPAIR OR REPLACE ITEMS WHICH ARE DAMAGED.
N. THOROUGHLY CLEAN FOLLOWING DEMOLITION AND BEFORE BEGINNING CONTRACT INSTALLATIONS. THOROUGHLY CLEAN AGAIN DURING AND FOLLOWING CONTRACT WORK AS REQUIRED. LEAVE ALL WORK AREAS CLEANER THAN FOUND. LEGALLY DISPOSE OF ALL CONSTRUCTION DEBRIS.
O. PROVIDE TEMPORARY PIPING, DUCT, HEAT, WEATHERPROOFING, ETC. TO SERVICES TO REMAIN UNTIL PERMANENT INSTALLATIONS CAN BE MADE.
P. ALL EXCESS MATERIALS AND SCRAPS ARE CONTRACTOR'S PROPERTY. PROMPTLY REMOVE FROM SITE UNLESS SPECIFICALLY DIRECTED OTHERWISE.
Q. EXISTING HVAC COMPONENTS IN THIS BUILDING MAY CONTAIN, BE IN PROXIMITY TO, OR, WORK ON THEM MAY CAUSE DISTURBANCE OF, ASBESTOS CONTAINING OR OTHER HAZARDOUS MATERIALS. REFER TO ABATEMENT SERIES DRAWINGS AND SPECIFICATIONS COMPLETE FOR ADDITIONAL INFORMATION.
R. SEAL ALL FLOOR, WALL AND CEILING PENETRATIONS PER FIRE-RESISTANCE RATINGS NOTED ON AG-SERIES DRAWINGS, BUT NOT LESS THAN 1-HOUR, AND IN ACCORDANCE WITH SECTION 07 84 13 - PENETRATION FIRESTOPPING. THIS INCLUDES ALL NEW PENETRATIONS AND EXISTING UNFIRESTOPPED PENETRATIONS CREATED BY REMOVALS, AS REQUIRED TO PERFORM THE WORK.



Key Plan
N.T.S.

N

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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BID SET

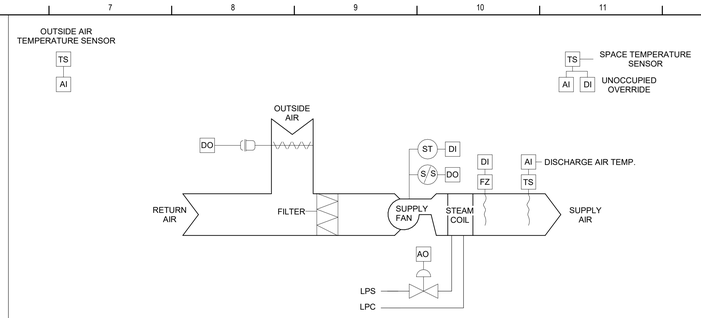
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
South Ave Elementary School

Ground Floor Floor Key, Demolition and Floor Plans

Drawn By:	Date:	Drawing Number:
JPF1/pgm	10/28/2022	DM050
Project No.: 279180-22004		



FAN COIL UNIT - STEAM - VALVE CONTROL - SEQUENCE OF OPERATIONS:

1. OCCUPIED MODE:
   a. SUPPLY FAN SHALL RUN CONTINUOUSLY.
   b. THE OUTSIDE AIR DAMPER SHALL OPEN TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY AS INDICATED. OUTSIDE AIR DAMPER SHALL NEVER BE POSITIONED BELOW THIS MINIMUM POSITION EXCEPT IN CASE OF ALARM.
   c. WHEN THE SPACE TEMPERATURE IS AT OR BELOW THE HEATING SET POINT, THE 2-WAY CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE HEATING SETPOINT SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE) AND DISCHARGE LOW LIMIT OF 70 DEG. F (ADJUSTABLE).

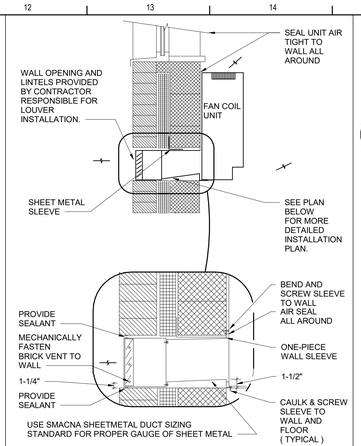
2. UNOCCUPIED MODE:
   a. THE SUPPLY FAN SHALL BE OFF.
   b. THE OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED.
   c. ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED SETPOINT, CYCLE THE FAN AND COIL CONTROL VALVE FULL OPEN AS REQUIRED TO MAINTAIN REDUCED SPACE SETPOINT, SUBJECT TO DISCHARGE HIGH LIMIT OF 110 DEG. F (ADJUSTABLE). USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.
   d. A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE). AT EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

3. WARM-UP MODE:
   a. THE UNIT SHALL START PER AN OPTIMUM START PROGRAM.
   b. THE OUTSIDE AIR DAMPER SHALL BE FULLY CLOSED.
   c. THE SUPPLY FAN SHALL RUN AND THE CONTROL VALVE SHALL MODULATE TO MAINTAIN OCCUPIED SETPOINT.

4. PURGE VENTILATION MODE:
   a. PROVIDE GLOBAL INITIATION OF PURGE VENTILATION MODE AT THE OPERATOR'S WORKSTATION SUCH THAT ONE INITIATION STARTS OR STOPS PURGE VENTILATION MODE FOR ALL EQUIPMENT SO PROGRAMMED. PROVIDE FOR GLOBAL ADJUSTMENT OF THE BELOW DESCRIBED SCHEDULING AND PERCENTAGE VENTILATION CHANGES, AND ALSO FOR LOCAL ADJUSTMENT AWAY FROM GLOBAL SETPOINTS. IF GLOBAL SETPOINTS ARE SUBSEQUENTLY RE-ADJUSTED, PROVIDE WARNING WITH A LIST OF UNITS WITH LOCAL OVERRIDES, BUT DO NOT RE-ADJUST LOCAL OVER-RIDE SETPOINTS GLOBALLY.
   b. PROVIDE A PURGE VENTILATION MODE WITH INCREASED VENTILATION AS POSSIBLE WITHIN THE LIMITS OF THE EQUIPMENT. OPERATE WITH ALL THREE MODES DESCRIBED ABOVE WITH THE FOLLOWING MODIFICATIONS TO THE OCCUPIED PERIOD.
   c. START OCCUPIED VENTILATION MODE 1 HOUR (ADJ) EARLIER AND END IT 4 HOURS (ADJ) LATER.
   d. INCREASE VENTILATION AS POSSIBLE BY 100% (ADJ) WHERE 0% INCREASE IS THE MINIMUM VENTILATION DESCRIBED ABOVE AND 100% IS 100% OUTSIDE AIR WITH NO RETURN AIR.
   e. MAINTAIN OCCUPIED SPACE TEMPERATURE AND INCREASED VENTILATION AS POSSIBLE WITHIN HEATING CAPACITY CONSTRAINTS OF LOCAL AND PLANT HEATING CAPACITY. IF SPACE TEMPERATURE DROPS MORE THAN 2 DEG. F (ADJ) BELOW SPACE HEATING SETPOINT WITH THE HEATING VALVE 100% OPEN, MODULATE VENTILATION RATE BACK TO MINIMUM SPECIFIED VENTILATION RATE DESCRIBED ABOVE WITH HEATING VALVE AT 100% OPEN.

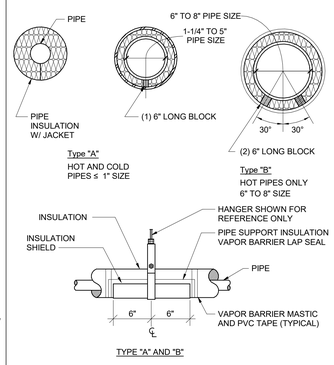
5. SAFETIES:
   a. A SEPARATE LOW LIMIT FREEZE STAT WITH AUTOMATIC RESET SHALL BE INSTALLED WITH SENSING ELEMENT SERPENTINED ACROSS THE FACE OF THE COIL, WHENEVER COIL FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJUSTABLE) THE SUPPLY FAN SHALL STOP, THE OUTSIDE AIR DAMPER SHALL CLOSE 100% AND THE CONTROL VALVE SHALL OPEN 100%. AN ALARM SHALL ALSO BE ACTIVATED.
   b. UPON FAILURE OF THE FAN, AS SENSED BY THE CURRENT SENSING STATUS SWITCH, ACTIVATE AN ALARM.

5 FCU - Steam - Valve Control - With Outside Air
NTS

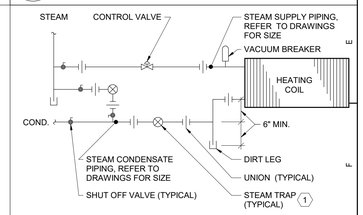


NOTE: SLEEVE WIDTH = WALL DEPTH MINUS LOUVER DEPTH MINUS 3/8".

4 Fan Coil Unit Detail
NTS



1 Pipe Insulation
NTS

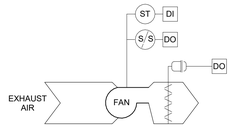


(1) STEAM TRAP SIZED TO 3 TIMES COIL CAPACITY UNLESS OTHERWISE NOTED. FLOAT & THERMOSTATIC TYPE ABOVE 10 MBH, THERMOSTATIC TYPE UNDER 10 MBH.

NOTE:
GENERIC SYMBOL USED TO SHOW VALVE LOCATION(S). REFER TO SPECIFICATIONS FOR EXACT VALVE TYPE.

(Valve Control)

2 Steam Coil Piping Schematic
NTS



EXHAUST FAN - CONSTANT SPEED - SEQUENCE OF OPERATIONS:

INTERLOCK THE OPERATION OF THE EXHAUST FANS AND AUTOMATIC DAMPERS WITH THEIR RESPECTIVE HEATING AND COOLING EQUIPMENT.

1. OCCUPIED MODE:
   a. THE EXHAUST FAN SHALL RUN CONTINUOUSLY AND THE AUTOMATIC AIR DAMPER SHALL OPEN.

2. UNOCCUPIED MODE:
   a. THE EXHAUST FAN SHALL BE OFF AND THE AUTOMATIC AIR DAMPER SHALL BE CLOSED.

3. WARM-UP MODE:
   a. THE EXHAUST FAN SHALL BE OFF AND THE AUTOMATIC AIR DAMPER SHALL BE CLOSED.

4. SAFETIES:
   a. UPON A FAILURE OF THE FAN, AS SENSED BY A CURRENT SENSING STATUS SWITCH, AN ALARM SHALL BE ACTIVATED.

3 Exhaust Fan - Constant Speed
NTS

TEMPERATURE CONTROLS SYMBOLS LIST

AI	ANALOG IN
AO	ANALOG OUT
COM	COMMUNICATIONS PORT
CS	AIRBORNE CONTAMINANT SENSOR
DI	DIGITAL IN
	DAMPER MOTOR
DO	DIGITAL OUT
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
F	FLOW (WATER/AIR)
FM	FLOW METER
FS	AIR FLOW SENSOR
FZ	FREEZE STAT
H	HUMIDITY SENSOR
HL	HIGH LIMIT
KWH	KILOWATT HOUR METER
LL	LOW LIMIT
M/S	MANUAL SWITCH STOP / START
P	PRESSURE SENSOR
ΔP	DIFFERENTIAL PRESSURE
PS	POSITION SENSOR
S/S	STOP / START
SD	SMOKE DETECTOR
ST	STATUS
START	STARTER
T	ADJUSTABLE THERMOSTAT
TS	TEMPERATURE SENSOR
VFD	VARIABLE FREQUENCY DRIVE
WS	WATER SENSOR
%	PERCENT
ES	END SWITCH
BS	BOILER SWITCH

SOUTH AVE BUILDING/EQUIPMENT VENTILATION CALCULATIONS

EQUIPMENT NUMBER	ZONE ID				MINIMUM VENTILATION RATES								
	ROOM NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	Az - AREA (SF)	Pz - ZONE OCCU. #/1000 FT	ZONE OCCU.	Rp (CFM/ Person)	RpP	Ra (CFM/SF)	RaA	Vbz (CFM)	EZ	Voz (CFM)
FCU-D-E02	E02	COPY	Office Space	189	5	1	5	5	0.06	11	16	1	20
FCU-D-E03	E03	OFFICE	Office Space	194	5	1	5	5	0.06	12	17	1	20

NOTES:
Rp = PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW ,
Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW

FAN COIL UNIT (FCU) SCHEDULE

DWG LABEL	LOCATION	MODEL NO.	SA CFM	MIN. OA	HEATING DATA NO. ROW	EAT (°F)	LAT (°F)	CAP. (MBH)	STEAM PRESS. (PSI)	SUPPLY FAN ESP (IN. WG.)	RPM	ELECTRICAL MOTOR SIZE (HP)	V/PH	FLA	MCA	MOP	NOTES
FCU-D-E02	COPY E-02	FFFB020	100	20	1	56.2	153.3	10.5	2	0.00		0.03	120V/1ø	2.2	2.8	15	1-6
FCU-D-E03	OFFICE E-03	FFFB020	100	20	1	56.2	153.3	10.5	2	0.00	730	0.03	120V/1ø	2.2	2.8	15	1-6

NOTES:
1. DESIGN BASIS: TRANE
2. VERTICAL WALL HUNG CABINET UNIT
3. PROVIDE 1" MERV13 FILTER.
4. PROVIDE NEMA 1 DISCONNECT SWITCH.
5. VERIFY PIPE AND ELECTRICAL LEFT/RIGHT HAND CONNECTIONS PRIOR TO ORDERING.
6. PROVIDE FRONT BOTTOM INLET, FRONT TOP OUTLET AND BACK FRESH AIR INTAKE WITH WALL BOX LOUVER.

FAN (EF) SCHEDULE

DWG LABEL	SERVES	TYPE	MODEL NO.	FAN DATA CFM	SP (IN WG)	SONES	RPM	TIP SPEED (FPM)	DRIVE	BHP	ELECTRICAL HP	V/PH	NOTES
EF-D-1	COPY E02	IN-LINE CENTRIFUGAL	GN-148	100	0.40	2.0	980	1960	DIRECT	41W	1/8	120 V/1ø	1-4

NOTES:
1. DESIGN BASIS: LOREN COOK
2. PROVIDE 4" WALL BRICK VENT.
3. PROVIDE NEMA 1 DISCONNECT.
4. SONES, TIP SPEED AND BHP ARE MAXIMUM ALLOWABLE. CFM, SP AND OPENING ARE MINIMUM ALLOWABLE.

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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

BID SET

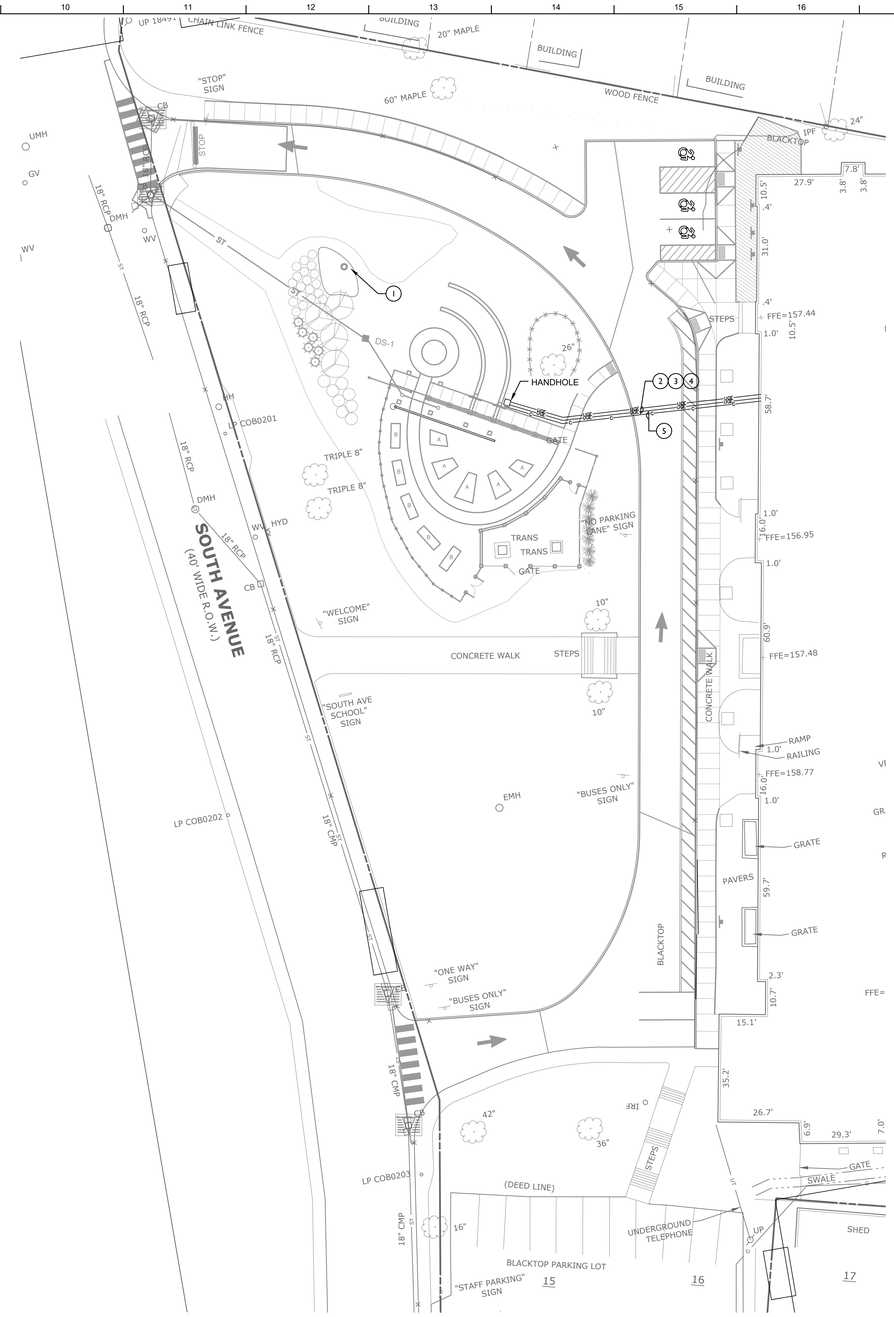
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
South Ave Elementary School

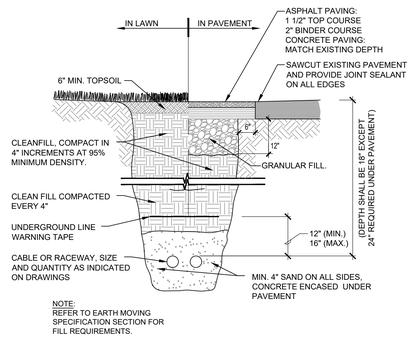
Details, Schedules and Controls

Drawn By: JPF1/pgm
Date: 10/28/2022
Project No.: 279180-22004
Drawing Number: DM500



1 Electrical Site Plan - Outdoor Classroom
1" = 20'

0 10' 20' 40'
SCALE: 1" = 20'



2 Underground Cable and Raceway Trench Detail
N.T.S.

General Site Notes

1. REFER TO DRAWING DE100 FOR GENERAL NOTES.

Keyed Notes

1. PROVIDE SOLAR FLAG POLE LIGHT BASE ON MODEL 1980 LM BY LIGHTING SOLUTIONS.
2. PROVIDE (2)#12, (1)#12 G IN 1/2" CONDUIT FROM 120V PANEL IN ELEC 08 TO HANDHOLE, THEN TO GFCI RECEPTACLES. SEE DRAWINGS DE130 AND DE131 FOR MORE INFORMATION.
3. PROVIDE (2)#12, (1)#12 G IN 1/2" CONDUIT FROM 120V PANEL IN ELEC 08 TO HANDHOLE, THEN TO LUMINAIRES. SEE DRAWINGS DE130 AND DE131 FOR MORE INFORMATION.
4. PROVIDE 1" SPARE CONDUIT FROM INSIDE BUILDING TO HANDHOLE FOR FUTURE USE.
5. PROVIDE WATERPROOF CAT 6A CABLE IN 1" CONDUIT FROM NEAREST DATA RACK INSIDE BUILDING TO WIRELESS ACCESS POINT. SEE DRAWING DE131 FOR MORE INFORMATION.

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
South Ave Elementary School

Electrical Site Plans

Drawn by: SAS	Date: 10/28/2022	Drawing No.: DE001
Project No.: 279180-22004.1		

Keyed Notes:

1. REMOVE LUMINAIRE(S) AND CIRCUITRY COMPLETE BACK TO SOURCE.
2. REMOVE WALL OR CEILING MOUNTED EMERGENCY LIGHT. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.
3. REMOVE LIGHT SWITCH(ES) CONTROLLING CORRIDOR LUMINAIRES. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT. PROVIDE BLANK COVER PLATE.
4. REMOVE, CLEAN AND STORE CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. TAG CIRCUITRY FOR RE-USE.

Demolition General Notes

A. ALL ELECTRICAL DEVICES INTERFERING WITH DEMOLITION WORK SHALL BE DISCONNECTED AND REMOVED, UNLESS OTHERWISE NOTED. EXISTING CIRCUIT WIRING SHALL BE REMOVED BACK TO SOURCE AND PANEL DIRECTORIES MODIFIED ACCORDINGLY.

B. ANY DEVICE INTERFERING WITH DEMOLITION WORK NOT SHOWN ON THESE DRAWINGS SHALL NOT BE REMOVED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE OR THE ENGINEER.

C. ALL ELECTRICAL DEMOLITION WORK SHALL BE PROPERLY COORDINATED WITH ALL OTHER TRADES.

D. EC IS SOLELY RESPONSIBLE FOR THE SAFE HANDLING AND DISPOSAL OF ALL REMOVED LUMINAIRES AND BALLASTS THAT MAY CONTAIN PCBs (POLYCHLORINATED BIPHENYLS), IN ACCORDANCE WITH ALL APPLICABLE EPA, OSHA, FEDERAL, STATE, AND LOCAL CODES AND LAWS.

E. EC IS SOLELY RESPONSIBLE FOR THE SAFE HANDLING AND DISPOSAL OF ALL REMOVED FLUORESCENT LIGHT TUBES THAT MAY CONTAIN MERCURY, IN ACCORDANCE WITH ALL APPLICABLE EPA, OSHA, FEDERAL, STATE, AND LOCAL CODES AND LAWS.

F. AT ALL CORRIDORS WHERE NEW CEILINGS ARE BEING INSTALLED, DISCONNECT AND REMOVE DEVICES AS INDICATED, TAG EXISTING WIRING FOR REUSE.

G. ALL DEVICES THAT ARE SCHEDULED TO BE REMOVED, CLEANED, STORED AND RE-INSTALLED SHALL BE TESTED PRIOR TO REMOVAL. IF ANY DEVICES IS NOT IN WORKING ORDER, NOTIFY ENGINEER AND OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.

General Notes

A. COORDINATE ALL ELECTRICAL WORK AND POWER OUTAGES WITH OWNER AND OTHER TRADES PRIOR TO THE START OF CONSTRUCTION. NO POWER OUTAGES SHALL OCCUR WITHOUT OWNER'S PRIOR KNOWLEDGE AND CONSENT.

B. REFER TO DRAWING G100 FOR STANDARD SYMBOLS AND ABBREVIATIONS.

C. AT ALL CORRIDORS WHERE NEW CEILINGS ARE BEING INSTALLED, REINSTALL DEVICES ON NEW CEILINGS AS SHOWN ON NEW WORK DRAWINGS AND EXTEND/MODIFY EXISTING CIRCUITRY AS NECESSARY.

D. CIRCUIT EXIT AND EMERGENCY LUMINAIRES TO UNSWITCHED HOT LEG OF LIGHTING CIRCUIT OF THE AREA BEING SERVED BY OR ADJACENT TO THE LUMINAIRE. REFER TO PLANS AND DETAILS FOR MINIATURE INVERTER INFORMATION.

E. ANY EXISTING CEILING DEVICE(S) IN CONFLICT WITH NEW WORK SHALL BE RELOCATED AND CENTERED IN ADJACENT CEILING TILE. EXTEND/MODIFY EXISTING CIRCUITRY AND CONTROLS AS NECESSARY.

F. CIRCUIT WIRING FOR ALL LIGHTING CIRCUITS SHALL BE IN 1/2" EMT CONDUIT (MIN) OR TYPE MC CABLE CONCEALED ABOVE CEILINGS AND IN WALLS (REFER TO SPECIFICATION SECTION 26 05 33 FOR LOCATIONS WHERE MC CABLE IS ACCEPTABLE). ALL CIRCUIT CONDUCTORS SHALL BE #12AWG COPPER (MIN) 90°C THHN THERMOPLASTIC INSULATION.

G. PROPERLY IDENTIFY ALL CIRCUITS AT PANELS AND J-BOXES AND IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

H. PROVIDE ALL ADAPTERS, COUPLINGS AND ASSOCIATED FITTINGS REQUIRED FOR COMPLETE OPERATIONAL SYSTEM.

I. WHEN INSTALLING NEW DEVICES IN EXISTING LOCATIONS, REUSE EXISTING CONDUIT/RACEWAY AND BACK BOXES IF IN GOOD CONDITION. EXTEND/INSTALL NEW CONDUIT/RACEWAY AS REQUIRED FOR PROPER MOUNTING OF DEVICE. CONCEAL ABOVE CEILINGS OR WITHIN WALLS WHERE POSSIBLE. REFER TO SPECIFICATION SECTION 26 05 33.

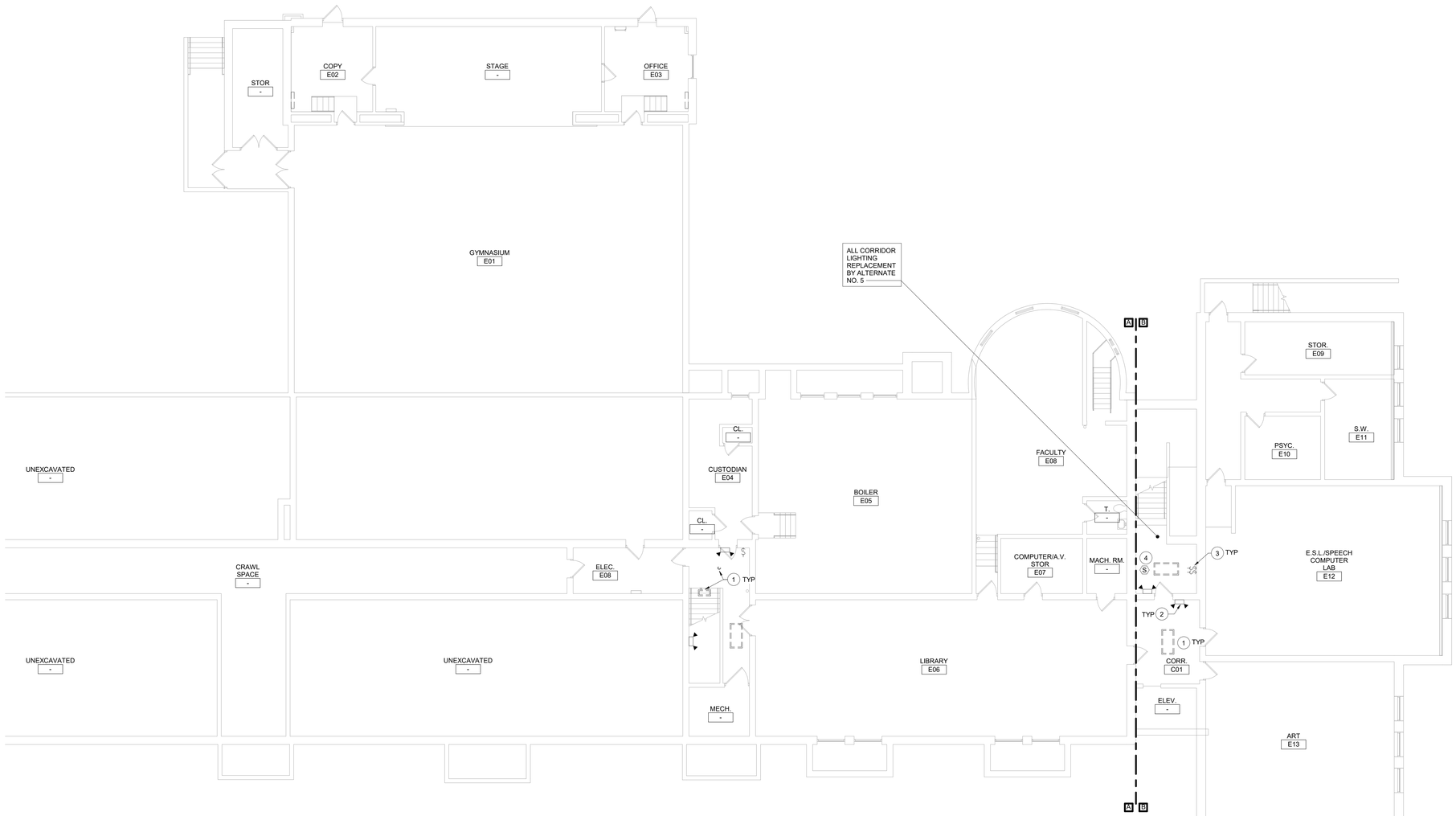
J. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.

K. TESTS OF ALL ELECTRICAL WORK SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER OR ARCHITECT, AS EQUIPMENT IS INSTALLED AND AS SYSTEMS ARE COMPLETED. IN ADDITION AN ELECTRIC APPROVED CERTIFICATE SHALL BE ISSUED BY AN ELECTRICAL INSPECTION AGENCY.

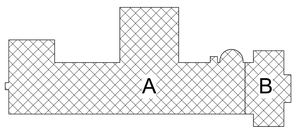
L. UNLESS NOTED ELSEWHERE ON THE CONTRACT DOCUMENTS, THE FOLLOWING LIST REPRESENTS THE TYPICAL MOUNTING HEIGHTS FOR THE DEVICES SHOWN:

1. SWITCHES AND PANIC STATIONS.....48" (TO TOP)
2. RECEPTACLES.....16"
3. COMPUTER RECEPTACLES.....48" (TO TOP)
4. WALL (W) TELEPHONE AND CALL SWITCHES.....48" (TO TOP)
5. TELEPHONE OUTLETS (UNLABELED).....16"
6. VOLUME CONTROLS.....48" (TO TOP)
7. TELEVISION OUTLETS.....16"
8. FIRE ALARM PULL STATIONS.....48" (TO TOP)
9. FIRE ALARM AUDIO/VISUAL UNITS.....88" (OR 6" BELOW CEILING, WHICHEVER IS LOWER)
10. POWER PANELS.....72" (TO TOP)
11. DISCONNECT SWITCHES.....60" (TO TOP)
12. MOTOR STARTERS.....60" (TO TOP)

THE HEIGHTS INDICATED SHALL BE NOMINAL TO THE BOTTOM OF THE BOX UNLESS NOTED OTHERWISE. MAINTAIN HEIGHT CONSISTENCY BETWEEN NEW AND EXISTING DEVICES.



1 Ground Floor Demolition Plan - Areas A and B
1/8" = 1'-0"



Key Plan
N.T.S.

N

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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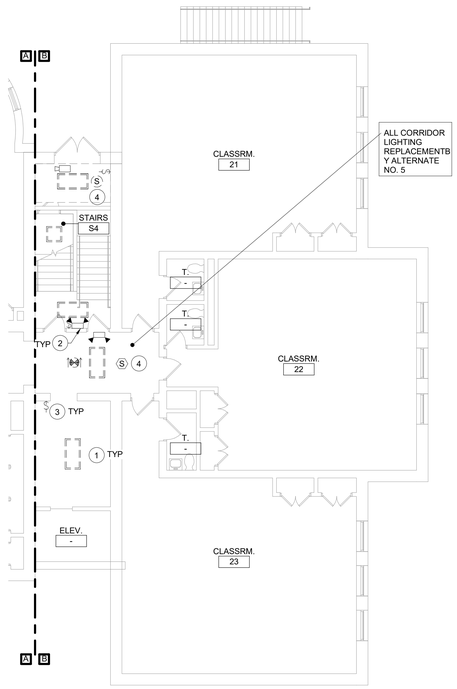
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

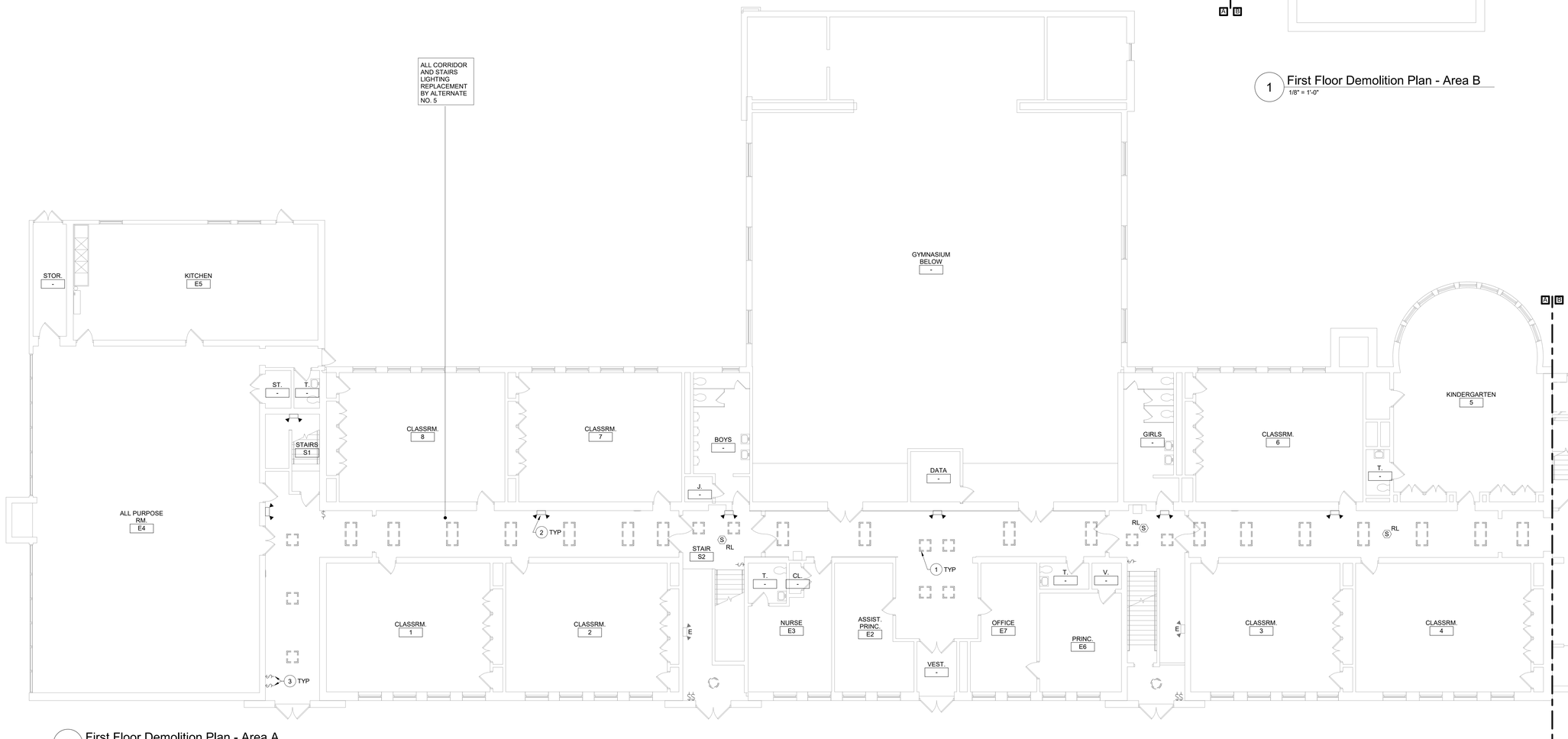
Reconstruction to:
South Ave Elementary School

Ground Floor Demolition Plan - Areas A and B

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	DE100
Project No.: 279180-22004		



1 First Floor Demolition Plan - Area B
1/8" = 1'-0"



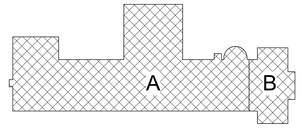
2 First Floor Demolition Plan - Area A
1/8" = 1'-0"

Keyed Notes:

1. REMOVE LUMINAIRE(S) AND CIRCUITRY COMPLETE BACK TO SOURCE.
2. REMOVE WALL OR CEILING MOUNTED EMERGENCY LIGHT. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.
3. REMOVE LIGHT SWITCH(ES) CONTROLLING CORRIDOR LUMINAIRES. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT. PROVIDE BLANK COVER PLATE.
4. REMOVE, CLEAN AND STORE CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. TAG CIRCUITRY FOR RE-USE.

General Notes:

A. REFER TO DRAWING DE100 FOR GENERAL NOTES



Key Plan
N.T.S.

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S.E.D. Control No. 13-02-00-01-0-003-016

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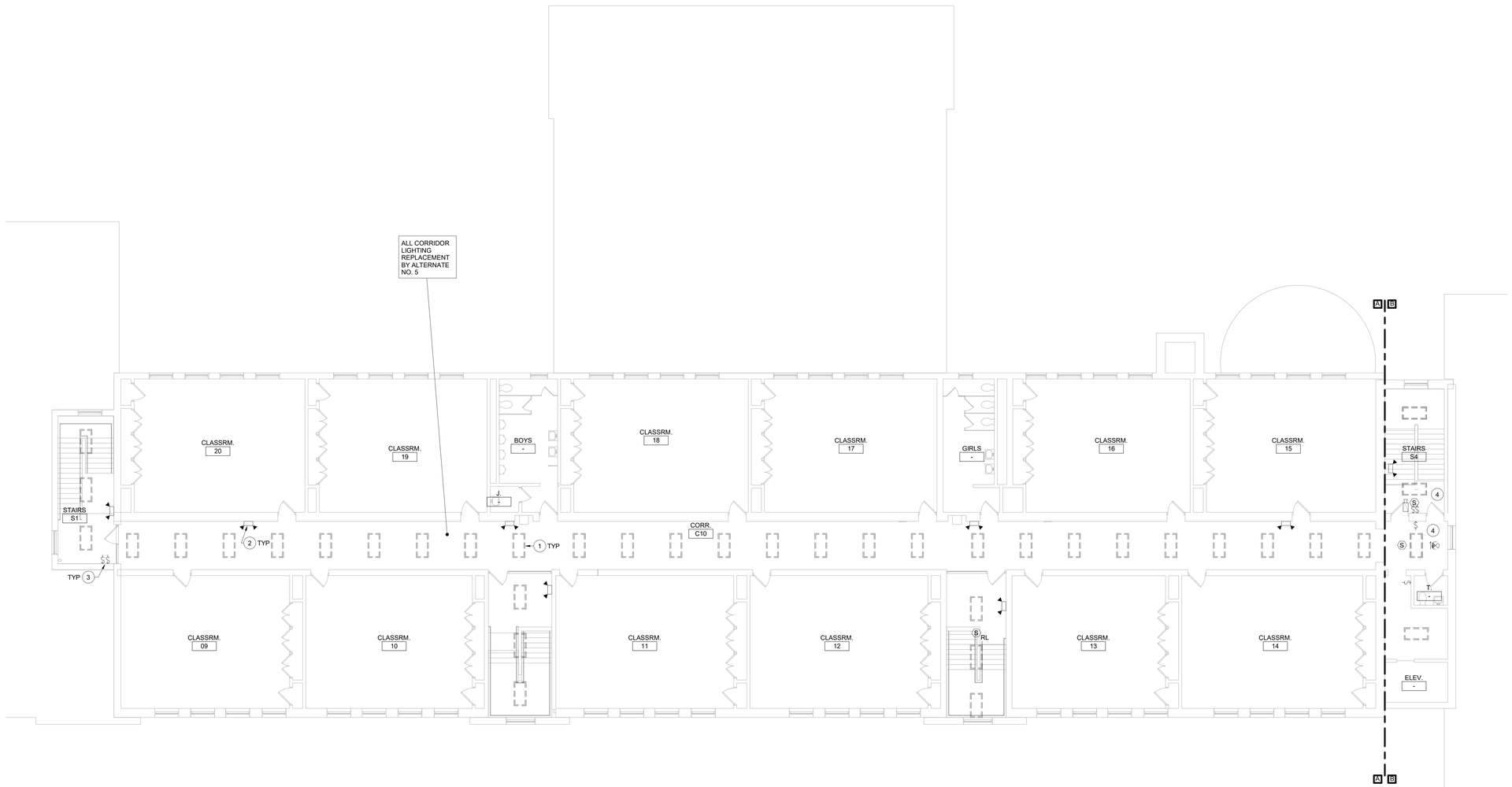
Beacon, New York

Reconstruction to:
South Ave Elementary School

First Floor Demolition Plan - Areas A and B

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	DE101
Project No.: 279180-22004		



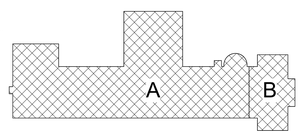
1 Second Floor Demolition Plan
1/8" = 1'-0"

Keyed Notes:

1. REMOVE LUMINAIRE(S) AND CIRCUITRY COMPLETE BACK TO SOURCE.
2. REMOVE WALL OR CEILING MOUNTED EMERGENCY LIGHT. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT.
3. REMOVE LIGHT SWITCH(ES) CONTROLLING CORRIDOR LUMINAIRES. REMOVE EXISTING CIRCUITRY BACK TO NEAREST JUNCTION BOX OR DEVICE OUTSIDE OF DEMOLITION AREA. MODIFY EXISTING SYSTEM CIRCUITRY TO ALLOW FOR PROPER OPERATION OF REMAINING DEVICES ON CIRCUIT. PROVIDE BLANK COVER PLATE.
4. REMOVE, CLEAN AND STORE CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. TAG CIRCUITRY FOR RE-USE.

General Notes:

A. REFER TO DRAWING DE100 FOR GENERAL NOTES



Key Plan
N.T.S.

N

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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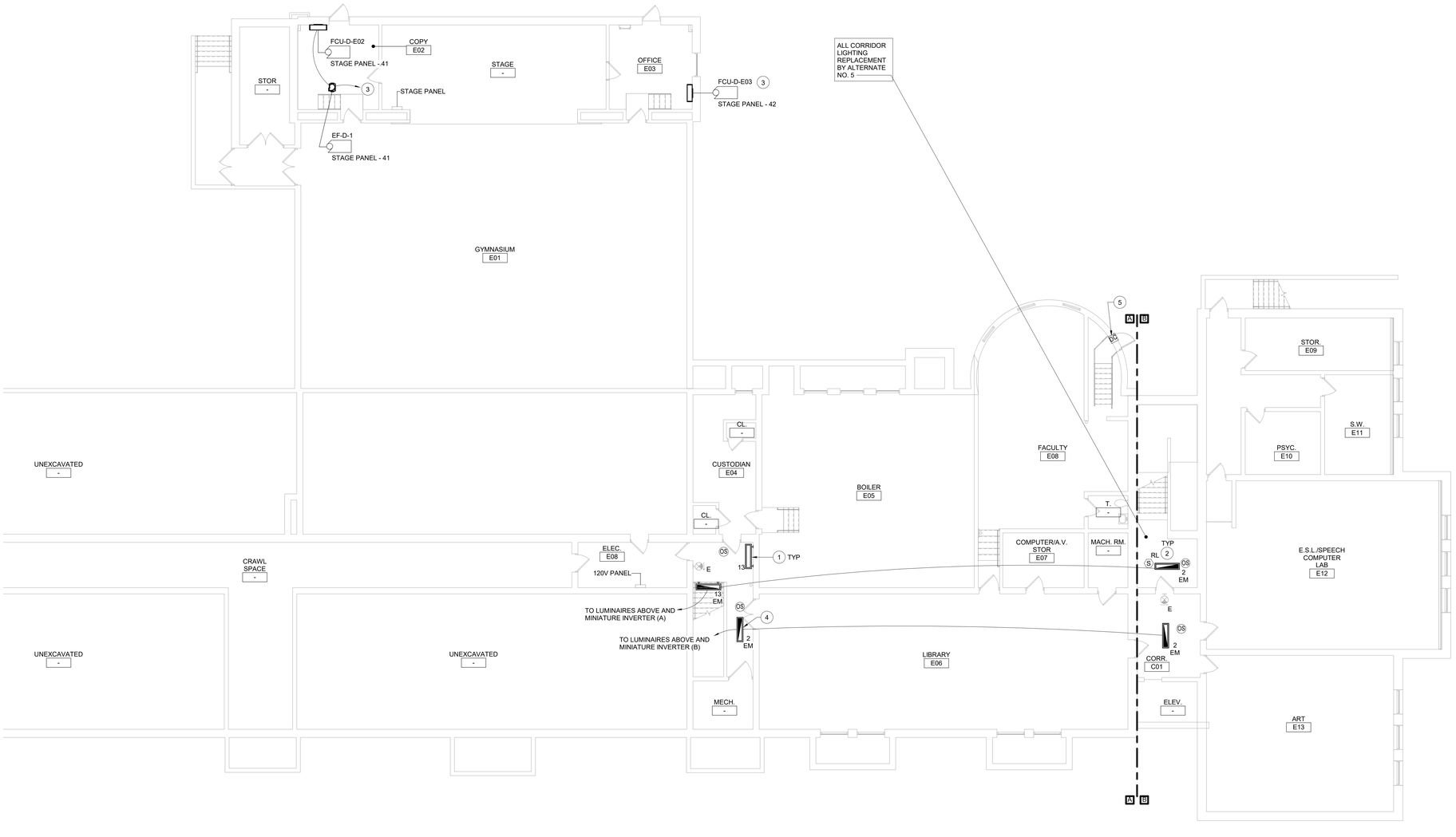
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
South Ave Elementary School

Second Floor Demolition Plan

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	DE102
Project No.: 279180-22004		



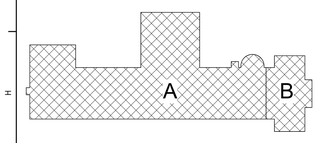
1 Ground Floor Lighting and Power Plan - Area A and B
1/8" = 1'-0"

Keyed Notes:

1. CONNECT LUMINAIRES TO EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING THE AREA USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. LUMINAIRES TO BE CONTROLLED BY OCCUPANCY SENSORS AND DIRECT DIGITAL CONTROL SYSTEM.
2. RE-INSTALL STORED CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. CENTER DEVICES IN CEILING GRID CLOSEST TO EXISTING LOCATION. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
3. PROVIDE 20A1P BREAKER IN AVAILABLE SPACE IN STAGE PANEL. CONNECT USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. NEW BREAKER TO BE UL LISTED FOR USE IN PANEL AND MEET OR EXCEED AIC RATING OF EXISTING PANEL. AMEND PANEL DIRECTORY ACCORDINGLY.
4. PROVIDE SURFACE MOUNT KIT FOR LUMINAIRE.
5. PROVIDE DOOR CONTACT FOR MONITORING OF DOOR, TIE INTO EXISTING BUILDING MONITORING SYSTEM.

General Notes:

A. REFER TO DRAWING DE050 FOR GENERAL NOTES.
B. REFER TO DRAWING DE500 FOR LUMINAIRE SCHEDULE.
C. SECURE ALL EXISTING UNSUPPORTED CABLES ABOVE CEILINGS IN CORRIDORS USING J HOOKS OR CABLETRAYS.
D. PATCH/REPLACE CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK.
E. INVERTER SYSTEM EMERGENCY OUTPUT CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT SYSTEMS AND NOT SHARED WITH OTHER ELECTRICAL CIRCUITS AS DESCRIBED IN NEC 700-9(B).
F. LIGHTING CONTROL SEQUENCES:
LOBBY/VESTIBULES/CORRIDORS:
PERSON ENTERS THE AREA, LUMINAIRES TURN ON TO 100% OUTPUT AUTOMATICALLY BY OCCUPANCY SENSOR.
PERSON EXITS THE AREA, LUMINAIRES DIM TO 50% OUTPUT (MAINTAINING EGRESS LEVEL ILLUMINATION) . MANUAL CONTROL BY BUILDING MANAGEMENT SYSTEM.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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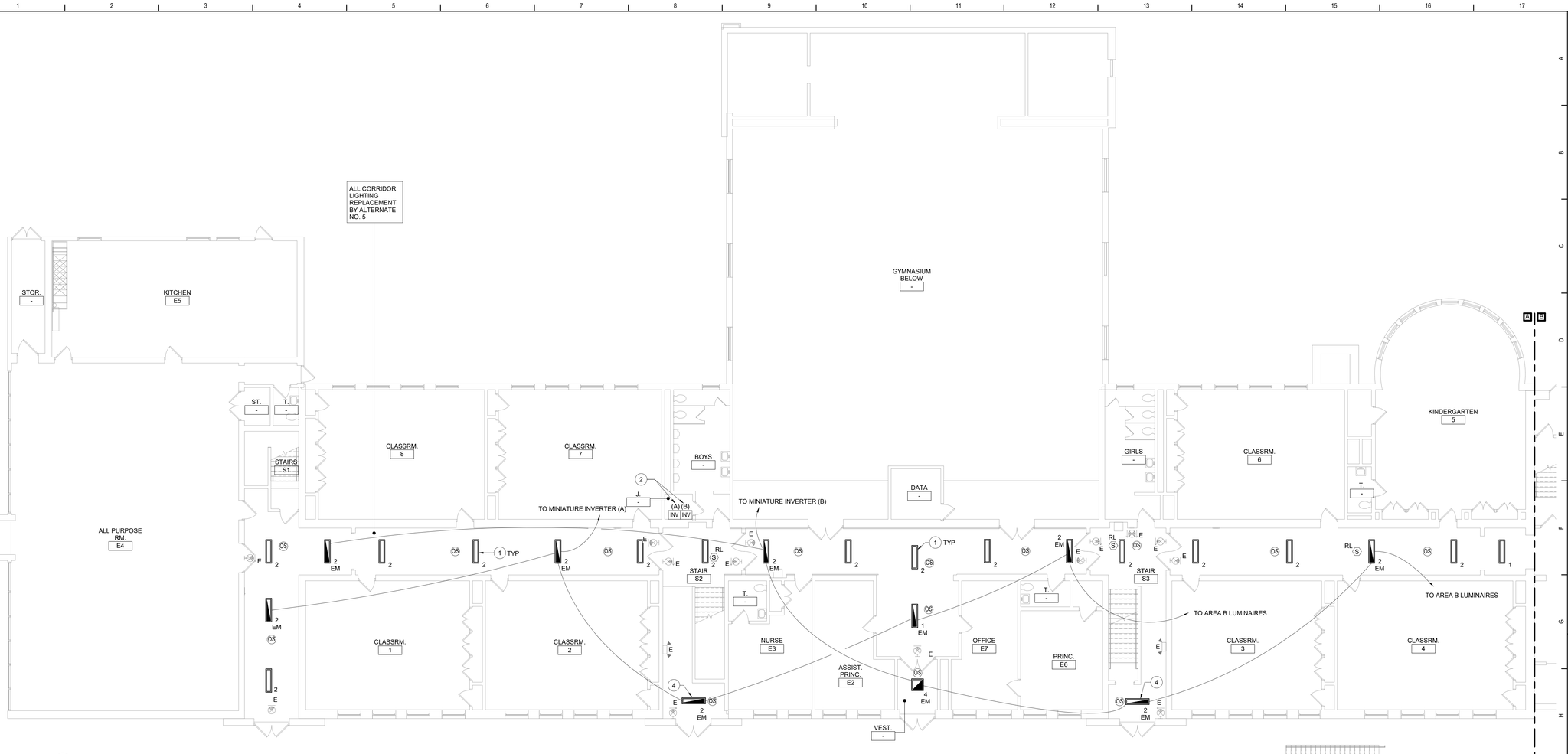
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

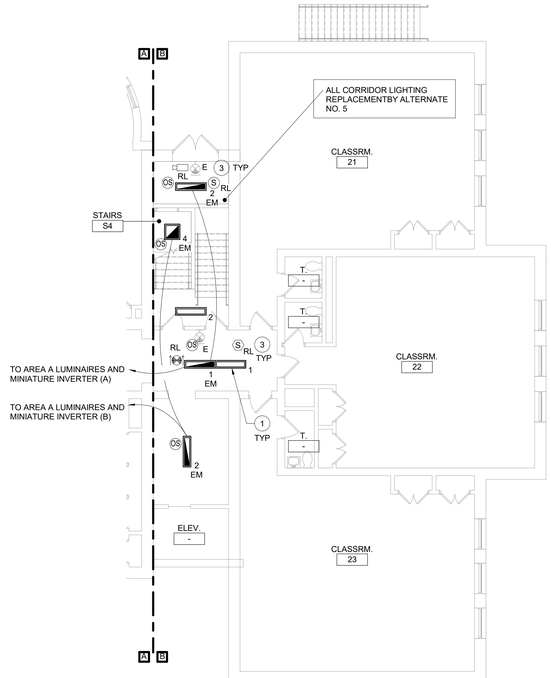
Reconstruction to:
South Ave Elementary School

Ground Floor Floor Lighting Plan - Areas A and B

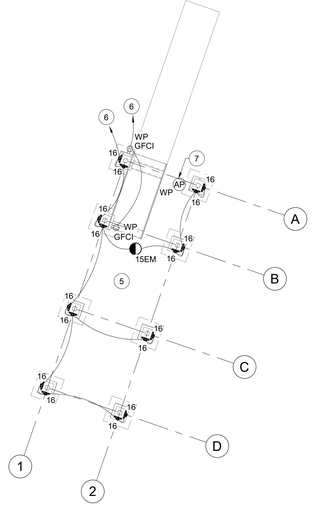
Drawn By:	Date:	Drawing Number:
SAS/CR	10/28/2022	DE130
Project No.: 279180-22004		



1 First Floor Lighting Plan - Area A
1/8" = 1'-0"



2 First Floor Lighting Plan - Area B
1/8" = 1'-0"



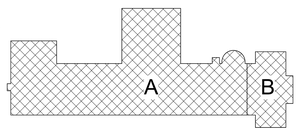
3 First Floor Lighting and Power Plan - Outdoor Classroom
1/8" = 1'-0"

Keyed Notes:

1. CONNECT LUMINAIRES TO EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING THE AREA USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. LUMINAIRES TO BE CONTROLLED BY OCCUPANCY SENSORS AND DIRECT DIGITAL CONTROL SYSTEM.
2. PROVIDE WALL MOUNTED MINIATURE INVERTER BASED ON MODEL VESTA MAX MODEL VST-MAX-375W-UNV-4CK. MOUNT AT 72" AFF. COORDINATE FINAL LOCATION WITH OWNER. CONNECT EVERY OTHER EMERGENCY LUMINAIRE PER CORRIDOR TO ADJACENT INVERTER TO AVOID TOTAL OUTAGE UPON BATTERY FAILURE. REFER TO WIRING DIAGRAM ON DRAWING DE500.
3. RE-INSTALL STORED CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. CENTER DEVICES IN CEILING GRID CLOSEST TO EXISTING LOCATION. MODIFY/EXTEND CIRCUITRY AS NECESSARY.
4. PROVIDE SURFACE MOUNT KIT FOR LUMINAIRE.
5. PROVIDE PHOTOCELL, MOUNT ON EDGE OF CANOPY FACING NORTH. CONNECT SCONCES AND CANOPY LUMINAIRES WITH (2)#12,(1)#12G IN 3/4" CONDUIT TO HANDHOLE LOCATION.
6. PROVIDE 20A1P BREAKER IN AVAILABLE SPACE IN 120V PANEL IN ELEC ROOM (SEE SHEET DE130). CONNECT USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. NEW BREAKER TO BE UL LISTED FOR USE IN PANEL AND MEET OR EXCEED AIC RATING OF EXISTING PANEL. AMEND PANEL DIRECTORY ACCORDINGLY. SEE SHEET DE001 FOR UNDERGROUND CONDUIT LOCATION.
7. PROVIDE WIRELESS ACCESS POINT IN WEATHERPROOF COVER. PROVIDE WATERPROOF CAT 6 CABLE FROM NEAREST DATA RACK IN BUILDING TO WIRELESS ACCESS POINT. SEE SHEET DE001 FOR MORE INFORMATION.

General Notes:

A. REFER TO DRAWING DE050 FOR GENERAL NOTES.
B. REFER TO DRAWING DE500 FOR LUMINAIRE SCHEDULE.
C. SECURE ALL EXISTING UNSUPPORTED CABLES ABOVE CEILINGS IN CORRIDORS USING J HOOKS OR CABLETRAYS.
D. PATCH/REPLACE CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK.
E. INVERTER SYSTEM EMERGENCY OUTPUT CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT SYSTEMS AND NOT SHARED WITH OTHER ELECTRICAL CIRCUITS AS DESCRIBED IN NEC 700-9(B).
F. LIGHTING CONTROL SEQUENCES:
LOBBY/VESTIBULES/CORRIDORS:
PERSON ENTERS THE AREA, LUMINAIRES TURN ON TO 100% OUTPUT AUTOMATICALLY BY OCCUPANCY SENSOR. PERSON EXITS THE AREA, LUMINAIRES DIM TO 50% OUTPUT (MAINTAINING EGRESS LEVEL ILLUMINATION) . MANUAL CONTROL BY BUILDING MANAGEMENT SYSTEM.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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BID SET

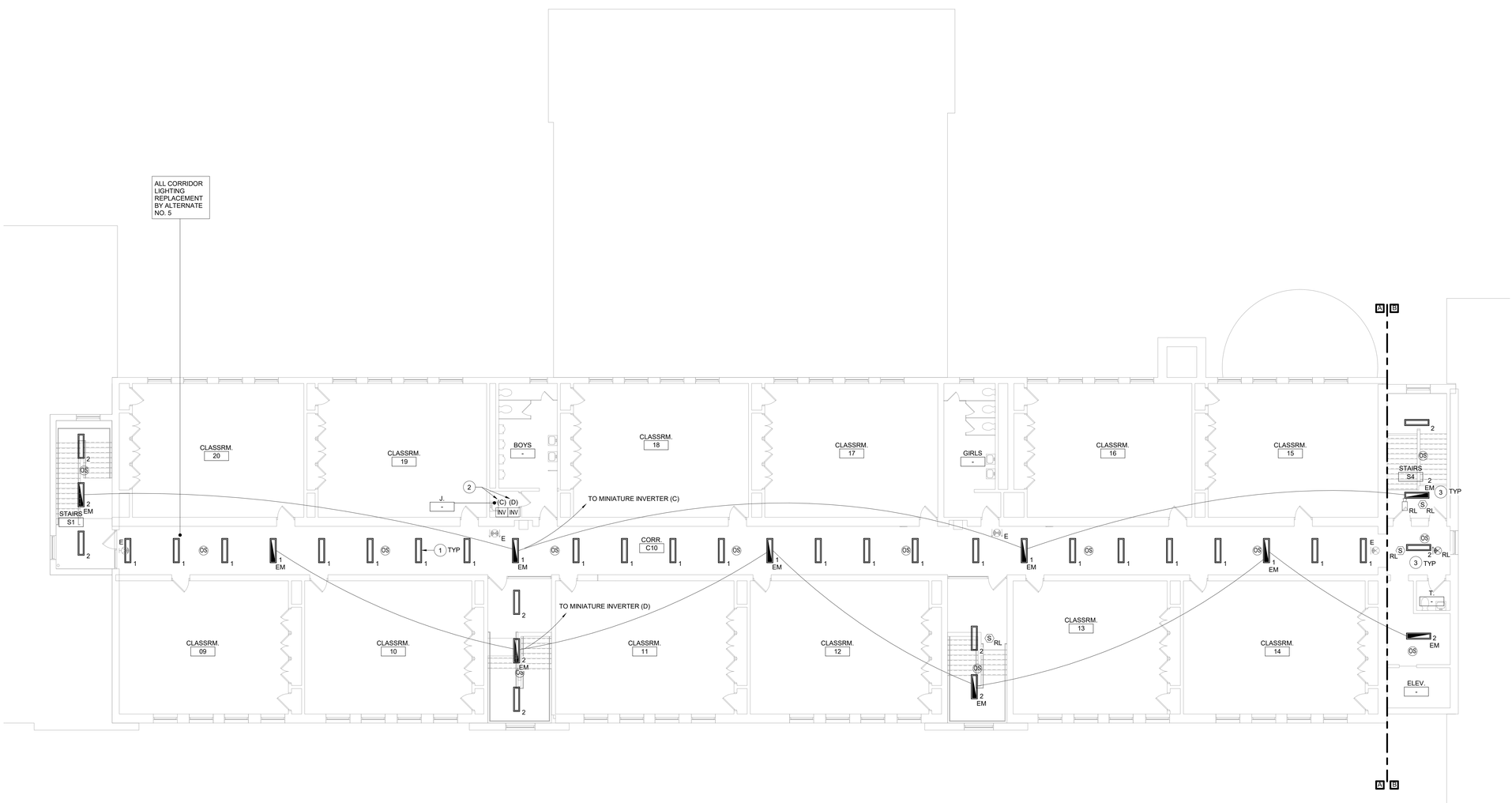
TETRA TECH ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
South Ave Elementary School

First Floor Lighting Plan - Area A

Drawn By:	Date:	Drawing Number:
SAS/CR	10/28/2022	DE131
Project No.: 279180-22004		



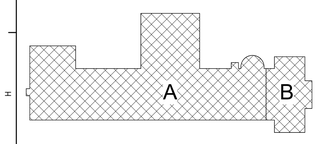
1 Second Floor Lighting Plan
1/8" = 1'-0"

Keyed Notes:

1. CONNECT LUMINAIRES TO EXISTING CIRCUIT BREAKER PREVIOUSLY SERVING THE AREA USING (2)#12, (1)#12 G. IN 1/2" CONDUIT. LUMINAIRES TO BE CONTROLLED BY OCCUPANCY SENSORS AND DIRECT DIGITAL CONTROL SYSTEM.
2. PROVIDE WALL MOUNTED MINIATURE INVERTER BASED ON MODEL VESTA MAX MODEL VST-MAX-375W-UNV-4CK. MOUNT AT 72" AFF. COORDINATE FINAL LOCATION WITH OWNER. CONNECT EVERY OTHER EMERGENCY LUMINAIRE PER CORRIDOR TO ADJACENT INVERTER TO AVOID TOTAL OUTAGE UPON BATTERY FAILURE. REFER TO WIRING DIAGRAM ON DRAWING DE500.
3. RE-INSTALL STORED CEILING MOUNTED DEVICES IN CEILINGS THAT ARE BEING REPLACED. CENTER DEVICES IN CEILING GRID CLOSEST TO EXISTING LOCATION. MODIFY/EXTEND CIRCUITRY AS NECESSARY.

General Notes:

A. REFER TO DRAWING DE050 FOR GENERAL NOTES.
B. REFER TO DRAWING DE500 FOR LUMINAIRE SCHEDULE.
C. SECURE ALL EXISTING UNSUPPORTED CABLES ABOVE CEILINGS IN CORRIDORS USING J HOOKS OR CABLETRAYS.
D. PATCH/REPLACE CEILING SYSTEMS TO REMAIN THAT HAVE BEEN DISTURBED BY SCHEDULED WORK.
E. INVERTER SYSTEM EMERGENCY OUTPUT CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT SYSTEMS AND NOT SHARED WITH OTHER ELECTRICAL CIRCUITS AS DESCRIBED IN NEC 700-9(B).
F. LIGHTING CONTROL SEQUENCES:
LOBBY/VESTIBULES/CORRIDORS:
PERSON ENTERS THE AREA, LUMINAIRES TURN ON TO 100% OUTPUT AUTOMATICALLY BY OCCUPANCY SENSOR. PERSON EXITS THE AREA, LUMINAIRES DIM TO 50% OUTPUT (MAINTAINING EGRESS LEVEL ILLUMINATION) . MANUAL CONTROL BY BUILDING MANAGEMENT SYSTEM.



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

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BID SET

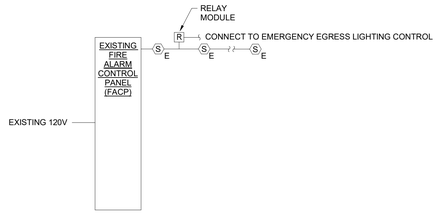
TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
South Ave Elementary School

Second Floor Lighting Plan

Drawn By:	Date:	Drawing Number:
SAS/CR	10/28/2022	DE132
Project No.: 279180-22004		

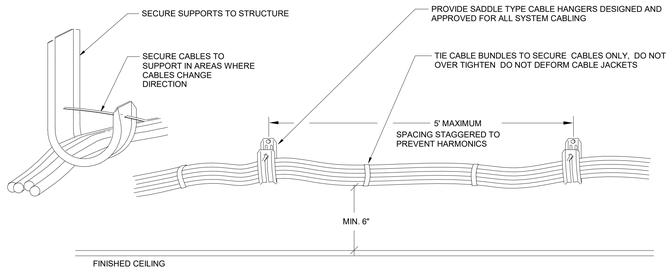


FIRE ALARM SEQUENCE OF OPERATION

A. UPON ACTIVATION TROUBLE CONDITION THE FIRE ALARM PANEL SHALL GO INTO "TROUBLE" MODE INDICATING WHICH ZONE IS IN TROUBLE BY A LIGHT IN THE REMOTE ANNUNCIATOR AND AT THE FIRE ALARM PANEL.

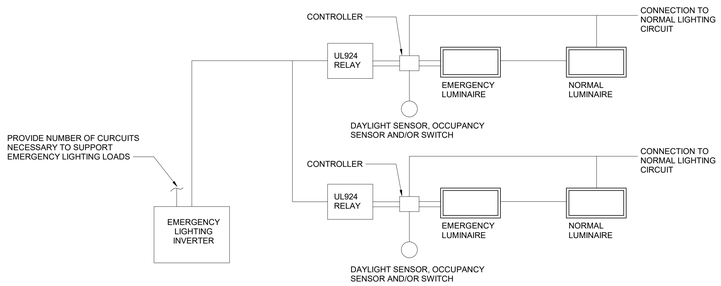
NOTES:
1. FIRE ALARM RISER IS INTENDED TO BE SCHEMATIC ONLY. ALL DEVICES INDICATED ON PLANS AND DETAILS ARE TO BE INSTALLED AND CONNECTED FOR PROPER OPERATION OF SYSTEM.
2. WIRE NEW DEVICES INTO EXISTING WIRING OR PROVIDE A NEW CIRCUIT AS DIRECTED BY FIRE ALARM SYSTEM REPRESENTATIVE.

3 Fire Alarm System Wiring Diagram
NTS

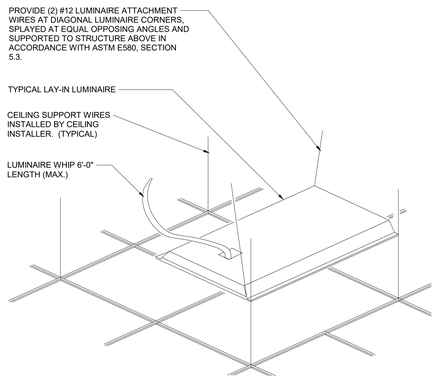


INSTALLATION NOTES:
1. LOCATE CABLE BUNDLES A MINIMUM OF 6" ABOVE REMOVABLE CEILINGS TO MAINTAIN CLEARANCE (ALONG WALLS WHERE POSSIBLE). LOCATE IN AREAS THAT ARE ACCESSIBLE.
2. USE 2 OR MORE CABLE HANGERS AT ALL TURNS TO MAINTAIN MANUFACTURER'S BEND RADIUS REQUIREMENTS.
3. THIS SUPPORT SYSTEM TO BE USED WHEREVER CABLE TRAY IS NOT INDICATED ON PLANS.

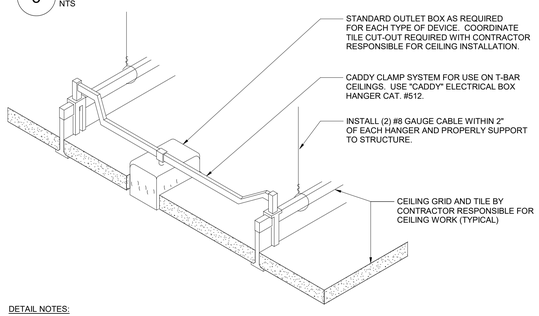
1 Typical Installation with Cable Hangars
NTS



4 Emergency Miniature Inverter Wiring Diagram
1/4" = 1'-0"



5 Typical Troffer Mounting Detail
NTS



DETAIL NOTES:
A. IN AREAS RECEIVING NEW CEILINGS ALL CEILING MOUNTED ITEMS (DETECTORS, SPEAKERS, ETC) ARE TO BE CENTERED WITHIN THE PATTERN OF THE CEILING PANEL. A 2'X4' PANEL SCORED TO A 2'X2' PATTERN SHALL HAVE ITEMS CENTERED IN THE 2'x2' PORTION.
B. PROVIDE ADDITIONAL SUPPORT FOR EXIT SIGNS, WHERE REQUIRED.

6 Ceiling Mounting Device Detail
NTS

LUMINAIRE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	LAMPS			MANUFACTURERS (OR EQUAL)	
			WATTAGE	LUMENS	TYPE	NAME	MODEL OR SERIES
1		1' x 4' TROFFER (RECESSED IN GRID)	12.2	1482	LED	SIGNIFY (DAY-BRITE)	1FPZ15L835-4-DS-UNV-DIM
1 EM		SAME AS TYPE 1 - CONNECTED TO EMERGENCY MINIATURE INVERTER	12.2	1482	LED	SIGNIFY (DAY-BRITE)	1FPZ15L835-4-DS-UNV-DIM
2		1' x 4' TROFFER (RECESSED IN GRID)	24.6	2972	LED	SIGNIFY (DAY-BRITE)	1FPZ30L835-4-DS-UNV-DIM
2 EM		SAME AS TYPE 2 - CONNECTED TO EMERGENCY MINIATURE INVERTER	24.6	2972	LED	SIGNIFY (DAY-BRITE)	1FPZ30L835-4-DS-UNV-DIM
3		1' x 4' TROFFER (RECESSED IN GRID)	31.3	3775	LED	SIGNIFY (DAY-BRITE)	1FPZ38L835-4-DS-UNV-DIM
3 EM		SAME AS TYPE 3 - CONNECTED TO EMERGENCY MINIATURE INVERTER	31.3	3775	LED	SIGNIFY (DAY-BRITE)	1FPZ38L835-4-DS-UNV-DIM
4 **		2' x 2' TROFFER (RECESSED IN GRID)	15.7	1918	LED	SIGNIFY (DAY-BRITE)	2FPZ20L835-2-DS-UNV-DIM
4 EM		SAME AS TYPE 4 - CONNECTED TO EMERGENCY MINIATURE INVERTER	15.7	1918	LED	SIGNIFY (DAY-BRITE)	2FPZ20L835-2-DS-UNV-DIM
5 **		2' x 2' TROFFER (RECESSED IN GRID)	23.4	2911	LED	SIGNIFY (DAY-BRITE)	2FPZ30L835-2-DS-UNV-DIM
5 EM **		SAME AS TYPE 5 - CONNECTED TO EMERGENCY MINIATURE INVERTER	23.4	2911	LED	SIGNIFY (DAY-BRITE)	2FPZ30L835-2-DS-UNV-DIM
6 **		2' x 2' TROFFER (RECESSED IN GRID)	29.8	3856	LED	SIGNIFY (DAY-BRITE)	2FPZ38L835-2-DS-UNV-DIM
6 EM **		SAME AS TYPE 6 - CONNECTED TO EMERGENCY MINIATURE INVERTER	29.8	3856	LED	SIGNIFY (DAY-BRITE)	2FPZ38L835-2-DS-UNV-DIM
7 **		2' x 2' TROFFER (RECESSED IN GRID)	35.7	4403	LED	SIGNIFY (DAY-BRITE)	2FPZ45L835-2-DS-UNV-DIM
7 EM **		SAME AS TYPE 7 - CONNECTED TO EMERGENCY MINIATURE INVERTER	35.7	4403	LED	SIGNIFY (DAY-BRITE)	2FPZ45L835-2-DS-UNV-DIM
8 **		4" ROUND DOWNLIGHT	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
8 EM **		SAME AS TYPE 8 - CONNECTED TO EMERGENCY MINIATURE INVERTER	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
9 **		4" SQUARE DOWNLIGHT	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
9 EM **		SAME AS TYPE 9 - CONNECTED TO EMERGENCY MINIATURE INVERTER	8.8	868	LED	SIGNIFY (LEDALITE)	L4R10935VB / L4RDW
10 **		2" RECESSED LINEAR. LENGTH VARIES, SEE PLANS FOR SPECIFIC LENGTHS.	14.5	1345	LED	FINELITE	HP-2-R-D-XFT-S-835
10 EM **		SAME AS TYPE 10 - CONNECTED TO EMERGENCY MINIATURE INVERTER	14.5	1345	LED	FINELITE	HP-2-R-D-XFT-S-835
11 **		15/16" T-BAR LED	39	2854	LED	JLC TECH	TBSL-MW-5-24-B2-X-W
11 EM **		SAME AS TYPE 11 - CONNECTED TO EMERGENCY MINIATURE INVERTER	39	2854	LED	JLC TECH	TBSL-MW-5-24-B2-X-W
12 **		2" RECESSED PERIMETER	27.6	2999	LED	PINNACLE ARCHITECTURAL LIGHTING	EV2DPM-A-835HO-4
12 EM **		SAME AS TYPE 12 - CONNECTED TO EMERGENCY MINIATURE INVERTER	27.6	2999	LED	PINNACLE ARCHITECTURAL LIGHTING	EV2DPM-A-835HO-4
13		WALL MOUNT LINEAR	33.1	3361	LED	SIGNIFY (LEDALITE)	7408LBEQN047DEW
13 EM		SAME AS TYPE 13 - CONNECTED TO EMERGENCY MINIATURE INVERTER	33.1	3361	LED	SIGNIFY (LEDALITE)	7408LBEQN047DEW
14 EM **		4' SURFACE MOUNTED LINEAR - CONNECTED TO EMERGENCY MINIATURE INVERTER	18.8	1780	LED	PINNACLE ARCHITECTURAL LIGHTING	EX3-WET-N-835-4-S-U-OL2-1-0-W
15 EM		LOW PROFILE SURFACE CANOPY WITH INTEGRAL BATTERY	51	5396	LED	SIGNIFY (GARDCO)	SVPG-A06-840
16		20" X 5" LINEAR WALL MOUNT SCONCE	10	175	LED	TEKA ILLUMINATION	C-AR-FS-LED-392-ART
20**		EXIT SIGN (SINGLE FACE) WALL AND CEILING MOUNT. SEE PLANS FOR DIRECTIONAL INDICATORS	2.5		LED	SIGNIFY (CHLORIDE)	ER46L-2-W-R

** LUMINAIRE TYPE NOT USED IN THIS BUILDING

* MANUFACTURER AND MODEL NUMBER ARE PROVIDED TO SHOW BASIS OF DESIGN ONLY.

2 Luminaire Schedule
NTS

S.E.D. Control No. 13-02-00-01-0-003-016

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT — WHERE EXCELLENCE IS THE STANDARD

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BID SET

TETRA TECH ARCHITECTS & ENGINEERS

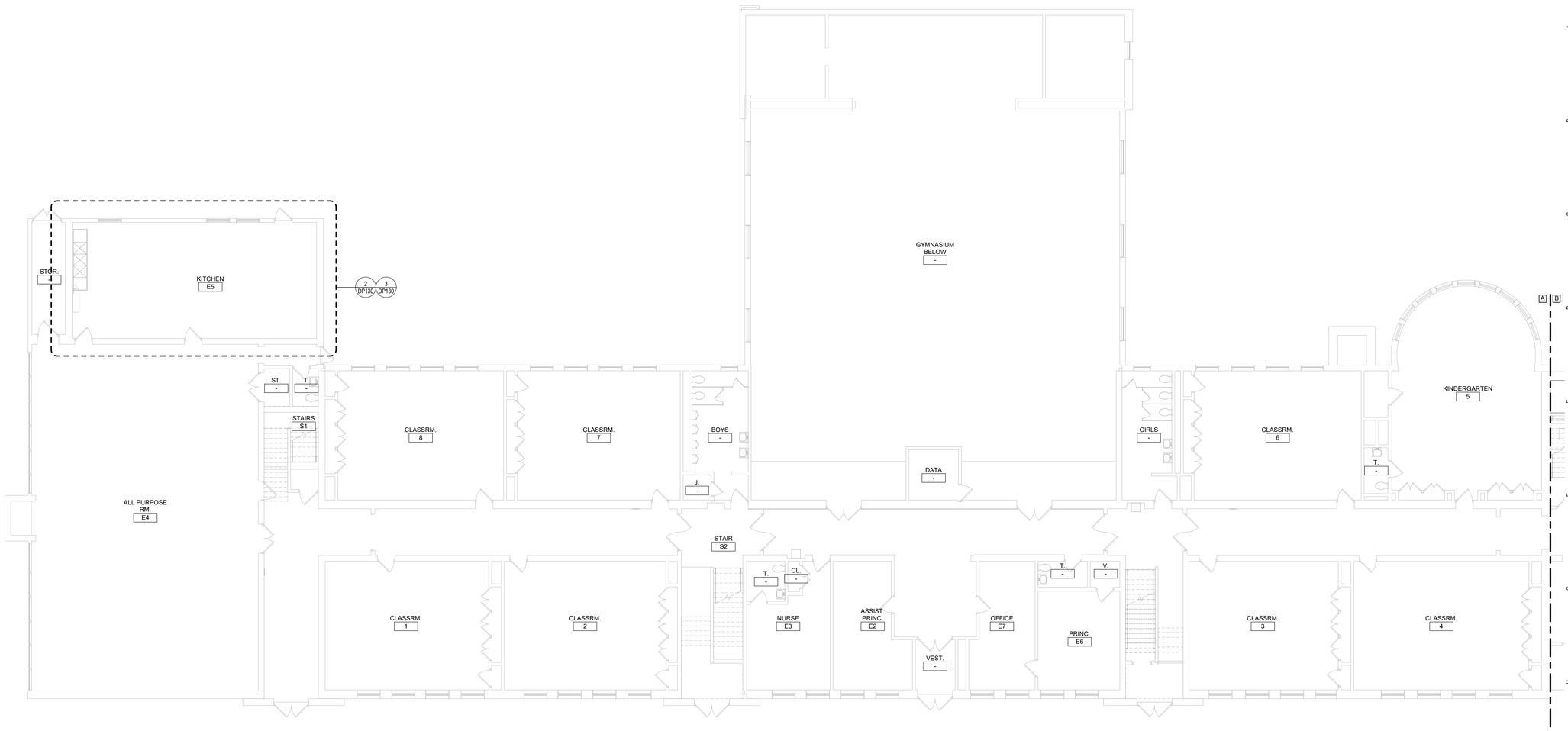
Beacon City School District
Beacon, New York

Reconstruction to:
South Ave Elementary School

Details

Drawn By:	Date:	Drawing Number:
SAS	10/28/2022	DE500

Project No.: 279180-22004



1 First Floor Plan - Area A
1/8" = 1'-0"

General Notes

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

B. VERIFY IN FIELD INVERT AND DIRECTION OF FLOW IN EXISTING SOIL PIPE WHERE NEW SOIL PIPE IS TO BE CONNECTED TO EXISTING SOIL PIPE.

C. LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS.

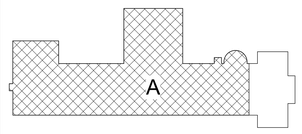
D. INCLUDE TRENCHING, CUTTING AND PATCHING OF FLOORS, WALLS AND CEILINGS, INCLUDING CEILING TILE REMOVAL AND REPLACEMENT, WHEN REQUIRED FOR PLUMBING WORK. PATCH ABANDONED OPENINGS AND DISTURBED FINISHES TO MATCH EXISTING. TAKE PRECAUTIONS TO PROTECT STRUCTURAL INTEGRITY OF FLOOR OR WALLS WHEN TRENCHING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

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

F. REPLACE PLUMBING EQUIPMENT 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.

Plumbing Notes

1. REMOVE 3 BAY SINK AND STORE FOR REINSTALLATION AFTER GREASE INTERCEPTOR IS INSTALLED. CLEAN TABLE BEFORE REINSTALLATION.
2. FLOW CONTROL FITTING SUPPLIED BY GREASE INTERCEPTOR MANUFACTURER.
3. REFER TO DETAILS 4/ DP130 AND 5/ DP130 FOR ADDITIONAL INFORMATION.



Key Plan
N.T.S.

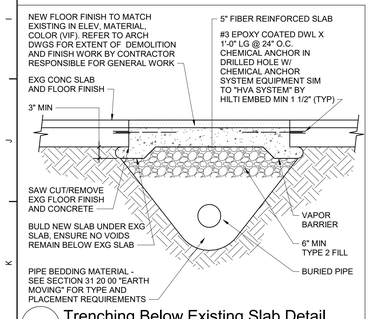
S.E.D. Control No. 13-02-00-01-0-003-016

Grease Interceptor Schedule

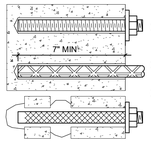
DWG LABEL	LOCATION	DESIGN MAKE AND MODEL	GREASE RETENTION CAPACITY (POUNDS)	PDI RATED FLOW RATE (GPM)	INSTALLATION	INLET / OUTLET SIZE (NPS)	CENTERLINE OF INLET / OUTLET TO BOTTOM (INCHES)	CENTERLINE OF INLET / OUTLET TO TOP (INCHES)	EXTENSION HEIGHT (INCHES)	LENGTH (INCHES)	WIDTH (INCHES)	HEIGHT (INCHES)	VENT SIZE (NPS)	NOTES
GI-D-1	KITCHEN E5	JR SMITH 8150	100	50	FLOOR MOUNTED	3	10	6	N/A	49-1/2	27-3/4	16	2	1

NOTES:

1. PROVIDE EXTERNAL FLOW CONTROL FITTING SUPPLIED BY SAME MANUFACTERER AS GREASE INTERCEPTOR.



4 Trenching Below Existing Slab Detail
NTS



A THREADED ROD IN SOLID CONCRETE OR SOLIDLY GROUTED CONCRETE BLOCK 3/4" DIA ROD UNO

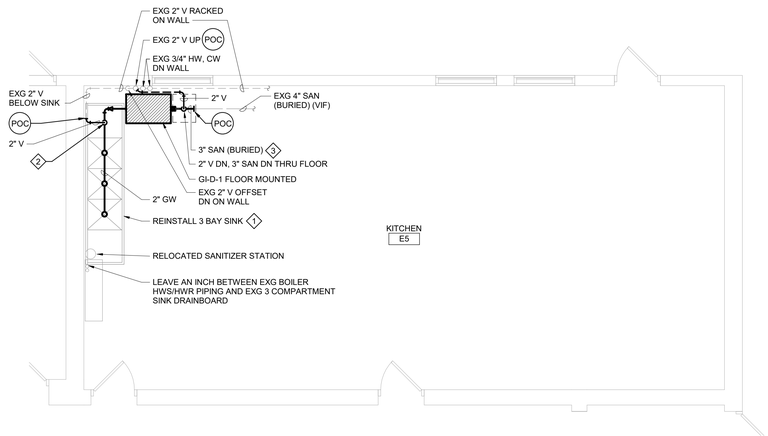
B REINFORCING BAR IN SOLID CONCRETE #6 BAR UNO

C REINFORCING BAR OR THREADED ROD IN HOLLOW MASONRY #6 BAR OR 3/4" DIA ROD - UNO. WITH 3/4" NOMINAL STAINLESS STEEL SCREEN TUBE

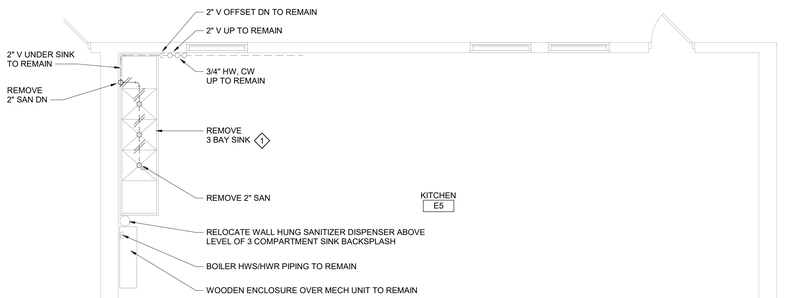
BAR/ROD SIZE	EMBEDMENT DEPTH
#4 OR 1/2"	5"
#5 OR 5/8"	6"
#6 OR 3/4"	7"
#7 OR 7/8"	8"
#8 OR 1"	9"

GENERAL NOTES:
1. FOR ACCEPTABLE ADHESIVE PRODUCTS REFER TO SPECIFICATIONS.
2. COMPLY WITH MANUFACTURERS REQUIREMENTS FOR INSTALLATION.

5 Typical Chemical Anchors
NTS



3 Kitchen E5 Plan
1/4" = 1'-0"



2 Kitchen E5 Demolition Plan
1/4" = 1'-0"

Rev. No.:	Date:	Description:

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TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
South Ave Elementary School

First Floor Plan - Area A, Details and Schedule

Drawn By:	Date:	Drawing Number:
GPD / sef	10/28/2022	DP130
Project No.: 279180-22004		