Reconstruction To:
Mahopac Public Library

SED Control No. 48-01-01-06-6-017-004

Project Location Map

Mahopac Public Library
Mahopac, New York

Drawing List

GENERAL
G001 Title Sheet
G100 Symbols and Abbreviations

Mahopac Public Library

CODE COMPLIANCE
G300 Site Code Compliance Plan
G350 Code Compliance Review and Key Plans

SURVEY / MAPPING
V001 Mahopac Public Library Boundary and Topographic Survey 1 of 1

CIVIL
C100 Site Demo and SESC Plan
C120 Site Layout, Grading and Utility Plan
C500 Site Details

ARCHITECTURAL
A100 Basement and First Floor Demolition Plans
A101 Second and Third Floor Demolition Plans
A130 Basement and First Floor Plans
A131 Second and Third Floor Plans
A190 Roof Plan and Details
A200 Exterior Elevations
A201 Exterior Elevations
A600 Details and Door Schedule

MECHANICAL
M050 Key Plans
M130 Basement Floor Plan
M131 First Floor Plan
M132 Second Floor Plan
M133 Third Floor Plan
M134 Attic Plan
M500 Details and Controls
M600 Schedules

Drawn By:	Date:	Drawing Number:
TTAE	12/13/21	AA130
Project No.: 203778-21001		

BUILDING DESIGNATOR
DISCIPLINE DESIGNATOR
SHEET TYPE DESIGNATOR
SHEET SEQUENCE DESIGNATOR

TETRA TECH
ARCHITECTS & ENGINEERS

Architecture Engineering Planning
for High Performance Facilities

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

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

BID SET

Volume 1 of 1

203778-21001
12/13/21

Set No.

Drawing Number:
G001

Site Symbols

- SPOT ELEVATION (83.36)
- TOP OF CURB ELEVATION (99.50 TC) / BOTTOM OF CURB ELEVATION (99.00 BC)
- EXISTING SPOT ELEVATION (+ 83.36)
- CONTOUR (136)
- EXISTING CONTOUR (136)
- SOIL TEST BORING (TB-1)
- TEST PIT LOCATION (TP-1)
- 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
- 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 (ST)
- UNDERDRAIN (UD)
- UNDERDRAIN TO REMAIN (UD)
- UNDERDRAIN TO BE REMOVED/ABANDONED (UD)
- SANITARY LINE (SAN)
- SANITARY LINE TO REMAIN (SAN)
- SANITARY LINE TO BE REMOVED/ABANDONED (SAN)
- GAS LINE (G)
- GAS LINE TO REMAIN (G)
- GAS LINE TO BE REMOVED/ABANDONED (G)
- WATER LINE (W)
- WATER LINE TO REMAIN (W)
- WATER LINE TO BE REMOVED/ABANDONED (W)
- STORM/SANITARY CLEANOUT (CO)
- 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
- DOOR NUMBER (ROOM NO W/ DOOR NO) (100 / 1)
- WINDOW TYPE (A)
- RELOCATED EQUIPMENT FURNITURE OR CASEWORK NUMBER (126)
- PARTITION TYPE (P3.8)
- BOARD UNIT SYMBOL (MGM)
- 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) / F4 [-3'-0]
- INDICATES PIER TYPE
- TOP OF PIER ELEVATION FROM DATUM
- 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 (E)
- 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
- 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: K - KEY OPERATED, 3 - 3 WAY, 4 - 4 WAY, D - DIMMER, P - W/PILOT LIGHT, OS - OCCUPANCY SENSOR, VS - VACANCY SENSOR
- TC — TIME CLOCK
- OS — OCCUPANCY SENSOR
- VS — VACANCY SENSOR
- PC — PHOTO CELL
- LC — LIGHTING CONTROL
- F — FIRE ALARM MANUAL PULL STATION
- F F — FIRE ALARM BELL- W/STROBE W/0 STROBE
- F F — FIRE ALARM HORN- W/STROBE W/0 STROBE
- S — SMOKE DETECTOR
- B — BEAM SMOKE DETECTOR
- S D — DUCT SMOKE DETECTOR
- H — RATE OF RISE HEAT DETECTOR
- H F — FIXED HEAT DETECTOR
- S — FIRE ALARM STROBE LIGHT
- DH — MAGNETIC DOOR HOLDER
- A — FIRE ALARM / VOICE NOTIFICATION SPEAKER (WALL)
- A — FIRE ALARM / VOICE NOTIFICATION SPEAKER (CEILING)
- A — FIRE ALARM / VOICE NOTIFICATION SPEAKER STROBE (CEILING)
- A — FIRE ALARM / VOICE NOTIFICATION SPEAKER STROBE (WALL)
- A — FIRE ALARM / VOICE NOTIFICATION STROBE (WALL)
- R — RELAY
- RTS — REMOTE INDICATOR TEST SWITCH
- FS — SPRINKLER FLOW SWITCH
- TS — SPRINKLER TAMPER SWITCH
- FAA — FIRE ALARM ANNUNCIATOR PANEL
- FACP — FIRE ALARM CONTROL PANEL
- FAGA — FIRE ALARM GRAPHIC ANNUNCIATOR
- CS — CONTROL STATION- TYPE AS DESCRIBED ON DWGS.
- HCL — HOUSE LIGHTING CONTROL STATION
- DCR — DIMMER CONTROL OUTLET
- AR — AREA OF RESCUE STATION
- MJ — MICROPHONE JACK
- SJ — SPEAKER JACK
- P — HOUSE LIGHT PANIC STATION
- AI — AUDITORIUM INTERCOM
- S — COMBINATION CLOCK/SPEAKER
- CLOCK
- EXISTING TELEPHONE
- TELEPHONE OUTLET: W - WALL MOUNT AT 54" AFF, IC - INTERCOM SOUND SYSTEM HAND SET, BLANK - WALL MOUNT AT 16" AFF
- FLOOR TELEPHONE OUTLET
- INTERCOM CALL SWITCH
- TV — TELEVISION OUTLET
- CO — COMPUTER OUTLET
- A/V — AUDIO/VIDEO OUTLET
- PROJECTOR MOUNTING TILE

- CABLE TRAY - LADDER TYPE
- CABLE TRAY - BASKET TYPE
- SR — SURFACE RACEWAY TYPE AS DESCRIBED ON DWGS.
- CI — COMMUNICATION INTERFACE OUTLET
- S — CEILING MOUNT SPEAKER
- S — WALL MOUNT SPEAKER
- VC — VOLUME CONTROL
- H — HORN SPEAKER
- P — PROGRAM BELL
- FB — FLOOR BOX
- DR — DOOR RELEASE
- SE — SECURITY ALARM HORN
- SE — SECURITY SENSOR: GB - GLASS BREAK, MD - MOTION DETECTOR, SD - SOUND DETECTOR
- DC — SECURITY DOOR CONTACT
- KP — SECURITY SYSTEM KEYPAD # DENOTES DESIGNATION
- SECURITY CAMERA # DENOTES DESIGNATION
- REX — SECURITY REQUEST TO EXIT SENSOR
- PS — LOW-VOLTAGE POWER SUPPLY # DENOTES DESIGNATION
- ELH — SECURITY ELECTRIC LOCKING HARDWARE
- IC — DOOR INTERCOM CALL STATION # DENOTES DESIGNATION
- CR — ACCESS CONTROL CARD READER # DENOTES DESIGNATION
- ADA — ADA PUSH BUTTON
- MON — SECURITY CCTV MONITOR
- DB — SECURITY DURESS BUTTON
- EXISTING PANEL TO REMAIN
- EXISTING PANEL TO REPLACE
- NEW PANEL
- SPD — SURGE PROTECTION DEVICE
- MOTOR
- LABEL # — NEW MOTOR SEE SCHEDULE FOR DESCRIPTION
- PB — PULL BOX
- J — JUNCTION BOX
- H — HAND/HAIR DRYER
- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE
- DUPLEX FLOOR RECEPTACLE
- CR — CORD REEL
- TELE./DATA POWER POLE
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MOTOR STARTER
- COMBINATION STARTER
- C — CONTACTOR
- CB — ENCLOSED CIRCUIT BREAKER
- EQUIPMENT CONNECTION
- EMERGENCY OFF BUTTON
- T# — TRANSFORMER # DENOTES DESIGNATION REFER TO RISER DIAGRAM
- P — UTILITY POLE
- UT — UNDERGROUND TELEPHONE
- T — OVERHEAD TELEPHONE
- UTV — UNDERGROUND TELEVISION
- TV — OVERHEAD TELEVISION
- UL — UNDERGROUND LIGHTING
- L — OVERHEAD LIGHTING
- UE — UNDERGROUND ELECTRIC
- E — OVERHEAD ELECTRIC
- UC — UNDERGROUND COMPUTER
- C — OVERHEAD COMPUTER

Symbol Tags

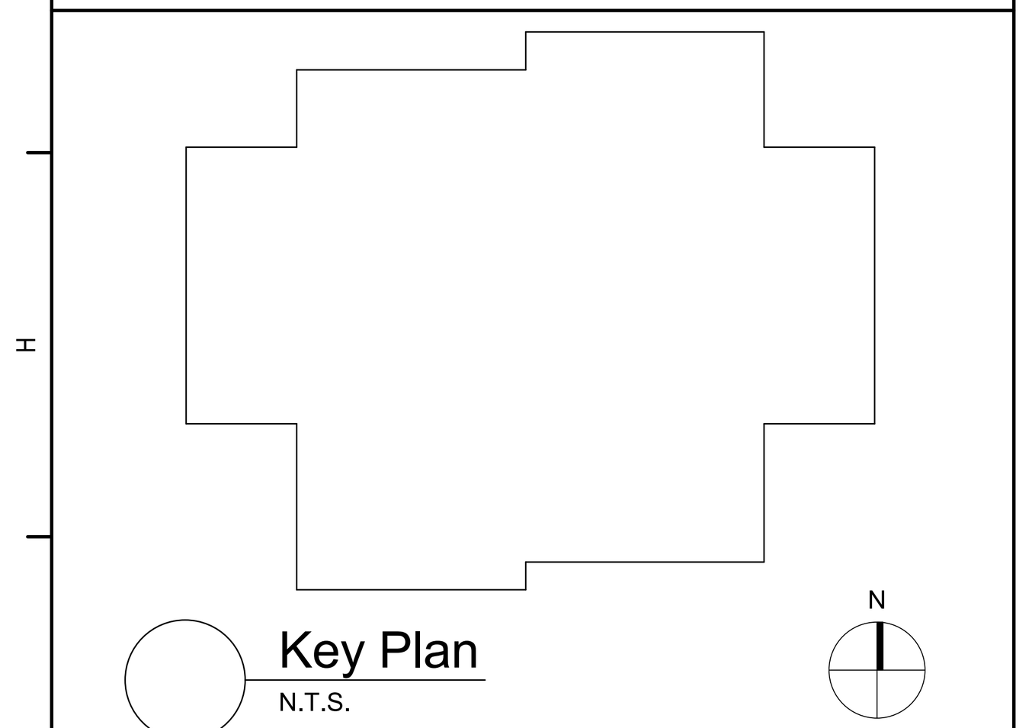
- F = REMOVE EXISTING
- F E = EXISTING TO REMAIN
- F RL = RELOCATE EXISTING
- F RE = REPLACE EXISTING

TYPICAL FOR ALL ELEC SYMBOLS

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

Standard Symbols

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



Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

Abbreviations

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 CONDITIONICO NG 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 BLOCK
BLK	BLOCKING BLKG
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
GL	GLASS, GLAZING
GND	GROUND
GPM	GALLONS PER MINUTE
GR	GRADE (ING), GLYCOL RETURN
GS	GLYCOL SUPPLY
GVL	GRAVEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	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
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

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

BID SET

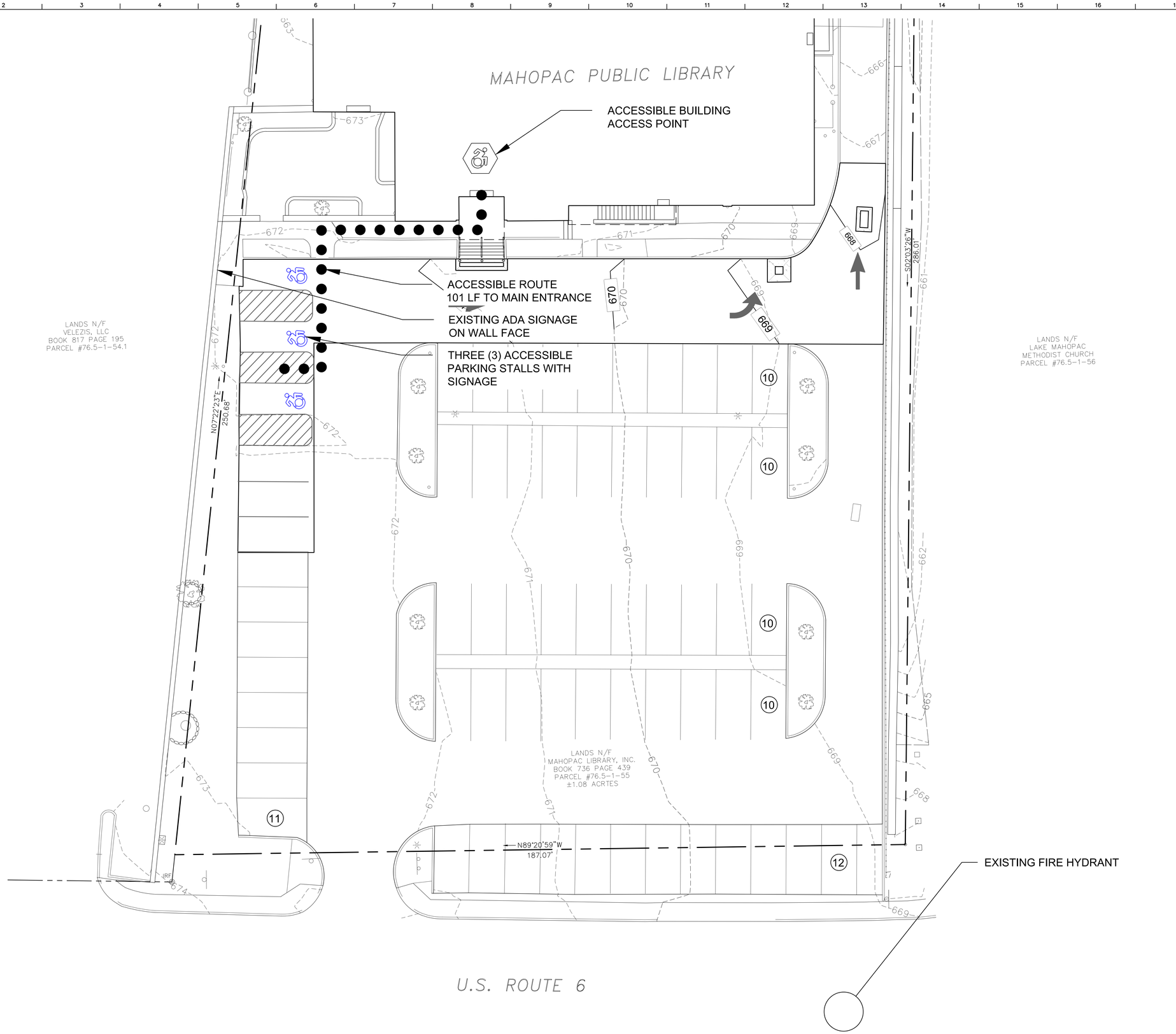
TETRA TECH ARCHITECTS & ENGINEERS

Mahopac Public Library
Mahopac, New York

Reconstruction To:
Mahopac Public Library

Symbols and Abbreviations

Drawn By:	Date:	Drawing Number:
TTAE	12/13/21	G100
Project No.: 203778-21001		



General Site Notes

1. REFER TO DRAWING C100 FOR GENERAL SITE NOTES THAT APPLY TO ALL C-SERIES DRAWINGS.

ADA Site Notes

1. THE MAXIMUM SLOPE OF ACCESSIBLE PARKING STALLS AND ASSOCIATED ACCESS AISLE SHALL BE 2% (1V:50H).
2. THE MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL ON ACCESSIBLE PATHS SHALL BE 5% (1V:20H).
3. THE MAXIMUM CROSS SLOPE ON ACCESSIBLE PATHS SHALL BE 2% (1V:50H).
4. THE MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL ON ACCESSIBLE RAMPS AND CURB RAMPS SHALL BE 8.33% (1V:12H), AS INDICATED ON THE DETAILS.
5. GROUND SURFACES ON ACCESSIBLE PATHS SHALL BE STABLE, FIRM, AND SLIP RESISTANT.

IBC Table 1106.1 Accessible Parking Spaces

* TOTAL NUMBER OF EXISTING AND PROPOSED PARKING SPACES= 63
* NUMBER OF ACCESSIBLE PARKING SPACES REQUIRED = 3
* TOTAL NUMBER OF EXISTING AND PROPOSED ACCESSIBLE PARKING SPACES = 3

TOTAL PARKING SPACES PROVIDED IN PARKING FACILITY	REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1,000	2% OF TOTAL
OVER 1,000	20 PLUS 1 FOR EACH 100 OVER 1,000

NOTE: PARKING SPACES USED EXCLUSIVELY FOR BUSES, TRUCKS AND OTHER DELIVERY VEHICLES, AND LAW ENFORCEMENT VEHICLES ARE EXEMPT FROM IBC TABLE 1106.1.

Site Accessible Legend

	ACCESSIBLE BUILDING ENTRY/EXIT
	ACCESSIBLE ROUTE

Legend

(34)	NUMBER OF ADJACENT PARKING STALLS

S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Public Library
Mahopac, NY

Alterations and Reconstruction To:
Mahopac Public Library

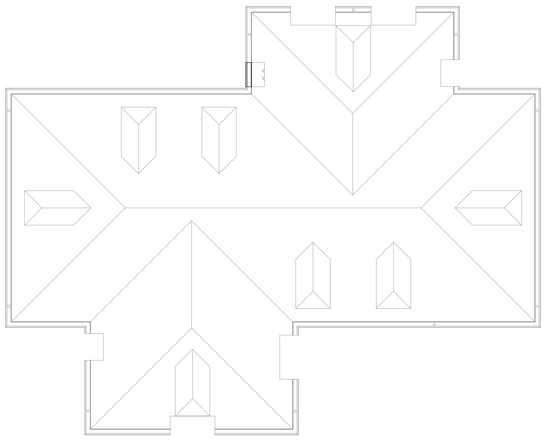
Site Code Compliance Plan

Drawn by:	Date:	Drawing No.:
DFL	12/13/21	G300

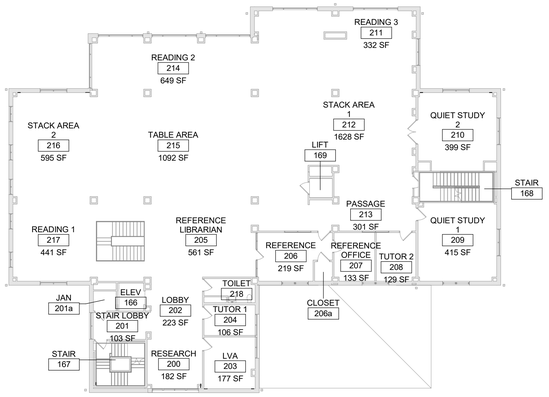
T+ Project No.: 203778-21001

1 Site Code Compliance Plan
1" = 10'

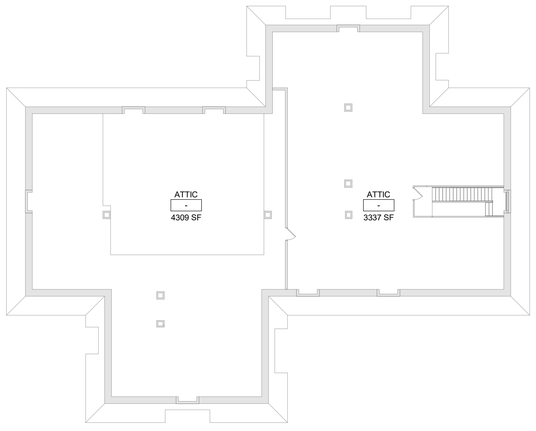
SCALE: 1" = 10'



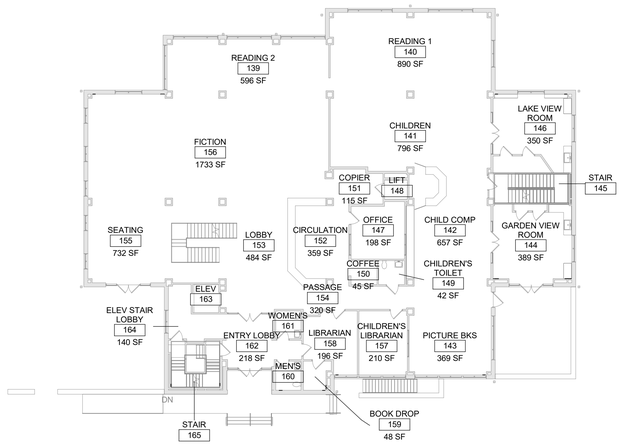
4 Roof Key Plan
1/16" = 1'-0"



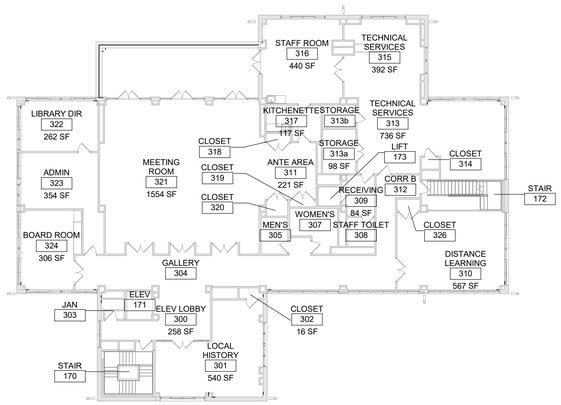
1 Second Floor Key Plan
1/16" = 1'-0"



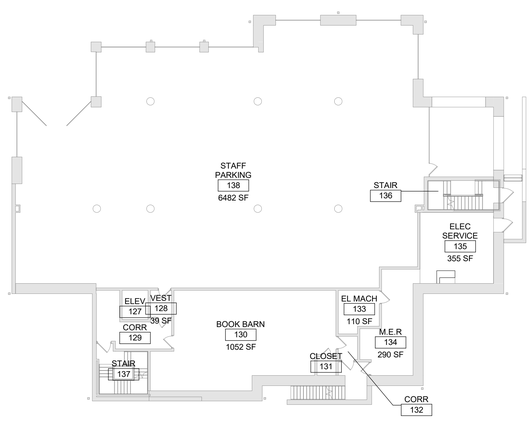
5 Attic Key Plan
1/16" = 1'-0"



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



6 Third Floor Key Plan
1/16" = 1'-0"



3 Basement Floor Key Plan
1/16" = 1'-0"

Code Compliance Review

PROJECT LOCATION:
668 US-6, MAHOPAC, NEW YORK 10541
BOUNDED BY US-6 TO THE SOUTH, MOUNT HOPE ROAD TO THE EAST AND MARINA DRIVE TO THE NORTH.

PROJECT DESCRIPTION:
THIS PROJECT INCLUDES THERMAL IMPROVEMENTS TO THE EXTERIOR ENVELOPE INCLUDING EXTERIOR WALL WINDOWS, DOORS, TOP OF WALL AND ROOF CONDITIONS FLASH COPINGS AND REDIRECT DOWNSPOUTS. SITE IMPROVEMENTS TO THE PARKING AREA AND STORM WATER DRAINAGE.
IMPROVEMENTS TO THE HVAC SYSTEM CONTROLS INCLUDING ROOM SENSORS, ZONING SEQUENCES, HOT WATER PUMPS, DUCT CONTROLS, TESTING AND BALANCING AND WATER TREATMENT.

WORK GENERALLY CONSISTS OF THE FOLLOWING:
ALTERATIONS - LEVEL 1
- IMPROVEMENTS TO THE EXTERIOR BUILDING ENVELOPE
- IMPROVEMENTS TO PARKING AREA
- IMPROVEMENTS TO THE HVAC SYSTEM

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 INCLUDING THE 2020 BCNYS, 2020 EBCNYS AND 2020 ECCNYS (CLIMATE ZONE 5A), AND ICC A117.1-2017 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.

BUILDING DATA:

BUILDING: MAHOPAC PUBLIC LIBRARY
668 US-6
MAHOPAC, NY 10541

DESCRIPTION: THREE STORY CAVITY WALL BUILDING WITH BASEMENT AND ATTIC.

YEAR BUILT: 2003 (MICHAEL ESMAY ARCHITECTURE-PLANNING-INTERIOR DESIGN)

BUILDING AREA:

BASEMENT	2,622 SQFT
1ST FLOOR	9,731 SQFT
2ND FLOOR	8,613 SQFT
3RD FLOOR	8,200 SQFT
ATTIC	7,647 SQFT
TOTAL GROSS AREA=	36,813 SQFT

CODE DATA SUMMARY:

BUILDINGS ARE BELIEVED TO HAVE BEEN CONSTRUCTED AND SUBSEQUENT ALTERATIONS MADE IN COMPLIANCE WITH CODES IN EXISTENCE AT THAT TIME.

USE GROUP: A-3: ASSEMBLY

CONSTRUCTION TYPE -

EXISTING: IIA

FIRE SAFETY: FULLY SPRINKLERED

WORK AREA:

LOCATION	AREA	% OF TOTAL
BASEMENT	0 SQFT	0%
1ST FLOOR	55 SQFT	2%
2ND FLOOR	0 SQFT	0%
3RD FLOOR	88 SQFT	1%
ATTIC	0 SQFT	0%

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)

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 G300.

INTERIOR FINISH REQUIREMENTS:

ALL FINISHES IN CORRIDORS AND ASSEMBLY SPACES SHALL HAVE A FIRE HAZARD CLASSIFICATION PER MANUAL OF PLANNING STANDARDS SECTION S200-2, a. THROUGH e.

Structural Loads:

A. FLOOR LIVE LOADS PER BCNYS 1607

OCCUPANCY OR USE	UNIFORM	CONCENTRATED
LIBRARY		
READING ROOMS	60 PSF	1000 LBS
STACK ROOMS (WITH LIMITATIONS PER TABLE 1607.1 NOTE b.)	150 PSF	1000 LBS
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 1.5 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)	19 PSF
SNOW EXPOSURE FACTOR, C_e	0.9
THERMAL FACTOR, C_t	1.0
SLOPE FACTOR, C	1.0
SNOW LOAD IMPORTANCE FACTOR, I_s	1.0

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	114 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, V_{asd}	88.3 MPH
RISK CATEGORY	I I
EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENT, GCP,	+/- 0.18

F. SEISMIC DESIGN CRITERIA PER BCNYS 1613
NOT APPLICABLE

COMPONENTS & CLADDING WIND PRESSURE (PSF)

MEAN ROOF EAVE HEIGHT, "h" (FT)	EFFECTIVE WIND AREA (SQ FT)	ZONE 2 EDGE	ZONE 2 OVERHANG	ZONE 3 CORNER	ZONE 3 OVERHANG
50.00	≤ 10	-76.7	16.0	-71.1	-104.5	16.0	-99.0
	20	-71.8	16.0	-64.6	-94.7	16.0	-87.5
	50	-65.3	16.0	-55.9	-81.6	16.0	-72.3
	100	-60.3	16.0	-49.3	-71.8	16.0	-60.7
	≥ 500	-48.9	16.0	-34.0	-48.9	16.0	-34.0

NOTES:

1. MEAN ROOF HEIGHT IS MEASURED ABOVE GROUND FLOOR ELEVATION.

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.

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 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 G350 DRAWING 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 A350 DRAWING, 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.

Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

MAHOPAC PUBLIC LIBRARY
YOUR HOME. YOUR TOWN. YOUR LIBRARY.

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

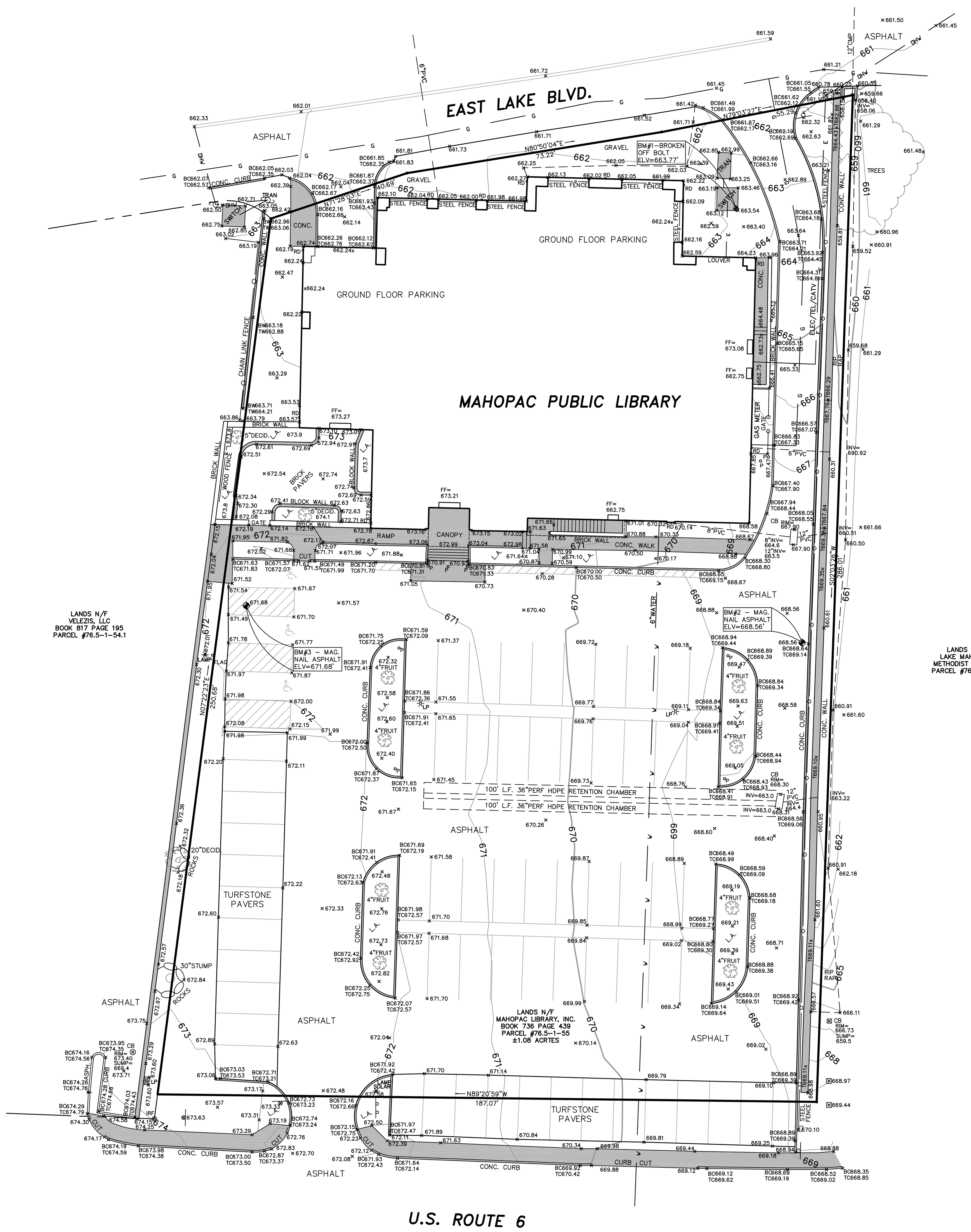
Mahopac Public Library
Mahopac, New York

Reconstruction To:
Mahopac Public Library

Code Compliance Review and Key Plans

Drawn By:	Date:	Drawing Number:
TLG	12/13/21	G350

Project No.: 203778-21001



LEGEND

Symbol	Description	Symbol	Description
L.A.	LANDSCAPED AREA	B*	SOIL BORING
P	POST	MB	MAIL BOX
	SIGN	TMH	TELEPHONE MANHOLE
	NYS DOT MONUMENT	TP	TELEPHONE PEDESTAL
IRF	IRON ROD FOUND	TSP	TRAFFIC SIGNAL POLE
CIRF	CAPPED IRON ROD FOUND	TSB	TRAFFIC SIGNAL BOX
CIRS	IRON ROD FOUND	EMH	ELECTRIC MANHOLE
RD	ROOF DRAIN		UTILITY POLE
CB	CATCH BASIN	LP	LIGHT POLE
DMH	DRAIN MANHOLE	ICV	IRRIGATION CONTROL VALVE
SMH	SANITARY MANHOLE	HYD	HYDRANT
CO	CLEANOUT	WV	WATER VALVE
GV	GAS VALVE	WMH	WATER MANHOLE

Line	Description
OHW	OVERHEAD WIRES
FO	UNDERGROUND FIBER OPTIC
T	UNDERGROUND TELEPHONE
G	UNDERGROUND GAS
W	UNDERGROUND WATER
E	UNDERGROUND ELECTRIC
- - - -	OVERHEAD ROOF

MAP NOTES:

1) NORTH ORIENTATION IS PER N.Y.S. PLANE COORDINATES (NAD83 NYS EAST).
2) VERTICAL DATUM IS PER NAVD88.
3) THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OR UP TO DATE TITLE REPORT AND IS THEREFORE SUBJECT TO ANY EASEMENTS, RESTRICTIONS, COVENANTS OR ANY STATEMENT OF FACTS THAT SUCH DOCUMENTS MAY DISCLOSE.
4) UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM DATA OBTAINED BY FIELD SURVEY, PREVIOUS MAPS AND RECORDS, AND FROM PAROLE TESTIMONY MADE BY FACILIY AND UTILITY COMPANY PERSONNEL. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN TO THE UNDERSIGNED. SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO ANY CONSTRUCTION.
5) FLOOD DATA OBTAINED FROM FIRM COMMUNITY PANEL 36079C0226E WITH AN EFFECTIVE DATE OF MARCH 4, 2013. ZONE X; ENTIRE PARCEL LIES OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

MAP REFERENCES:

1) MAHOPAC LIBRARY – SITE PLAN, SHEET SP–1; BY DENNIS M. LETSON, P.E.; AND LAST REVISED ON 8/16/2002.
2) MAHOPAC LIBRARY – GROUND FLOOR PLUMBING, SHEET P–0; BY ALAN ROSENFELD, P.E.; AND LAST REVISED ON 6/04/2002.
3) MAHOPAC LIBRARY – GROUND FLOOR POWER PLAN, SHEET E–0P; BY ALAN ROSENFELD, P.E. AND LAST REVISED ON 7/15/2002.

NAD83

BAR SCALE
20 0 10 20 40
1 inch = 20 ft.

BOUNDARY & TOPOGRAPHIC SURVEY
MAHOPAC PUBLIC LIBRARY
MAHOPAC CENTRAL SCHOOL DISTRICT
TOWN OF CARMEL, PUTNAM COUNTY, STATE OF NEW YORK
PREPARED FOR TETRA TECH ARCHITECTS & ENGINEERS

T.P.N. – 76.5–1–55
Project No. – 21.10
Scale – 1"=20 feet
Sheet 1 of 1
Survey Date – 10/4/21
Map Date – 10/8/21
Print Date – ________
Checked By – RTB
Revisions –

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L.S.#49880

V001

DWG. NAME=MAHOPAC LIBRARY

Site Erosion and Sediment Control Notes

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS SPECIFIED IN THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (BLUE BOOK), LATEST EDITION, AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

2. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMP. SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND BOUND IN ACCORDANCE WITH THE NY STANDARDS.

3. NYS DEC REGULATIONS REQUIRE THAT DISTURBANCE BE LIMITED TO AREAS LESS THAN 5-ACRES AT ANY ONE TIME.

4. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT ACCORDING TO NYS DEC STANDARDS.

5. STABILIZATION SPECIFICATIONS:

   A. SOIL AMENDMENTS:

   LIME - PROVIDE GROUND LIMESTONE TO PH OF 6.0.

   FERTILIZER - 14 LBS/1,000 S.F., 5-10-10 OR EQUIVALENT WORKED INTO SOIL A MINIMUM OF 4".

   B. TEMPORARY SEEDING AND MULCHING:

   SEED - ANNUAL RYEGRASS 30 LBS/ACRE; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1. USE WINTER RYE IF SEEDING IN OCT./NOV.

   MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 90 LBS/1,000 S.F., TO BE APPLIED ACCORDING TO THE NY STANDARDS. MULCH SHALL BE SECURED BY WOOD FIBER MULCH (HYDROMULCH) AT 11-17 LBS./1,000 S.F. WOOD FIBER MULCH MUST BE APPLIED THROUGH A HYDROSEEDER IMMEDIATELY AFTER MULCHING.

   C. PERMANENT SEEDING AND MULCHING:

   SEED - REFER TO PROJECT MANUAL SPECIFICATIONS FOR SEED TYPE, RATE OF SEEDING AND SEASON OF SEEDING. RATE AND SEED TYPE ARE TO MEET THE MINIMUM REQUIREMENTS OF THE NY STANDARDS.

   MULCH - REFER TO PROJECT MANUAL SPECIFICATIONS FOR MULCH TYPE, RATE OF APPLICATION, ETC. RATE AND MULCH TYPE ARE TO MEET THE MINIMUM REQUIREMENTS OF THE NY STANDARDS.

6. TEMPORARY BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS IN ACCORDANCE WITH SECTION 5A OF THE NY STANDARDS.

7. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUN-OFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.

8. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS.

9. STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, ROADWAY, OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A SILT DAM OR STRAW BALE DIKE IN ACCORDANCE WITH NY STANDARDS.

10. A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 2" CRUSHED STONE, 6" THICK, WILL BE AT LEAST 30'X100' AND SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT FILTER FABRIC AND MAINTAINED (SEE DETAIL).

11. ALL CATCH BASIN INLETS WILL BE PROTECTED WITH A FABRIC FILTER CRUSHED STONE OR FABRIC FILTER (FILTER DETAILS APPEAR ON THE PLAN).

12. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.

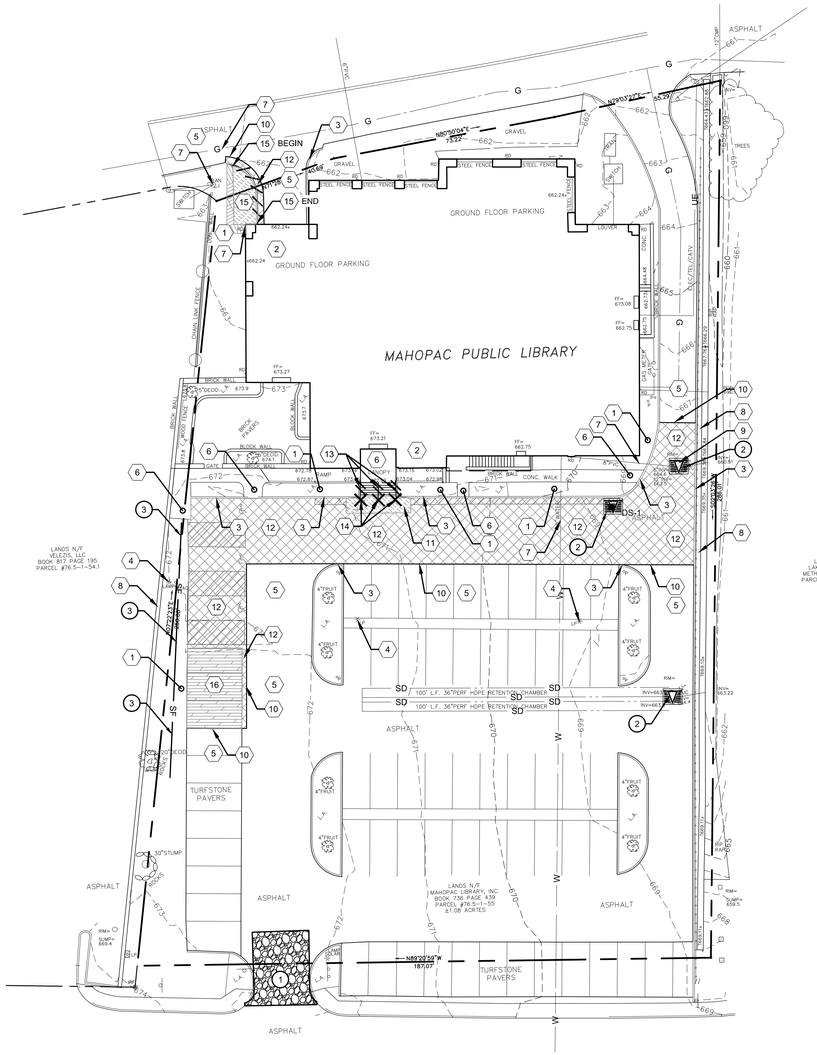
13. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT TRAP OR APPROVED AFTERMARKET PRODUCT IN ACCORDANCE WITH SECTION 5A OF THE NY STANDARDS.

14. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.

15. STABILIZED CONSTRUCTION ENTRANCE AND CONSTRUCTION ACCESS AREAS TO BE RESTORED TO EXISTING CONDITIONS, LAWN RESTORATION SHALL INCLUDE REMOVAL GRANULAR FILL, GRAVEL AND STONE. SCARIFY SUBGRADE. PROVIDE TOPSOIL AND LIGHTLY COMPACT TO BE FLUSH WITH SURROUNDING GRADE. FINE GRADE, FERTILIZE, SEED AND MULCH.

Site Erosion & Sediment Control Sequence

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE PAD.
2. INSTALL TEMPORARY TREE PROTECTION AT EXISTING TREES WITHIN CONSTRUCTION AREA. PRIOR TO COMMENCEMENT OF GRADING OPERATIONS,
3. INSTALL SILT FENCE, SEDIMENT TRAPS AND SEDIMENT BASINS.
4. INSTALL TEMPORARY STORM SEWER INLET PROTECTION AT ALL EXISTING DRAINAGE INLETS THAT WILL BE RECEIVING STORM DRAINAGE FROM CONSTRUCTION ACTIVITIES.
5. PREPARE CONTRACTOR ACCESS DRIVES, PARKING AND STAGING AREAS WITH TYPE 2 FILL OR OTHER SURFACING THAT WILL PREVENT EROSION OF THESE AREAS. STRIP TOPSOIL AND STOCKPILE IN LOCATION SHOWN.
6. SURROUND ALL STOCKPILES WITH SILT FENCE OR HAY BALE BARRIER. THROUGHOUT GRADING OPERATIONS,
7. PROVIDE TEMPORARY AND PERMANENT SEEDING PER SOIL EROSION AND SEDIMENT CONTROL NOTES NOS. 2, 3, & 4.
8. AFTER SLOPES ARE CUT OR FILLED, PROVIDE EROSION CONTROL MATTING AT ALL SLOPES THAT ARE THREE HORIZONTAL TO ONE VERTICAL AND STEEPER.
9. BEFORE COMMENCEMENT OF EXCAVATING FOR FOOTINGS, INSPECT SITE WITH OWNER/ARCHITECT FOR COMPLIANCE WITH SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS.
10. DURING EXCAVATION FOR FOOTINGS, TRENCHES, ETC., WHEN DEWATERING IS REQUIRED, PROVIDE MEANS TO REMOVE SEDIMENT IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE #13 THIS DRAWING.
11. AS STORM STRUCTURES ARE BEING INSTALLED, PROVIDE TEMPORARY STORM SEWER INLET PROTECTION PER DETAIL AT ALL GRATED STORM SEWER INLETS PRIOR TO CONNECTING BASINS TO NEW STORM PIPING. MAINTAIN EROSION CONTROL DEVICES IN FULLY FUNCTIONAL CONDITION THROUGHOUT CONTRACT PERIOD.
12. PROVIDE ADDITIONAL EROSION CONTROL MEASURES AS REQUIRED TO MEET NEW YORK STANDARDS OR AS REQUIRED BY SOIL CONSERVATION DISTRICT.
13. UPON OWNER APPROVAL, REMOVE TEMPORARY SOIL & EROSION CONTROL MEASURES AFTER PERMANENT MEASURES ARE IN PLACE AND FUNCTIONING EFFECTIVELY.



I Site Demolition and SESC Plan
1" = 20'

SCALE: 1" = 20'

Site Phasing Notes

1. INSTALL SOIL EROSION AND SEDIMENT CONTROL MEASURES BEFORE SOIL DISTURBANCE AND INSTALLATION OF OTHER TEMPORARY CONSTRUCTION FEATURES.
2. ACCESS ROADS AND CONSTRUCTION ENTRANCES ARE TO BE KEPT CLEAR AT ALL TIMES.
3. REFER TO PROJECT MANUAL FOR PHASING INFORMATION FOR INSTALLATION OF PAVING, SIDEWALKS, CURBING AND STORM UTILITIES.
4. CONTRACTOR PARKING IS RESTRICTED TO STAGING OR DESIGNATED TEMPORARY PARKING AREAS.
5. AT STAGING AND OTHER TEMPORARY AREAS TO BE RESTORED TO LAWN: THOROUGHLY REMOVE GRAVEL, STONES, DEBRIS, VEGETATION, ETC. FROM EXISTING TOPSOIL AND SCARIFY TO A MINIMUM DEPTH OF 6". AMEND TOPSOIL WITH COMPOST AND NUTRITIONAL AMENDMENTS AND FINE GRADE, FERTILIZE AND SEED OR SOD.
6. AT STAGING AND OTHER TEMPORARY AREAS ON EXISTING PAVING: CONTRACTOR TO REMOVE AND REPLACE EXISTING PAVING IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
7. PAVING THAT IS DAMAGED DUE TO CONSTRUCTION ACTIVITIES IS TO BE REMOVED AND REPLACED IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.
8. LAWN THAT IS DAMAGED DUE TO CONSTRUCTION ACTIVITIES IS TO BE REMOVED AND THE AREA SCARIFIED. PROVIDE NEW TOPSOIL AS REQUIRED TO BRING THE AREA TO MATCH SURROUNDING GRADE. FERTILIZE AND SEED OR SOD.

Site Preparation/Demolition General Notes

1. THESE GENERAL SITE / PREPARATION / DEMOLITION NOTES REFER TO C-SERIES DRAWINGS.
2. THE INTENT OF THIS DRAWING IS TO INDICATE PREPARATORY WORK, REMOVALS AND DEMOLITION NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE REST OF THE CONTRACT DRAWINGS. SOME NOTES ARE GENERAL IN NATURE AND IT SHALL BE UNDERSTOOD THAT IT IS NOT FEASIBLE TO INDICATE EACH AND EVERY SPECIFIC REMOVAL. SITE PREPARATION / DEMOLITION DRAWINGS SHALL NOT BE USED ALONE, BUT SHALL BE USED IN CONJUNCTION WITH THE OTHER DRAWINGS FOR WORK TO BE REMOVED, REUSED, AND / OR REVISED NOT INDICATED HERE.
3. CONTRACTOR TO MAINTAIN UTILITY SERVICES TO BUILDINGS TO REMAIN. IF UTILITY SERVICES MUST BE INTERRUPTED THE CONTRACTOR SHALL COORDINATE THAT SHUTDOWN TO MINIMIZE IMPACT TO BUILDINGS. SEE PROJECT MANUAL REGARDING COORDINATION OF DEMOLITION WORK WITH UTILITY COMPANIES.
4. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE SITE ACCESS TO PEDESTRIAN, VEHICULAR TRAFFIC, EMERGENCY AND HEALTH SAFETY AGENCIES. IF ACCESS WILL BE COMPROMISED IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AT LEAST ONE WEEK IN ADVANCE WITH THE OWNER'S REPRESENTATIVE AND HEALTH SAFETY AGENCIES, UNLESS OTHERWISE NOTED IN THE PROJECT MANUAL.
5. UTILITIES, SIDEWALKS, PAVEMENT, SLABS, FOUNDATIONS, AND MISCELLANEOUS FEATURES NOTED TO BE DEMOLISHED SHALL BE SPOILED OFF-SITE IN A LEGAL MANNER UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE. NO BURNING OF DEBRIS SHALL BE ALLOWED. IMMEDIATELY BACKFILL VOIDS WITH COMPACTED GRANULAR MATERIAL AS SPECIFIED.
6. WHEN A SITE FEATURE IS INDICATED TO BE REMOVED, THE SITE FEATURE, INCLUDING APPURTENANCES AND FOOTINGS, SHALL BE DISPOSED OF LEGALLY OFF SITE, UNLESS OTHERWISE INDICATED. IMMEDIATELY BACKFILL VOIDS WITH COMPACTED GRANULAR MATERIALS AS SPECIFIED.
7. WHEN A SITE FEATURE IS INDICATED TO REMAIN, IT SHALL BE PROTECTED AS INDICATED AND / OR SPECIFIED. WHEN DISTURBANCE OCCURS AROUND AN EXISTING FEATURE, THE CONTRACTOR SHALL USE ADDITIONAL PRECAUTIONS INCLUDING, BUT NOT LIMITED TO HAND DIGGING TO PROTECT THE FEATURE.
8. EXISTING ON-SITE UTILITIES SHALL REMAIN UNLESS DESIGNATED FOR REMOVAL. PROTECT ALL EXISTING UTILITIES TO REMAIN.
9. MANHOLES, CATCH BASINS, CLEAN OUTS, VALVE BOXES, FRAMES, COVERS AND GRATES REMAINING IN USE SHALL BE PROTECTED AND ADJUSTED TO FINAL GRADES. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
10. CONTRACTOR IS RESPONSIBLE TO VERIFY GRADES AND UTILITIES SHOWN ON EXISTING CONDITIONS PLAN PRIOR TO START OF WORK. DISCREPANCIES ARE TO BE DOCUMENTED AND SUBMITTED TO THE OWNER'S REPRESENTATIVE AT THE TIME OF DISCOVERY.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATIONS, INCLUDING, BUT NOT LIMITED TO, UTILITIES, STORM DRAINAGE, SIGNS, ETC. AS INDICATED ON DESIGN DOCUMENTS.
12. IF EXISTING SITE FEATURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION BY CONTRACTOR, SITE FEATURES SHALL BE REPAIRED IN-KIND, TYPICAL.
13. CONTRACTOR TO REMOVE OR RELOCATE, WHEN APPLICABLE, ALL CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPES, POWER POLES, AND GUY WIRES, WATER METERS AND WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, AND ASPHALT, SHOWN AND NOT SHOWN, WITHIN CONSTRUCTION LIMITS AND WHERE NEEDED, TO ALLOW FOR NEW CONSTRUCTION AS SHOWN.
14. CONTRACTOR TO NOTIFY OWNERS REPRESENTATIVE IF UNIDENTIFIED UTILITIES ARE ENCOUNTERED INCLUDING, BUT NOT LIMITED TO, STORM SEWER, SANITARY SEWER, TELECOMMUNICATIONS SERVICE, ELECTRICAL SERVICE, GAS SERVICE, WATER SERVICE, IRRIGATION LINES. UTILITIES LINES TO REMAIN UNDISTURBED UNTIL DIRECTED BY OWNERS REPRESENTATIVE.
15. CONTRACTOR SHALL REQUEST UFPO PRIOR TO START OF ANY WORK. "DIG SAFELY NEW YORK - CALL 811 - BEFORE YOU DIG".

(#) Site Preparation/Demolition Key Notes

1 EXISTING LAWN AREA TO REMAIN - REPAIR AS REQUIRED.
2 EXISTING BUILDING STRUCTURE TO REMAIN. PROTECT.
3 EXISTING CURB TO REMAIN, PROTECT.
4 EXISTING LIGHT POLE TO REMAIN, PROTECT.
5 EXISTING ASPHALT TO REMAIN, PROTECT. (TYPICAL)
6 EXISTING CONCRETE TO REMAIN, PROTECT. (TYPICAL)
7 EXISTING UTILITY TO REMAIN, PROTECT.
8 EXISTING RETAINING WALL AND FENCE TO REMAIN, PROTECT.
9 EXISTING STORM INLET TO REMAIN, PROTECT.
10 SAW CUT EXISTING ASPHALT PAVEMENT, LEAVING NEAT, SMOOTH AND STRAIGHT EDGE (TYPICAL).
11 REMOVE EXISTING CONCRETE PAVEMENT SECTION, INCLUDING AGGREGATE AND SUBBASE. REMOVE ADDITIONAL SUBBASE AS REQUIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK.
12 REMOVE EXISTING ASPHALT PAVEMENT SECTION, INCLUDING AGGREGATE AND SUBBASE. REMOVE ADDITIONAL SUBBASE AS REQUIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK.
13 REMOVE EXISTING HANDRAIL AND HARDWARE. EXISTING STAIR TO REMAIN, PROTECT.
14 REMOVE EXISTING BOLLARD.
15 REMOVE EXISTING CONCRETE CURB AND CONCRETE PAVEMENT INCLUDING AGGREGATE AND SUBBASE. REMOVE ADDITIONAL SUBBASE AS REQUIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK.
16 REMOVE EXISTING POROUS PAVERS, INCLUDING AGGREGATE AND SUBBASE. REMOVE ADDITIONAL SUBBASE AS REQUIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK.

(#) Soil Erosion & Sediment Contol Key Notes

1 PROVIDE STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL 4 / C500.
2 PROVIDE DROP-IN INLET PROTECTION, TYPICAL. SEE DETAIL 2 / C500.
3 PROVIDE SILT FENCE, TYPICAL. SEE DETAIL 1 / C500.

General Site Notes

1. THESE GENERAL SITE NOTES APPLY TO C-SERIES DRAWINGS.
2. REFER TO SURVEY FOR INFORMATION ON EXISTING FEATURES. IF EXISTING FEATURES ARE MISSING, MODIFIED, OBSCURED, OR THERE IS A CONFLICT BETWEEN HOW AN EXISTING FEATURE IS PORTRAYED ON THIS SHEET AND THE SURVEY, THE SURVEY SHALL GOVERN.
3. PRIOR TO CONSTRUCTION, LOCATE AND PROMINENTLY MARK THE PROPERTY LINES IN THE FIELD. PROTECT PROPERTY LINE MARKING AND MONUMENTS DURING CONSTRUCTION UNTIL FINAL ACCEPTANCE.
4. THE SURVEY(S) INCLUDED IN THESE DOCUMENTS ARE PROVIDED FOR INFORMATION ONLY AND ARE THE BASE INFORMATION USED TO PREPARE THE WORK INDICATED ON THESE DRAWINGS. THE DATA INDICATED REGARDING EXISTING CONDITIONS IS NOT INTENDED AS REPRESENTATIONS OR WARRANTIES OF THEIR ACCURACY. BY INCLUSION OF THE SURVEY(S) IN THIS SET OF DOCUMENTS, TETRA TECH AND THE OWNER DO NOT ASSUME RESPONSIBILITY FOR ACCURACY OF THE SURVEY, NOR FOR INTERPRETATIONS OR CONCLUSIONS DRAWN THEREFROM BY THE CONTRACTOR.
5. THE CONTRACTOR SHALL FIELD VERIFY EXISTING FEATURES, CONDITIONS, UTILITIES, PROPERTY LINES AND TOPOGRAPHY PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES WHICH WILL AFFECT THE WORK REQUIRED AS PART OF THE CONTRACT DOCUMENTS SHALL BE IMMEDIATELY REPORTED IN WRITING TO THE ARCHITECT. COMMENCEMENT OF WORK WITHOUT THIS WRITTEN NOTIFICATION SHALL CONSTITUTE CONTRACTOR ACCEPTANCE OF THE EXISTING INFORMATION INDICATED ON THE DRAWINGS AS ACCURATE. NO ADJUSTMENTS TO THE CONTRACT WILL BE MADE FOR THE DISCREPANCIES BROUGHT TO THE OWNER'S ATTENTION AFTER WORK HAS BEGUN.
6. NO ATTEMPT HAS BEEN MADE TO SHOW ALL UNDERGROUND UTILITIES ON THIS DRAWING. CONTACT UNDERGROUND UTILITY LOCATION ORGANIZATION AND LOCAL UTILITY COMPANIES TO VERIFY THE LOCATION OF UTILITIES PRIOR TO EARTHWORK, TRENCHING OR EXCAVATION OPERATIONS.
7. CONTRACT LIMIT LINE SHALL BE TEN FEET OUTSIDE OF LIMITS OF WORK INDICATED ON THESE DRAWINGS AND NOT TO EXTEND BEYOND THE PROPERTY LINE UNLESS OTHERWISE INDICATED.
8. CONTRACTOR SHALL PROVIDE CONSTRUCTION/PROTECTIVE FENCING OR OTHER MEANS NECESSARY TO PROTECT WORK AND TO ENSURE SAFETY OF THE PUBLIC, PEDESTRIANS AND VEHICULAR TRAFFIC DURING CONSTRUCTION.
9. FOR INFORMATION REGARDING SUBSURFACE CONDITIONS AND TEST LOCATIONS, COORDINATE WITH OWNER REGARDING THE AVAILABILITY OF GEOTECHNICAL INFORMATION.
10. AT EDGE OF ALL NEW PAVING MEETING LAWN, REMOVE EXISTING TURF TO MINIMUM OF 4-FT FROM NEW PAVEMENT EDGE, UNLESS OTHERWISE NOTED. CUT NEAT REMOVAL LINE AND SCARIFY EXISTING GRADE. PROVIDE TAMPED TOPSOIL TO BRING EXISTING GRADE FLUSH WITH NEW PAVING. SLOPE LAWN AWAY FROM PAVING TO PREVENT PONDING. FINE GRADE, FERTILIZE, SEED AND MULCH IN ACCORDANCE WITH THE PROJECT MANUAL.

SITE DEMOLITION AND PREPARATION LEGEND

	REMOVE EXISTING ASPHALT PAVEMENT SECTION AND SUBBASE AS REQUIRED
	REMOVE EXISTING CONCRETE PAVEMENT SECTION AND SUBBASE AS REQUIRED
	REMOVE EXISTING ASPHALT PAVER SECTION AND SUBBASE AS REQUIRED
X	REMOVE SITE FEATURE AS INDICATED IN DEMOLITION KEYNOTES (Specific Feature)

SOIL EROSION AND SEDIMENT CONTROL LEGEND

SYMBOL	DESCRIPTION
	TEMPORARY CONSTRUCTION ENTRANCE
SF	SILT FENCE
	DROP-IN INLET PROTECTION

S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Public Library
Mahopac, NY

Alterations and Reconstruction To:
Mahopac Public Library

Site Demolition and SESC Plan

Drawn by:	Date:	Drawing No.:
DFL	12/13/21	C100

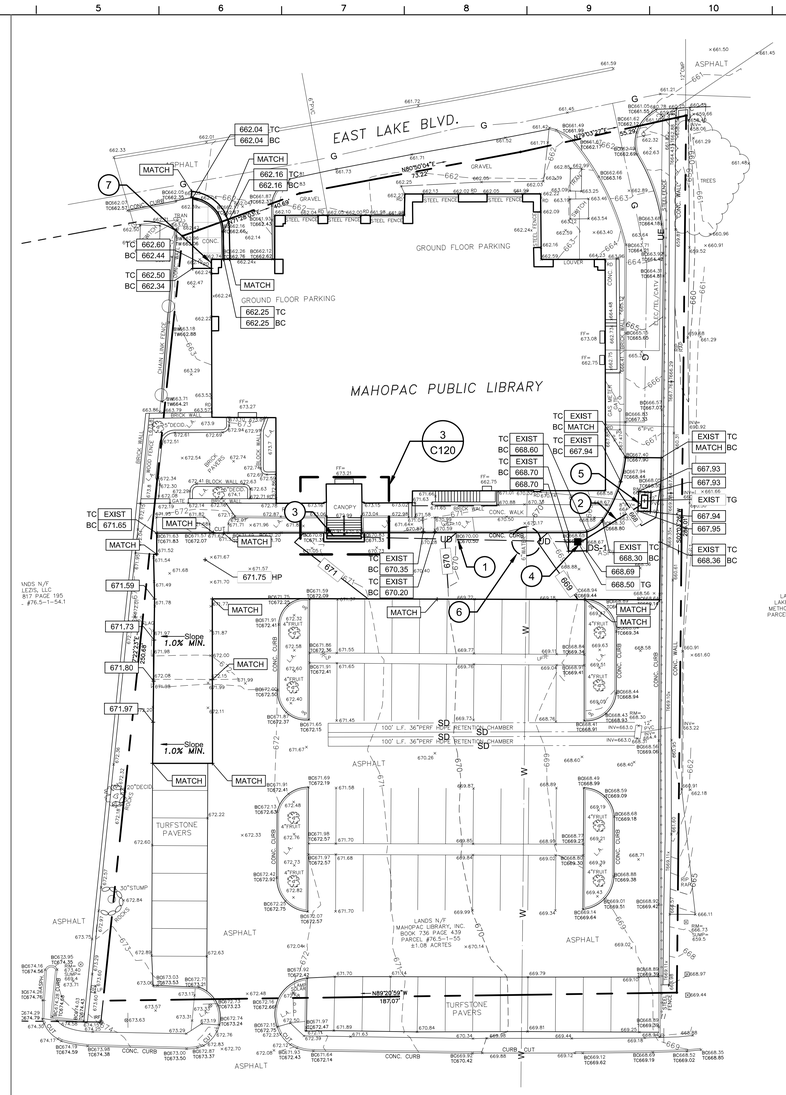
T+ Project No.: 203778-21001

General Grading Plan Notes

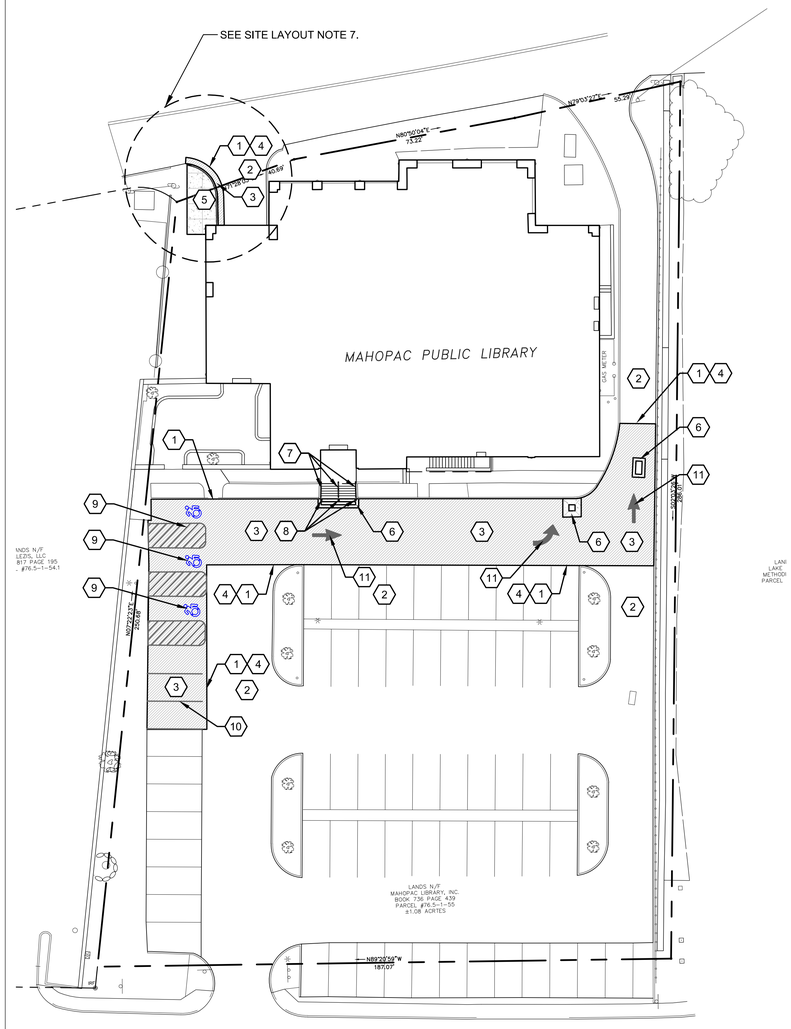
1. ALL FILL MATERIALS, INCLUDING ON-SITE MATERIALS, ARE TO BE SUBMITTED FOR ARCHITECT APPROVAL BEFORE PLACEMENT. REFER TO EARTH MOVING SPECIFICATION FOR REQUIREMENTS.
2. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
3. EXCESS MATERIAL CUT FROM THE SITE (WITH THE EXCEPTION OF TOPSOIL) SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF PER THE PROJECT MANUAL.
4. OWNER'S GEOTECHNICAL ENGINEER TO BE PRESENT FOR ALL FILL AND COMPACTION OPERATIONS, INCLUDING TRENCHES AND STORMWATER STRUCTURES. REFER TO EARTH MOVING SPECIFICATION FOR GEOTECHNICAL TESTING REQUIREMENTS.
5. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES FOR NATURAL AND PAVED AREAS.
6. SPREAD TOPSOIL TO A MINIMUM DEPTH OF 6-INCHES CONTINUOUS SETTLED DEPTH OVER AREAS OF THE SITE WHERE EARTH HAS BEEN DISTURBED, EXCEPT WHERE BUILDING OR PAVING IS PROPOSED.
7. DISTURBED AREAS THAT ARE NOT RECEIVING PAVEMENT SHALL BE FINE GRADED, SEEDED OR SODDED, FERTILIZED AND MULCHED AS PER THE PROJECT MANUAL.
8. AFTER FINE GRADING IS COMPLETED, INFORM THE OWNER AND A/E SO THAT AN INSPECTION OF THE FINE GRADING CAN TAKE PLACE BEFORE SEEDING IS BEGUN. IF INSPECTION DOES NOT TAKE PLACE, APPROVAL OF LAWN MAY BE DELAYED OR DENIED.
9. PROVIDE GRADE ADJUSTING RINGS OR SHIMS AT DROP-INLETS, CATCH BASINS AND MANHOLES IN AREAS SCHEDULED FOR REPAVING OR REGRADING TO BRING RIMS UP TO LEVEL OF NEW FINISHED GRADE.
10. EXISTING AND PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1-FOOT INTERVALS.
11. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING LIDS.
12. IF APPLICABLE, THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL NEW YORK STATE S.P.D.E.S. PERMIT AND PROJECT S.W.P.P.P. FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
13. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
14. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.

General Utility Plan Notes

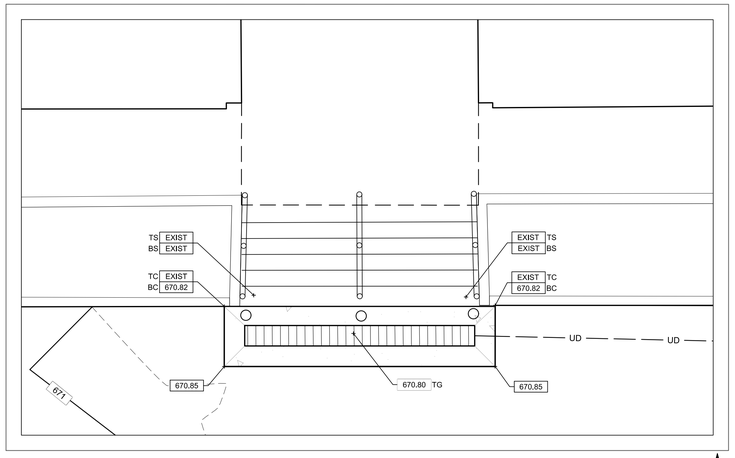
1. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING UTILITY DURING CONSTRUCTION AT NO COST TO THE OWNER.
2. SEE PROJECT MANUAL FOR BACKFILLING AND COMPACTION REQUIREMENTS FOR UTILITY TRENCHES.
3. FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
4. ALL WATER AND OTHER UTILITIES SHOULD BE KEPT TEN-FEET 10-FT) APART (PARALLEL) OR WITH 18 INCH CLEARANCE WHEN CROSSING VERTICALLY (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE.)
5. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
6. TOPS OF EXISTING MANHOLES, DRAINAGE INLETS, HYDRANTS AND WATER LINE VALVE BOXES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS.
7. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
8. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
9. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND/OR MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. CONTRACTOR TO REFER TO PROJECT MANUAL REGARDING COORDINATION WITH UTILITY COMPANIES BEFORE ANY EXCAVATION REGARDING FIELD LOCATION OF UTILITIES.
10. THE CONTRACTOR SHALL CONDUCT REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND THE OWNER'S INSPECTING AUTHORITIES.
11. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT IS NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING, PUMPING AND TREATMENT OF WATER. NO WATER FROM ANY CONSTRUCTION WORK, PROCESS OR AREA SHALL BE RELEASED DOWN STREAM OR INTO STORM SYSTEMS WITH OUT FIRST BEING TREATED TO REMOVE SEDIMENT, OILS, OR OTHER POLLUTANTS.



2 Site Grading and Utility Plan
1" = 20'
SCALE: 1" = 20'



1 Site Layout Plan
1" = 20'
SCALE: 1" = 20'



3 Site Grading and Utility Plan at Main Stair
1" = 3'
SCALE: 1" = 3'

Site Utility and Drainage Keynotes

1. PROVIDE 70 LF 8-INCH PERFORATED HDPE UNDERDRAIN STORM PIPING AT 2.00% SLOPE. SEE DETAIL 6 / C500.
2. PROVIDE 24 LF 12-INCH HDPE STORM PIPING AT 2.00% SLOPE. SEE DETAIL 19 / C500.
3. PROVIDE 11.5 LF (3.5 METER UNITS) 8-INCH TRENCH DRAIN AND TRENCH DRAIN CATCH BASIN WITH ANTI-SLIP GRATE AT 0.50% INTERNAL SLOPE. TRENCH DRAIN CATCH BASIN INVERT OUT = 668.07. SEE DETAILS 9, 12 AND 16 / C500.
4. PROVIDE PRECAST CONCRETE 30-IN BY 30-IN CATCH BASIN (DS-1). SEE DETAIL 8 / C500.
   TOP OF GRATE = 668.50.
   INVERT IN = 666.67.
   INVERT OUT = 666.40.
5. CONNECT STORM PIPING TO EXISTING STORM STRUCTURE AT (ESTIMATED) INVERT 665.92+/-. VERIFY LOCATION AND DEPTH OF EXISTING STRUCTURE PRIOR TO CONSTRUCTION.
6. CROSSING AT EXISTING WATER LINE. CALCULATED TOP OF WATER PIPE AT CROSSING = 665.17+/- *(ASSUMES 4.5-FT OF COVER)*. CALCULATED BOTTOM OF STORM LINE AT CROSSING = 666.91 +/-.
7. EXITING DOWN SPOUT. PROVIDE SPLASH BLOCK AT NEW PAD.

Site Layout Keynotes

1. SMOOTH TRANSITION FROM PROPOSED SURFACE TO ADJACENT EXISTING SURFACE, TYPICAL.
2. EXISTING ASPHALT PAVEMENT, PROTECT.
3. AUTO DUTY ASPHALT PAVING. SEE DETAIL 3 / C500.
4. NEW ASPHALT PAVING AT EXISTING ASPHALT (TYPICAL). SEE DETAIL 5 / C500.
5. CONCRETE EQUIPMENT PAD WITH INTEGRAL FLUSH CURB. SEE DETAIL 11 / C500.
6. CONCRETE APRON AROUND EXISTING / NEW STORM INLET IN ASPHALT PAVEMENT (TYPICAL). SEE DETAIL 10 / C500.
7. STAINLESS STEEL RAILINGS TO SPAN COMPLETE LENGTH OF STAIR AND LANDINGS FROM TOP TO BOTTOM. SEE DETAILS 13 AND 14 / C500. VERIFY IN FIELD EXISTING ELEVATIONS AND STAIR DIMENSIONS PRIOR TO SHOP DRAWING SUBMISSION.
8. DECORATIVE BOLLARD. SEE DETAIL 15 / C500.
9. ACCESSIBLE SYMBOLS WHERE INDICATED AND PARKING STALL STRIPING, SEE DETAIL 17 / C500.
10. TRAFFIC STRIPING AND PARKING STALL STRIPING AS INDICATED, SEE DETAIL 17 / C500.
11. TRAFFIC ARROWS - PAINTED, SEE DETAIL 18 / C500.

General Site Notes

1. REFER TO DRAWING C100 FOR GENERAL SITE NOTES THAT APPLY TO ALL C-SERIES DRAWINGS.

Site Layout Notes

1. LAYOUT DIMENSIONS GIVEN ARE FROM FACE OF BUILDING (FOB), FACE OF CURB (F.O.C.), CENTER LINE (CL) AND EDGE OF PAVEMENTS UNLESS OTHERWISE NOTED.
2. OBJECTS ARE PARALLEL OR PERPENDICULAR TO EACH OTHER UNLESS OTHERWISE NOTED.
3. PAINTED TRAFFIC MARKINGS AND TRAFFIC SIGNS TO COMPLY WITH THE LATEST EDITION OF THE NYSDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND LOCAL REQUIREMENTS.
4. VERIFY DIMENSIONS IN FIELD WITH OWNER'S REPRESENTATIVE ANY DIMENSIONS NOTED AS "V.I.F."
5. AT EDGE OF NEW PAVING MEETING LAWN: ADD TOPSOIL ALONG EDGE OF NEW PAVING TO BRING ADJACENT GRADE FLUSH WITH EDGE OF NEW PAVING AT MAXIMUM 3% SLOPE. CUT NEAT LINE IN EXISTING LAWN AT NEW TOPSOIL LIMIT LINE. REFER TO PROJECT MANUAL SIDEWALK AND ASPHALT PAVEMENT SECTIONS FOR ADDITIONAL REQUIREMENTS.
6. SCORE CONCRETE SIDEWALKS AT 5-FT SQUARE UNLESS OTHERWISE NOTED.
7. SITE CONTRACTOR TO OBTAIN MUNICIPAL HIGHWAY WORK PERMIT FOR REQUIRED WORK IN RIGHT OF WAY. SEE SPECIFICATIONS.

Site Layout Legend

	ASPHALT PAVING - AUTO DUTY
	CONCRETE PAVING
	CONCRETE WALK

GRADING KEY

TC	TOP OF CURB
BC	BOTTOM OF CURB
TS	TOP OF STAIR
BS	BOTTOM OF STAIR
MATCH	MATCH EXISTING GRADE
+	SPOT ELEVATION

ADA Site Notes

1. THE MAXIMUM SLOPE OF ACCESSIBLE PARKING STALLS AND ASSOCIATED ACCESS AISLE SHALL BE 2% (1V:50H).
2. THE MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL ON ACCESSIBLE PATHS SHALL BE 5% (1V:20H).
3. THE MAXIMUM CROSS SLOPE ON ACCESSIBLE PATHS SHALL BE 2% (1V:50H).
4. THE MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL ON ACCESSIBLE RAMPS AND CURB RAMPS SHALL BE 8.33% (1V:12H), AS INDICATED ON THE DETAILS.
5. GROUND SURFACES ON ACCESSIBLE PATHS SHALL BE STABLE, FIRM, AND SLIP RESISTANT.

S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

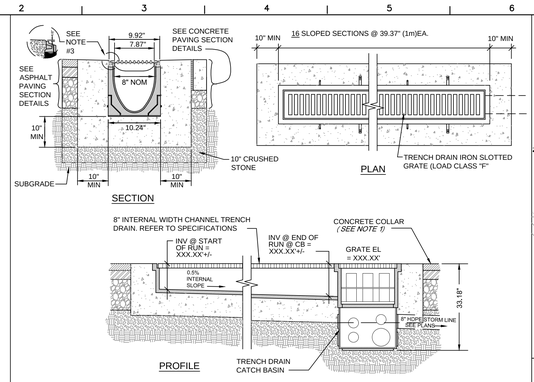
Mahopac Public Library
Mahopac, NY

Alterations and Reconstruction To:
Mahopac Public Library

Site Layout, Grading and Utility Plan

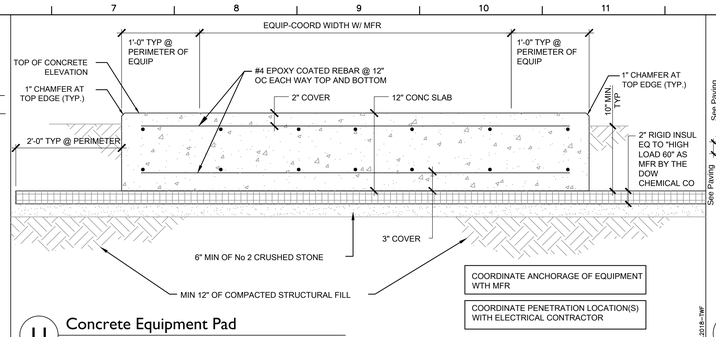
Drawn by:	Date:	Drawing No.:
DFL	12/13/21	C120

T+ Project No.: 203778-21001

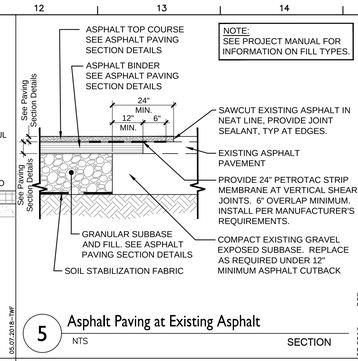


NOTES:
1. A MINIMUM CONCRETE STRENGTH OF 4000 PSI IS REQUIRED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
2. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROXIMATELY 1/8" ABOVE THE TOP OF THE CHANNEL EDGE.
3. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS.
4. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE REQUIRED TO PROTECT CHANNEL AND CONCRETE SURROUND. REFER TO CONCRETE PAVING DETAILS AND SPECIFICATIONS.
5. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR COMPLETE DETAILS.

16 Channel Trench Drain and Catch Basin Detail
Not To Scale

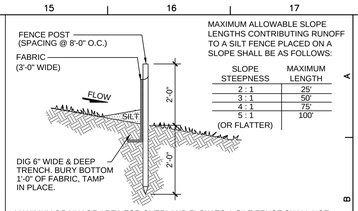


11 Concrete Equipment Pad
N.T.S.



NOTE:
SEE PROJECT MANUAL FOR INFORMATION ON FILL TYPES.

5 Asphalt Paving at Existing Asphalt
NTS SECTION

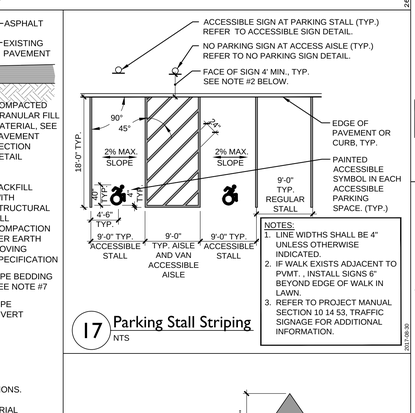


MAXIMUM ALLOWABLE SLOPE LENGTHS CONTRIBUTING RUNOFF TO A SILT FENCE PLACED ON A SLOPE SHALL BE AS FOLLOWS:

SLOPE STEEPNESS	MAXIMUM LENGTH
2 : 1	25'
3 : 1	50'
4 : 1	75'
5 : 1 (OR FLATTER)	100'

* MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED ¼ ACRE PER 100 FEET OF FENCE, WITH A MAXIMUM PONDING DEPTH OF 1.5' BEHIND THE FENCE.
* SILT FENCE SHALL BE UTILIZED ONLY TO CAPTURE SHEET EROSION.
* CONCENTRATED FLOW OF STORMWATER RUNOFF TO THE SILT FENCE BARRIER SHALL NOT BE PERMITTED
* PLACE SILT FENCE AS CLOSE TO DISTURBANCE AREAS AS POSSIBLE, BUT AT LEAST 10' FROM TOE OF SLOPE AREAS TO ALLOW FOR MAINTENANCE.
* WHERE ENDS OF FILTER CLOTH ADJOIN EACH OTHER, OVERLAP 6", FOLD AND STAPLE ENDS TO PREVENT SEDIMENT BYPASS FROM OCCURRING.

1 Silt Fence - Standard
NTS

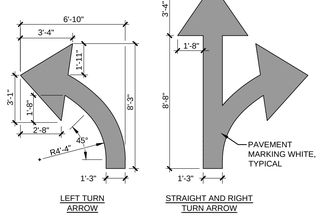


NOTES:
1. INSTALL PIPE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. INCLUDE SHORING AND DEWATERING IN TRENCHING OPERATIONS.
3. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS. THICKNESSES INDICATED ARE MINIMUMS. WHERE EXISTING CONDITIONS EXCEED THOSE SHOWN, MATCH EXISTING.
4. USE MOVABLE PROTECTIVE TRENCH SHIELDS IN UNSHEETED TRENCH AREAS AS REQUIRED BY OSHA REGULATIONS.
5. MINIMUM BURY DEPTHS SHOWN ABOVE APPLY UNLESS OTHERWISE INDICATED.
6. PROVIDE DETECTABLE WARNING TAPE AS SPECIFIED.
7. PIPE BEDDING SHALL BE:
   STORM - USE STRUCTURAL FILL OR APPROVED FILL MATERIAL IN PIPE ZONE.

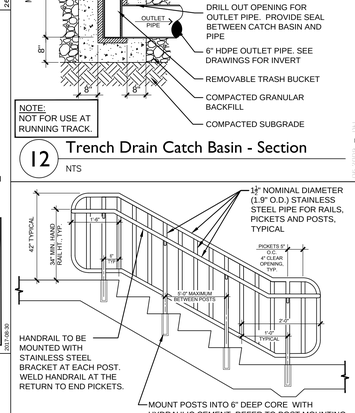
19 Pipe Trench
NTS

NOTES:
1. LINE WIDTHS SHALL BE 4" UNLESS OTHERWISE INDICATED.
2. IF WALK EXISTS ADJACENT TO PVMT., INSTALL SIGNS 6" BEYOND EDGE OF WALK IN LAWN.
3. REFER TO PROJECT MANUAL SECTION 10 14 53, TRAFFIC SIGNAGE FOR ADDITIONAL INFORMATION.

17 Parking Stall Striping
NTS

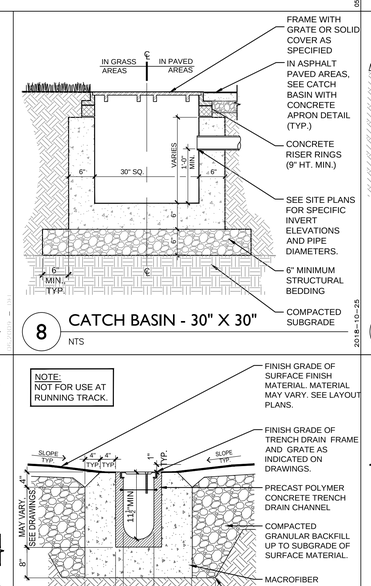


18 Traffic Arrows - Painted
NTS

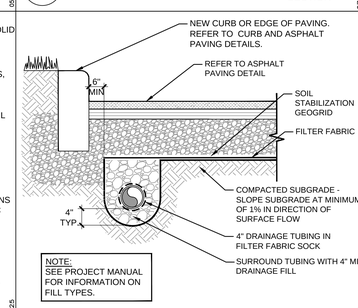


NOTE:
NOT FOR USE AT RUNNING TRACK.

12 Trench Drain Catch Basin - Section
NTS

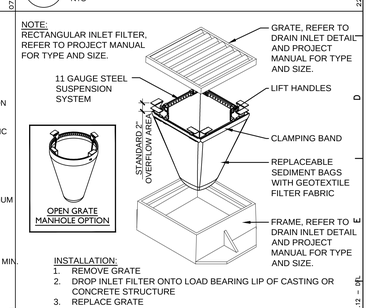


8 CATCH BASIN - 30" X 30"
NTS



NOTE:
SEE PROJECT MANUAL FOR INFORMATION ON FILL TYPES.

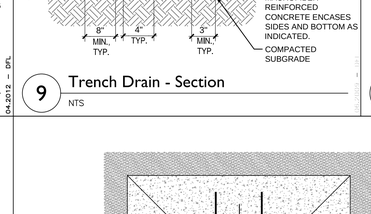
6 Asphalt Paving with Underdrain
NTS SECTION



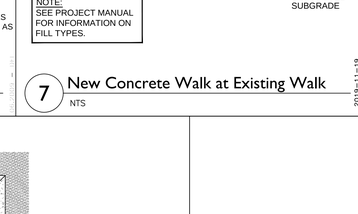
2 Drop Inlet Protection - Drop In Filter
NTS

NOTES:
1. REFER TO EXTERIOR STAINLESS STEEL RAILINGS SPECIFICATION SECTION.
2. GRIND ALL WELDS SMOOTH. PROTECT FINISH.

13 Guardrail with Handrail - Stainless Steel
N.T.S.

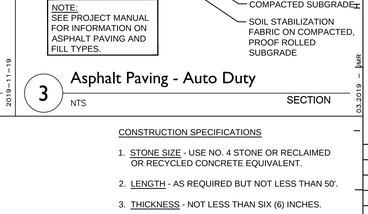


9 Trench Drain - Section
NTS



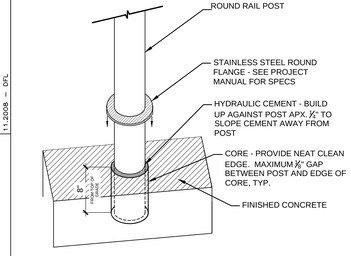
NOTE:
SEE PROJECT MANUAL FOR INFORMATION ON FILL TYPES.

7 New Concrete Walk at Existing Walk
NTS

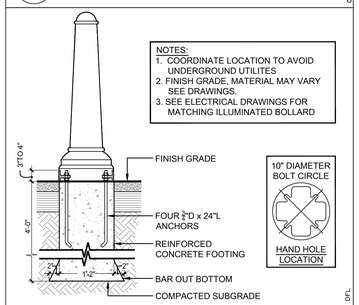


NOTE:
SEE PROJECT MANUAL FOR INFORMATION ON ASPHALT PAVING AND FILL TYPES.

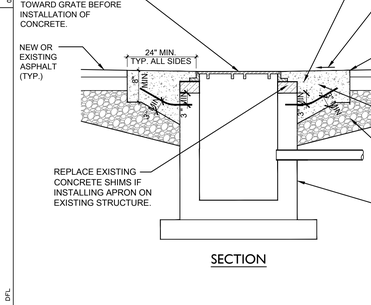
3 Asphalt Paving - Auto Duty
NTS SECTION



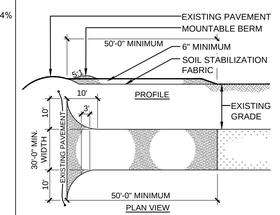
14 Rail Post Mounting - Round
NTS



15 Decorative Bollard
NTS



10 CATCH BASIN WITH CONCRETE APRON
NTS



NOTE:
PROVIDE THE STABILIZED CONSTRUCTION ENTRANCE PER DETAIL AT ENTRANCE WHERE INDICATED ON PLANS. VERIFY LOCATION IN FIELD WITH ARCHITECT PRIOR TO CONSTRUCTION.

4 Stabilized Construction Entrance
NTS

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE NO. 4 STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED BUT NOT LESS THAN 50'.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - THIRTY (30) FEET MINIMUM BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE EGRESS OCCURS.
5. SOIL STABILIZATION FABRIC - WILL BE PLACED OVER ENTIRE AREA PRIOR TO PLACEMENT OF STONE.
6. SURFACE WATER - SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH A 5H:1V SLOPE SHALL BE CONSTRUCTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO EXIT ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE, WHICH DRAINS INTO AN ARCHITECT APPROVED SEDIMENT TRAPPING DEVICE.
9. REGULAR INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS REQUIRED.

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

TETRA TECH
ARCHITECTS & ENGINEERS

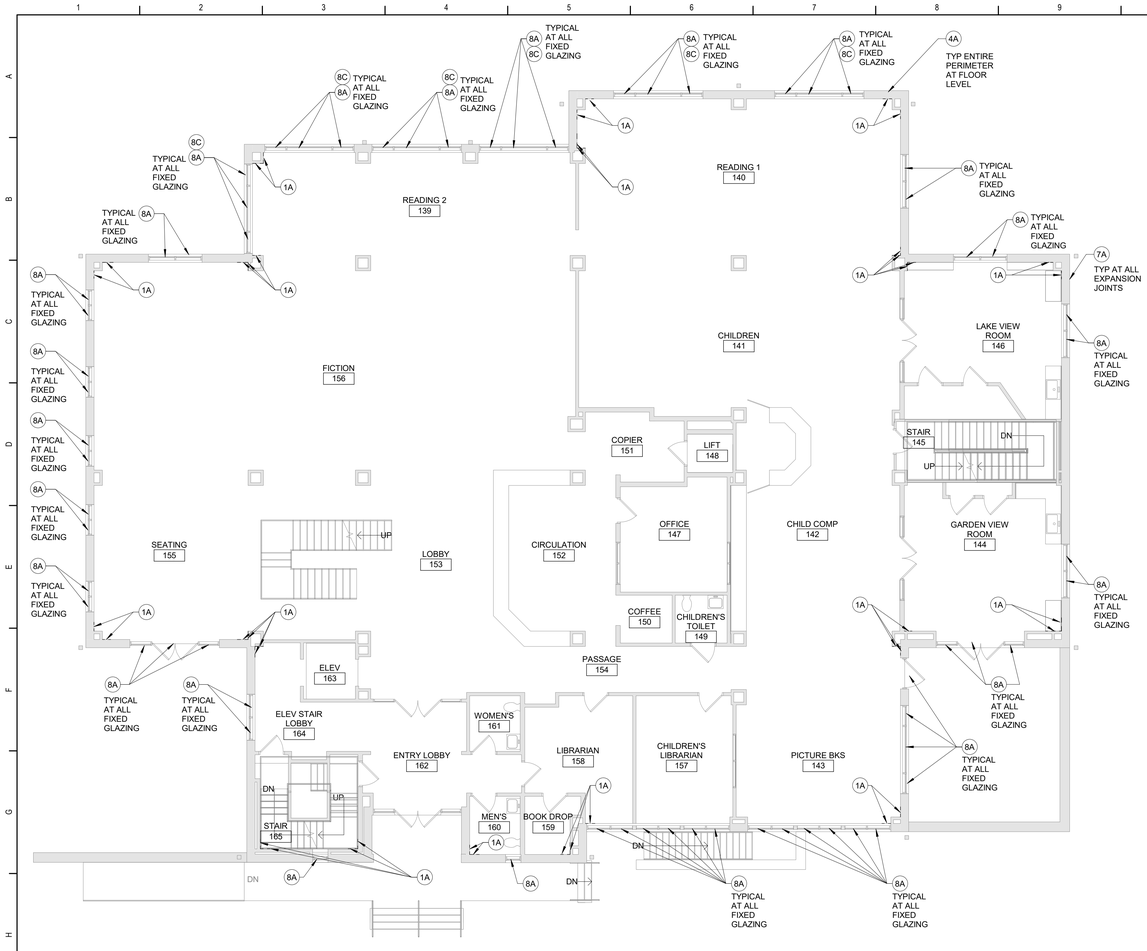
Mahopac Public Library
Mahopac, NY

Alterations and Reconstruction To:
Mahopac Public Library

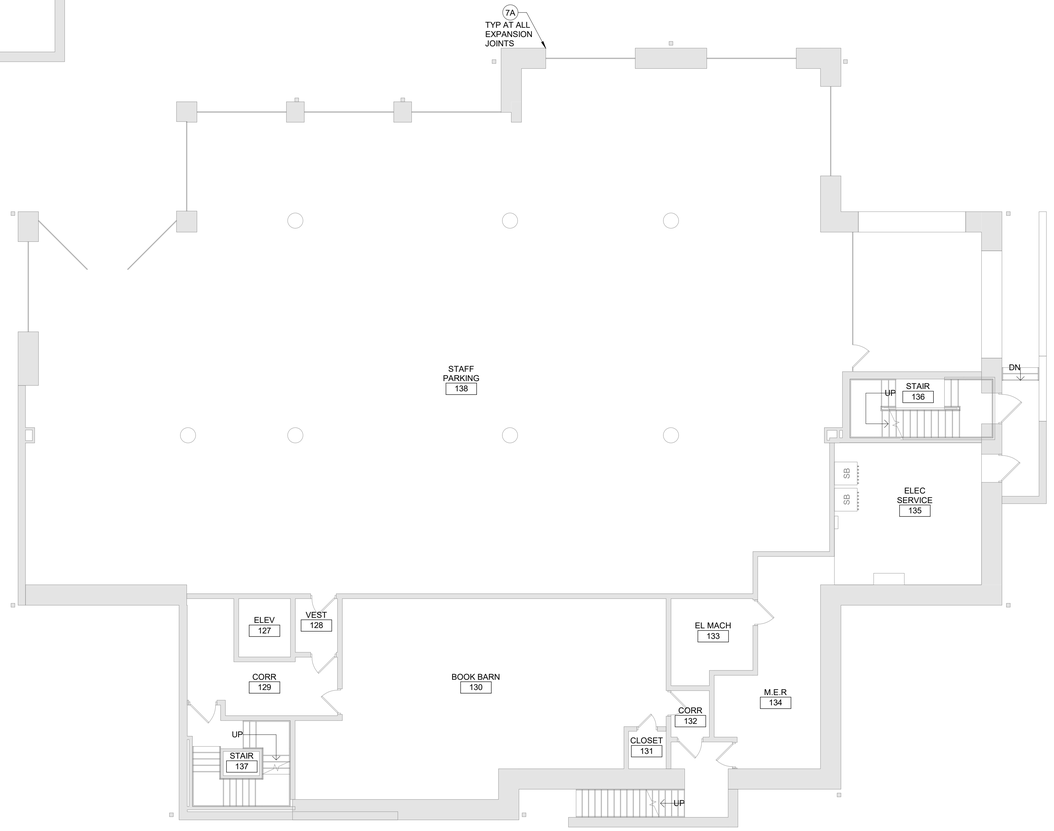
Site Details

Drawn by:	Date:	Drawing No.:
DFL	12/13/21	C500

T+ Project No.:
203778-21001



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



1 Basement Floor Demolition Plan
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.

Demolition Key Notes

1A REMOVE INTERIOR WALL SURFACE AS REQUIRED TO PERFORM SCHEDULED WORK, INCLUDING BUT NOT LIMITED TO GYPSUM BOARD, CHAIR RAILS AND PROTECTIVE WALL COVERING. REMOVALS TO START 10" ABOVE FINISHED FLOOR AND TERMINATE 6" BELOW FINISHED CEILING FOR A LENGTH AS REQUIRED TO PERFORM SCHEDULED WORK. CHAIR RAIL AND PROTECTIVE WALL COVERING TO BE SALVAGED FOR REINSTALLATION. EXISTING STRUCTURE AND WINDOW SYSTEM TO REMAIN. WALL BASE AND CEILING TO REMAIN, DO NOT DISTURB.

1B REMOVE EXTERIOR SOFFIT FINISH AND HORIZONTAL SOFFIT SUPPORT FRAMING IN ITS ENTIRETY, TYP UNO.

4A RAKE OUT MORTAR FROM VERTICAL HEAD JOINTS. REMOVE EXISTING WEEP TUBES, VACUUM DEBRIS FROM JOINTS, AND PREPARE JOINTS FOR NEW WORK. REFER TO DETAIL 5/A600.

5A REMOVE, STORE AND PROTECT ENTIRE METAL GUARDRAIL SYSTEM FOR REINSTALLATION. PREPARE SURFACES FOR SCHEDULED WORK.

7A REMOVE MERCURY CONTAINING MASONRY VENEER EXPANSION JOINT CAULKING AND BACKER ROD COMPLETELY FROM SUBSTRATE. REFER TO MERCURY CAULK REMOVAL NOTES. TYPICAL AT ALL MASONRY VENEER EXPANSION JOINT LOCATIONS. CLEAN AND PREPARE AREA TO THE EXTENT REQUIRED TO PERFORM NEW WORK.

7B REMOVE DOWNSPOUT. PATCH GUTTER AT DOWNSPOUT DISCHARGE AND SEAL. MATCH ADJACENT FINISH.

7C REMOVE GUTTER END CAP TO SPAN NEW GUTTER.

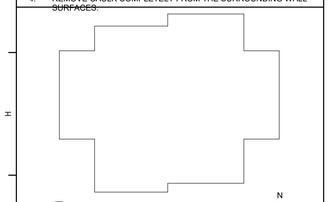
8A REMOVE GLAZING GASKET, MULLION CAPS AND GLAZING AS REQUIRED FOR SCHEDULED WORK FOR EFCO STOREFRONT SYSTEM 403 SERIES AND CURTAINWALL SYSTEM 5600 SERIES.

8B REMOVE OPERABLE WINDOW SASH, AND HARDWARE. PROTECT AND PREPARE FRAME FOR SCHEDULED WORK. EXISTING HINGES TO REMAIN.

8C REMOVE SEALANT FROM JAMBS AS REQUIRED FOR SCHEDULED WORK FOR EFCO CURTAIN WALL SYSTEM SERIES 5600.

Mercury Caulk Removal Notes

1. REMOVE AND DISPOSE OF MERCURY CONTAINING EXTERIOR CONTROL JOINT/EXPANSION JOINT CAULKING AND ASSOCIATED BACKING MATERIAL.
2. REMOVE AND DISPOSE OF CAULK AND BACKING MATERIAL AS HAZARDOUS MATERIAL.
3. PERFORM WORK IN ACCORDANCE WITH SECTION 02 84 00 - HAZARDOUS MATERIAL REMOVAL.
4. REMOVE CAULK COMPLETELY FROM THE SURROUNDING WALL SURFACES.



Key Plan
N.T.S.

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S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

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ARCHITECTS & ENGINEERS

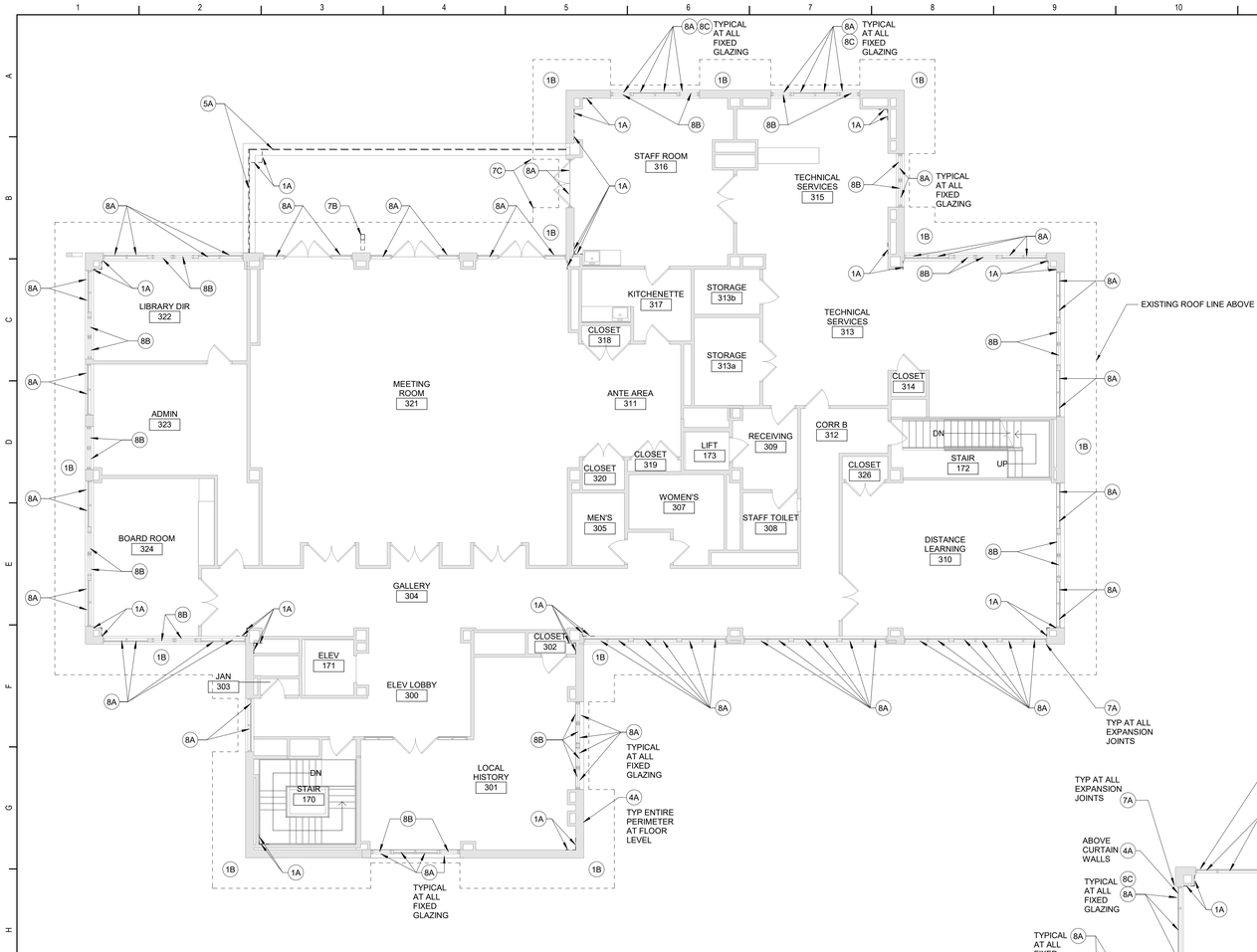
Mahopac Public Library
Mahopac, New York

Reconstruction To:
Mahopac Public Library

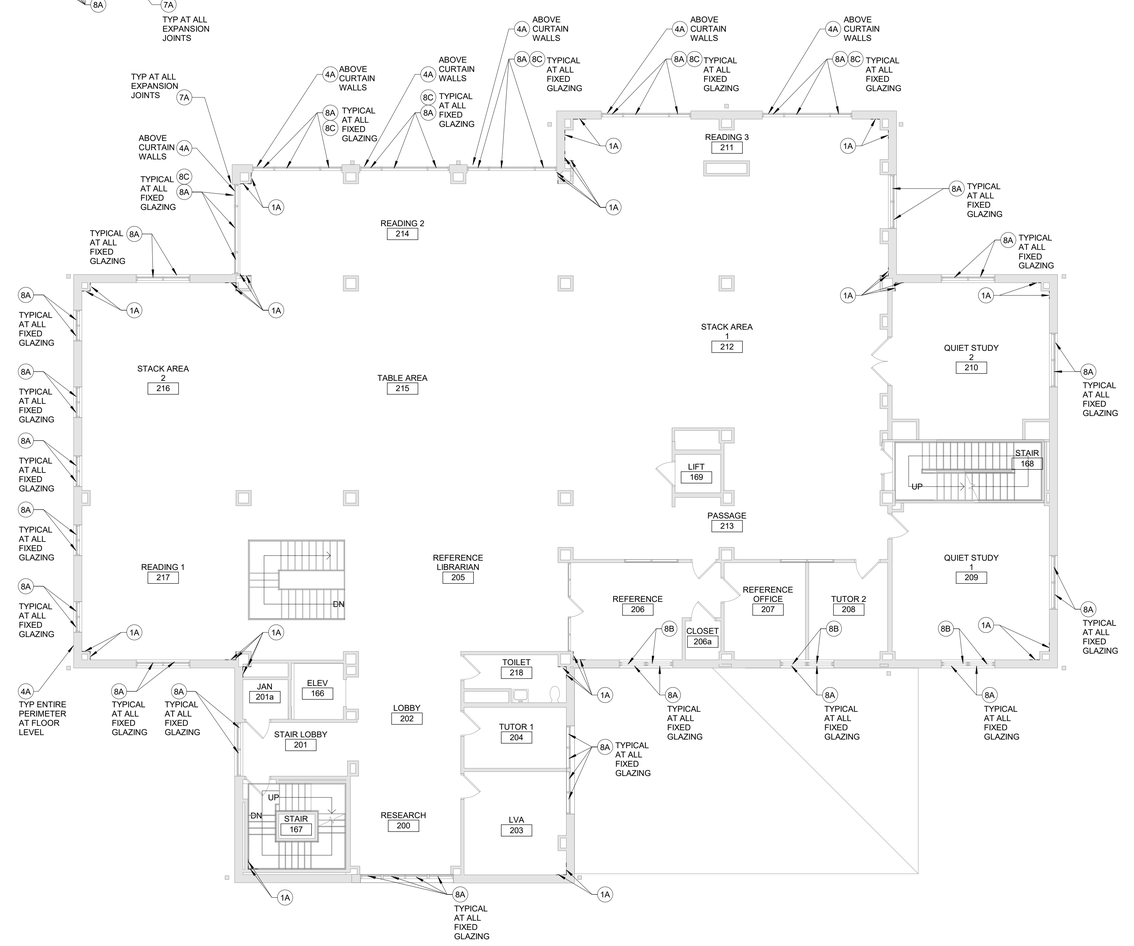
Basement and First Floor Demolition Plans

Drawn By:	Date:	Drawing Number:
TLG	12/13/21	A100

Project No.:
203778-21001



2 Third Floor Demolition Plan
1/8" = 1'-0"



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

General Demolition Notes

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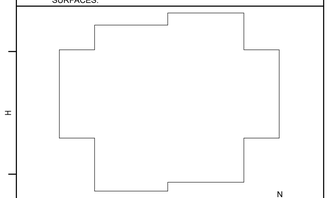
4. REMOVE CAULK COMPLETELY FROM THE SURROUNDING WALL SURFACES.



Key Plan
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S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

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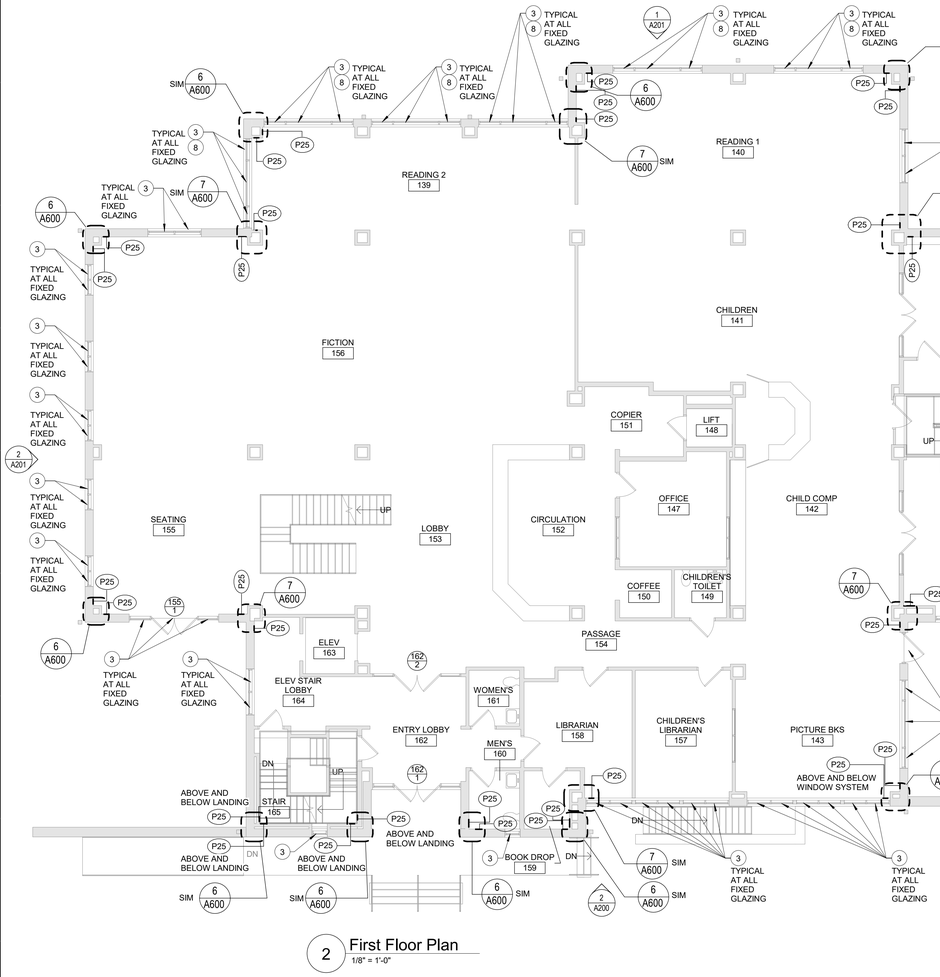
ARCHITECTS & ENGINEERS

Mahopac Public Library
Mahopac, New York

Reconstruction To:
Mahopac Public Library

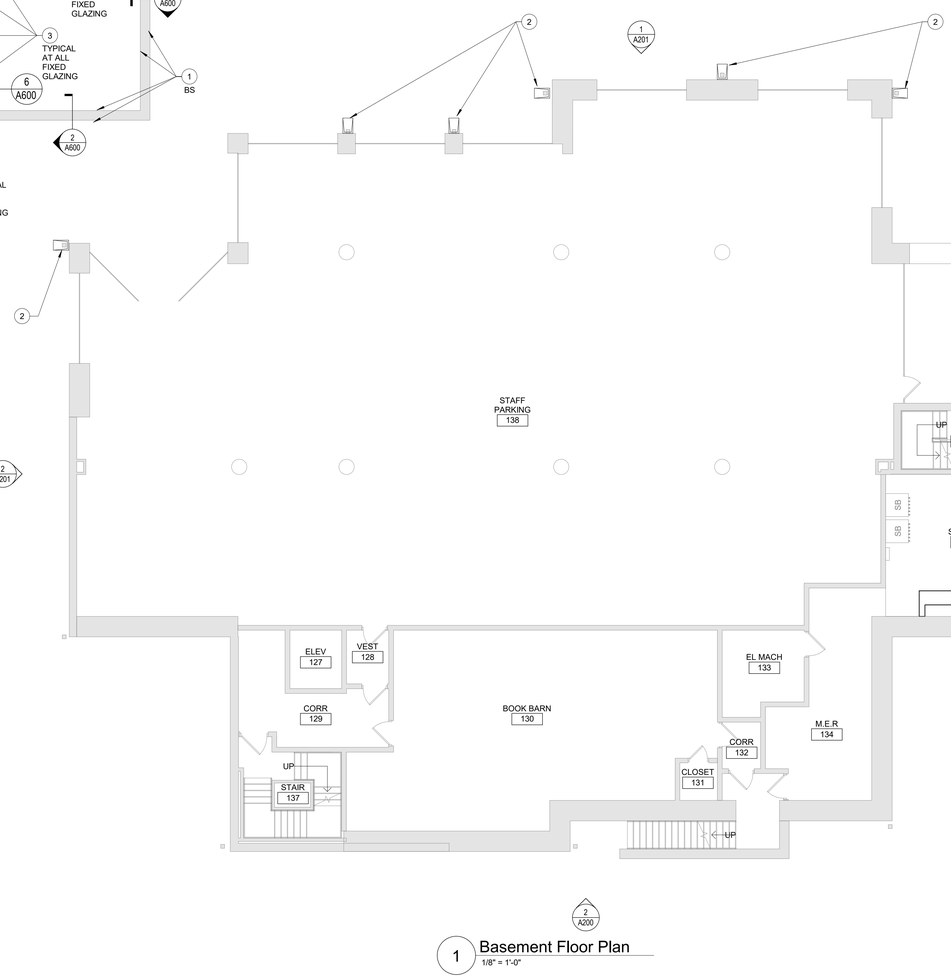
Second and Third Floor Demolition Plans

Drawn By:	Date:	Drawing Number:
TLG	12/13/21	A101
Project No.: 203778-21001		



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

NOTE TO PAINTER:
FOR ALL AREAS OF PRIME, PATCH AND PAINTING AS INDIDICATED ON DRAWINGS AND DETAILS- PROVIDE COMPUTER COLOR MATCH TO ALL AREAS OF PAINTING -PROVIDE TEST STRIP AREAS TO ENSURE CORRECT COLOR MATCH BEFORE PAINTING ENTIRE WALL/SOFFIT AREAS. VERIFY THE CORRECT MATCH TO ADJACENT SHEEN LEVEL. REFER TO SPEC FOR



1 Basement 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 WORK AREA INDICATED BY THAT TAG. TYPICAL UNLESS NOTED OTHERWISE.

General Window Notes

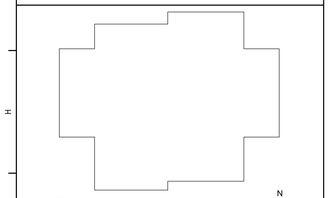
A. INSULATING GLASS UNITS SHALL BE TYPE FCE/FC, TYP UNO.

B. EXISTING EFCO CURTAIN WALL SERIES 5600, NEW ACCESSORIES MUST BE COMPATIBLE WITH EXISTING CURTAINWALL SYSTEM.

C. EXISTING EFCO STOREFRONT SERIES 403. NEW ACCESSORIES AND CASEMENT WINDOWS MUST BE COMPATIBLE WITH EXISTING STOREFRONT SERIES.

Plan Key Notes

1. CLEAN AND REPOINT BRICK
2. PROVIDE PRECAST SPLASH BLOCK AT ALL DOWNSPOUTS THAT DISCHARGE AT GRADE. REFER TO DETAIL 3/A190 .
3. PROVIDE GLAZING BLOCKS AND ANTI-WALK BLOCKS PER MANUFACTURERS RECOMMENDATIONS TO RESET GLAZING IN EFCO STOREFRONT SERIES 403 AND CURTAIN WALL SERIES 5600. ADJUST GLAZING. PROVIDE GASKET AND REINSTALL MULLION CAPS AS REQUIRED TO COMPLETE WORK.
4. PROVIDE NEW CASEMENT SASH IN EXISTING EFCO STOREFRONT FRAME SERIES 403 ON EXISTING HINGES PER MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE TWO 208V, 2P 30A BREAKERS IN EXISTING PANEL LP3, WITH AIC RATING TO MATCH EXISTING PANEL. BREAKERS TO BE 30mA GFCI TYPE.
6. PROVIDE NEMA 3R HEAT TRACE CONTROLLER, MOUNTED ON EXTERIOR OF BUILDING. PROVIDE TWO HEAT TRACE CIRCUITS FOR GUTTER AND DOWN SPOUTS ON NORTH SIDE OF BUILDING. REFER TO A190 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
7. PROVIDE HEAT TRACE CIRCUIT FOR DOWNSPOUTS FROM BALCONY ON NORTH SIDE OF BUILDING. REFER TO A190 AND SPECIFICATION FOR ADDITIONAL INFORMATION
8. PROVIDE SEALANT AT EFCO CURTAINWALL SYSTEM 5600 JAMBS



Key Plan
N.T.S.

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S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

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ARCHITECTS & ENGINEERS

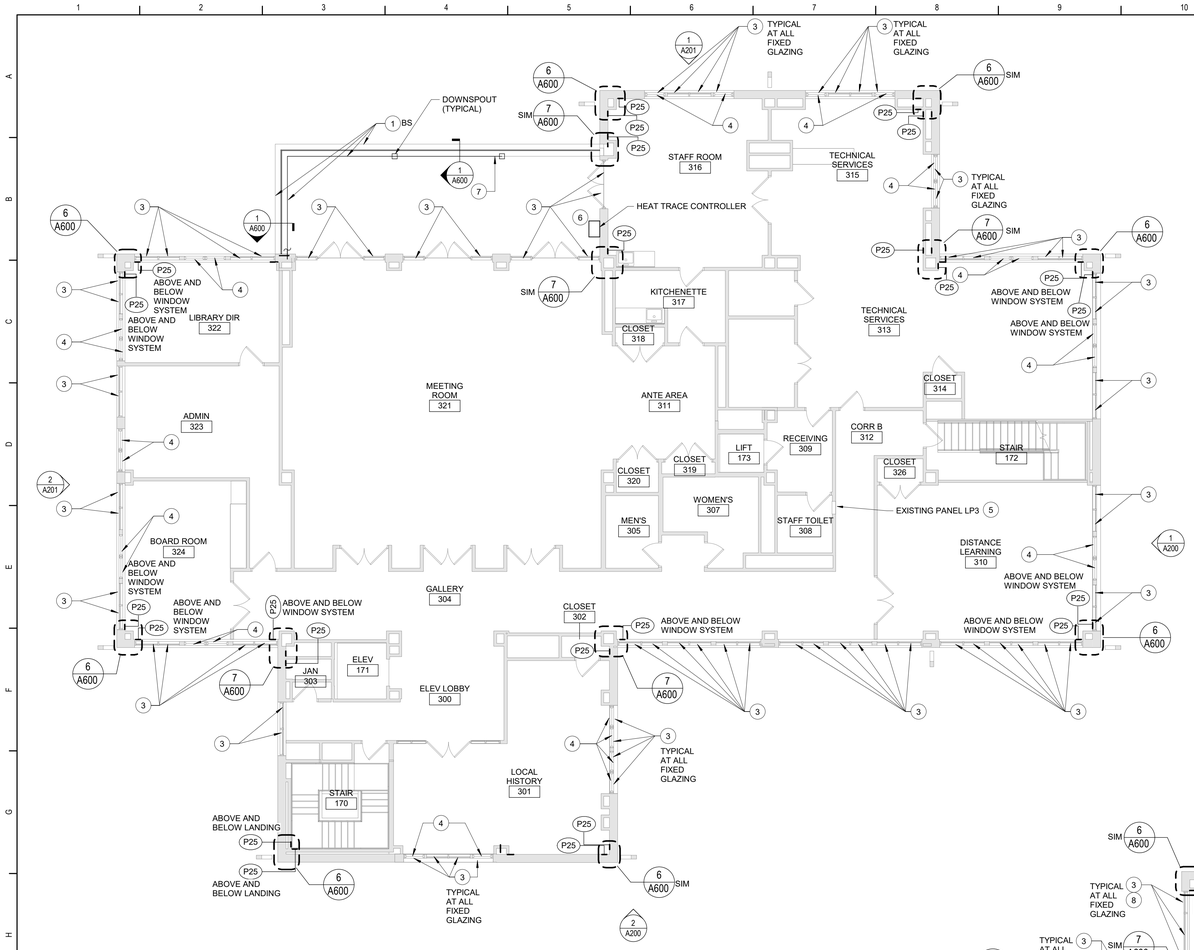
Mahopac Public Library
Mahopac, New York

Reconstruction To:
Mahopac Public Library

Basement and First Floor Plans

Drawn By:	Date:	Drawing Number:
TLG	12/13/21	A130

Project No.:
203778-21001



2 Third Floor Plan
1/8" = 1'-0"

NOTE TO PAINTER:
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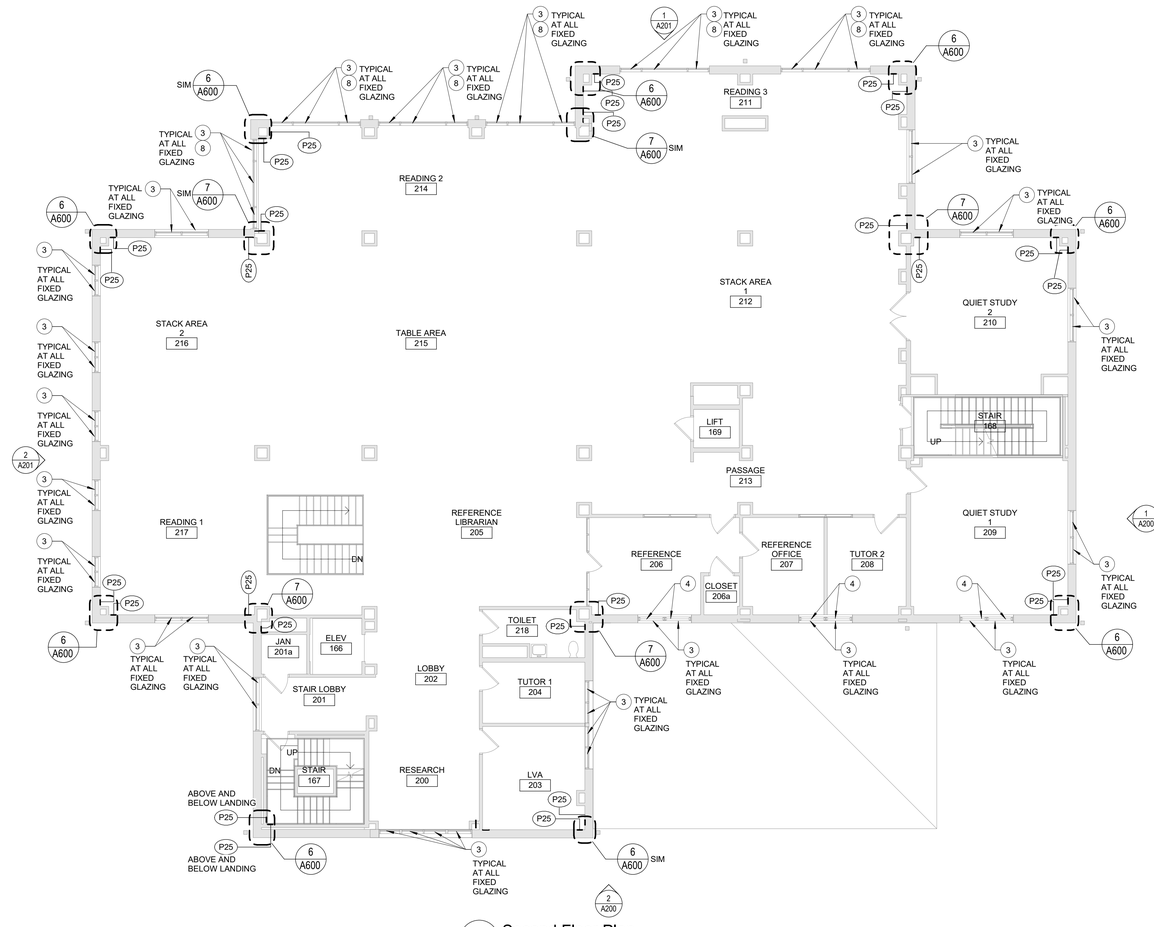

1 Second Floor Plan
1/8" = 1'-0"

General Plan Notes

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

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C. EXISTING EFCO STOREFRONT SERIES 403. NEW ACCESSORIES AND CASEMENT WINDOWS MUST BE COMPATIBLE WITH EXISTING STOREFRONT SERIES.

Plan Key Notes

1. CLEAN AND REPOINT BRICK
2. PROVIDE PRECAST SPLASH BLOCK AT ALL DOWNSPOUTS THAT DISCHARGE AT GRADE. REFER TO DETAIL 3 / A190 .
3. PROVIDE GLAZING BLOCKS AND ANTI-WALK BLOCKS PER MANUFACTURERS RECOMMENDATIONS TO RESET GLAZING IN EFCO STOREFRONT SERIES 403 AND CURTAIN WALL SERIES 5600. ADJUST GLAZING. PROVIDE GASKET AND REINSTALL MULLION CAPS AS REQUIRED TO COMPLETE WORK.
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7. PROVIDE HEAT TRACE CIRCUIT FOR DOWNSPOUTS FROM BALCONY ON NORTH SIDE OF BUILDING. REFER TO A190 AND SPECIFICATION FOR ADDITIONAL INFORMATION
8. PROVIDE SEALANT AT EFCO CURTAINWALL SYSTEM 5600 JAMBS

Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

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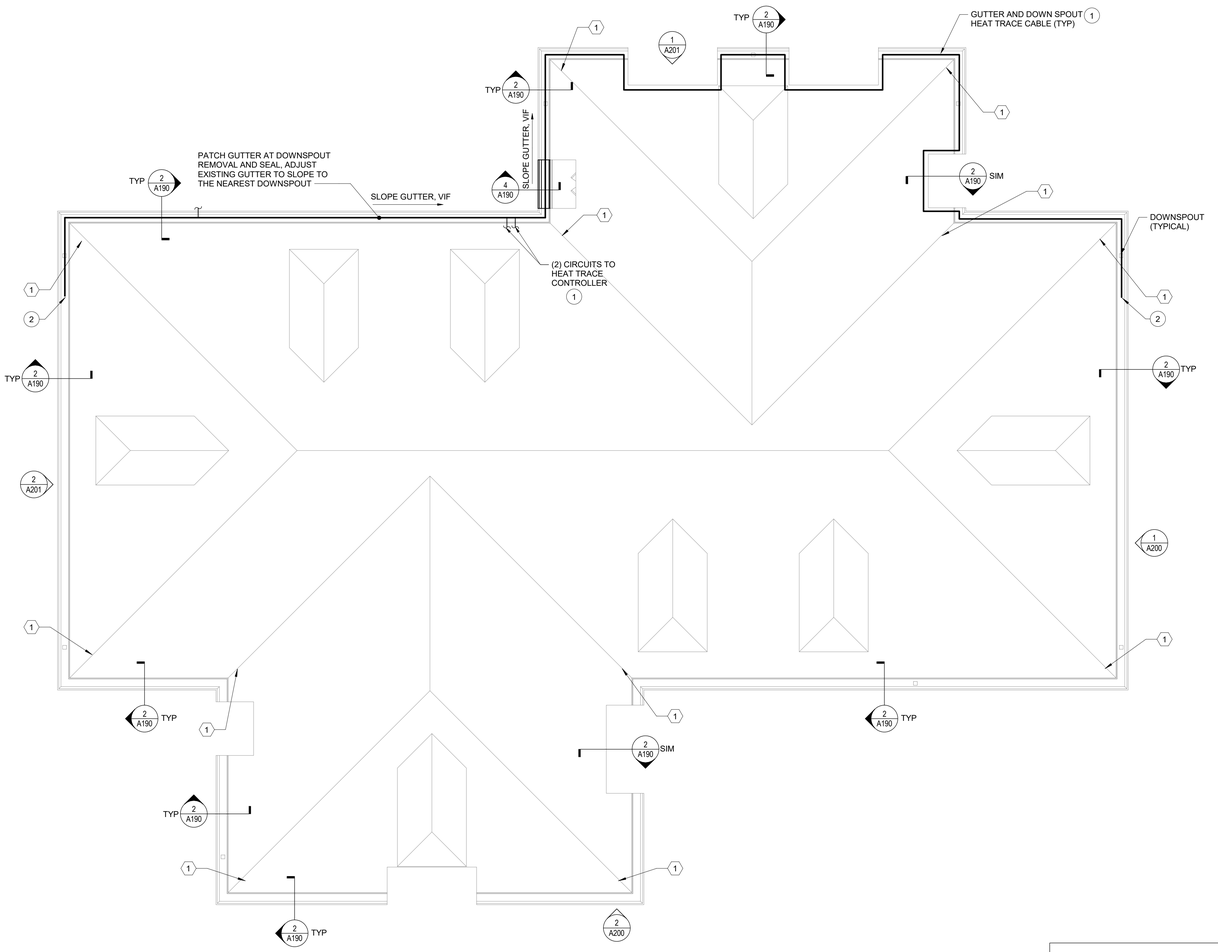
ARCHITECTS & ENGINEERS

Mahopac Public Library
Mahopac, New York

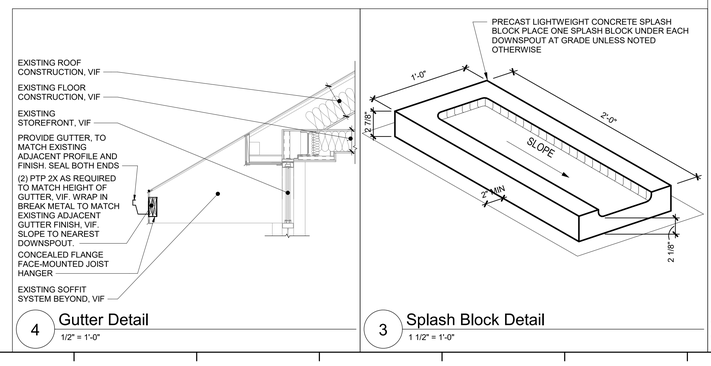
Reconstruction To:
Mahopac Public Library

Second and Third Floor Plans

Drawn By:	Date:	Drawing Number:
TLG	12/13/21	A131
Project No.: 203778-21001		

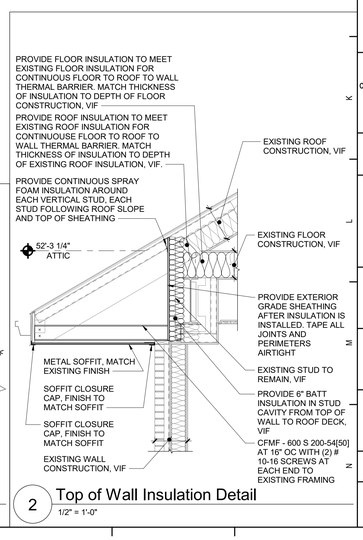


1 Roof Plan
1/8" = 1'-0"



4 Gutter Detail
1/2" = 1'-0"

3 Splash Block Detail
1 1/2" = 1'-0"



2 Top of Wall Insulation Detail
1/2" = 1'-0"

General Soffit Notes

A. DRAWINGS ARE REPRESENTATIVE, AND MAY NOT EXACTLY INDICATE ALL FIELD CONDITIONS.

B. PROVIDE COMPLETE SOFFIT INSTALLATION. REPAIR ALL ITEMS NOT SCHEDULED FOR WORK THAT ARE DAMAGED DURING SOFFIT WORK.

C. MAINTAIN WATERTIGHT CONDITIONS AT ALL TIMES.

D. PROVIDE SOFFIT SYSTEMS AND ALL RELATED COMPONENTS INDICATED BY THE CONTRACT DOCUMENTS.

E. ONCE EXPOSED TO VIEW, FIELD VERIFY CONDITION OF EXISTING INSULATION WITH ARCHITECT AND OWNER. IF DEEMED TO BE IN SERVICEABLE CONDITION, INSULATION MAY BE PERMITTED TO REMAIN.

F. REMOVE AND LEGALLY DISPOSE OF ALL MATERIALS INDICATED FOR DEMOLITION.

G. WOOD BLOCKING SHALL BE PRESERVATIVE-TREATED (PTP).

H. DO NOT DISTURB OR OVERBURDEN EXISTING ROOF.

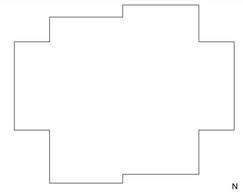
Soffit Key Note

1 PREPARE, PRIME AND PAINT EXISTING STEEL ANGLES, APPROXIMATELY 3'-0" FROM THE MOST EXTERIOR END TO THE TRANSITION OF FIREPROOFED STEEL. DO NOT DISTURB FIREPROOFING. REFER TO SPECIFICATION 09 96 00 HIGH PERFORMANCE COATING.

Keyed Notes:

1 PROVIDE TWO HEAT TRACE CIRCUITS FOR GUTTER AND DOWNSPOUT ON NORTH SIDE OF BUILDING. REFER TO A131 AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

2 EXTEND GUTTER HEAT TRACE 5FT SOUTH OF LAST EAST AND WEST DOWNSPOUT.



Key Plan
N.T.S.

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S.E.D. Control No. 48-01-01-06-6-017-004

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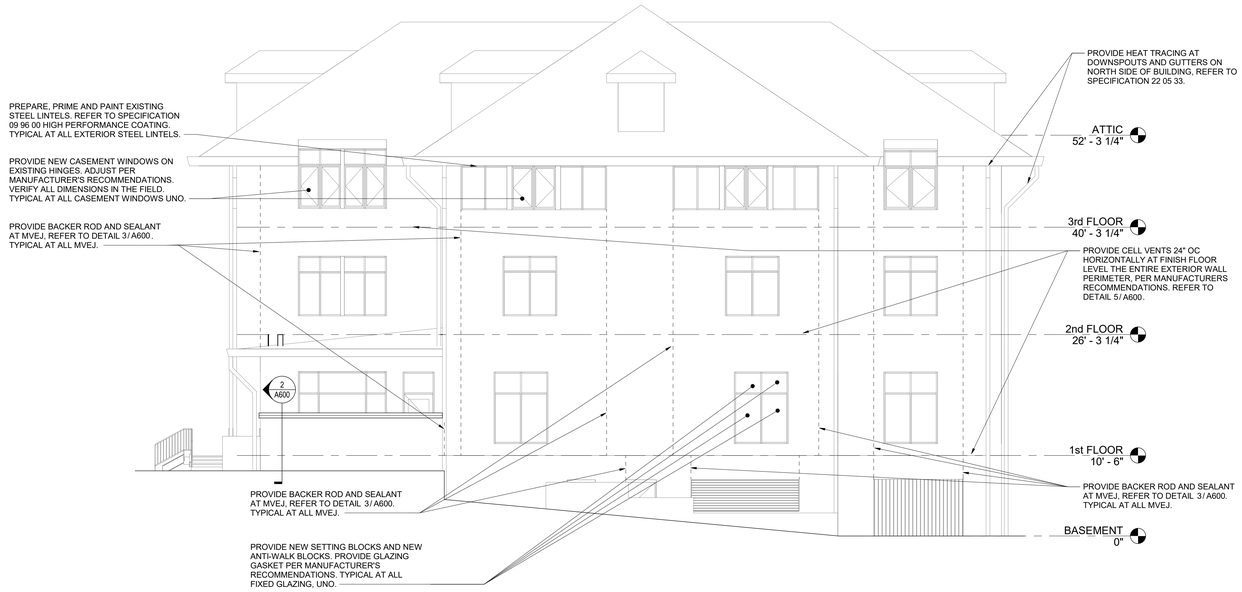
Mahopac Public Library
Mahopac, New York

Reconstruction To:
Mahopac Public Library

Roof Plan and Details

Drawn By:	Date:	Drawing Number:
TLG	12/13/21	A190

Project No.: 203778-21001



1 East Elevation
1/8" = 1'-0"

2 South Elevation
1/8" = 1'-0"

General Elevation Notes

A. NOTES DESCRIBED ON ONE ELEVATION APPLY TO ALL ELEVATIONS, TYPICAL UNLESS OTHERWISE NOTED.

B. APPLY CONTINUOUS SEALANT WITH BACKER ROD AT ALL BLDG EXPANSION JOINTS AND MASONRY VENEER EXPANSION JOINTS (MVEJ).

Key Plan
N.T.S.

N

S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

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ARCHITECTS & ENGINEERS

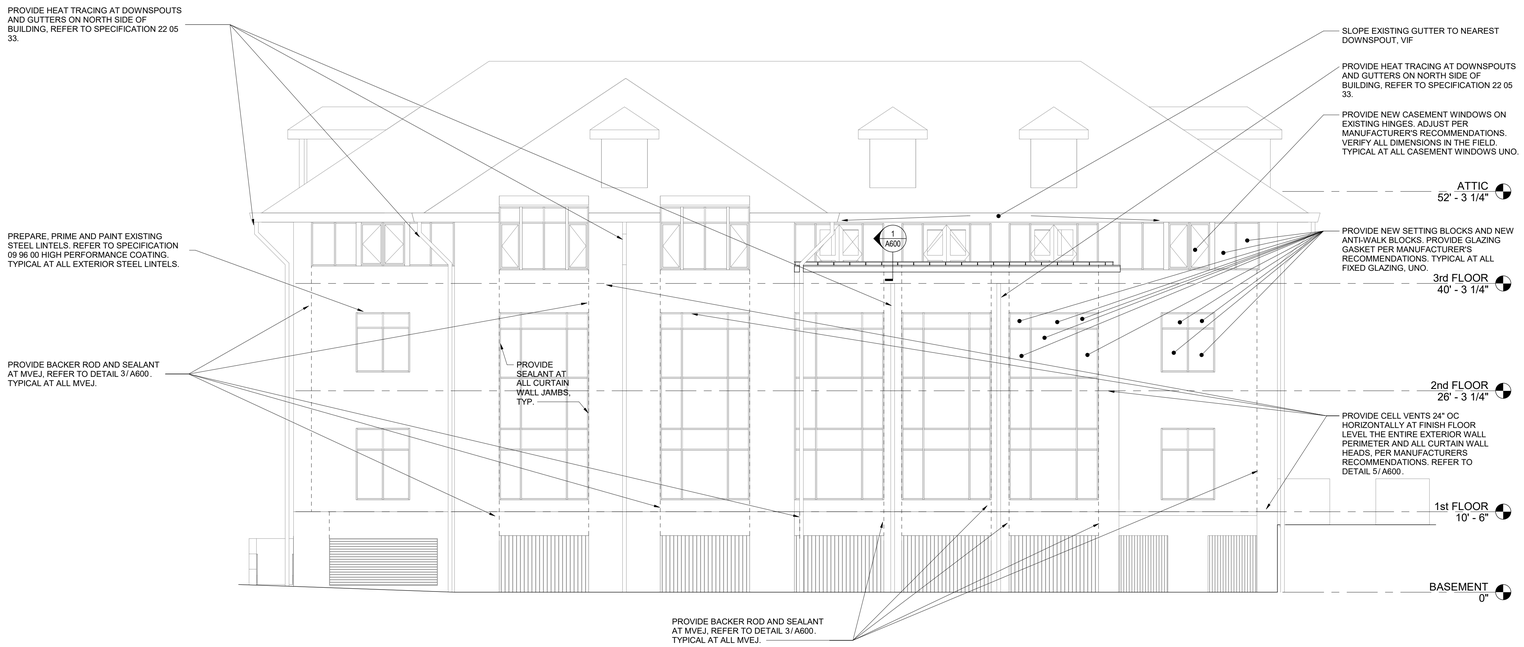
Mahopac Public Library
Mahopac, New York

Reconstruction To:
Mahopac Public Library

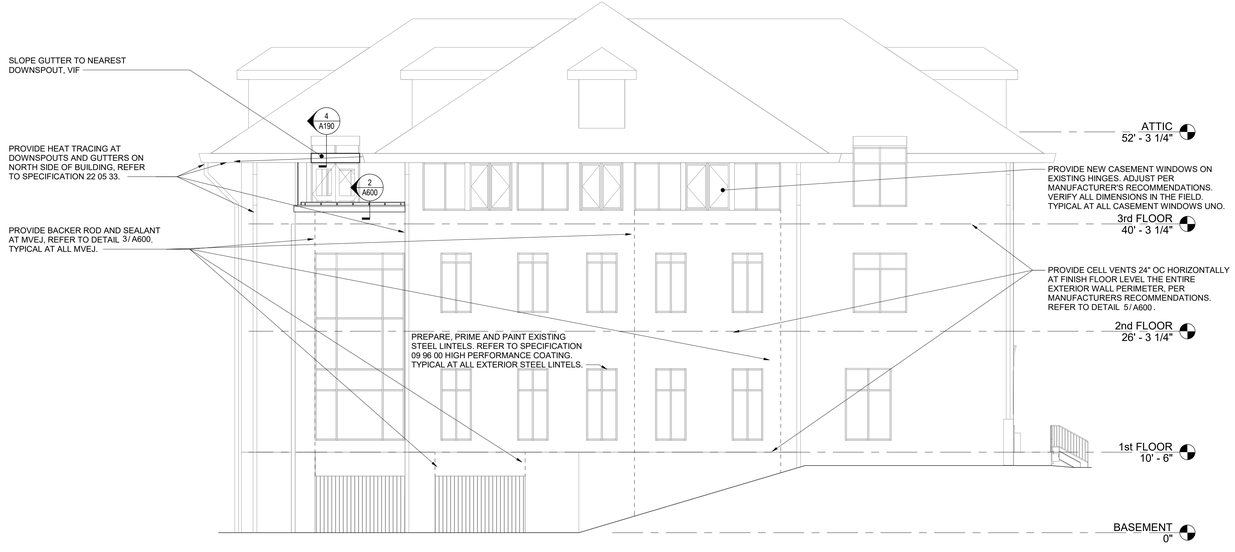
Exterior Elevations

Drawn By:	Date:	Drawing Number:
TLG	12/13/21	A200

Project No.: 203778-21001



1 North Elevation
1/8" = 1'-0"

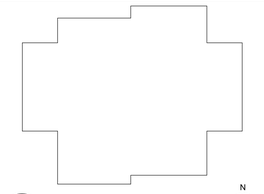


2 West Elevation
1/8" = 1'-0"

General Elevation Notes

A. NOTES DESCRIBED ON ONE ELEVATION APPLY TO ALL ELEVATIONS, TYPICAL UNLESS OTHERWISE NOTED.

B. APPLY CONTINUOUS SEALANT WITH BACKER ROD AT ALL BLDG EXPANSION JOINTS AND MASONRY VENEER EXPANSION JOINTS (MVEJ).



Key Plan
N.T.S.

N

S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

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Mahopac, New York

Reconstruction To:
Mahopac Public Library

Exterior Elevations

Drawn By:	Date:	Drawing Number:
TLG	12/13/21	A201

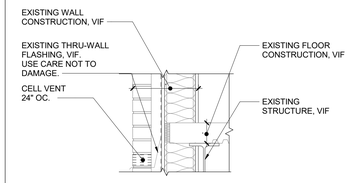
Project No.:
203778-21001

Door Schedule

ROOM NUMBER	DOOR NUMBER	DOOR						FRAME									HDW SET	REMARKS
		TYPE	MATERIAL	WIDTH	HEIGHT	RATING	GLAZING	TYPE	MATERIAL	WIDTH	HEIGHT	RATING	GLAZING	HEAD	JAMB	SILL		
1st FLOOR																		
144	1	EXG-PR	EXG	3' - 0"	8' - 0"	-	-	-	-	0"	0"	-	-	-	-	-	1.0	NOTE 1 AND 2
155	1	EXG-PR	EXG	3' - 0"	8' - 0"	-	-	-	-	0"	0"	-	-	-	-	-	1.0	NOTE 1 AND 2
162	1	EXG-PR	EXG	3' - 0"	8' - 0"	-	-	-	-	0"	0"	-	-	-	-	-	3.0	NOTE 1 AND 2
162	2	EXG-PR	EXG	3' - 0"	8' - 0"	-	-	-	-	0"	0"	-	-	-	-	-	2.0	NOTE 1 AND 2

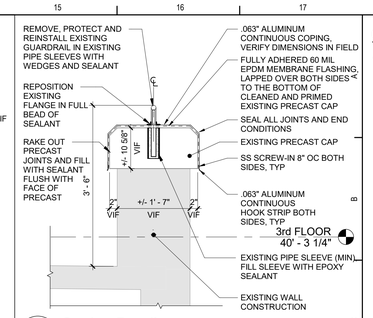
NOTES:
- NOT APPLICABLE
1. EXISTING ALUMINUM DOORS IN EXISTING ALUMINUM STOREFRONT FRAME TO REMAIN WITH ADDITIONAL HARDWARE
2. PREPARE EXISTING DOOR AND FRAME FOR ADDITIONAL HARDWARE (VIF)

GENERAL NOTES:
-VERIFY ALL DIMENSIONS IN THE FIELD

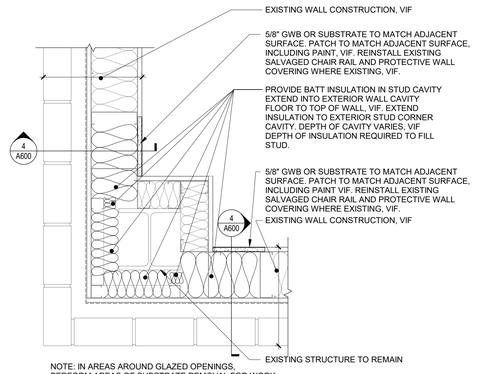


NOTE: REMOVE MORTAR FROM VERTICAL HEAD JOINT, REMOVE EXISTING WEEP TUBE, VACUUM DEBRIS FROM JOINT AND FRICTION FIT CELL VENT. REMOVE ANY DEBRIS WITHIN WALL CAVITY WHERE CELL VENTS ARE INSTALLED.

5 Cell Vent Detail
1" = 1'-0"

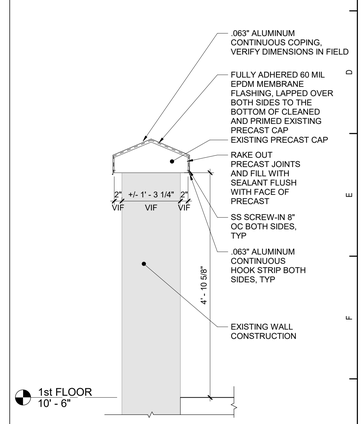


1 Coping Detail
3/4" = 1'-0"

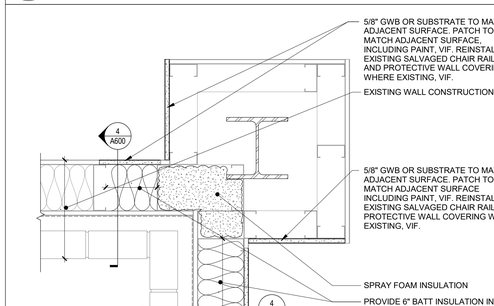


NOTE: IN AREAS AROUND GLAZED OPENINGS, PERFORM AREAS OF SUBSTRATE REMOVAL FOR WORK ABOVE AND BELOW OPENING. DO NOT DISTURB OPENING OR STRUCTURE. PROVIDE CONTINUOUS INSULATION FROM TOP OF FLOOR STRUCTURE TO TOP OF WALL CONDITION. VIF. EXISTING CEILING SYSTEM AND WALL BASE TO REMAIN, DO NOT DISTURB.

6 Plan Detail
1 1/2" = 1'-0"

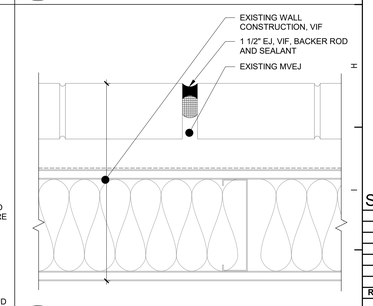


2 Coping Detail
3/4" = 1'-0"

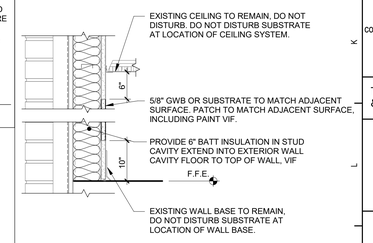


NOTE: IN AREAS AROUND GLAZED OPENINGS, PERFORM AREAS OF SUBSTRATE REMOVAL FOR WORK ABOVE AND BELOW OPENING. DO NOT DISTURB OPENING OR STRUCTURE. PROVIDE CONTINUOUS INSULATION FROM TOP OF FLOOR STRUCTURE TO TOP OF WALL CONDITION. VIF. EXISTING CEILING SYSTEM AND WALL BASE TO REMAIN, DO NOT DISTURB.

7 Plan Detail
1 1/2" = 1'-0"



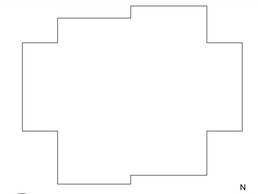
3 Typical Masonry Veneer Expansion Joint
3" = 1'-0"



4 Metal Stud Partition Type P25
1 1/2" = 1'-0"

General Door Notes

A. ALL DOOR HARDWARE FROM OCCUPIED SPACES SHALL BE OF A TYPE THAT WILL ALWAYS PERMIT THE DOOR TO BE OPENED FROM WITHIN THE SPACE WITHOUT USE OF A KEY.



Key Plan
N.T.S.

N

S.E.D. Control No. 48-01-01-06-6-017-004

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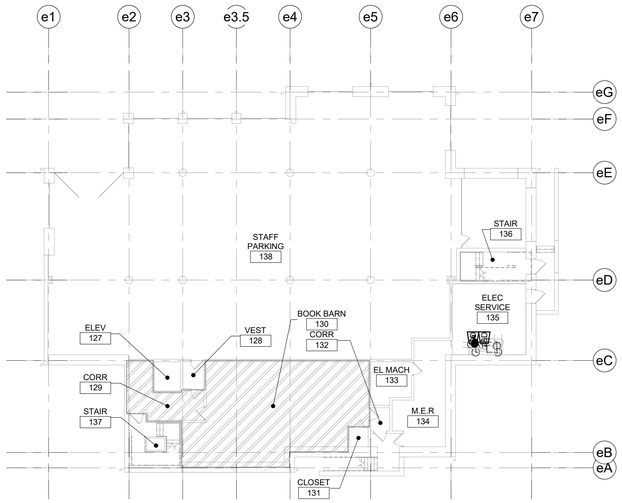
Reconstruction To:
Mahopac Public Library

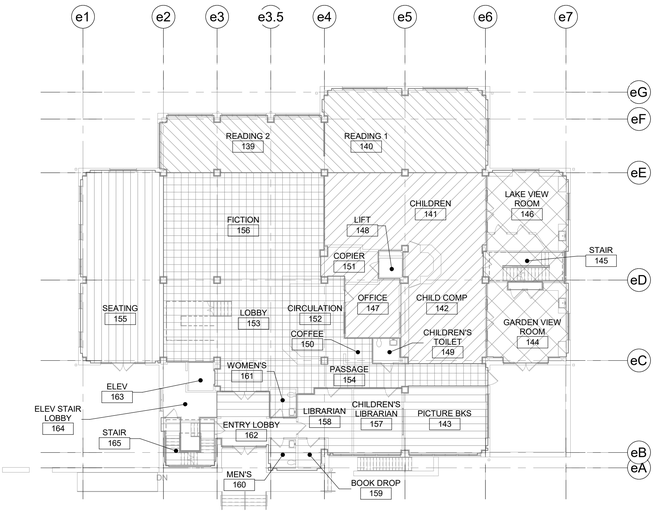
Details and Door Schedule

Drawn By:	Date:	Drawing Number:
TLG	12/13/21	A600

Project No.:
203778-21001



3 Basement - Key Plan
1/16" = 1'-0"



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

GENERAL NOTES, CONTINUED

P. ALL EXCESS MATERIALS AND SCRAPS ARE CONTRACTOR'S PROPERTY. PROMPTLY REMOVE FROM SITE UNLESS SPECIFICALLY DIRECTED OTHERWISE.

Q. SEAL ALL FLOOR, WALL AND CEILING PENETRATIONS PER FIRE-RESISTANCE RATINGS NOTED ON CC-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.

AC ZONE LEGEND

- AC-B (BOOK BARN)
- AC-D (DIRECTOR)
- AC-E (EAST)
- AC-I1 (INTERIOR LEFT)
- AC-I2 (INTERIOR RIGHT)
- AC-M (MEETING RM)
- AC-N (NORTH)
- AC-S1 (SOUTH RIGHT)
- AC-S2 (SOUTH LEFT)
- AC-T (TECHNICAL SERVICES)
- AC-W (WEST)

AC ZONE LEGEND PROVIDED FOR CLARITY OF EXISTING AC SYSTEMS

4 Second Floor - Key Plan
1/16" = 1'-0"

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

5 Attic - Key Plan
1/16" = 1'-0"

GENERAL NOTES

A. THE FOLLOWING GENERAL NOTES APPLY TO ALL "M" SERIES DRAWINGS.

B. REFER TO ALL CONTRACT DOCUMENTS; DRAWINGS AND SPECIFICATIONS, FOR DETAILED STANDARDS AND REQUIREMENTS. FOR ADDITIONAL INFORMATION, REFER TO MECHANICAL AS-BUILT DRAWINGS (SK-1 THRU SK-5).

C. REPORT UNSAFE OR UNSATISFACTORY CONDITIONS IN WRITING TO OWNER AND ENGINEER 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 OWNERS.

J. IF UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL CONFLICTS ARE ENCOUNTERED, INVESTIGATE AND REPORT BOTH NATURE AND EXTENT OF THE CONFLICT. RE-ROUTE WORK OR EXISTING ELECTRICAL OR PLUMBING AS REQUIRED.

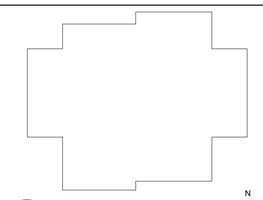
K. CUT, DRILL, OR OTHERWISE CREATE OPENINGS AS NEATLY AS POSSIBLE, AS REQUIRED FOR THE INDICATED CONTRACT WORK. PROVIDE SUPPORT AS REQUIRED FOR AND USE METHODS LEAST LIKELY TO DAMAGE ELEMENTS TO REMAIN. PRIOR TO WORK, VERIFY LOCATIONS OF ALL STRUCTURAL MEMBERS INCLUDING CROSS BRACING, ELECTRICAL WIRING, 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 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.



Key Plan
N.T.S.

N

S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

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ARCHITECTS & ENGINEERS

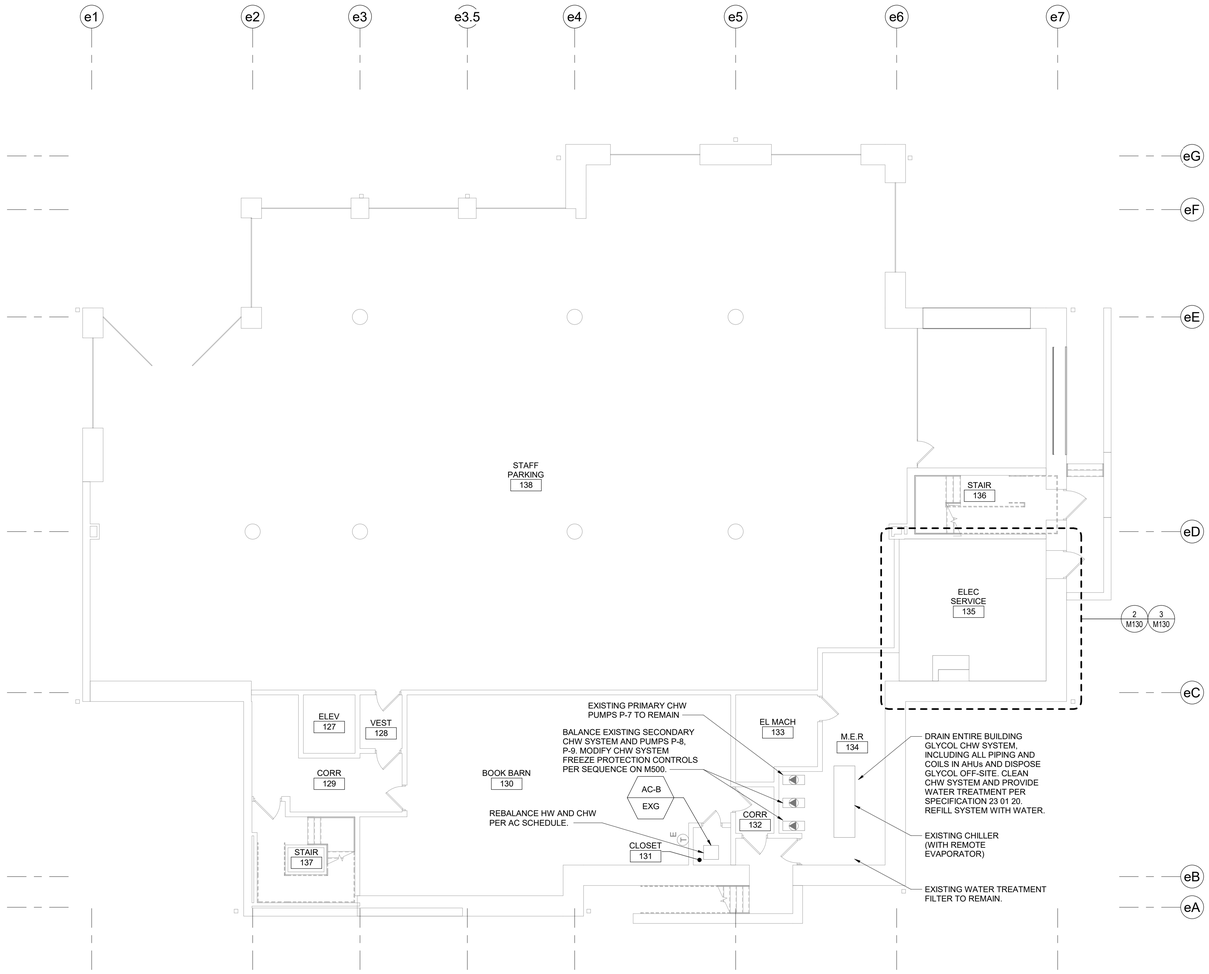
Mahopac Public Library
Mahopac, New York

Reconstruction To:
Mahopac Public Library

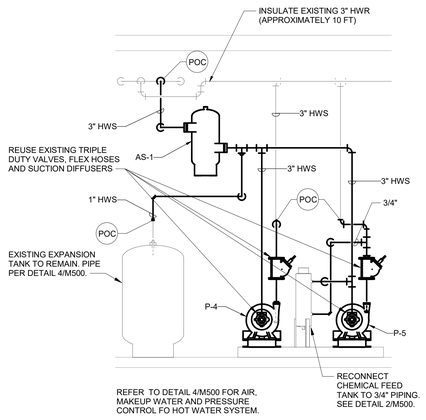
Key Plans

Drawn By:	Date:	Drawing Number:
JPF	12/13/21	M050

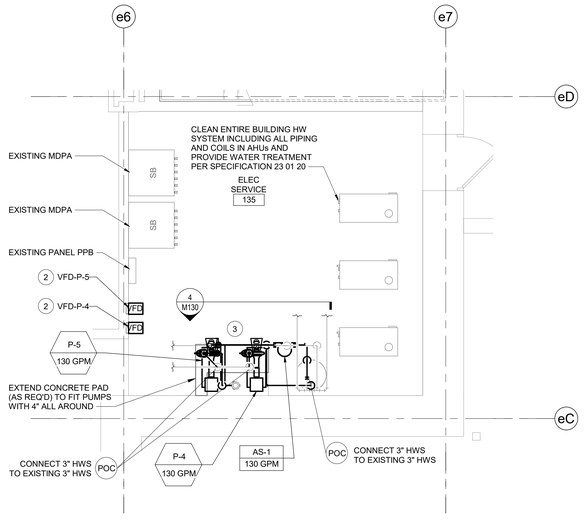
Project No.: 203778-21001



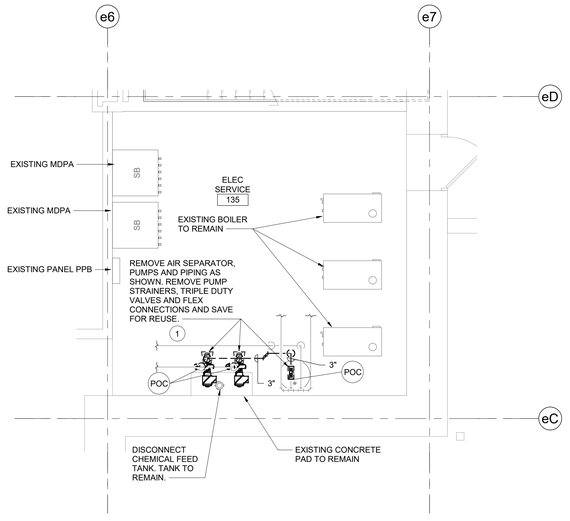
1 Basement Floor - HVAC Plan
1/8" = 1'-0"



4 Pump Section View
1/2" = 1'-0"



3 Enlarged Plan - Elec Service 135
1/4" = 1'-0"



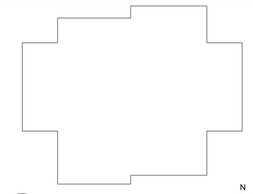
2 Enlarged Removals Plan - Elec Service 135
1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO M050 FOR GENERAL NOTES.
2. 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.
3. PROPERLY IDENTIFY ALL CIRCUITS AT PANELS AND J-BOXES AND IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
4. PROVIDE ALL ADAPTERS, COUPLINGS AND ASSOCIATED FITTINGS REQUIRED FOR COMPLETE OPERATIONAL SYSTEM.
5. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.
6. REFER TO DETAILS ON DRAWING M500 FOR ADDITIONAL REQUIREMENTS.

Keyed Notes:

1. DISCONNECT EXISTING P-4 AND P-5. REMOVE EXISTING CONDUIT AND CONDUCTORS BACK TO SOURCE (PANEL PPB). REMOVE 20A BREAKERS SERVING P-4 AND P-5.
2. PROVIDE (3) #10, (1) #10G in 1/2" EMT CONDUIT FROM PANEL PPB. PROVIDE A 208V, 3P, 30A BREAKER IN PANEL PPB, WITH AIC RATING TO MATCH EXISTING PANEL.
3. PROVIDE CABLE AND CONDUIT FROM EACH VFD TO EACH PUMP PER MANUFACTURERS STANDARD.



Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-6-017-004

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Mahopac, New York

Reconstruction To:
Mahopac Public Library

Basement Floor Plan

Drawn By:	Date:	Drawing Number:
JPF	12/13/21	M130

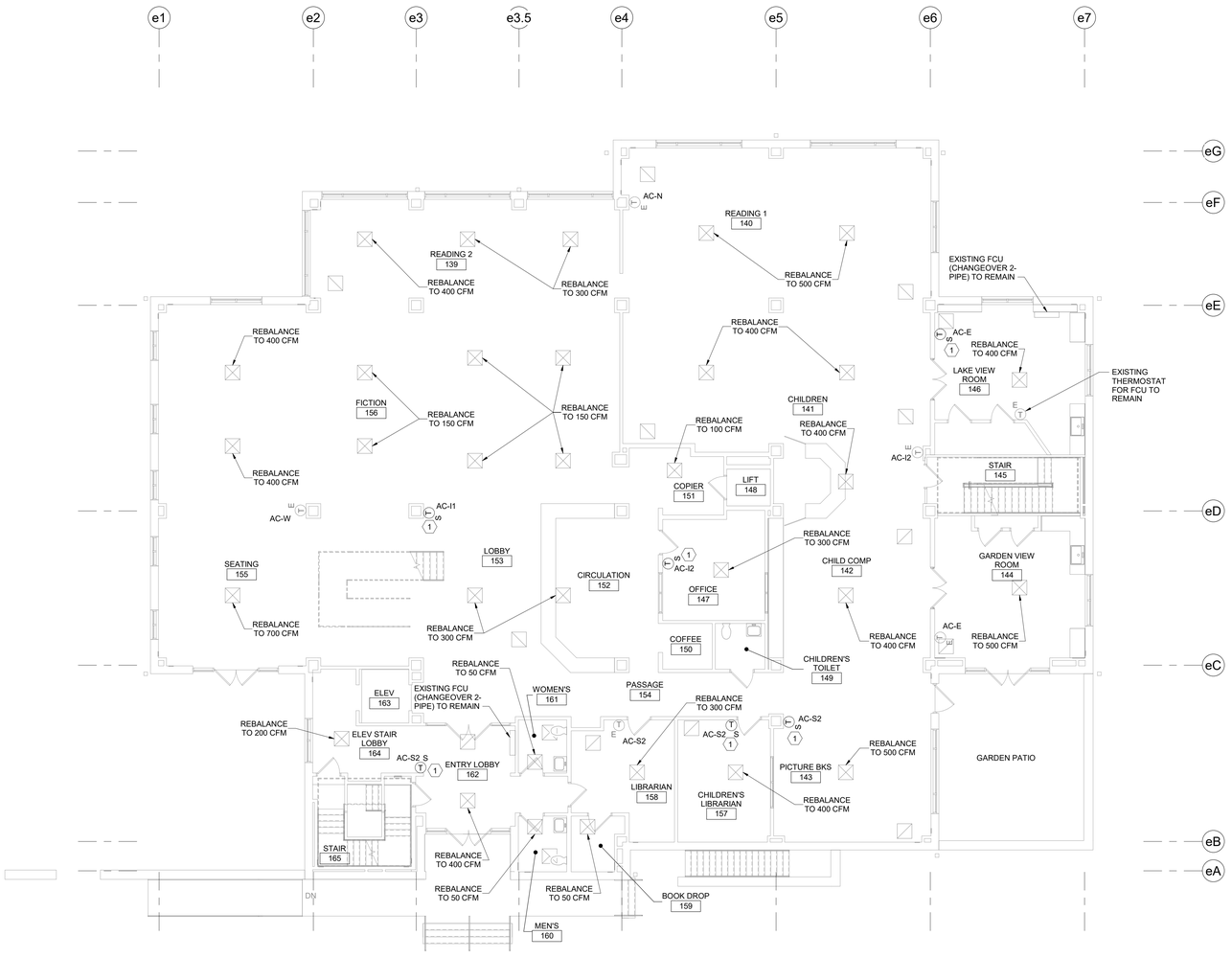
Project No.: 203778-21001

GENERAL NOTES:

1. REFER TO M050 FOR GENERAL NOTES.

KEYED NOTES:

1. PROVIDE WALL TEMPERATURE SENSORS, 42" AFF.



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

Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

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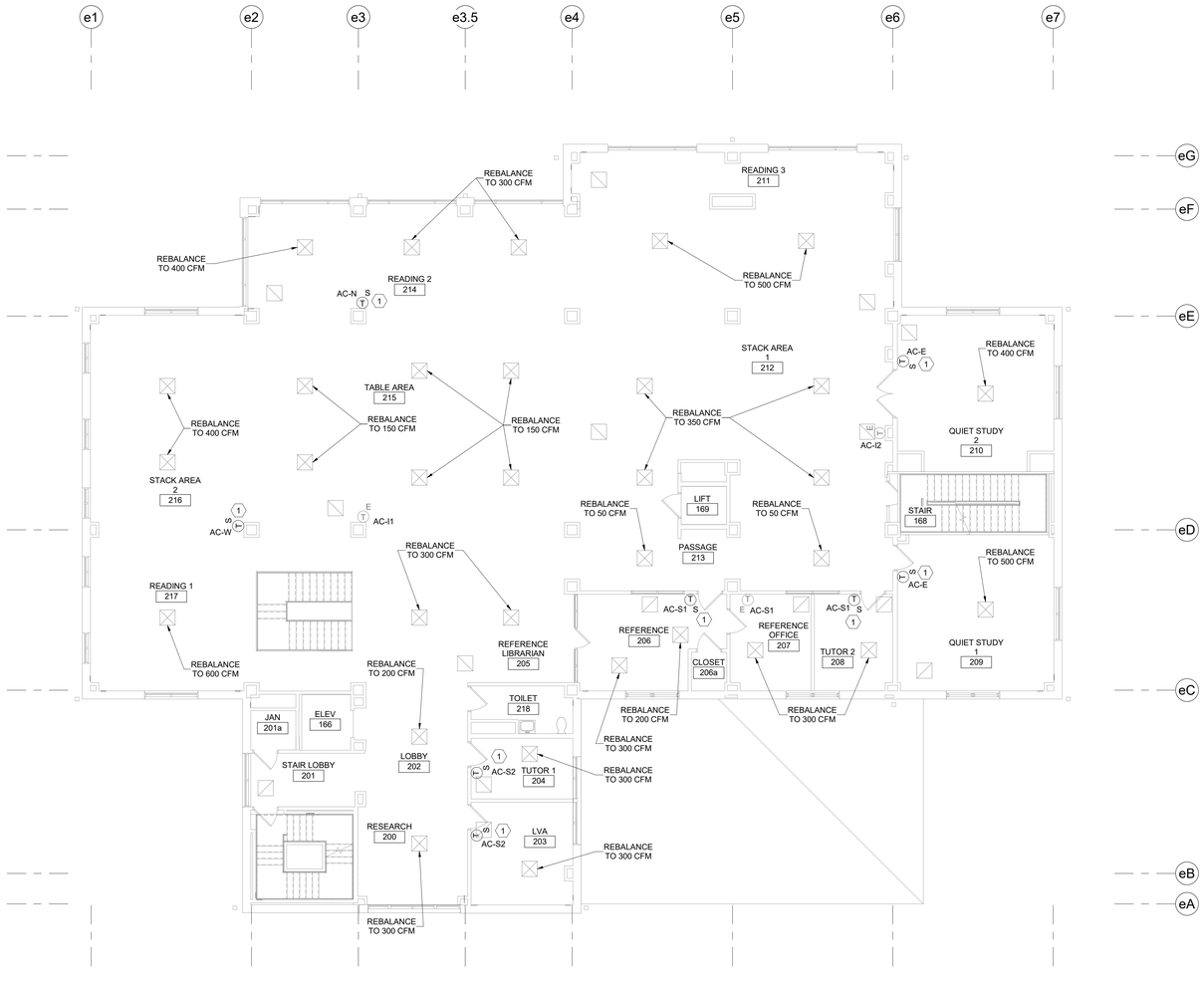
Mahopac, New York

Reconstruction To:
Mahopac Public Library

First Floor Plan

Drawn By:	Date:	Drawing Number:
JPF	12/13/21	M131

Project No.: 203778-21001



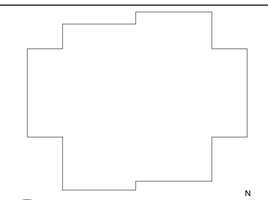
1 Second Floor - HVAC Plan
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M050 FOR GENERAL NOTES.

KEYED NOTES:

(1) PROVIDE WALL TEMPERATURE SENSORS, 42" AFF.



Key Plan
N.T.S.

N

S.E.D. Control No. 48-01-01-06-6-017-004

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Reconstruction To:
Mahopac Public Library

Second Floor Plan

Drawn By:	Date:	Drawing Number:
JPF	12/13/21	M132

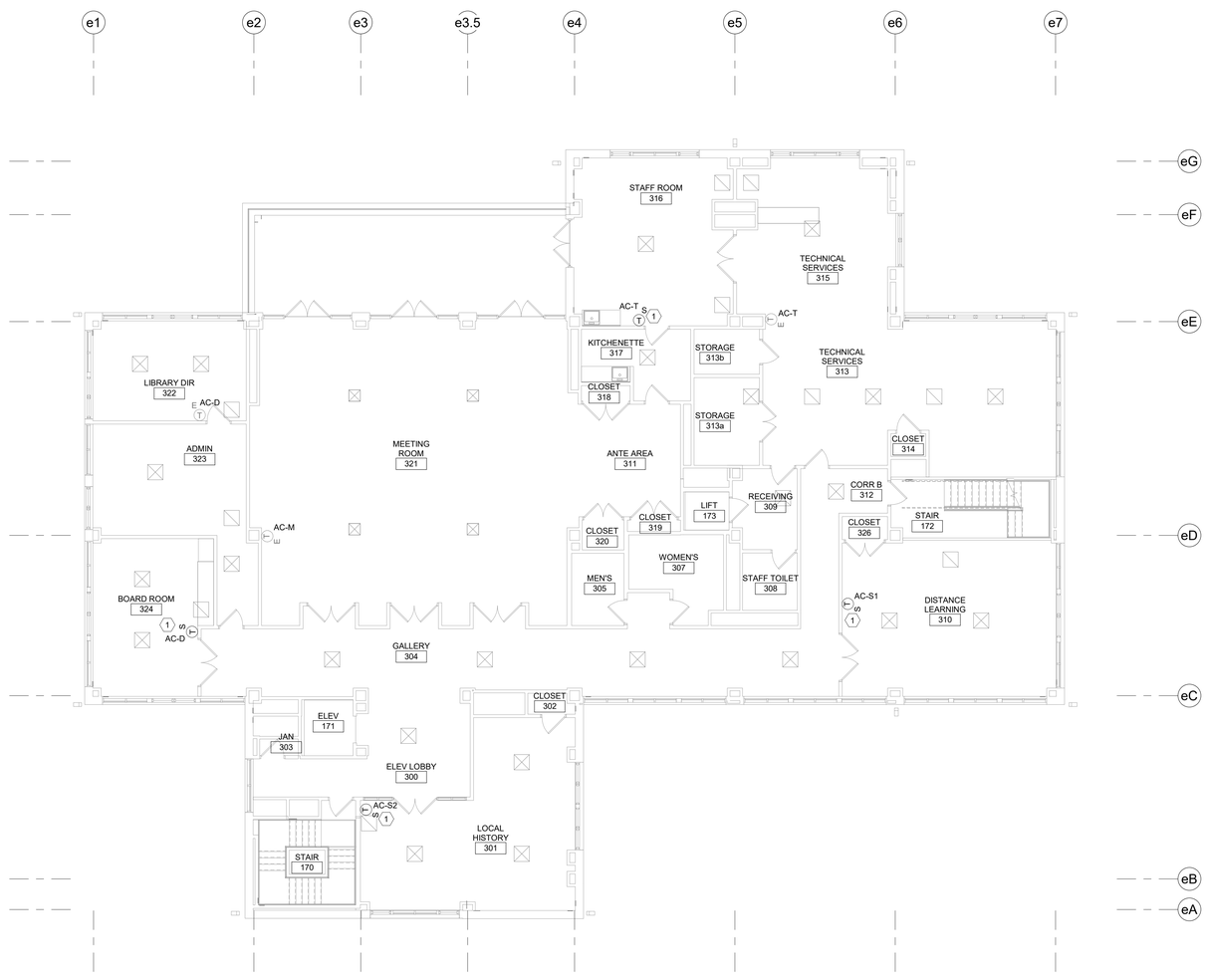
Project No.:
203778-21001

GENERAL NOTES:

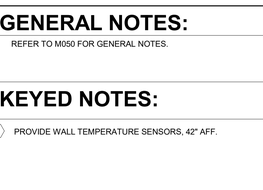
1. REFER TO M050 FOR GENERAL NOTES.

KEYED NOTES:

(1) PROVIDE WALL TEMPERATURE SENSORS, 42" AFF.



1 Third Floor - HVAC Plan
1/8" = 1'-0"



Key Plan
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S.E.D. Control No. 48-01-01-06-6-017-004

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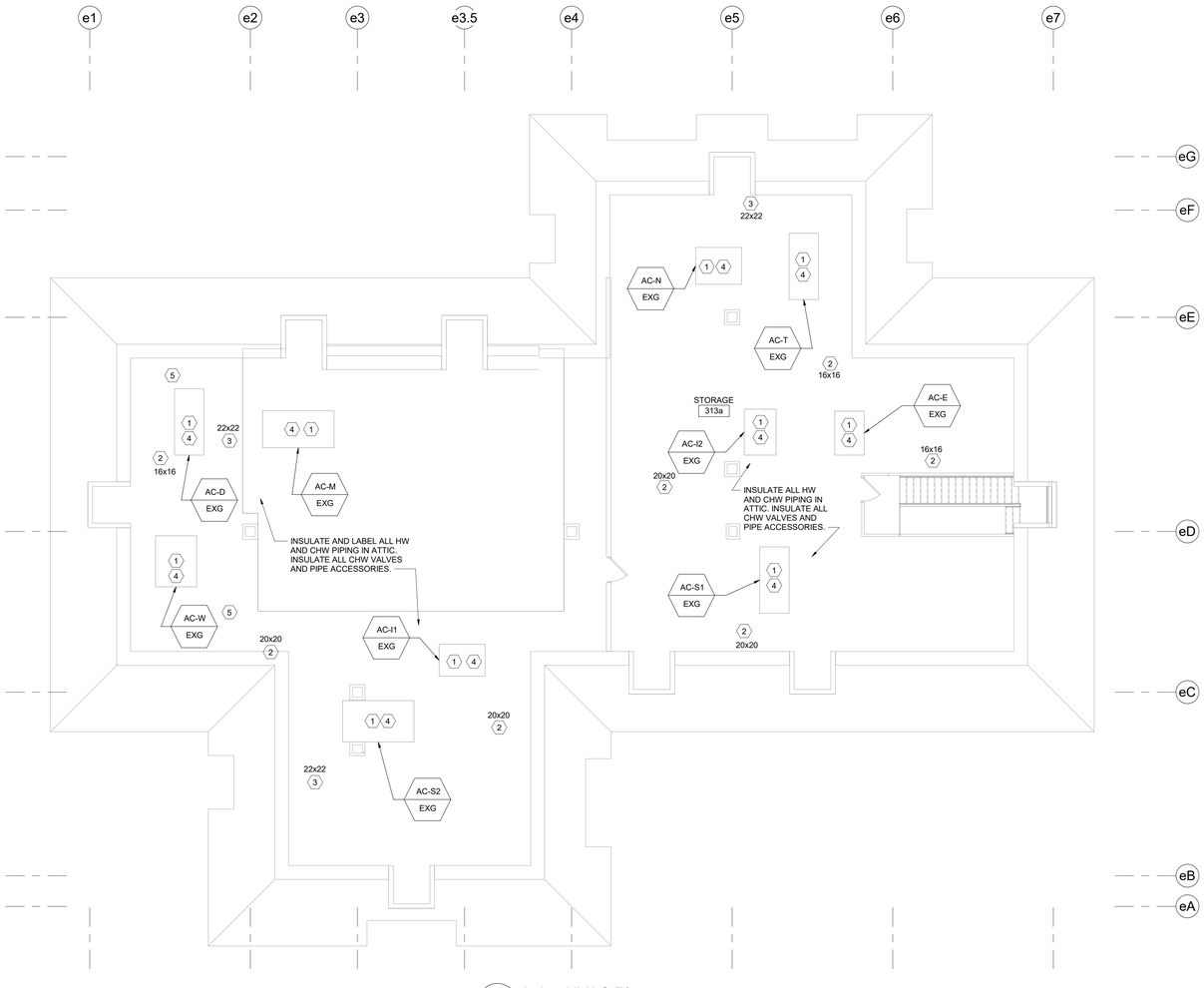
Reconstruction To:
Mahopac Public Library

Third Floor Plan

Drawn By:	Date:	Drawing Number:
JPF	12/13/21	M133

Project No.:
203778-21001



1 Attic - HVAC Plan
1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO M050 FOR GENERAL NOTES.

KEYED NOTES:

1. REBALANCE EXISTING AC UNITS (SUPPLY AIR, RETURN AIR, OUTSIDE AIR, HEATING WATER AND CHILLED WATER) PER AC SCHEDULE. REBALANCE SUPPLY DIFFUSERS/GRILLES PER PLANS.
2. REMOVE EXISTING RELIEF DAMPER AND CAP DUCT OPENING.
3. REPLACE EXISTING RELIEF DAMPER (SIZE IDENTIFIED NEAR KEYNOTE) WITH (ACTUATED) AUTOMATIC AIR DAMPER (SAME SIZE).
4. PROVIDE AUTOMATIC FREEZESTAT TO DOWNSTREAM SIDE OF HEATING COIL. IF UNABLE TO FIT FREEZESTAT BETWEEN HEATING AND COOLING COIL, LOCATE DOWNSTREAM OF COOLING COIL. MODIFY AC EQUIPMENT CONTROLS PER CONTROL SEQUENCE.
5. CAP OPEN 4" DUCT AND INSULATE BRANCH OFF OF SUPPLY DUCT.

S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Public Library
Mahopac, New York

Reconstruction To:
Mahopac Public Library

Attic Plan

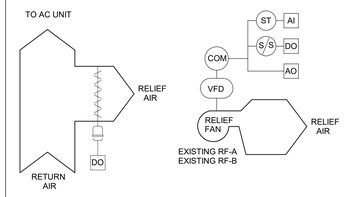
Drawn By:	Date:	Drawing Number:
JPF	12/13/21	M134

Project No.: 203778-21001

SPACE TEMPERATURE SENSOR - MONITORING ONLY - SEQUENCE OF OPERATIONS:

1. MONTOR ROOM TEMPERATURE BY A SPACE TEMPERATURE SENSOR. TREND AND RECORD TEMPERATURES FOR 1 YEAR MINIMUM AT 15 (ADJUSTABLE) MINUTE INTERVALS.
2. GENERATE AN ALARM WHEN THE SPACE TEMPERATURE GOES ABOVE OR BELOW ASSOCIATED AC UNIT THERMOSTAT TEMPERATURE (5ºF, ADJUSTABLE).
3. GENERATE AN ALARM WHEN THE TEMPERATURE GOES ABOVE OR BELOW ROOM TEMPERATURE RANGE (ADJUSTABLE).

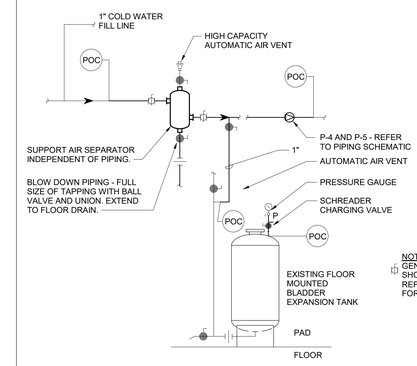
8 Space Temperature Monitoring
NTS



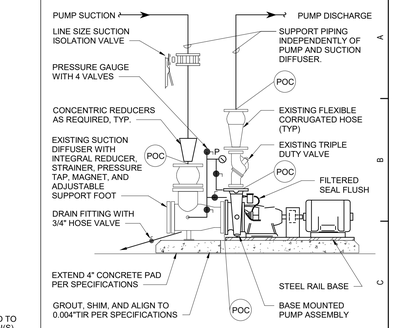
AUTOMATIC AIR DAMPER - RELIEF - SEQUENCE OF OPERATIONS:

1. INTERLOCK THE OPERATION OF THE AUTOMATIC AIR DAMPERS WITH THE OPERATION OF EXISTING FANS RF-A AND RF-B.
2. EXISTING EF-A AND EF-B SEQUENCE TO REMAIN.

7 Attic Automatic Air Dampers
NTS



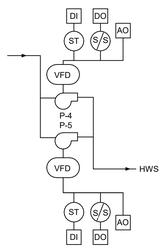
4 Air, Makeup Water, and Pressure Control Detail For Hot Water System
NTS



1 Basemounted Pump Piping Schematic
NTS

TEMPERATURE CONTROLS SYMBOLS LIST

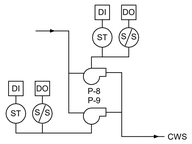
AI	ANALOG IN
AO	ANALOG OUT
COM	COMMUNICATIONS PORT
CS	AIRBORNE CONTAMINANT SENSOR
DI	DIGITAL IN
	DAMPER MOTOR
DO	DIGITAL OUT
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
F	FLOW (WATER/AIR)
FM	FLOW METER
FS	AIR FLOW SENSOR
FZ	FREEZE STAT
H	HUMIDITY SENSOR
HL	HIGH LIMIT
KWH	KILOWATT HOUR METER
LL	LOW LIMIT
M/S	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



SECONDARY PUMPS LEAD-LAG CONTROL

1. CONTROL THE DRIVE'S FREQUENCY USING THE COMBINED INPUT TO THE EMCS FROM THE PERCENTAGE OPEN POSITION OF ALL CONTROL VALVES MODULATING FLOW OF WATER TO THEIR RESPECTIVE LOADS. MAINTAIN A REAL TIME LOG OF THE PERCENTAGE OPEN POSITION OF ALL PRIMARY / SECONDARY WATER CONTROL VALVES.
   - A. WHEN BOTH THE EXISTING HEATING SYSTEM IS ENABLED AT THE OWS AND ON CALL FOR BUILDING HEAT AS DEFINED BY A CV WEIGHTED AVERAGE HEATING WATER VALVE POSITION OF AT LEAST 15% OPEN (ADJ. AT OWS), START A BUILDING HEATING VARIABLE SPEED PUMP AND CONTROL AS FOLLOWS:
   - a. ON INITIAL START OF LEAD PUMP, RAMP TO MINIMUM FREQUENCY OF 15HZ (ADJ.). ADJUST DURING COMMISSIONING TO MINIMUM VALUE RECOMMENDED BY MANUFACTURER.
   - b. WHEN ANY (ENABLED) CONTROL VALVE, OR THE AVERAGE OF ANY ADJUSTABLE NUMBER OF THE MOST DEMANDING VALVES, IS CALLING FOR MORE THAN 95% OPEN POSITION, RAMP THE VARIABLE SPEED DRIVE TO INCREASED POWER FREQUENCY AT THE RATE (ADJUSTABLE AT THE OWS) OF +5HZ PER MINUTE.
   - c. WHEN LEAD PUMP HAS RAMPED UP TO 60 HZ PER MINUTE, AND MORE FLOW IS REQUIRED (AS DESCRIBED UNDER ITEM B.), ENERGIZE LAG PUMP AND OPERATE BOTH PUMPS AT THE SAME FREQUENCY TO MEET THE CONTROL VALVE DEMAND.
   - d. WHEN NO (ENABLED) CONTROL VALVE IS CALLING FOR MORE THAN 90% OPEN POSITION, OR THE AVERAGE OF ANY ADJUSTABLE NUMBER OF THE MOST DEMANDING VALVES IS CALLING FOR NO MORE THAN 90% OPEN POSITION, RAMP THE VARIABLE FREQUENCY DRIVE TO DECREASED POWER FREQUENCY AT THE RATE (ADJUSTABLE AT THE OWS) OF -2HZ PER MINUTE.
   - e. WHEN LEAD AND LAG PUMPS ARE BOTH RUNNING AND FREQUENCY (AS DESCRIBED UNDER ITEM C.) HAS DECREASED TO 30 HZ, DE-ENERGIZE LEAD PUMP AND SWITCH LAG TO LEAD PUMP.
   - f. IF ANY CONTROL VALVE REMAINS MOST OPEN AS THE CRITICAL ZONE AT MORE THAN DOUBLE THE FREQUENCY (ADJ.) OF THE NEXT MOST CRITICAL ZONE, INITIATE AN ALARM AT THE OWS, INCLUDING PROMPTS TO INVESTIGATE THE PROBLEM BY REBALANCING, ADJUSTING SETPOINTS, ETC. ALLOW FOR ANY SUCH ZONES TO BE DISABLED FROM THE CALCULATIONS RAMPING THE DRIVE UNTIL THE PROBLEM IS CORRECTED (BUT ENSURE THAT IT STILL IS ENABLED TO OPEN ON CALL FOR HEAT!).
2. THE EMCS SHALL HAVE AUTOMATIC, ADJUSTABLE, LEAD-LAG CAPABILITY TO PERMIT SWITCHING BETWEEN PUMPS. IF THE LEAD PUMP FAILS TO START AS SENSED BY A CURRENT SENSING STATUS, THE EMCS SHALL SWITCH LEAD AND LAG PUMP AND SEND AN ALARM OUTPUT TO THE OWS.

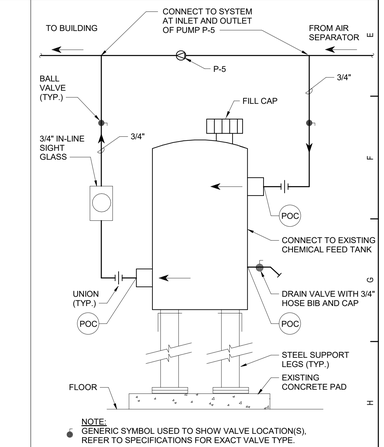
9 Secondary Pumps - P-4, P-5
NTS



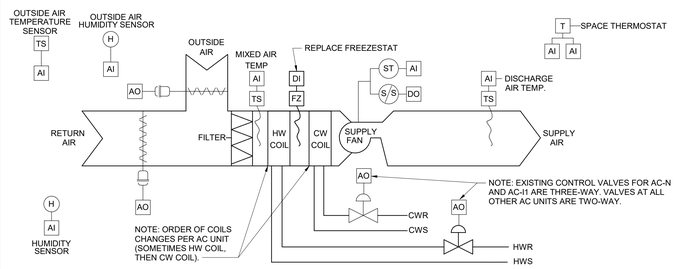
SECONDARY PUMPS LEAD-LAG CONTROL

1. EXISTING PUMP CONTROL SEQUENCE TO REMAIN.
2. FREEZE PROTECTION: WHEN THE OUTSIDE AIR TEMPERATURE IS LESS THAN 30F (ADJ.):
   - a. OPEN ALL AHU TWO-WAY CONTROL VALVES AND THREE-WAY CONTROL VALVES OPEN TO COIL.
   - b. CIRCULATE LEAD SECONDARY PUMP (P-8 OR P-9) FOR FIVE MINUTES (ADJ.) EVERY 30 MINUTES (ADJ.).

5 Secondary Pumps - P-8, P-9
NTS



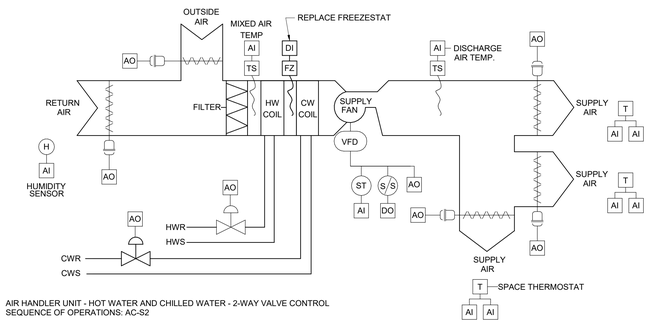
2 Water Treatment Feeder Detail
NTS



AIR HANDLER UNIT - HOT WATER AND CHILLED WATER - 2-WAY VALVE CONTROL - SEQUENCE OF OPERATIONS:
AC-D, N, S1, E, W, M, T, I1 & I2

1. OCCUPIED MODE:
   - a. RUN THE SUPPLY FAN CONTINUOUSLY.
   - b. OPEN THE OUTSIDE AIR DAMPER TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY INDICATED. NEVER POSITION THE OUTSIDE AIR DAMPER 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 ENTHALPY IS LOWER THEN THE SPACE ENTHALPY, MODULATE OPEN THE OUTSIDE AIR DAMPER TO MAINTAIN THE OCCUPIED SETPOINT. MODULATE THE DAMPERS TO ALLOW A DISCHARGE LOW LIMIT OF 55 DEG. F (ADJUSTABLE), AND WITH THE HEATING VALVE FULLY CLOSED.
   - e. WHEN THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT (ADJUSTABLE), THE OUTSIDE AIR CANNOT COOL THE SPACE, AND IF CHILLED WATER IS AVAILABLE, MODULATE THE COOLING VALVE TO MAINTAIN SPACE TEMPERATURE WITH THE HEATING VALVE FULLY CLOSED. USE 5 DEG. F (ADJUSTABLE) DEADBAND BETWEEN HEATING AND COOLING SETPOINTS.
   - f. FOR AC-N, E, W I1 & I2: WHEN THE SPACE TEMPERATURE IS ABOVE THE HUMIDITY SETPOINT (ADJUSTABLE), THE OUTSIDE AIR CANNOT COOL THE SPACE, AND IF CHILLED WATER IS AVAILABLE, MODULATE THE COOLING VALVE TO MAINTAIN A DISCHARGE AIR TEMPERATURE OF 55 DEG. F (ADJUSTABLE) AND WITH THE HEATING VALVE FULLY CLOSED.
2. UNOCCUPIED MODE:
   - a. TURN OFF THE SUPPLY FAN.
   - b. FULLY CLOSE THE OUTSIDE AIR DAMPER AND FULLY OPEN THE RETURN AIR DAMPER.
   - c. ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED HEATING SETPOINT, CYCLE THE FAN ON AND FULLY OPEN THE HEATING CONTROL VALVE AS REQUIRED TO MAINTAIN REDUCED SPACE TEMPERATURE. USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.
   - d. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED ECONOMIZER COOLING SETPOINT, ALLOW ECONOMIZER COOLING WITH THE COOLING AND HEATING VALVES CLOSED 100%.
   - e. ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE) BY A TIMED LOCAL OVERRIDE. AT EXPIRATION OF THIS TIME, AUTOMATICALLY RETURN THE UNIT TO THE SCHEDULE.
3. WARM-UP MODE:
   - a. START THE UNIT PER AN OPTIMUM START PROGRAM.
   - b. KEEP THE OUTSIDE AIR DAMPER FULLY CLOSED.
   - c. RUN THE SUPPLY FAN AND MODULATE THE HEATING AND COOLING CONTROL VALVE TO MAINTAIN OCCUPIED HEATING AND COOLING SETPOINTS.
4. SAFETIES:
   - a. GENERATE AN ALARM WHENEVER THE DIFFERENTIAL PRESSURE ACROSS THE AIR FILTERS EXCEEDS IT'S ADJUSTABLE SETPOINT.
   - b. INSTALL A SEPARATE AUTOMATIC RESET LOW LIMIT FREEZE STAT WITH SENSING ELEMENT SERPENTINED ACROSS THE FACE OF THE COIL; WHENEVER COIL FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJUSTABLE) STOP THE SUPPLY FAN, CLOSE THE OUTSIDE AIR DAMPER 100%, OPEN THE HEATING CONTROL VALVE 100% AND ACTIVATE AN ALARM.

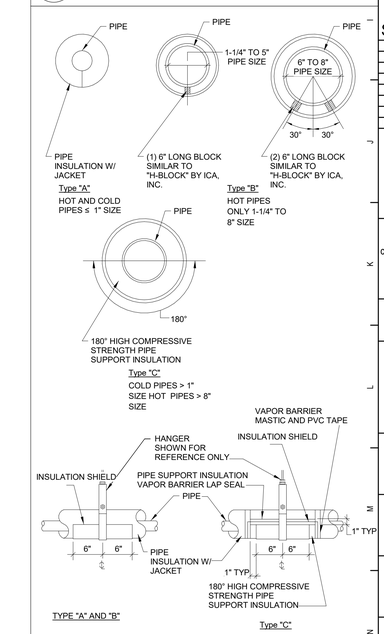
10 Existing AC-D, N, S1, S2, E, W, M, T, I1 & I2 - Hot and Chilled Water
NTS



AIR HANDLER UNIT - HOT WATER AND CHILLED WATER - 2-WAY VALVE CONTROL SEQUENCE OF OPERATIONS: AC-S2

1. OCCUPIED MODE:
   - a. RUN THE SUPPLY FAN CONTINUOUSLY AT THE FREQUENCY DETERMINED BY THE BALANCING CONTRACTOR.
   - b. OPEN THE OUTSIDE AIR DAMPER TO THE POSITION REQUIRED TO MAINTAIN THE MINIMUM OUTSIDE AIR QUANTITY INDICATED. NEVER POSITION THE OUTSIDE AIR DAMPER 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 ENTHALPY IS LOWER THEN THE SPACE ENTHALPY, MODULATE OPEN THE OUTSIDE AIR DAMPER TO MAINTAIN THE OCCUPIED SETPOINT. MODULATE THE DAMPERS TO ALLOW A DISCHARGE LOW LIMIT OF 55 DEG. F (ADJUSTABLE), AND WITH THE HEATING VALVE FULLY CLOSED.
   - e. WHEN THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT (ADJUSTABLE), THE OUTSIDE AIR CANNOT COOL THE SPACE, AND IF CHILLED WATER IS AVAILABLE, MODULATE THE COOLING VALVE 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. TURN OFF THE SUPPLY FAN.
   - b. FULLY CLOSE THE OUTSIDE AIR DAMPER AND FULLY OPEN THE RETURN AIR DAMPER.
   - c. ON DROP IN SPACE TEMPERATURE BELOW THE UNOCCUPIED HEATING SETPOINT, CYCLE THE FAN ON AND FULLY OPEN THE HEATING CONTROL VALVE AS REQUIRED TO MAINTAIN REDUCED SPACE TEMPERATURE. USE 5 DEG. F (ADJUSTABLE) DEADBAND TO MINIMIZE SHORT CYCLING.
   - d. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED ECONOMIZER COOLING SETPOINT, ALLOW ECONOMIZER COOLING WITH THE COOLING AND HEATING VALVES CLOSED 100%.
   - e. ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO OCCUPIED MODE FOR 1 HOUR (ADJUSTABLE) BY A TIMED LOCAL OVERRIDE. AT EXPIRATION OF THIS TIME, AUTOMATICALLY RETURN THE UNIT TO THE SCHEDULE.
3. OCCUPIED/UNOCCUPIED MODE (ZONE DAMPERS, ADDITION TO SEQUENCE):
   - a. WHEN THE AC UNIT IS IN COOLING MODE, MODULATE THE ZONE DAMPER BETWEEN 50% (ADJ) AND 100% (ADJ) TO MAINTAIN THE SPACE TEMPERATURE.
   - b. WHEN THE AC UNIT IS IN HEATING MODE, MODULATE THE ZONE DAMPER BETWEEN 50% (ADJ) AND 100% (ADJ) TO MAINTAIN THE SPACE TEMPERATURE.
4. WARM-UP MODE:
   - a. START THE UNIT PER AN OPTIMUM START PROGRAM.
   - b. KEEP THE OUTSIDE AIR DAMPER FULLY CLOSED.
   - c. RUN THE SUPPLY FAN AND MODULATE THE HEATING AND COOLING CONTROL VALVE TO MAINTAIN OCCUPIED HEATING AND COOLING SETPOINTS.
5. SAFETIES:
   - a. GENERATE AN ALARM WHENEVER THE DIFFERENTIAL PRESSURE ACROSS THE AIR FILTERS EXCEEDS IT'S ADJUSTABLE SETPOINT.
   - b. INSTALL A SEPARATE AUTOMATIC RESET LOW LIMIT FREEZE STAT WITH SENSING ELEMENT SERPENTINED ACROSS THE FACE OF THE COIL; WHENEVER COIL FREEZE-UP CONDITIONS ARISE (36 DEG. F ADJUSTABLE) STOP THE SUPPLY FAN, CLOSE THE OUTSIDE AIR DAMPER 100%, OPEN THE HEATING CONTROL VALVE 100% AND ACTIVATE AN ALARM.

6 Existing AC-S2 - Hot and Chilled Water
NTS



3 Pipe Insulation
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S.E.D. Control No. 48-01-01-06-6-017-004

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Mahopac Public Library
Mahopac, New York

Reconstruction To:
Mahopac Public Library

Details and Controls

Drawn By:	Date:	Drawing Number:
JPF	12/13/21	M500

Project No.: 203778-21001

PUMP (P) SCHEDULE

EQUIP NO.	LOCATION	MODEL e-1510	TYPE	SERVES	FLOWRATE (GPM)	WPD (FT HD)	MAX. OP. TEMP (°F)	MIN. EFF. %	SUCTION CONNECTION (IN)	DISCHARGE CONNECTION (IN)	MOTOR				REMARKS
											RPM	BHP	HP	V/PH	
P-4	ELEC SERVICE 135	1.5 BC	BASE MOUNTED END SUCTION	HEATING CIRCULATION	130 GPM	73	225 °F	61.0	2"	1 1/2"	1670	3.8 hp	5 hp	208/3	1,2,3,4
P-5	ELEC SERVICE 135	1.5 BC	BASE MOUNTED END SUCTION	HEATING CIRCULATION	130 GPM	73	225 °F	61.0	2"	1 1/2"	1670	3.8 hp	5 hp	208/3	1,2,3,4

NOTES:
1. BASIS OF DESIGN: BELL & GOSSETT
2. PROVIDE SENSORLESS VFD (TECHNOLOGIC INTELLIGENT PUMP CONTROLLER) WITH NEMA12 ENCLOSURE AND NON-FUSED DISCONNECT.
3. PROVIDE SIC/SIC/EPR PUMP SEALS AND CARTRIDGE FILTERS.
4. REUSE EXISTING SUCTION, TRIPLE DUTY VALVE AND FLEX CONNECTORS.

AIR SEPARATOR SCHEDULE

EQUIP. NO.	LOCATION	BELL & GOSSETT MODEL	SERVES	DESCRIPTION	MAX. TEMP.	MAX PRESS.	FLOWRATE	WPD (FT HD)	CV COEFFICIENT	PIPE SIZE	NOTES
AS-1	ELEC SERVICE 135	R-3G	HEATING CIRCULATION	TANGENTIAL WITH STRAINER	350 °F	130 psi	130 GPM	2.8 ftH2O	119	3"	1,2,3

NOTES:
1. BASIS OF DESIGN: BELL & GOSSETT
2. PROVIDE HIGH CAPACITY AIR VENT.
3. STAMPED AND ASME RATED.

BUILDING/EQUIPMENT VENTILATION CALCULATIONS

EQUIPMENT NUMBER	ZONE ID				MINIMUM VENTILATION RATES								DESIGN		
	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)	Vpz (CFM)	Vpzm (CFM)	Zp
AC-D	322	LIBRARY DIR	OFFICE SPACES	262	5	2	5.0	10	0.06	16	26	0.8	30	800	800	0.04
	323	ADMIN	OFFICE SPACES	292	5	2	5.0	10	0.06	18	28	0.8	35	400	400	0.09
	324	BOARD ROOM	Conference rooms	306	50	16	5.0	80	0.06	19	98	0.8	125	800	800	0.16
AC-E	B1	STAIR	Corridors	158	0	0	0.0	0	0.06	10	9	0.8	10	50	50	0.20
	146	LAKE VIEW ROOM	Conference rooms	350	50	18	5.0	90	0.06	21	111	0.8	140	400	400	0.35
	144	GARDEN VIEW ROOM	Conference rooms	389	50	20	5.0	100	0.06	24	123	0.8	155	470	470	0.33
	146A	LAKE VIEW STORAGE	Storage rooms	60	0	0	0.0	0	0.12	8	7	0.8	10	30	30	0.33
	B2	STAIR	Corridors	158	0	0	0.0	0	0.06	10	9	0.8	10	50	50	0.20
	210	QUIET STUDY 2	Conference rooms	399	50	20	5.0	100	0.06	24	124	0.8	155	450	450	0.34
	209	QUIET STUDY 1	Conference rooms	415	50	21	5.0	105	0.06	25	130	0.8	160	500	500	0.32
	B3	STAIR	Corridors	159	0	0	0.0	0	0.06	10	10	0.8	10	50	50	0.20
AC-I1	161	WOMEN'S	Corridors	48	0	0	0.0	0	0.06	3	3	0.8	5	50	50	0.10
	150	COFFEE	Conference rooms	45	50	3	5.0	15	0.06	3	18	0.8	20	100	100	0.20
	154	PASSAGE	Corridors	320	0	0	0.0	0	0.06	20	19	0.8	25	100	100	0.25
	153	LOBBY	Lobbies/prefunction	484	30	15	7.5	113	0.06	30	142	0.8	175	300	300	0.58
	152	CIRCULATION	OFFICE SPACES	359	5	2	5.0	10	0.06	22	32	0.8	40	100	100	0.40
	156-1	FICTION-1	Libraries	1145	10	12	5.0	60	0.12	138	197	0.8	245	700	700	0.35
	155-3	SEATING-3	Corridors	292	0	0	0.0	0	0.06	18	18	0.8	20	150	150	0.13
	205	REFERENCE LIBRARIAN	Libraries	561	10	6	5.0	30	0.12	68	97	0.8	120	500	500	0.24
	155-2	SEATING-2	Corridors	342	0	0	0.0	0	0.06	21	21	0.8	25	200	200	0.13
	215	TABLE AREA	Libraries	1092	10	11	5.0	55	0.12	132	186	0.8	235	800	800	0.29
AC-I2	147	OFFICE	OFFICE SPACES	198	5	1	5.0	5	0.06	12	17	0.8	20	300	300	0.07
	141	CHILDREN	Libraries	796	10	8	5.0	40	0.12	96	136	0.8	170	800	800	0.21
	142	CHILD COMP	Libraries	657	10	7	5.0	35	0.12	79	114	0.8	140	800	800	0.18
	151	COPIER	OFFICE SPACES	115	5	1	5.0	5	0.06	7	12	0.8	15	100	100	0.15
	212-1	STACK AREA 1-1	Libraries	1099	10	11	5.0	55	0.12	132	187	0.8	235	1400	1400	0.17
	213	PASSAGE	Corridors	301	0	0	0.0	0	0.06	19	18	0.8	25	100	100	0.25
AC-M	311	ANTE AREA	Corridors	221	0	0	0.0	0	0.06	14	13	0.8	15	100	100	0.15
	321	MEETING ROOM	Conference rooms	1557	50	78	5.0	390	0.06	94	483	0.8	605	3900	3900	0.16
AC-N	140	READING 1	Libraries	890	10	9	5.0	45	0.12	107	152	0.8	190	1000	1000	0.19
	139	READING 2	Libraries	596	10	6	5.0	30	0.12	72	102	0.8	125	1000	1000	0.13
	214	READING 2	Libraries	649	10	7	5.0	35	0.12	78	113	0.8	140	1000	1000	0.14
	211	READING 3	Libraries	861	10	9	5.0	45	0.12	104	148	0.8	185	1000	1000	0.19
AC-S1	208	TUTOR 2	Conference rooms	129	50	7	5.0	35	0.06	8	43	0.8	55	300	300	0.18
	207	REFERENCE OFFICE	OFFICE SPACES	133	5	1	5.0	5	0.06	8	13	0.8	15	300	300	0.05
	206	REFERENCE	Libraries	219	10	3	5.0	15	0.12	27	41	0.8	50	500	500	0.10
	310	DISTANCE LEARNING	Conference rooms	567	50	29	5.0	145	0.06	35	179	0.8	225	600	600	0.38
	323	ADMIN	Corridors	62	0	0	0.0	0	0.06	4	4	0.8	5	70	66	0.08
	304	GALLERY	Corridors	803	0	0	0.0	0	0.06	49	48	0.8	60	540	534	0.11
AC-S2	157	CHILDREN'S LIBRARIAN	OFFICE SPACES	210	5	2	5.0	10	0.06	13	23	0.8	30	400	400	0.08
	160	MEN'S	Corridors	50	0	0	0.0	0	0.06	3	3	0.8	5	50	50	0.10
	158	LIBRARIAN	OFFICE SPACES	196	5	1	5.0	5	0.06	12	17	0.8	20	300	300	0.07
	159	BOOK DROP	Storage rooms	48	0	0	0.0	0	0.12	6	6	0.8	5	50	50	0.10
	162	ENTRY LOBBY	Lobbies/prefunction	358	30	11	7.5	83	0.06	22	104	0.8	130	600	600	0.22
	S1	STAIR-1	Corridors	112	0	0	0.0	0	0.06	7	7	0.8	10	100	100	0.10
	143	PICTURE BKS	Libraries	369	10	4	5.0	20	0.12	45	64	0.8	80	500	500	0.16
	S1	STAIR-2	Storage rooms	125	0	0	0.0	0	0.12	15	15	0.8	20	100	100	0.20
	203-1	LVA-1	Storage rooms	177	0	0	0.0	0	0.12	22	21	0.8	25	300	300	0.08
	204-1	TUTOR 1-1	OFFICE SPACES	106	5	1	5.0	5	0.06	7	11	0.8	15	300	300	0.05
	200	RESEARCH	Libraries	182	10	2	5.0	10	0.12	22	32	0.8	40	300	300	0.13
	S3	STAIR-3	Corridors	125	0	0	0.0	0	0.06	8	8	0.8	10	100	100	0.10
	202	LOBBY-1	Corridors	323	0	0	0.0	0	0.06	20	19	0.8	25	200	200	0.13
	301	LOCAL HISTORY	OFFICE SPACES	540	5	3	5.0	15	0.06	33	47	0.8	60	850	850	0.07
	300	ELEV LOBBY	Corridors	258	0	0	0.0	0	0.06	16	15	0.8	20	250	250	0.08
AC-T	317	KITCHENETTE	Conference rooms	117	50	6	5.0	30	0.06	8	37	0.8	45	100	100	0.45
	309	RECEIVING	Storage rooms	84	0	0	0.0	0	0.12	11	10	0.8	15	50	50	0.30
	316	STAFF ROOM	Conference rooms	440	50	22	5.0	110	0.06	27	136	0.8	170	400	400	0.43
	312	CORR B	Corridors	142	0	0	0.0	0	0.06	9	9	0.8	10	100	100	0.10
	313	TECHNICAL SERVICES	OFFICE SPACES	736	5	4	5.0	20	0.06	45	64	0.8	80	700	700	0.11
	313a	STORAGE	Storage rooms	98	0	0	0.0	0	0.12	12	12	0.8	15	250	250	0.06
	315	TECHNICAL SERVICES	OFFICE SPACES	392	5	2	5.0	10	0.06	24	34	0.8	40	400	400	0.10
AC-W	155-1	SEATING-1	Libraries	441	10	5	5.0	25	0.12	53	78	0.8	95	700	700	0.14
	156-2	FICTION-2	Libraries	588	10	6	5.0	30	0.12	71	101	0.8	125	800	800	0.16
	217	READING 1	Libraries	441	10	5	5.0	25	0.12	53	78	0.8	95	600	600	0.16
	216	STACK AREA 2	Libraries	595	10	6	5.0	30	0.12	72	101	0.8	125	800	800	0.16

NOTES:
Rp = PEOPLE OUTDOOR AIR RATE, Ra = AREA OUTDOOR AIR RATE, Vbz = BREATHING ZONE OUTDOOR AIRFLOW , Ez = AIR DISTRIBUTION CONFIGURATION, Voz = ZONE OUTDOOR AIRFLOW
Vpz = ZONE PRIMARY AIRFLOW, Zpz = PRIMARY OUTDOOR AIR FRACTION, Vps = SYSTEM PRIMARY AIRFLOW, Vot = OUTDOOR AIR INTAKE FLOW,
Vou = UNCORRECTED OUTDOOR AIR INTAKE, D = OCCUPANT DIVERSITY, Ev = SYSTEM VENTILATION EFFICIENCY

EXISTING AIR CONDITIONER (AC) SCHEDULE

EQUIP. NO.	AREAS SERVED	LOCATION	SUPPLY FAN: SUPPLY AIRFLOW (CFM)	SUPPLY FAN: MIN. OUTSIDE AIRFLOW (CFM)	SUPPLY FAN: MOTOR HP	SUPPLY FAN: VOLT/PH	HYDRONIC COIL FLOW: COOLING	HYDRONIC COIL FLOW: HEATING	NOTES
AC-B	BASEMENT-BOOK BARN	CLOSET 131	N/A	N/A	N/A	N/A	8.1	3.0	
AC-N	1ST-2ND FLR-NORTH	ATTIC	4000	550	3	208/3	24.7	17.3	
AC-E	1ST-2ND FLR-EAST	ATTIC	2100	600	1.5	208/3	12.4	9.1	
AC-S1	1ST-2ND FLR-SOUTH, RIGHT	ATTIC	2300	430	1.5	208/3	12.8	7.9	
AC-S2	2ND-3RD FLR-SOUTH, LEFT	ATTIC	4400	460	5	208/3	30.0	17.4	
AC-W	1ST-2ND FLR-WEST	ATTIC	2900	370	3	208/3	32.6	19.2	
AC-I1	1ST-2ND FLR-INTERIOR, LEFT	ATTIC	3000	740	2	208/3	18.6	10.5	
AC-I2	1ST-2ND FLR-INTERIOR, RIGHT	ATTIC	3500	550	2	208/3	18.6	10.5	
AC-D	3RD FLR-DIRECTORS OFFICES	ATTIC	2000	210	1.5	208/3	13.5	9.1	
AC-M	3RD FLR-MEETING ROOM	ATTIC	4000	520	3	208/3	24.8	17.3	
AC-T	3RD FLR-TECHNICAL SERVICES	ATTIC	2000	440	1.5	208/3	13.5	9.1	

SYSTEM VALUES AC-D			
Vps	2000	(UNCORRECTED OA) Vou	153
(CORRECTED OA) Vot	210	D	1.00
OA%	10.50	Ev	0.73
ADDITIONAL OA%	37		

SYSTEM VALUES AC-E			
Vps	2000	(UNCORRECTED OA) Vou	527
(CORRECTED OA) Vot	575	D	1.00
OA%	28.75	Ev	0.91
ADDITIONAL OA%	9		

SYSTEM VALUES AC-I1			
Vps	3000	(UNCORRECTED OA) Vou	738
(CORRECTED OA) Vot	740	D	1.00
OA%	24.7	Ev	1.00
ADDITIONAL OA%	0		

SYSTEM VALUES AC-I2			
Vps	3500	(UNCORRECTED OA) Vou	485
(CORRECTED OA) Vot	545	D	1.00
OA%	15.6	Ev	0.89
ADDITIONAL OA%	12		

SYSTEM VALUES AC-M			
Vps	4000	(UNCORRECTED OA) Vou	498
(CORRECTED OA) Vot	515	D	1.00
OA%	13	Ev	0.97
ADDITIONAL OA%	3		

SYSTEM VALUES AC-N			
Vps	4000	(UNCORRECTED OA) Vou	516
(CORRECTED OA) Vot	550	D	1.00
OA%	14	Ev	0.94
ADDITIONAL OA%	7		

SYSTEM VALUES AC-S1			
Vps	2300	(UNCORRECTED OA) Vou	331
(CORRECTED OA) Vot	430	D	1.00
OA%	18.7	Ev	0.77
ADDITIONAL OA%	30		

SYSTEM VALUES AC-S2			
Vps	4400	(UNCORRECTED OA) Vou	399
(CORRECTED OA) Vot	455	D	1.00
OA%	10.3	Ev	0.87
ADDITIONAL OA%	14		

SYSTEM VALUES AC-T			
Vps	2000	(UNCORRECTED OA) Vou	306
(CORRECTED OA) Vot	435	D	1.00
OA%	21.8	Ev	0.70
ADDITIONAL OA%	42		

SYSTEM VALUES AC-W			
Vps	2900	(UNCORRECTED OA) Vou	359
(CORRECTED OA) Vot	370	D	1.00
OA%	12.8	Ev	0.97
ADDITIONAL OA%	3		

S.E.D. Control No. 48-01-01-06-6-017-004

Rev. No.:	Date:	Description:

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TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Public Library
Mahopac, New York

Reconstruction To:
Mahopac Public Library

Schedules

Drawn By:	Date:	Drawing Number:
TTAE	12/13/21	M600

Project No.: 203778-21001