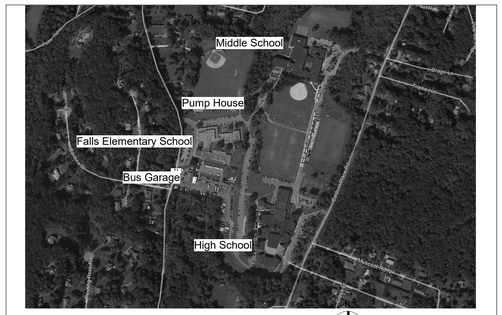
Alterations to:
High School
Middle School
Falls Elementary School
Bus Garage
New Building: Pump House

Mahopac Central School District
Mahopac, NY

48-01-01-06-0-004-020
48-01-01-06-0-006-013
48-01-01-06-0-003-008
48-01-01-06-0-010-009
48-01-01-06-7-026-001



Project Location Map

Drawing List

Middle School (B-Series)

GENERAL
G002 Title Sheet
G100 Symbols and Abbreviations

PHASING
BG200 Site Phasing Plan

CODE COMPLIANCE
BG300 Site Code Compliance Plan
BG350 Code Compliance Review
BG351 Code Compliance - Ground Floor and First Floor Key Plans
BG352 Code Compliance - Second Floor Key Plan

HAZARDOUS MATERIALS
BH100 Abatement Plan

CIVIL
BC100 Site Demolition Plan
BC110 Site Soil Erosion and Sediment Control Plan
BC120 Site Layout Plan
BC130 Site Grading Plan
BC140 Site Utility Plan

ARCHITECTURAL
BA100 Demolition, Construction and Reflected Ceiling Plans

MECHANICAL
BM050 Pump Room Ventilation Plan

ELECTRICAL
BE001 Site Demolition and Layout Plan
BE160 Second Floor Power Plan

PLUMBING
BP050 Second Floor Key Plan and Details
BP400 Enlarged Plans, Details and Schedule

Falls Elementary School (F-Series)

HAZARDOUS MATERIALS
FH100 Abatement Plan

ELECTRICAL
FE160 First Floor Power Plan

PLUMBING
FP050 First Floor Key Plan
FP400 Enlarged Plans, Details and Schedule

Bus Garage (G-Series)

CODE COMPLIANCE
GG051 Code Compliance Review - First and Second Floor Key Plans

HAZARDOUS MATERIALS
GH100 First Floor Abatement Plans

STRUCTURAL
GS130 Roof Framing Plan

MECHANICAL
GM130 Floor Plans
GM131 Schedules, Details and Controls

ELECTRICAL
GE160 First Floor Demolition and Power Plans

Pump House (H-Series)

ARCHITECTURAL
HA100 First Floor, Reflected Ceiling and Roof Plans
HA200 Exterior Elevations and Building Sections

STRUCTURAL
HS130 Foundation Plan and Details

MECHANICAL
HM130 Floor Plan, Schedules, Details and Controls

ELECTRICAL
HE100 First Floor Lighting and Power & Communications Plan

PLUMBING
HP051 First Floor Plan, Details and Schedules
HP500 Details and Schedules

Common

ZC500 Site Details
ZC501 Site Details
ZC502 Site Details
ZC503 Site Details
ZC504 Site Details
ZC505 Site Details
ZC506 Site Details
ZG100 Overall Site Key Plan
ZV001 Mahopac Campus - Survey - Layout 1
ZV002 Mahopac Campus - Survey - Layout 2
ZV003 Mahopac Campus - Survey - Layout 3
ZV004 Mahopac Campus - Survey - Layout 4
ZV005 Mahopac Campus - Survey - Layout 5

Drawn By:	Date:	Drawing Number:
Author	08/21/20	AA130
Project No.:		
121111-19002		

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 2 of 2

121111-19002
08/21/20

Set No.

Drawing Number:
G002

Site Symbols

- SPOT ELEVATION (+ 83.36)
- TOP OF CURB ELEVATION / BOTTOM OF CURB ELEVATION (99.50 TC / 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 (100 / 1) (ROOM NO W/ DOOR NO)
- 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)
- 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-X — SKYLIGHT (REINSTALLED OR REPLACED)
- SMOKE VENT OR ROOF HATCH
- PIPE PENETRATION
- ROOFTOP HOOD ON CURB, TYP
- ROOFTOP EQUIPMENT ON CURB, TYP (SHAPE AND SIZE VARY)

REFLECTED CEILING SYMBOLS

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

Mechanical Symbols

- EQUIPMENT TAG (NON-MOTORIZED) (TAG NO. / VALUE)
- CFM, GPM, CAPACITY
- EQUIPMENT TAG (MOTORIZED) (TAG NO. / VALUE)
- REGISTER, GRILLE, DIFFUSER (TAG NO. / NECK SZ. / CFM)
- FIN TUBE RADIATION (FTR-TYPE / ENC. LENGTH / ELEM. LENGTH / GPM)
- 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
- DUCTWORK, FIRST VALUE IS SIZE OF SIDE IN VIEW (8x8)
- 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)
- FLEXIBLE DUCT (OR)
- VOLUME DAMPER
- FIRE DAMPER (FD)
- SMOKE DAMPER (SD)
- FIRE AND SMOKE DAMPER (FSD)
- AUTOMATIC AIR DAMPER (AAD)
- BACKDRAFT DAMPER (BDD)
- 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
- PRESSURE SWITCH (P)
- PRESSURE GAUGE (P)
- TEMPERATURE/ PRESSURE GAUGE (TP)
- MANUAL AIR VENT
- AUTOMATIC AIR VENT (AV)
- STEAM VENT (SV)
- VACUUM BREAKER (VB)
- FLOW SWITCH (F)
- FLOW METER (M)
- ORIFICE METER
- VENTURI FLOW METER
- WYE STRAINER
- WYE STRAINER WITH BLOW DOWN VALVE
- DIRECTION OF FLOW
- PIPE BREAK
- WATER METER (M)

- BASKET STRAINER
- DUPLEX BASKET STRAINER
- AQUASTAT (A)
- PITCH PIPING (DOWN) (D)
- AUTOMATIC FLOW CONTROL VALVE
- BACKFLOW PREVENTOR
- BALANCING VALVE (B)
- BALL VALVE
- EXISTING BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- 2-WAY CONTROL MODULATING VALVE
- 3-WAY CONTROL, MODULATING VALVE (INSTALL STEM VERTICAL) (T)
- 3-WAY CONTROL, THERMOSTATIC MIXING VALVE (SELF-CONTAINED)
- SOLENOID (ELECTRIC) ON/OFF (S)
- MOTORIZED MODULATING VALVE (M)
- 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
- THERMOSTATIC STEAM TRAP (T)
- FLOAT AND THERMOSTATIC STEAM TRAP (FT)
- BUCKET STEAM TRAP (B)
- AIR SEPARATOR
- CIRCULATING PUMP
- WATER HAMMER ARRESTOR
- CLEANOUT PLUG
- CODP — CLEANOUT DECK PLATE
- FIRE RISER VALVE ASSEMBLY (FV)
- 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

- 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
- MP — MOP RECEPTOR
- MP — MULTICOLOR WALL COATING
- MT — MOUNT
- MTD — MOUNTED
- MTG — MOUNTING
- MTL — METAL
- MTH — MARBLE THRESHOLD
- MW — MEDIUM WALL
- 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
- 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
- RAG — RESILIENT ASPHALT RAN, 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
- REGD — REGISTER
- REINF — REINFORCE (D) (ING)
- REM — REMOVED
- REQD — REQUIRED
- RESIL — RESILIENT
- RET — RETAINING, RETURN
- REV — REVISION, REVISED, REVEAL
- RF — RUBBER FLOORING
- RFG — ROOFING
- RFP — ROOF HATCH
- RFNC — RECESSED FLOOR MAT
- RG — RETURN GRILLE
- RGSS — RIGID GALVANIZED STEEL
- RH — RIGHT HAND
- RHC — REHEAT COIL
- RI — ROUGH-IN

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

Symbol Tags

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

TYPICAL FOR ALL ELEC SYMBOLS

Standard Symbols

- STANDARD REFERENCE BUBBLE (2 / A12) — DETAIL NUMBER / DRAWING NUMBER
- Floor Plan — 1/8"=1'-0" — DRAWING TITLE & SCALE
- BUILDING SECTION (2 A112 / 2 A112)
- CONTRACT LIMIT LINE (CLL)
- ADA 5' TURNING RADIUS
- 100'-0" 1st FF — ELEVATION CALL OUT
- WALL SECTION (2 A112)
- ELEVATION (2 A12)
- INTERIOR ELEVATION (1 / 4 A112 2 / 3)
- DETAIL (2 A112)
- NORTH ARROW
- CLASSROOM 101 — ROOM NAME AND NUMBER
- PROPERTY LINE
- CUT LINE
- COLUMN CENTER LINE (A)
- CENTER LINE
- MATCH LINE (A A / B B)
- DRAWING REVISION NUMBER (5)
- 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

High School
S.E.D. Control No.48-01-01-06-0-004-020

Middle School
S.E.D. Control No.48-01-01-06-0-006-013

Falls Elementary School
S.E.D. Control No. 48-01-01-06-0-003-008

Bus Garage
S.E.D. Control No.48-01-01-06-0-010-009

Pump House
S.E.D. Control No.48-01-01-06-0-000-000

Rev. No.:	Date:	Description:

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ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

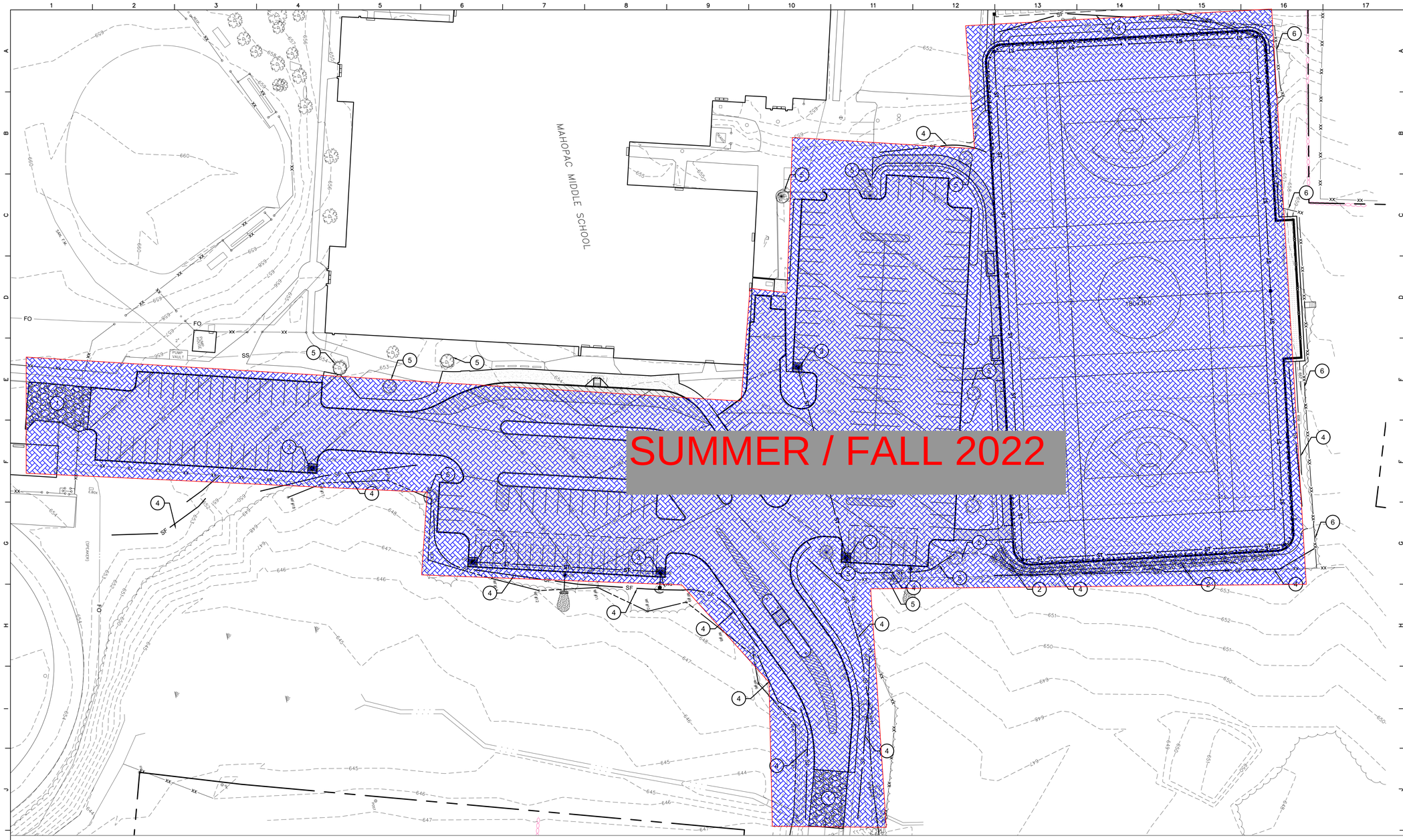
Alterations to:

Symbols and Abbreviations

Drawn By:	Date:	Drawing Number:
TTAE	08/21/20	G100
Project No.:		
121111-19002		

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

AAC	ASBESTOS ABATEMENT CONTRACTOR	BO	BY OTHERS	CONST	CONSTRUCTION	EB	EXPANSION BOLT	FRA	FIRE ASH AIR	IN	INCHES	MAX	MAXIMUM	PLAS	PLASTER, PLASTIC	RL	RAIN LEADER	SW	SWITCH, SOFTENED WATER	VERM	VERMICULITE
AAD	AUTOMATIC AIR DAMPER	BOD	BOTTOM OF DUCT	CONT	CONTINOUS	EC	ELECTRICAL CONTRACTOR	FRC	FIRE RESISTANT COATING	INCL	INCLUDE (D) (ING)	MB	MARKER BOARD	PLF	POUNDS PER LINEAR FOOT	RLG	RAIL(ING)	SWCI	SERVICE WEIGHT CAST IRON	VERT	VERTICAL
AB	ANCHOR BOLT, AIR BARRIER	BOF	BOTTOM OF FOOTING	CONTR	CONTRACT (OR)	ECF	ENHANCED CONCRETE FLOORING	FRP	FIBERGLASS REINFORCED PANEL	INS	INSULATE (D) (ION)	MBH	THOUSAND BTUH	PLYWD	PLYWOOD	RM	ROOM	SYM	SYMMETRICAL	VEST	VESTIBULE
AC	AIR CONDITIONING, ALTERNATING CURRENT	BOS	BOTTOM OF STEEL	COORD	COORDINATE	EIFS	EXTERIOR INSULATION SYSTEM	FRT	FIRE RETARDANT	INT	INTERIOR	MBR	MEMBER	PM	PLUGMOLD	RMC	RIGID METAL CONDUIT	SYN	SYNTHETIC	VF	VERIFY IN FIELD
ACCMP	ASPHALT COATED CORN METAL PIPE	BOT	BOTTOM	CORR	CORRUGATED, CORRIDOR	EF	EACH FACE, EXHAUST FAN	FS	FLOOR SINK	INV	INVERT	MD	MOTORIZED DAMPER	PNL	PANEL	RNC	RIGID NONMETALLIC CONDUIT	SYS	SYSTEM	VIN	VINYL
ACM	ASBESTOS CONTAINING MATERIAL	BPL	BRASS PLATE	COVP	CLEAN OUT WALL PLATE	EJ	EXPANSION JOINT	FSD	FIRE AND SMOKE DAMPER	IP	IRON PIPE	ME	MECHANICAL EQUIPMENT	POC	POINT OF CURVATURE, POINT OF CONNECTION	RNT	RUNNING TRAP			VIT	VITREOUS TILE
ACT	ACOUSTICAL CEILING TILE	BR	BOTTOM REGISTER	CPVC	CHLORINATED POLY VINYL CHLORIDE	ELEC	ELECTRIC (AL)	FT	FEET, FLOOR TREATMENT	IPS	IRON PIPE SIZE	MECH	MECHANICAL (LY)			RO	ROUGH OPENING	T	TREAD, TOP, TOILET ROOM, TONS, THERMOSTAT	VNR	VENEER
ACU	AIR CONDITIONONCO NG UNIT	BRDG	BRIDGING	CR	CEILING REGISTER	ELEM	ELEMENT	FTG	FOOTING	IW	INDIRECT WASTE	MED	MEDIUM	POL	POLISHED	ROW	RIGHT OF WAY			VOL	VOLUME
AD	AREA DRAIN	BRG	BEARING	CRS	COURSE (S)	ELEV	ELEVATION, ELEVATOR	FTR	FIN TUBE RADIATION			MEMB	MEMBRANE	POS	POSITIVE	RPM	REVOLUTIONS PER MINUTE	TB	TOP AND BOTTOM, TACK BOARD, TERRAZZO BASE	VTR	VENT THROUGH ROOF
ADA	AMERICAN DISABILITIES ACT	BRK	BRICK	CSK	COUNTERSINK	EM	EMERGENCY	FV	FLUSH VALVE	J	JANITORS CLOSET	MEZZ	MEZZANINE	POT	POINT OF TANGENCY	RR	REMOVE EXISTING AND REPLACE WITH NEW	TBD	TO BE DETERMINED	VWC	VINYL WALL COVERING
ADD	ADDENDUM	BRSH	BRONZE	CSMT	CASEMENT	EMT	ELECTRICAL METALLIC TUBING			JAN	JANITORS CLOSET	MF	MIXING FAUCET	PR	PAIR	RS	RUBBER STAIR TREAD/RISER	TBR	TO BE RETAINED		
ADDL	ADDITIONAL	BSMT	BASEMENT	CT	COMPUTER TERMINAL, CERAMIC BASE TILE	ENC	ENCLOSURE	G	GAS, GLYCOL	JB	JUNCTION BOX	MFR	MANUFACTURE (R)	PRE	POWER ROOF EXHAUSTER	RTH	ROOF TOP HOOD	TC	TEMPERATURE CONTROL, TEMPERED GLEAR, TELECOMMUNICATIONS CONTRACTOR,	W	WEST, WIDTH, WIDE, WASTE, WATT
ADDN	ADDITION	BTUH	BRITISH THERMAL UNITS PER HOUR	CTOP	COUNTER TOP	EOS	EDGE OF SLAB	GAL	GALLON	JCT	JUNCTION	MH	MAN HOLE	PREP	PREPARE (ATION)	RTU	ROOF TOP UNIT			WB	WET BULB
ADH	ADHESIVE	BUR	BUILT-UP ROOFING	CTR	CENTER	EQ	EQUIVALENT	GALV	GALVANIZED	JT	JOINT	MIR	MIRROR	PRF	PREFORMED	RW	RAW WATER			WC	WATER CLOSET, WALL COVERING
ADJ	ADJACENT	BW	BOTTOM OF WALL	CUH	CUBIC	EQC	EQUIPMENT CONTRACTOR	GASK	GASKET (ED)	MISC	MISCELLANEOUS	PROJ	PROJECT							WD	WOOD FLOORING
ADR	ACCESS DOOR	BWC	BACK WATER CHECK VALVE	CW	CABINET UNIT HEATER	EQIP	EQUIPMENT	GC	GENERAL CONTRACT (OR)	KW	KILOWATT	MO	MASONRY OPENING	PS	POUNDS PER SQUARE FOOT	S	SOUTH, SUPPLY, SURGE PROTECTED	TCX	TOP CHORD EXTENTION	WDW	WINDOW
AEBS	ARCH EXPOSED STRUCTURAL STEEL			CV	CONVECTOR, CURB VALVE	ES	EXPOSED SURFACE, EXPOSED STRUCTURE	GCMU	GLAZED CONCRETE MASONRY UNIT	KWH	KILOWATT PER HOUR	MOD	MODULE (OR), MODEL	PSF	POUNDS PER SQUARE INCH	SA	SUPPLY AIR	TCY	TRIPLE DUTY VALVE	WDWC	WINDOW CONTRACTOR
AFF	ABOVE FINISH FLOOR	C	CONDUIT, CONVECTOR, CONDENSOR, COMMON, CARPET	CW	COLD WATER	ESF	ELASTIC SHEET FLASHING	GCO	GRADE CLEANOUT GF GROUND FACE	KV	KILOVOLT	MOP	MOP RECEPTOR	PSI	POUNDS PER SQUARE INCH	SAN	SANITARY	TEL	TELEPHONE	WF	WASH FOUNTAIN
AH	ACCESS HOLE			CWR	CHILLED WATER RETURN	ESM	ELASTIC SHEET MEMBRANE	GL	GLASS, GLAZING	KVA	KILOVOLT AMPERE	MP	MULTICOLOR WALL COATING	PT	POINT, PORCELAIN TILE	SC	SOLID CORE, SILL COCK, SEALED CONCRETE	TEMP	TEMPERATURE	WG	WALL GRILLE, WATER GAUGE
AHU	AIR HANDLING UNIT	CA	COMPRESSED AIR	CWS	CHILLED WATER SUPPLY	EW	EACH WAY	GND	GROUND			MT	MOUNT	PTD



1 Site Phasing Plan
1" = 30'

0 15□ 30□ 60□
SCALE: 1" □ 30□

JUNE 2022 THROUGH SEPTEMBER 2022

S.E.D. Control No. 48-01-01-06-0-006-013

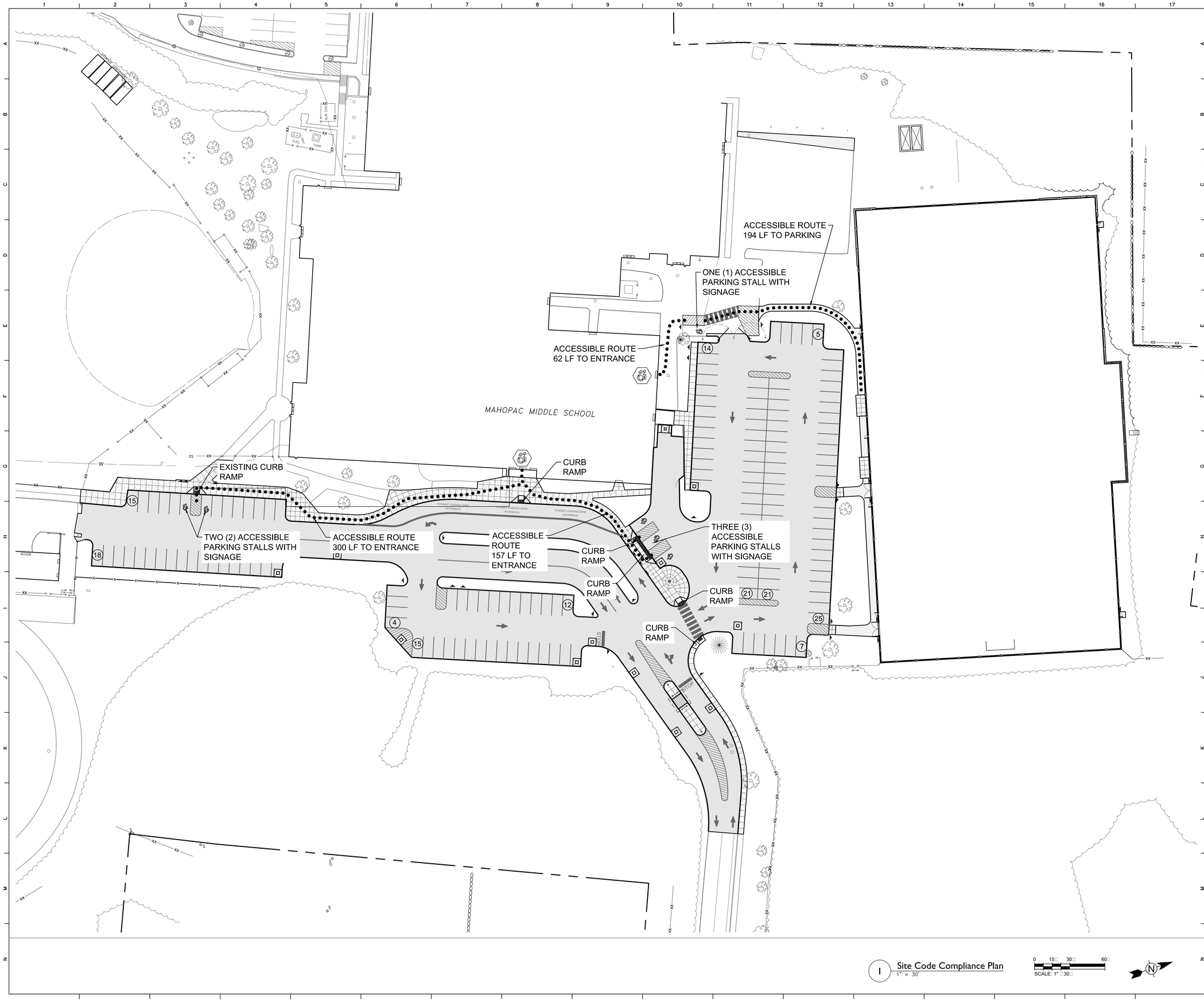
Rev. No.:	Date:	Description:

Mahopac Central School District
Mahopac, NY

Project Info and Description:
Reconstruction at Mahopac Middle School

Site Phasing Plan

Drawn by:	Date:	Drawing No.:
Palombo	08/21/20	BG200
T+ Project No.: 121111-19002		



1 Site Code Compliance Plan
1" = 30'

0 15 30 60
SCALE: 1" = 30'

General Site Notes

1. REFER TO DRAWING BC100 FOR GENERAL SITE NOTES THAT APPLY TO ALL BC-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: 153

NUMBER OF ACCESSIBLE PARKING SPACES REQUIRED: 6

TOTAL NUMBER OF EXISTING AND PROPOSED ACCESSIBLE PARKING SPACES: 6

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

BRUSH / VEGETATION LIMITS

S.E.D. Control No. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-0-004-020
S.E.D. Control No. 48-01-01-06-0-006-013

Rev. No.:	Date:	Description:
1	12/18/20	REVISED PER SED COMMENTS

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ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Middle School

Site Code Compliance Plan

Drawn by:	Date:	Drawing No.:
JRS	08/21/20	BG300

T+ Project No.: 121111-19002

Code Compliance Review

PROJECT LOCATION:
425 BALDWIN PLACE RD, MAHOPAC, NY 10541
SOUTH OF LAKE MAHOPAC, BOUNDED BY BALDWIN PLACE RD. TO THE EAST, MYRTLE AVE TO THE WEST AND MAHOPAC HIGH SCHOOL TO THE SOUTH.

PROJECT DESCRIPTION:
THIS PROJECT INCLUDES RENOVATION OF APPROXIMATELY 70 SF OF SPACE ON THE FIRST FLOOR TO CREATE A NEW PUMP ROOM TO HOUSE THE BUILDING'S MAIN WATER SUPPLY EQUIPMENT.

WORK GENERALLY CONSISTS OF THE FOLLOWING:

ALTERATIONS - LEVEL 2
- REMOVAL OF AN EXISTING STORAGE CLOSET
- CREATION OF NEW PUMP ROOM SPACE
- ACCESS FROM CORRIDOR TO NEW PUMP ROOM
- PLUMBING EQUIPMENT AND MINIMAL MECHANICAL AND ELECTRICAL SUPPORT.

APPLICABLE CODES AND STANDARDS:

BASED ON THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE INCLUDING APPLICABLE 2018 ICC CODES, 2020 BUILDING CODE of NYS INCLUDING THE 2020 BCNYS, 2020 EBCNYS AND 2020 ECCNYS, ICC A117.1-09 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES AND COMMISSIONER OF EDUCATIONS 155 REGULATIONS (SED MPS-98).
.

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

BUILDING DATA:

BUILDING: MAHOPAC MIDDLE SCHOOL
425 BALDWIN PLACE RD.
MAHOPAC, NY 10541

DESCRIPTION: TWO STORY MASONRY BUILDING IN ADDITION TO A PARTIAL GROUND FLOOR LEVEL

YEAR BUILT: 1971 KNAPPE AND JOHNSON ARCHITECTS

BUILDING AREA:

GROUND	13,682 SQFT
1ST FLOOR	91,394 SQFT
2ND FLOOR	58,014 SQFT
TOTAL GROSS AREA=	163,090 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: E : EDUCATION

CONSTRUCTION TYPE -
EXISTING: IIB
NEW: IIB

FIRE SAFETY: IS AN AUTOMATIC SPRINKLER SYSTEM PROVIDED. REFER TO BUILDING AREA DATA BELOW FOR SPECIFIC AREAS PROVIDED.

NO

WORK AREA:

LOCATION	AREA	% OF TOTAL
GROUND	0 SQFT	0%
1ST FLOOR	70 SQFT	0.077%
2ND FLOOR	0 SQFT	0%

CORRIDOR DOORS: ALL CORRIDOR DOORS SCHEDULED TO BE REPLACED SHALL HAVE MINIMUM FIRE DOOR ASSEMBLY RATING OF 20 MINUTES IN ACCORDANCE WITH SECTION 716.5

PATH OF CODE COMPLIANCE:

2018 ICC CODES, 2020 BUILDING CODE of NYS INCLUDING THE 2020 BCNYS, 2020 EBCNYS AND 2020 ECCNYS, ICC A117.1-09 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES AND COMMISSIONER OF EDUCATIONS 155 REGULATIONS (SED MPS-98).
301.1.2 WORK AREA COMPLIANCE METHOD

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

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

ACCESSIBLE ROUTE AND ACCESSIBLE ENTRANCES:
NA

EXIT TRAVEL DISTANCE (PER TABLE 1017.2):
FOR EXIT TRAVEL DISTANCE - SEE BG351.

STAIR AND OTHER EXIT WIDTH CALCULATIONS (PER 1005.3.1 AND 1005.3.2):
NA

CORRIDOR ENCLOSURES (PER TABLE 1020.1):
FOR CORRIDOR FIRE RESISTANCE - SEE ENLARGED PLANS, PARTITION TYPES AND DOOR SCHEDULE.
ALL CROSS CORRIDOR PARTITIONS ARE SMOKE PARTITIONS AND EXTEND FROM FINISH FLOOR TO DECK ABOVE.

ASSEMBLY AREAS (PER TABLE 1004.1.2):
NA

INTERIOR FINISH REQUIREMENTS:

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

SIGNAGE NOTES:

1. REFER TO SPECIFICATION SECTION 10 14 00 AND SIGNAGE DRAWINGS FOR TYPES AND LOCATIONS.

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.

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

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

E. PROVIDE APPLIED FIREPROOFING TO ALL BEAMS, JOISTS AND STRUCTURAL STEEL ELEMENTS AT ALL FIRE BARRIERS, FIRE PARTITIONS, AND OTHER RATED WALLS WHERE INDICATED ON DRAWINGS, AND THAT ARE NOT COMPLETELY PROTECTED WITHIN THE RATED CONSTRUCTION. PROTECTION OF SUCH ELEMENTS SHALL MATCH THE RATING OF THE WALL THAT THE ELEMENTS ARE CONTAINED WITHIN.

F. ALL CMU CONSTRUCTION SHALL MEET FIRE RESISTANCE REQUIREMENTS INDICATED. PROVIDED BLOCK TYPE AS REQUIRED TO COMPLY WITH UL DESIGN NUMBERS AND WALL RATINGS INDICATED, REGARDLESS IF NOTED AS SUCH ON PLAN DETAILS.

Legend

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

— — — — — — — — — COMMON EGRESS PATH

XX NUMBER OF OCCUPANTS IN EACH SPACE, UNO

XX'-XX" TOTAL EGRESS DISTANCE PER PATH

NEW FIRE EXTINGUISHER LOCATION

S.E.D. Control No. 48-01-01-06-0-006-013

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

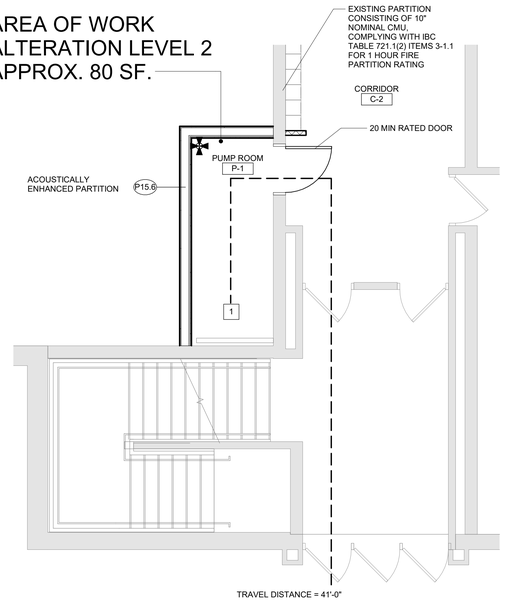
Reconstruction To:
Mahopac Middle School

Code Compliance Review

Drawn By:	Date:	Drawing Number:
TS	08/21/20	BG350

Project No.:
121111-19002

AREA OF WORK
ALTERATION LEVEL 2
APPROX. 80 SF.



3 First Floor Plan - Code
1/4" = 1'-0"

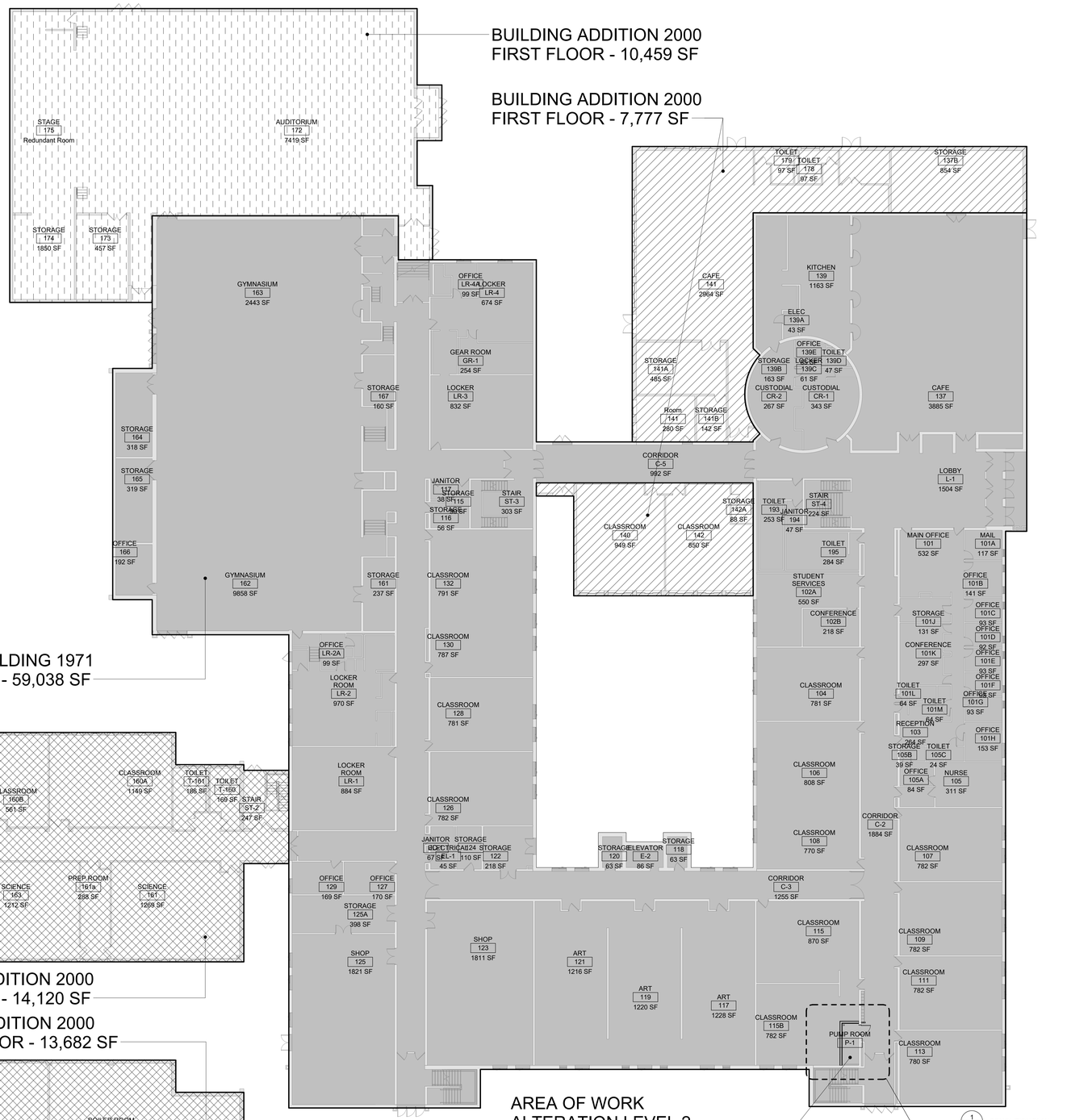
BUILDING ADDITION 2000
FIRST FLOOR - 10,459 SF

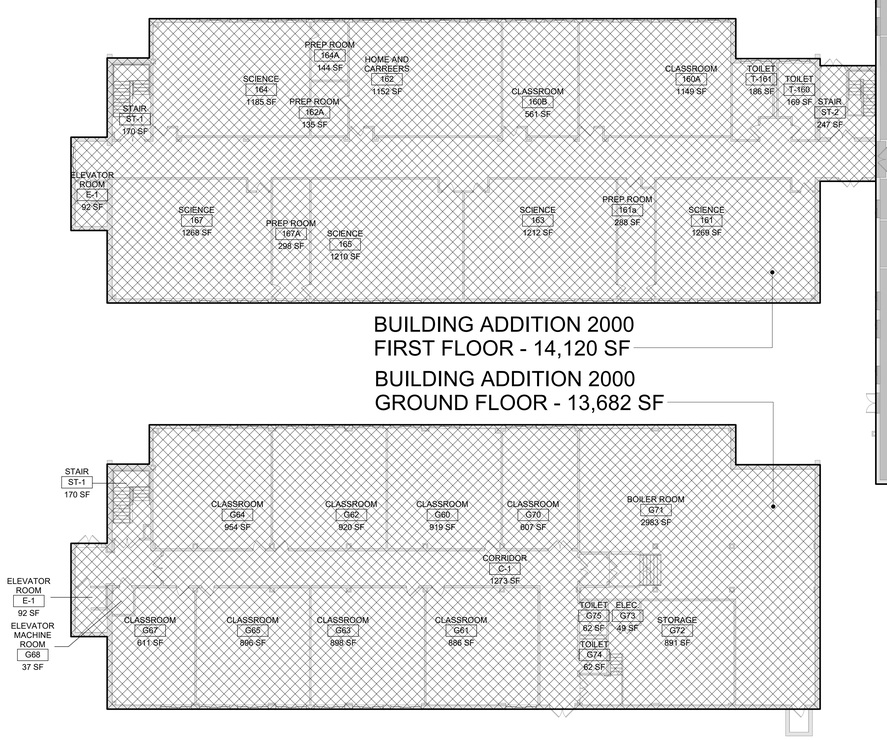
BUILDING ADDITION 2000
FIRST FLOOR - 7,777 SF

ORIGINAL BUILDING 1971
FIRST FLOOR - 59,038 SF

BUILDING ADDITION 2000
FIRST FLOOR - 14,120 SF

BUILDING ADDITION 2000
GROUND FLOOR - 13,682 SF





AREA OF WORK
ALTERATION LEVEL 2
FIRST FLOOR - APPROX. 80 SF.

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

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

General Notes

A. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

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

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

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

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

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

General Code Notes

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

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

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

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

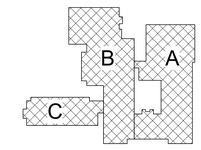
E. PROVIDE APPLIED FIREPROOFING TO ALL BEAMS, JOISTS AND STRUCTURAL STEEL ELEMENTS AT ALL FIRE BARRIERS, FIRE PARTITIONS, AND OTHER RATED WALLS WHERE INDICATED ON DRAWINGS, AND THAT ARE NOT COMPLETELY PROTECTED WITHIN THE RATED CONSTRUCTION. PROTECTION OF SUCH ELEMENTS SHALL MATCH THE RATING OF THE WALL THAT THE ELEMENTS ARE CONTAINED WITHIN.

F. ALL CMU CONSTRUCTION SHALL MEET FIRE RESISTANCE REQUIREMENTS INDICATED. PROVIDED BLOCK TYPE AS REQUIRED TO COMPLY WITH UL DESIGN NUMBERS AND WALL RATINGS INDICATED, REGARDLESS IF NOTED AS SUCH ON PLAN DETAILS.

Legend

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

- COMMON EGRESS PATH
- XX — NUMBER OF OCCUPANTS IN EACH SPACE, UNO
- XX'-XX" — TOTAL EGRESS DISTANCE PER PATH
- NEW FIRE EXTINGUISHER LOCATION



Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-0-006-013

Rev. No.:	Date:	Description:

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

TETRA TECH
ARCHITECTS & ENGINEERS

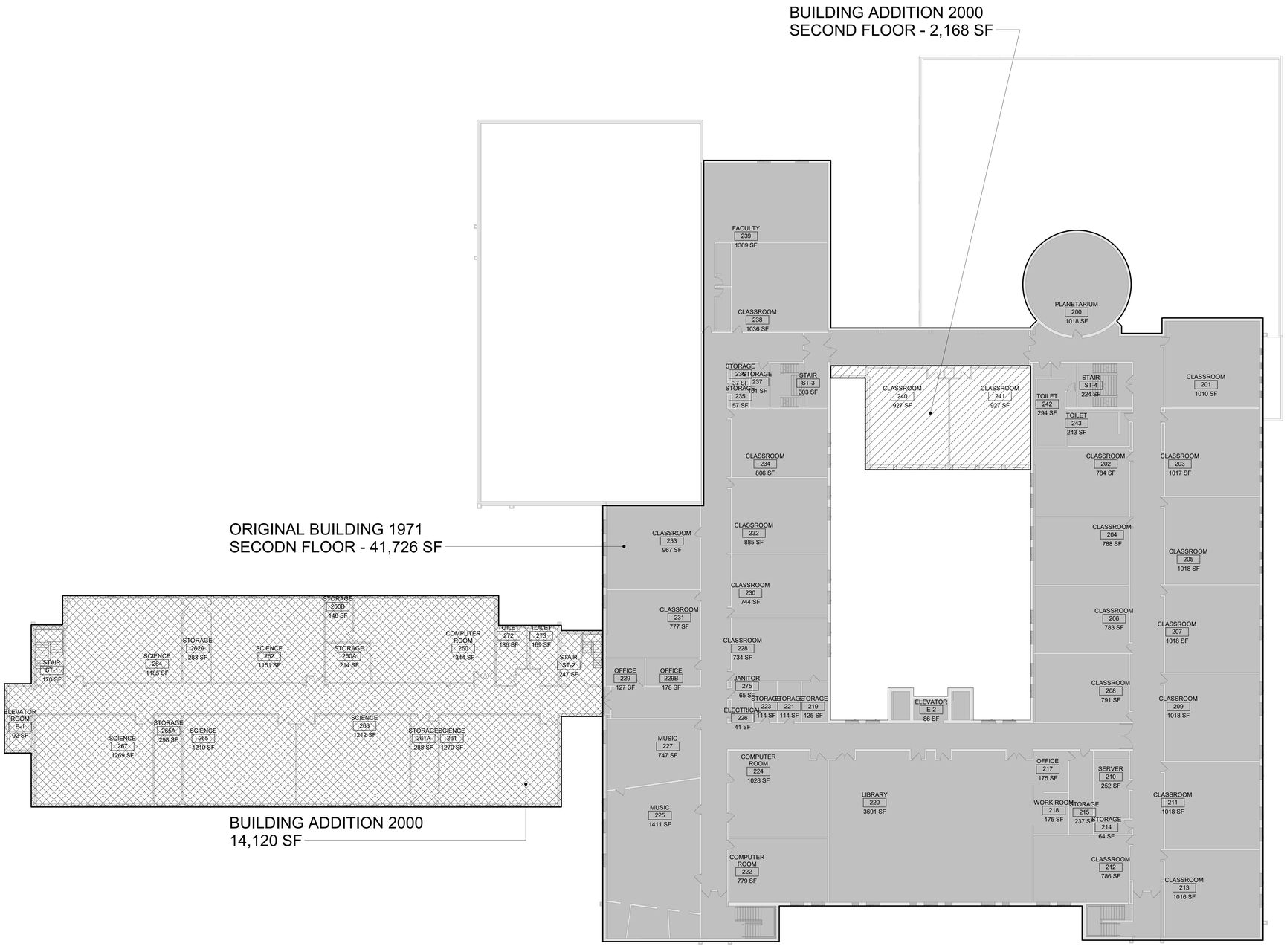
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Middle School

Code Compliance - Ground Floor and First Floor Key Plans

Drawn By:	Date:	Drawing Number:
TS	08/21/20	BG351
Project No.: 121111-19002		

1 BA100 DEMOLITION PLAN
2 BA100 CONSTRUCTION PLAN
3 BA100 CEILING PLAN
3 BG351 CODE



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

General Notes

A. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

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

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

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

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

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

General Code Notes

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

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

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

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

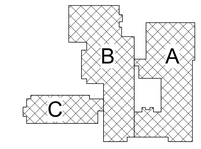
E. PROVIDE APPLIED FIREPROOFING TO ALL BEAMS, JOISTS AND STRUCTURAL STEEL ELEMENTS AT ALL FIRE BARRIERS, FIRE PARTITIONS, AND OTHER RATED WALLS WHERE INDICATED ON DRAWINGS, AND THAT ARE NOT COMPLETELY PROTECTED WITHIN THE RATED CONSTRUCTION. PROTECTION OF SUCH ELEMENTS SHALL MATCH THE RATING OF THE WALL THAT THE ELEMENTS ARE CONTAINED WITHIN.

F. ALL CMU CONSTRUCTION SHALL MEET FIRE RESISTANCE REQUIREMENTS INDICATED. PROVIDED BLOCK TYPE AS REQUIRED TO COMPLY WITH UL DESIGN NUMBERS AND WALL RATINGS INDICATED, REGARDLESS IF NOTED AS SUCH ON PLAN DETAILS.

Legend

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

- COMMON EGRESS PATH
- XX — NUMBER OF OCCUPANTS IN EACH SPACE, UNO
- XX'-XX" — TOTAL EGRESS DISTANCE PER PATH
- NEW FIRE EXTINGUISHER LOCATION



Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-0-006-013

Rev. No.:	Date:	Description:

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TETRA TECH
ARCHITECTS & ENGINEERS

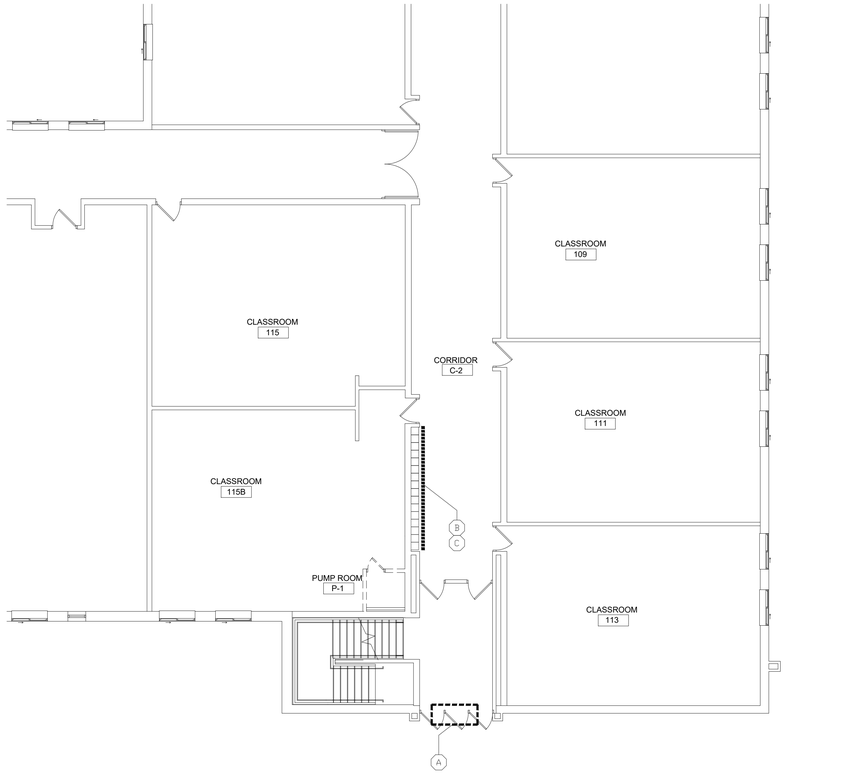
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Middle School

Code Compliance - Second Floor Key Plan

Drawn By:	Date:	Drawing Number:
TS	08/21/20	BG352

Project No.: 121111-19002



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

Legend

A PROVIDE OPENING THROUGH EXTERIOR WALL PRESUMED TO CONTAIN PRESUMED ACM INSULATION, MASTIC, VAPOR BARRIER, AND OTHER MATERIALS. COORDINATE EXACT LOCATION AND SIZE OF OPENING WITH CONTRACTOR RESPONSIBLE FOR NEW LOUVER INSTALLATION.

B REMOVE CEILING GRID TO THE EXTENT NECESSARY FROM SHEETROCK WALL WITH ACM JOINT COMPOUND

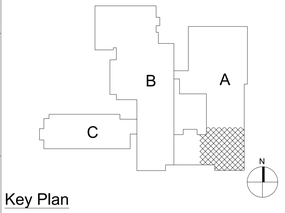
C REMOVE SHEETROCK WITH ASBESTOS CONTAINING JOINT COMPOUND IN ITS ENTIRETY LOCATED ABOVE THE LOCKERS. FRAMING AND SUPPORT SYSTEM SHALL REMAIN

Asbestos Abatement General Notes

1. CONTRACTOR PERFORMING ANY AND ALL ASBESTOS ABATEMENT WORK SHALL BE A NYSDOL LICENSED ASBESTOS CONTRACTOR.
2. PERFORM ALL WORK IN ACCORDANCE WITH SPECIFICATION SECTION 02 82 00 - ASBESTOS ABATEMENT.
3. ASBESTOS CONTAINING MATERIALS SHALL BE ABATED IN ACCORDANCE WITH THE DRAWINGS AND SECTION 02 82 00 PRIOR TO ANY GENERAL DEMOLITION WORK THAT COULD DISTURB THOSE MATERIALS.
4. DO NOT SCALE DRAWINGS.
5. COORDINATE ALL WORK WITH OTHER CONTRACTORS.
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL VARIANCES FROM INDUSTRIAL CODE RULE 56, WHICH ARE DESIRED OR NECESSARY TO PERFORM THE WORK.
7. REMOVE ALL ABATED MATERIALS FROM THE WORK AREA AND /OR BUILDING IN SEALED BAGS, DRUMS OR PLASTIC SHEETING.
8. WHERE INTERIOR ABATEMENT OCCURS, ISOLATE THE WING OR MAJOR SECTION OF THE BUILDING, FROM OCCUPIED PORTIONS OF THE BUILDING WITH SEALED ISOLATION BARRIERS CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS. THE ISOLATED PORTION OF THE BUILDING MUST CONTAIN EXITS THAT DO NOT PASS THROUGH THE OCCUPIED PORTION OF THE BUILDING AND VENTILATION SYSTEMS SHALL BE PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER.

Lead Safe Work Practices

1. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR THEIR OWN WORK WHICH WILL DISTURB LEAD PAINTED OR CONTAINING MATERIALS.
2. ALL PAINTED OR GLAZED SURFACES ARE PRESUMED TO BE LEAD CONTAINING, AND SHALL BE TREATED AS LEAD-BASED PAINT.
3. PERFORM ALL WORK THAT WILL DISTURB LBP IN ACCORDANCE WITH SECTION 02 83 00 - LEAD-SAFE WORK PRACTICES.



Key Plan

S.E.D. Control No: 48-01-01-06-0-006-013

Rev. No.:	Date:	Description:

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Mahopac Central School District
Mahopac, NY

Reconstruction to:
Mahopac Middle School

Abatement Plan

Drawn by:	Date:	Drawing No.:
TJT	8/21/20	BH100

Project No.: 121111-19002

Site Preparation/Demolition General Notes

1. THESE GENERAL SITE / PREPARATION / DEMOLITION NOTES REFER TO BC-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 RE□UEST UFPO PRIOR TO START OF ANY WORK. "DIG SAFELY NEW YORK - CALL 811 - BEFORE YOU DIG".
16. IF ALTERNATE No.1 IS NOT TAKEN, PROVIDE SURFACE DEMOLITION ONLY NECESSARY TO PROVIDE TRANSITION BACK TO EXISTING GRADE. SEE GRADING PLANS.

S.E.D. Control No. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-0-004-020
S.E.D. Control No. 48-01-01-06-0-006-013

Rev. No.:	Date:	Description:

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TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Middle School

Site Demolition Plan

Drawn by:	Date:	Drawing No.:
DFL	08/21/20	BC100

T+ Project No.: 121111-19002

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, AND NOT SPECIFICALLY SLATED TO BE REVISED, IS TO BE REMOVED AND REPLACED IN-KIND, 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 RE□UIRED TO BRING THE AREA TO MATCH SURROUNDING GRADE. FERTILIZE AND SEED OR SOD.

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 RE□UIRED 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. SEE DETAIL 13 / ZC500.
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 Preparation/Demolition Key Notes

1 EXISTING LAWN AREA TO REMAIN - REPAIR AS RE□UIRED
2 SAW CUT EXISTING ASPHALT PAVEMENT, LEAVING NEAT, SMOOTH AND STRAIGHT EDGE □TYPICAL□
3 REMOVE EXISTING ASPHALT PAVEMENT SECTION, INCLUDING AGGREGATE AND SUBBASE. REMOVE ADDITIONAL SUBBASE AS RE□UIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK.
4 REMOVE EXISTING CONCRETE CURB AND/OR SIDEWALK, INCLUDING AGGREGATE AND SUBBASE. REMOVE ADDITIONAL SUBBASE AS RE□UIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK
5 REMOVE EXISTING CHAIN LINK FENCE AND GATES.
6 EXISTING UTILITY TO REMAIN, PROTECT.
7 PROPOSED WORK UTILITY CROSSING LOCATION. HAND DIG IN VICINITY OF EXISTING BURIED UTILITIES TO AVOID DAMAGE □TYPICAL□
8 EXISTING CURB TO REMAIN, PROTECT.
9 EXISTING GUARD SHACK TO BE RELOCATED. REMOVE, PROTECT AND STORE FOR RELOCATION. SEE ARCHITECTURAL PLANS.
10 EXISTING LIGHT POLE TO REMAIN, PROTECT.
11 EXISTING ASPHALT TO REMAIN, PROTECT. □TYPICAL□
12 EXISTING CONCRETE TO REMAIN, PROTECT. □TYPICAL□
13 EXISTING VEGETATION TO REMAIN, PROTECT.
14 REMOVE EXISTING WOOD STRUCTURE AND COORDINATING E□UIPMENT.
15 REMOVE EXISTING TREE AND SHRUBS, INCLUDING STUMPS, ROOTS AND ALL ORGANIC MATTER. BACKFILL VOIDS IN SPECIFIED LIFTS. REFER TO PROJECT MANUAL - EARTH MOVING SECTION. GEOTECHNICAL ENGINEER TO BE PRESENT DURING FILL AND COMPACTION OPERATIONS. □WETLAND AREA MINIMIZE DISTURBANCE□
16 EXISTING SIGNAGE TO REMAIN, PROTECT.
17 STRIP, SCREEN, AND STOCKPILE TOPSOIL. STOCKPILE LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE. REMOVE SUBGRADE AS RE□UIRED TO MEET DESIGN GRADES AND ACCOMMODATE NEW WORK. HAND DIG IN VICINITY OF EXISTING BURIED UTILITIES TO AVOID DAMAGE □TYPICAL□
18 REMOVE EXISTING FLAG POLE. STORE FOR RE-INSTALLATION.
19 SAW CUT EXISTING CONCRETE SIDEWALK AT NEAREST JOINT, LEAVING A NEAT, SMOOTH, AND STRAIGHT EDGE □TYPICAL□
20 SAW CUT EXISTING CONCRETE CURB SECTION AT NEAREST JOINT, LEAVING A NEAT, SMOOTH, AND STRAIT EDGE □TYPICAL□
21 BASKETBALL HOOP TO REMAIN, PROTECT.
22 REMOVE EXISTING SIGNAGE, POSTS AND FOOTINGS. STORE SIGNAGE AND SUPPORT POSTS ON-SITE IN OWNER APPROVED LOCATION FOR REINSTALLATION.
23 EXISTING SCOREBOARD TO REMAIN, PROTECT.
24 EXISTING STRUCTURE TO REMAIN, PROTECT.
25 REMOVE EXISTING FLAG POLE LIGHTING. REFER TO ELECT. DRAWINGS.
26 RELOCATE STORAGE CONTAINERS TEMPORARILY MOVED DURING CONSTRUCTION. VERIFY FINAL LAYOUT WITH OWNER. □TYPICAL□
27 WETLAND DISTURBANCE AREA. PROVIDE SELECTIVE VEGETATIVE REMOVAL ONLY NECESSARY TO INSTALL DISCHARGE PIPING. DISTURBANCE NOT TO EXCEED LIMITS SHOWN ON PLAN.
28 REMOVE EXISTING TUBE STEEL SWING GATE, POSTS AND FOOTINGS, TYP.
29 REMOVE EXISTING POST AND FOOTING, TYP.

I Site Demolition Plan

1" = 30'

0 15□ 30□ 60□

SCALE: 1" □ 30□

N

SITE DEMOLITION AND PREPARATION LEGEND

	REMOVE EXISTING ASPHALT PAVEMENT SECTION AND SUBBASE AS RE□UIRED
	REMOVE EXISTING CONCRETE PAVEMENT SECTION AND SUBBASE AS RE□UIRED
XXXX	REMOVE SITE FEATURE AS INDICATED IN DEMOLITION KEYNOTES □Outline of Feature□
X	REMOVE SITE FEATURE AS INDICATED IN DEMOLITION KEYNOTES □Specific Feature□
	REMOVE LINEAR FEATURE REFER TO DRAWING'S FOR TYPE
	REMOVE EXISTING LAWN AND SOIL AS RE□UIRED
	GRUBBING / BRUSH AND TREE REMOVAL

ALTERNATE No. 1

PARTIAL REFLECTED ON THIS PLAN (Dashed Line Area):

Soil Erosion and Sediment Control meaures associated with preparation and installation of synthetic turf field, and associated improvements.
See Soil Erosion and Sediment Control General Note #15.

MAHOPAC MIDDLE SCHOOL

General Site Notes

1. REFER TO DRAWING BC100 FOR GENERAL SITE NOTES THAT APPLY TO BC-SERIES DRAWINGS.

Soil Erosion & Sediment Contol Key Notes

1. PROVIDE STABILIZED CONSTRUCTION ENTRANCE, SEE DETAIL 11 / ZC500.
2. AFTER GRADING OPERATIONS ARE COMPLETE, PROVIDE TURF REINFORCEMENT EROSION CONTROL BLANKET WHERE INDICATED AND AT ALL SLOPES 3H : 1V OR STEEPER. SEE DETAIL 16 / ZC500.
3. PROVIDE DROP-IN INLET PROTECTION, TYPICAL. SEE DETAIL 8 / ZC500.
4. PROVIDE SILT FENCE, TYPICAL. SEE DETAIL 12 / ZC500.
5. PROVIDE VEGETATION PROTECTION, TYPICAL. SEE DETAIL 15 / ZC500.
6. PROVIDE CONSTRUCTION FENCE, TYPICAL. SEE DETAIL 13 / ZC500.
7. PROVIDE INLET PROTECTION IN LAWN, TYPICAL. SEE DETAIL7 / ZC500.
8. PROVIDE STONE CHECK DAM, TYPICAL. SEE DETAIL 11 / ZC502.

SOIL EROSION AND SEDIMENT CONTROL LEGEND

SYMBOL	DESCRIPTION
	TEMPORARY CONSTRUCTION ENTRANCE
XX	TEMPORARY CONSTRUCTION FENCE
	VEGETATION PROTECTION
SF	SILT FENCE
	DROP-IN INLET PROTECTION
	INLET PROTECTION IN LAWN
	TURF REINFORCEMENT ROLLED EROSION CONTROL BLANKET
	STONE CHECK DAM (TOP OF DAM ARCH IS UP-GRADIENT IN SWALE)

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 SE□UENCE 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 E□UIVALENT AND BOUND IN ACCORDANCE WITH THE NY STANDARDS.
3. NYS DEC REGULATIONS RE□UIRE 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 E□UIVALENT 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 E□UIVALENT 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 RE□UIREMENTS 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 RE□UIREMENTS 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.
8. 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.
9. 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□
10. ALL CATCH BASIN INLETS WILL BE PROTECTED WITH A FABRIC FILTER CRUSHED STONE OR FABRIC FILTER □FILTER DETAILS APPEAR ON THE PLAN□
11. ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS RE□UIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
12. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT TRAP OR APPROVED AFTERMARKET PRODUCT IN ACCORDANCE WITH SECTION 5A OF THE NY STANDARDS.
13. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
14. 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.
15. IF ALTERNATE No.1 IS NOT TAKEN, PROVIDE SOIL EROSION AND SEDIMENT CONTROL MEASURES FOR BASE BID WORK AND WITHIN TRANSITION ZONE TO ALTERNATE AREA AS NECESSARY TO PROTECT THE SITE.

1 Site Soil Erosion and Sediment Control Plan
1" = 30'

SCALE: 1" □ 30□ (0, 15□, 30□, 60□)

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 RE□UIREMENTS.
10. DURING EXCAVATION FOR FOOTINGS, TRENCHES, ETC., WHEN DEWATERING IS RE□UIRED, 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 RE□UIRED TO MEET NEW YORK STANDARDS OR AS RE□UIRED BY SOIL CONSERVATION DISTRICT.
13. UPON OWNER APPROVAL, REMOVE TEMPORARY SOIL & EROSION CONTROL MEASURES AFTER PERMANENT MEASURES ARE IN PLACE AND FUNCTIONING EFFECTIVELY.

S.E.D. Control No. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-0-004-020
S.E.D. Control No. 48-01-01-06-0-006-013

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BID SET

TETRA TECH ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Middle School

Site Soil Erosion and Sediment Control Plan

Drawn by:	Date:	Drawing No.:
DFL	08/21/20	BC110

T+ Project No.: 121111-19002

ALTERNATE No. 1

PARTIAL REFLECTED ON THIS PLAN (Dashed Line Area):

Site Layout improvements associated with preparation and installation of synthetic turf field, and associated improvements.

See Site Layout Plan Note #7.

MAHOPAC MIDDLE SCHOOL

General Site Notes

1. REFER TO DRAWING BC100 FOR GENERAL SITE NOTES THAT APPLY TO ALL BC-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. ALTERNATE No.1 IS NOT TAKEN, PROVIDE SITE LAYOUT MEASURES FOR BASE BID WORK AND WITHIN TRANSITION ZONE TO ALTERNATE AREA AS NECESSARY TO COMPLETE THE WORK.

Site Layout Legend

	CONCRETE PAVING
	ASPHALT PAVING - HEAVY DUTY
	ASPHALT PAVING - AUTO DUTY
	CONCRETE CURB
	CONCRETE WALK
	TOPSOIL, LAWN SEEDING & MULCHING
	SYNTHETIC TURF

Site Layout Keynotes

1. SMOOTH TRANSITION FROM PROPOSED SURFACE TO ADJACENT EXISTING SURFACE, TYPICAL.
2. EXISTING ASPHALT PAVEMENT, PROTECT.
3. HEAVY DUTY ASPHALT PAVING. SEE DETAIL 2 / ZC500.
4. AUTO DUTY ASPHALT PAVING. SEE DETAIL 1 / ZC500.
5. CONCRETE SIDEWALK. SEE DETAILS 4 AND 10 / ZC500.
6. NEW CONCRETE SIDEWALK AT EXISTING CONCRETE SIDEWALK. SEE DETAIL 19 / ZC500.
7. ACCESSIBLE RAMP WITH DETECTABLE WARNING SURFACE AND DROP CURB. SEE DETAIL 18, 21 AND 22 / ZC500.
8. EXPANSION JOINT AT EXISTING SLAB. SEE DETAIL 20 / ZC500.
9. RELOCATE GUARD SHACK, WITH CONCRETE GRADE BEAMS AND RIGID INSULATION, TO LOCATION SHOWN. SEE DETAIL 8 / ZC502.
10. CONCRETE APRON AROUND EXISTING / NEW STORM INLET IN ASPHALT PAVEMENT (TYPICAL). SEE DETAIL 5 / ZC502.
11. INTEGRAL CONCRETE CURB AT SIDEWALK, SEE DETAILS 9 AND 10 / ZC500.
12. ASPHALT PAVING PATCH IN KIND OR PER AUTO DUTY PAVING SECTION, WHICHEVER IS MORE STRINGENT. SEE DETAILS 1, 2 AND 17 / ZC500.
13. 6-INCH TALL CURB TRANSITION TO GRADE. SEE DETAIL 14 / ZC500.
14. ACCESSIBLE SYMBOLS WHERE INDICATED AND PARKING STALL STRIPING, SEE DETAIL 1 / ZC503.
15. TRAFFIC STRIPING AND PARKING STALL STRIPING AS INDICATED, SEE DETAIL 1 / ZC503.
16. NEW ASPHALT PAVING AT EXISTING ASPHALT (TYPICAL). SEE DETAIL 3 / ZC500.
17. TRAFFIC ARROWS - PAINTED, SEE DETAIL 9 / ZC503.
18. CROSSWALK - PAINTED, SEE DETAIL 13 / ZC503.
19. DROP CURB AT WALK END, SEE DETAIL 22 / ZC500.
20. CONCRETE CURB AT LAWN. SEE DETAIL 14 / ZC503.
21. "NO PARKING" SIGN (TYPE "D".) AND POST IN PAVEMENT, SEE DETAILS 10 AND 11 / ZC503. IF SIGN POST IS INSTALLED OFFSET FROM CENTER OF SPACE OR AISLE, PROVIDE DIRECTIONAL ARROW AS PART OF SIGNAGE INDICATING LOCATION.
22. "ACCESSIBLE PARKING" SIGN (TYPE "E".) AND POST IN PAVEMENT, SEE DETAILS 10 AND 11 / ZC503. IF SIGN POST IS INSTALLED OFFSET FROM CENTER OF SPACE OR AISLE, PROVIDE DIRECTIONAL ARROW AS PART OF SIGNAGE INDICATING LOCATION.
23. "DO NOT ENTER" SIGN (TYPE "I".) AND POST IN LAWN, SEE DETAIL 10 AND 11 / ZC503.
24. "ONE WAY" DIRECTIONAL SIGN (TYPE "F" LEFT) AND POST IN LAWN, SEE DETAIL 10 AND 11 / ZC503.
25. SEEDED AREA - PROVIDE 6-INCHES OF AMENDED TOPSOIL, FINE GRADE, SEED, FERTILIZE AND MULCH. LEAVE NEAT SMOOTH EDGE, TYPICAL..
26. PAINTED "STUDENT LOADING ZONE - NO PARKING" AND LINE STRIPING IN YELLOW. SEE DETAIL 2 / ZC503.
27. SYNTHETIC TURF FIELD RULES SIGN MOUNTED ON OUTSIDE OF CHAIN LINK FENCE IN LOCATION SHOWN. SEE DETAIL 14 / ZC501.
28. 6-FT TALL BLACK VINYL CLAD CHAIN LINK FENCE. SEE DETAIL 7 / ZC503.
29. 8-FT TALL BLACK VINYL CLAD CHAIN LINK FENCE AT PERIMETER OF SYNTHETIC TURF FIELD. SEE DETAIL 7 / ZC503.
30. 8-FT TALL BLACK VINYL CLAD CHAIN LINK FENCE, 3-FT WIDE SINGLE GATE. SEE DETAIL 6 / ZC503.
31. 8-FT TALL BLACK VINYL CLAD CHAIN LINK FENCE, 12-FT WIDE DOUBLE GATE. SEE DETAIL 12 / ZC503.
32. SYNTHETIC TURF MULTI-USE FIELD WITH LINE STRIPING FOR SOCCER, FOOTBALL, BOY'S LACROSSE, GIRL'S LACROSSE AND FIELD HOCKEY. SEE DETAILS 9, 13, 17, 19, 20 / ZC501 AND PROJECT MANUAL SECTION 32 18 13 - SYNTHETIC TURF
33. FOOTBALL FIELD LINE STRIPING AT SYNTHETIC TURF FIELD. SEE DETAIL 13 / ZC501.
34. 180-FT BY 360-FT SOCCER FIELD LINE STRIPING AT SYNTHETIC TURF FIELD. SEE DETAIL 9 / ZC501.
35. 168-FT BY 330-FT BOYS LACROSSE FIELD LINE STRIPING AT SYNTHETIC TURF FIELD. SEE DETAIL 17 / ZC501.
36. 168-FT BY 350-FT GIRL'S LACROSSE FIELD LINE STRIPING AT SYNTHETIC TURF FIELD. SEE DETAIL 19 / ZC501.
37. 175-FT BY 300-FT FIELD HOCKEY LINE STRIPING AT SYNTHETIC TURF FIELD. SEE DETAIL 20 / ZC501.
38. FOOTBALL GOAL POST FOUNDATION AND GROUND SLEEVE. SEE SIMILAR DETAILS 15 AND 18 / ZC501. SEE COMBINATION FOOTBALL / SOCCER GOAL POST AND CLAMP, PROJECT MANUAL SECTION 11 68 33 - ATHLETIC E(UIPMENT. VERIFY THAT GOAL POST SLEEVE IS PLUMB IN ALL DIRECTIONS. GOAL POST NOT PART OF SCOPE.
39. SEGMENTAL RETAINING WALL WITH INTEGRAL 8'-HT FENCE. SEE DETAILS 5 AND 8 / ZC503, AND PROJECT MANUAL SECTION 32 32 23 - SEGMENTAL RETAINING WALL.
40. SYNTHETIC TURF CENTER LOGO AT 50-YARD LINE. SEE PROJECT MANUAL SECTION 32 18 13 - SYNTHETIC TURF SYSTEMS. SEE DETAIL 8 / ZC501.
41. FIELD ENTRANCE WAYFINDING SIGN MOUNTED ON OUTSIDE OF CHAIN LINK FENCE IN LOCATION SHOWN. SEE DETAIL 14 / ZC501.
42. 24-WIDE VEHICLE TUBULAR STEEL BARRIER DOUBLE GATE, LOCK MECHANISM AND GATE KEEPER POSTS. SEE DETAIL 10 / ZC504.
43. 6-IN DIAMETER STEEL BOLLARD WITH YELLOW BOLLARD COVER (TYPICAL). SEE DETAIL 3 / ZC503.
44. 4'X 4'PAD AT GATE AREA. SET FLUSH WITH GRADE. SEE DETAILS 4 AND 10 / ZC500.
45. "NO PARKING" SIGN (TYPE "D".) AND POST IN LAWN, SEE DETAILS 11 / ZC503.
46. PAINTED STOP BAR AND TEXT. SEE DETAIL 16 / ZC503.
47. PROVIDE FLUSH CURB AT SIDEWALK OPENING. TAPER LAST 3-FT OF CURB AT EACH END. SEE DETAIL 14 / ZC500
48. REINSTALL EXISTING FLAG POLE, TEMPORARILY REMOVED AND STORED. SEE DETAIL 19 / ZC503.
49. "ONE WAY" DIRECTIONAL SIGN (TYPE "F" RIGHT) AND POST IN LAWN, SEE DETAIL 10 AND 11 / ZC503.
50. "NO PARKING" SIGN (TYPE "D".) AND POST IN LAWN, SEE DETAIL 15 / ZC503. IF SIGN POST IS INSTALLED OFFSET FROM CENTER OF SPACE OR AISLE, PROVIDE DIRECTIONAL ARROW AS PART OF SIGNAGE INDICATING LOCATION.
51. "STOP" BAR WITH TEXT - PAINTED, SEE DETAIL 16 / ZC503.
52. "STOP" SIGN (TYPE "A".) AND POST IN LAWN, SEE DETAIL 11 / ZC503.
53. EXISTING SCORE BOARD, PROTECT.
54. SYNTHETIC TURF FIELD RULES SIGN MOUNTED ON OUTSIDE OF CHAIN LINK FENCE IN LOCATION SHOWN. SEE DETAIL 14 / ZC501.
55. FIELD WARNING SIGN MOUNTED ON OUTSIDE OF CHAIN LINK FENCE IN LOCATION ABOVE SYNTHETIC TURF FIELD RULES SIGN. SEE DETAIL 14 / ZC501.
56. NEW SITE LIGHTING. SEE ELECTRICAL PLANS.
57. AGGREGATE PAVING. VERIFY LOCATION WITH OWNER. SEE DETAIL 6 / ZC500.
58. RELOCATE STORAGE CONTAINERS TEMPORARILY MOVED DURING CONSTRUCTION. VERIFY FINAL LAYOUT WITH OWNER. (TYPICAL).
59. "ACCESSIBLE PARKING" SIGN (TYPE "E".) AND "NO PARKING" SIGN (TYPE "D".) AND COMMON POST IN PAVEMENT, SEE SIMILAR DETAILS 10 AND 11 / ZC503. TYPE "E" SIGNAGE TO BE MOUNTED ABOVE TYPE "D" SIGNAGE. FOR TYPE "D" SIGNAGE, PROVIDE DIRECTIONAL ARROW AS PART OF SIGNAGE INDICATING LOCATION.
60. REINSTALL SALVAGED AND STORED "PARKING FOR PRINCIPAL ONLY" SIGN ON POST IN LAWN, SEE SIMILAR DETAILS 11 AND 15 / ZC503.
61. REINSTALL SALVAGED AND STORED "PARKING FOR PRINCIPALS ONLY" SIGN ON POST IN PAVEMENT, SEE SIMILAR DETAILS 10 AND 11 / ZC503.
62. PROVIDE "DIRECTIONAL" SIGN .SIMILAR TO TYPE "K".) AND POST IN LAWN, TEXT / DIRECTIONAL ARROWS TO READ AS FOLLOWS: "BUSES ONLY - STUDENT LOADING ZONE" (LINES 1 & 2), "PARKING / EXIT" (LINES 3 & 4), SEE SIMILAR DETAILS 11 AND 15 / ZC503.
63. FOR NEW CONCRETE AT EXISTING RETAINING WALL, PROVIDE EXPANSION JOINT WITH SLIP-DOWELING 12" O.C., PER DETAIL 20 / ZC500.

Site Layout Plan
1" = 30'

SCALE: 1" = 30'

S.E.D. Control No. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-0-004-020
S.E.D. Control No. 48-01-01-06-0-006-013

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Middle School

Site Layout Plan

Drawn by:	Date:	Drawing No.:
DGB	08/21/20	BC120

T+ Project No.: 121111-19002

ALTERNATE No. 1

PARTIAL REFLECTED ON THIS PLAN (Dashed Line Area):

Earthwork and grading associated preparation and installation of synthetic turf field, and associated improvements. See General Grading Plan Note #16.

MAHOPAC MIDDLE SCHOOL

General Site Notes

1. REFER TO DRAWING BC100 FOR GENERAL SITE NOTES THAT APPLY TO ALL BC-SERIES DRAWINGS.

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 RE□UIREMENTS.
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 RE□UIREMENTS.
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.
15. SPOT ELEVATIONS AT MODULAR RETAINING WALLS MAY INDICATE RELATIVE ELEVATIONS. IN LOCATIONS WHERE TOP OF WALL ELEVATIONS ARE NOT INDICATED AS LEVEL, DELEGATED DESIGN SHALL ASSUME WALL WILL BE STEPPED, ALONG WITH INTEGRAL CHAIN LINK FENCE WHERE APPLICABLE.
16. IF ALTERNATE No.1 IS NOT ACCEPTED, PROVIDE RE□UIRED EARTHWORK AND GRADING TO INSTALL BASE BID WORK AS DESIGNED AND REFLECTED IN THE PLAN ELEVATIONS. TAPER GRADE BACK TO EXISTING GRADES WITHIN THE ALTERNATE AREA AT A MAXIMUM 5□ SLOPE.

ADA Site Notes

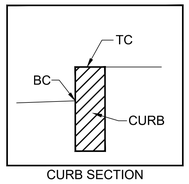
1. THE MAXIMUM SLOPE OF ACCESSIBLE PARKING STALLS AND ASSOCIATED ACCESS AISLE SHALL BE 2% (1V:50H).
2. THE MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL ON ACCESSIBLE PATHS SHALL BE 5% (1V:20H).
3. THE MAXIMUM CROSS SLOPE ON ACCESSIBLE PATHS SHALL BE 2% (1V:50H).
4. THE MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL 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. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-0-004-020
S.E.D. Control No. 48-01-01-06-0-006-013

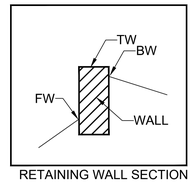
Rev. No.:	Date:	Description:

1 Site Grading Plan
1" = 30'

0 15□ 30□ 60□
SCALE: 1" □ 30□



CURB SECTION



RETAINING WALL SECTION

GRADING KEY	
TC	TOP OF CURB
BC	BOTTOM OF CURB
TW	TOP OF WALL
BW	BOTTOM / BACK OF WALL
FW	FACE OF WALL
+	SPOT ELEVATION
HP	HIGH POINT
MATCH	MATCH EXISTING GRADE

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Middle School

Site Grading Plan

Drawn by:	Date:	Drawing No.:
DFL	08/21/20	BC130

T+ Project No.:
121111-19002

ALTERNATE No. 1

PARTIAL REFLECTED ON THIS PLAN (Dashed Line Area):

Site Utility storm water, drainage, underground detention and water line meaures associated with preparation and installation of synthetic turf field, and associated improvements.

See Site Utility Plan Note #13.

MAHOPAC MIDDLE SCHOOL

DAYLIGHT INV: 654.50

207-LF 4" UD @ 0.72% SLOPE

214-LF 4" UD @ 1.17% SLOPE

DRAIN STUB INV: 656.00

DRAIN STUB INV: 654.5

DAYLIGHT @ INV: 653.50

EXISTING UTILITY MANHOLES

150x350

Storm Drainage Structure Schedule

ID	STRUCTURE TYPE		ID	STRUCTURE TYPE	
DS-B1	4' DIAMETER MANHOLE	RIM 653.25	DS-B9	30" x 30" CATCH BASIN	TOP OF GRATE 649.23
		INV.IN (12" E) 650.72			INV.IN (12" N) 646.56
		INV.OUT (12" W) 647.25	(SEE Detail 1 / ZC502)		INV.OUT (12" E) 646.56
(SEE Detail 9 / ZC502)		INV.OUT (12" N) 647.25	DS-B9.1	30" x 30" CATCH BASIN	TOP OF GRATE 649.23
DS-B2	4' DIAMETER MANHOLE	RIM 654.90	(SEE Detail 1 / ZC502)		INV.OUT (12" S) 646.73
	(Buried - Solid Cover)	INV.IN (12" E) 652.10	DS-B10	30" x 30" CATCH BASIN	TOP OF GRATE 650.30
		INV.IN (12" N) 652.10			INV .IN (12" E) 646.26
(SEE Detail 9 / ZC502)		INV.OUT (12" W) 651.00	(SEE Detail 1 / ZC502)		INV.OUT (12" W) 646.26
DS-B3	4' DIAMETER MANHOLE	RIM 651.60	DS-B11	30" x 30" CATCH BASIN	TOP OF GRATE 650.70
		INV.IN (12" W) 648.55	(SEE Detail 1 / ZC502)		INV.OUT (12" W) 647.70
(SEE Detail 9 / ZC502)		INV.OUT (15" S) 647.75	DS-B12	30" x 30" CATCH BASIN	TOP OF GRATE 653.45
DS-B4	5' DIAMETER MANHOLE	TOP OF GRATE 650.90	(SEE Detail 1 / ZC502)		INV.OUT (12" E) 649.75
		INV.IN (15" N) 646.55	DS-B13	30" x 30" CATCH BASIN	TOP OF GRATE 655.50
		INV.IN (12" SE) 647.48	(SEE Detail 1 / ZC502)		INV.OUT (8" N) 652.50
		INV.IN (15" NE) 646.04	DS-CO-B1	CLEANOUT	RIM 654.95
		INV.IN (12" NW) 647.50	(SEE Detail 8 / ZC502)	*(Buried - Solid Cover)*	INV. 653.00
(SEE Detail 9 / ZC502)		INV.OUT (18" S) 645.94	DS-CO-B2	CLEANOUT	RIM 654.75
DS-B4.1	30" x 30" CATCH BASIN	TOP OF GRATE 651.75	(SEE Detail 8 / ZC502)	*(Buried - Solid Cover)*	INV. 653.90
(SEE Detail 1 / ZC502)		INV.OUT (12" N) 648.75	DS-CO-B3	CLEANOUT	RIM 654.95
DS-B5	4' DIAMETER MANHOLE	TOP OF GRATE 649.00	(SEE Detail 8 / ZC502)	*(Buried - Solid Cover)*	INV. 653.90
		INV.IN (18" W) 645.67	DS-CO-B4	CLEANOUT	RIM 655.00
(SEE Detail 9 / ZC502)		INV.OUT (18" S) 645.02	(SEE Detail 8 / ZC502)	*(Buried - Solid Cover)*	INV. 653.00
DS-B6	4' DIAMETER MANHOLE	RIM 654.90	DS-CO-B5	CLEANOUT	RIM 652.88
	(Buried - Solid Cover)	INV.IN (12" E) 652.10	(SEE Detail 8 / ZC502)	*(Solid Cover)*	INV. 645.67
		INV.IN (12" S) 652.10	DS-OCS-B1	OUTLET CONTROL STRUCTURE	TOP OF GRATE 652.10
(SEE Detail 9 / ZC502)		INV.OUT (12" W) 651.00			RECTANGULAR WEIR 649.60
DS-B7	4' DIAMETER MANHOLE	TOP OF GRATE 653.60			INV.IN (12" E) 646.99
		INV.IN (12" N) 651.05			INV.OUT (12" N) 646.50
(SEE Detail 9 / ZC502)		INV.OUT (12" S) 647.25	(SEE Detail 3 / ZC506)		INV.OUT (12" S) 646.25
DS-B8	30" x 30" CATCH BASIN	TOP OF GRATE 650.00	DS-OCS-B2	OUTLET CONTROL STRUCTURE	TOP OF GRATE 648.00
		INV.IN (12" W) 646.36			RECTANGULAR WEIR 647.67
(SEE Detail 1 / ZC502)		INV.OUT (12" N) 646.11			V-NOTCH WEIR 647.17
DS-B8.1	30" x 30" CATCH BASIN	TOP OF GRATE 650.55			INV.IN (12" SW) 645.00
		INV.IN (12" S) 647.50			INV.IN (18" N) 645.00
(SEE Detail 9 / ZC502)		INV.OUT (12" E) 647.25			INV.OUT (12" W) 645.50
DS-B8.2	30" x 30" CATCH BASIN	TOP OF GRATE 651.00	(SEE Detail 3 / ZC506)		INV.OUT (18" E) 645.50
(SEE Detail 1 / ZC502)		INV.OUT (12" N) 648.50			

Storm Drainage Piping Schedule

ID	LENGTH	SIZE/MATERIAL				SLOPE	Description
DP-B1	31	LF	OF	12"	HDPE PIPE	1.00%	Storm Line*
DP-B1.1	89	LF	OF	12"	HDPE PIPE	1.00%	Storm Line*
DP-B1.2	54	LF	OF	12"	HDPE PIPE	1.85%	Storm Line*
DP-B2	22	LF	OF	12"	HDPE PIPE	1.00%	Storm Line*
DP-B3	69	LF	OF	18"	HDPE PIPE	0.40%	Storm Line*
DP-B4	124	LF	OF	12"	HDPE PIPE	0.97%	Storm Line*
DP-B5	122	LF	OF	12"	HDPE PIPE	1.60%	Storm Line*
DP-B6	86	LF	OF	12"	HDPE PIPE	1.45%	Storm Line*
DP-B7	43	LF	OF	15"	HDPE PIPE	0.50%	Storm Line*
DP-B7.1	60	LF	OF	12"	HDPE PIPE	0.50%	Storm Line*
DP-B7.2	34	LF	OF	12"	HDPE PIPE	0.50%	Storm Line*
DP-B8	24	LF	OF	18"	HDPE PIPE	0.50%	Storm Line*
DP-B9	114	LF	OF	18"	HDPE PIPE	0.50%	Storm Line*
DP-B10	10	LF	OF	12"	HDPE PIPE	0.50%	Storm Line*
DP-B11	187	LF	OF	12"	HDPE PIPE	0.50%	Storm Line*
DP-B12	187	LF	OF	12"	HDPE PIPE	0.50%	Storm Line*
DP-B13	95	LF	OF	12"	HDPE PIPE	1.70%	Storm Line*
DP-B14	95	LF	OF	12"	HDPE PIPE	2.50%	Storm Line*
DP-B15	33	LF	OF	12"	HDPE PIPE	10.00%	Storm Line*
DP-B16	26	LF	OF	12"	HDPE PIPE	1.00%	Storm Line*
DP-B17	95	LF	OF	12"	HDPE PIPE	1.70%	Storm Line*
DP-B18	187	LF	OF	12"	HDPE PIPE	0.50%	Storm Line*
DP-B19	187	LF	OF	12"	HDPE PIPE	0.50%	Storm Line*
DP-B20	94	LF	OF	12"	HDPE PIPE	1.70%	Storm Line*
DP-B21	109	LF	OF	12"	HDPE PIPE	1.00%	Storm Line*
DP-B22	3	LF	OF	12"	HDPE PIPE	1.00%	Storm Line*
DP-B23	97	LF	OF	12"	HDPE PIPE	1.00%	Storm Line*

* See Pipe Trench Detail 8 / ZC504 for Bedding Requirements.

I Site Utility Plan
1" = 30'

SCALE: 1" = 30'

Site Utility and Drainage Keynotes

1 PROVIDE 18-INCH GALVANIZED METAL END SECTION AND RIP-RAP APRON. SEE DETAIL 10 / ZC502. INVERT=645.35.

2 CONNECT STORM PIPING DP-B23 TO EXISTING STORM STRUCTURE AT ±ESTIMATED=INVERT 643.70±/-. VERIFY LOCATION AND DEPTH OF EXISTING STRUCTURE PRIOR TO CONSTRUCTION.

3 PROVIDE HARD CONNECTIONS FROM SYNTHETIC TURF FLAT PANEL COMPOSITE DRAIN TO 12-INCH PERFORATED HDPE STORM PIPING MANIFOLD. TYPICAL. SEE STORM DRAINAGE PIPING SCHEDULE AND DETAIL 14 / ZC502.

4 HEADWALL AND RIP-RAP LINED OUTFALL CHANNEL WITH FILTER FABRIC. SEE DETAIL 10 / ZC502.

5 PRECAST CONCRETE OUTLET CONTROL STRUCTURE. SEE DETAIL 11 / ZC502.

6 GATE VALVE. SEE DETAIL 3 / ZC504.

7 SYNTHETIC TURF FLAT PANEL STORM PIPING. SEE DETAILS 1 / ZC501 AND 14 / ZC502.

8 4-IN PERF HDPE UNDER DRAIN IN PAVEMENT ±TYPICAL± SEE DETAIL 2 / BC502.

9 4-IN PERF HDPE UNDER DRAIN IN LAWN ±TYPICAL± SEE DETAIL 4 / BC502.

10 1½" SDR-21 PVC WATER LINE. SEE DETAIL 8 / ZC504.

11 YARD HYDRANT. SEE DETAIL 4 / ZC504.

12 CONNECT TO 1½ - IN WATER LINE FROM BUILDING. SEE PLUMBING PLANS.

13 FOR SITE LIGHTING AND ELECTRICAL WORK, SEE ELECTRICAL SITE PLANS AND SPECIFICATIONS.

14 STORM CHAMBER UNDERGROUND DETENTION SYSTEM. SEE DETAIL 1 / ZC505.

15 STORM CHAMBER UNDERGROUND DETENTION SYSTEM. SEE DETAIL 2 / ZC505.

General Site Notes

1. REFER TO DRAWING BC100 FOR GENERAL SITE NOTES THAT APPLY TO ALL BC-SERIES DRAWINGS.

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.
16. IF ALTERNATE No.1 IS NOT TAKEN, PROVIDE PER SITE UTILITY AND DRAINAGE KEYNOTE □10, PORTION OF 1½" SDR-21 PVC WATER LINE FROM BUILDING, ACROSS PARKING LOT AND TO ALTERNATE LIMITS SHOWN. CAP LINE FOR FUTURE EXTENSION AND PROVIDE LOCATION MARKER AT TERMINATION. PROVIDE AS-BUILT DIMENSION TIES TO OWNER.

S.E.D. Control No. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-0-004-020
S.E.D. Control No. 48-01-01-06-0-006-013

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

TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Middle School

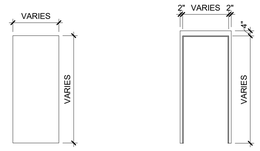
Site Utility Plan

Drawn by:	Date:	Drawing No.:
JRS	08/21/20	BC140

T+ Project No.:
121111-19002

Door Schedule

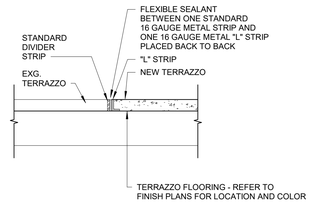
ROOM NUMBER	DOOR NUMBER	DOOR						FRAME									HDW SET	REMARKS
		TYPE	MATERIAL	WIDTH	HEIGHT	RATING	GLAZING	TYPE	MATERIAL	WIDTH	HEIGHT	RATING	GLAZING	HEAD	JAMB	SILL		
1ST FLOOR																		
P-1	1	F	WD	3' - 0"	7' - 0"	20 MIN	-	F1	HM	3' - 4"	7' - 4"	20 MIN	-	H-2	J-2		15	



F

F1

DOOR TYPES FRAME TYPES



4 New to Existing Terrazzo
3" = 1'-0"

1. FOR 4" THICK WALLS

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

2. FOR 6" THICK WALLS

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

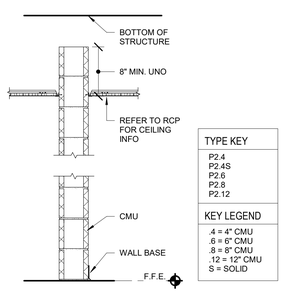
3. FOR 8", 12", AND 16" THICK WALLS:
FOR EACH 4" THICKNESS OF WALL

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

LINTEL NOTES

1. ALL OPENINGS 1'-0" AND OVER REQUIRE LINTELS.
2. STEEL TO BE A50.
3. THIS SCHEDULE IS TYPICAL FOR ALL MASONRY OPENINGS IN NON-LOAD BEARING WALLS UNLESS OTHERWISE NOTED.
4. ALL LINTELS TO HAVE MINIMUM 8" BEARING BOTH ENDS.
5. BACK TO BACK ANGLES ARE TO BE STITCH WELDED TOGETHER BEFORE PLACEMENT.
6. ALL LINTELS ARE TO HAVE BOTH ENDS BEAR ON SOLID MASONRY OR SOLIDLY GROUTED HOLLOW MASONRY.
7. WHERE MINIMUM 8" BEARING LENGTH CANNOT BE PROVIDED DUE TO COLUMN INTERFERENCE, PROVIDE CONNECTION OF LINTEL TO COLUMN.
8. THIS LINTEL SCHEDULE IS APPLICABLE FOR USE IN EXISTING BUILDING. SHORE EXISTING STRUCTURE AND WALL AS REQD FOR INSTALLATION OF NEW MAS AND LINTEL. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.

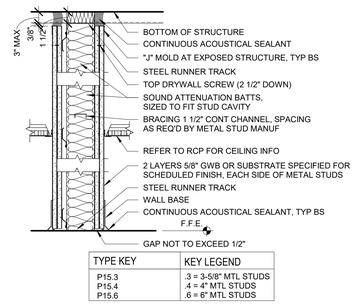
8 Lintel Schedule
12" = 1'-0"



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

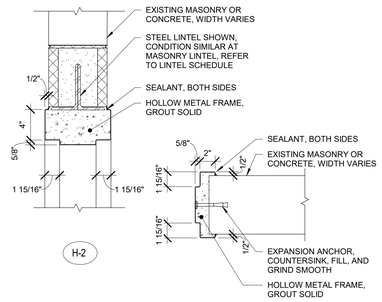
KEY LEGEND
.4 = 4" CMU
.6 = 6" CMU
.8 = 8" CMU
.12 = 12" CMU
S = SOLID

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



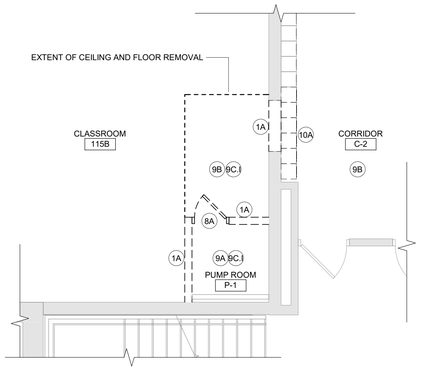
TYPE KEY	KEY LEGEND
P15.3	.3 = 3-5/8" MTL STUDS
P15.4	.4 = 4" MTL STUDS
P15.6	.6 = 6" MTL STUDS

6 Metal Stud Partition Type P15
1 1/2" = 1'-0"

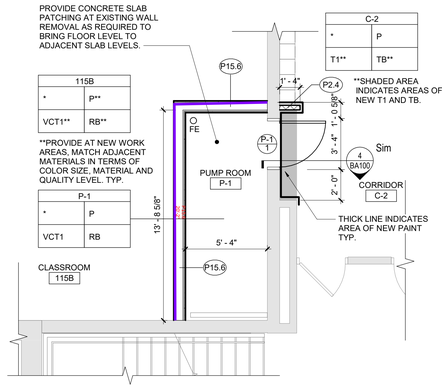


H-2 J-2

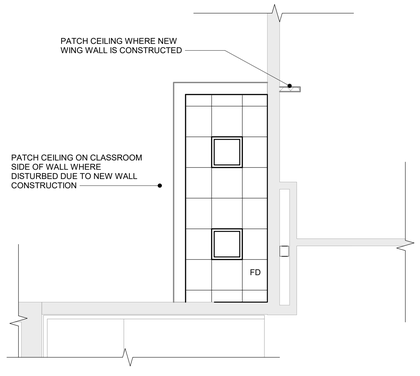
7 08 11 13_Hollow Metal Frame Details
1 1/2" = 1'-0"



1 First Floor Demolition Plan
1/4" = 1'-0"



2 First Floor Plan
1/4" = 1'-0"



3 First Floor Reflected Ceiling Plan
1/4" = 1'-0"

Demolition Key Notes

1A REMOVE INTERIOR PARTITION FULL-HEIGHT, PORTION AS INDICATED OR AS REQUIRED TO PERFORM SCHEDULED WORK. [EXISTING STRUCTURE TO REMAIN.]

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

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

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

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

SUFFIX KEY (FLOOR FINISH IDENTIFICATIONS):
A. CARPET.
B. CERAMIC FLOOR TILE.
C. CONCRETE (NATURAL OR SEALED OR STAINED OR PAINTED).
D. LINOLEUM, SHEET OR TILE.
E. PORCELAIN TILE.
F. POURED EPOXY.
G. RUBBER FLOORING.
H. TERRAZZO.
I. VAT/VCT.
J. VINYL, SHEET.
K. WOOD FLOORING.

10A REMOVE LOCKERS AND LOCKER BASE COMPLETELY. PATCH EXPOSED SURFACES TO MATCH ADJACENT FINISHES / SURFACES TO EXTENT REQUIRED TO PERFORM SCHEDULED WORK.

General Ceiling Notes

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

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

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

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

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

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

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

Ceiling Types

A1 X'-X" ACOUSTIC PANEL CEILING

STRUCTURAL LOADS

A. LIVE LOADS

OCCUPANCY OR USE	UNIFORM	IBC 1607 CONCENTRATED
PUMP ROOM (LIGHT MFR)	125 PSF	2000 LBS

REDUCTION IN LIVE LOADS: AS PERMITTED PER BUILDING CODE OF IBC 1607.10

B. ROOF LOADS

	IBC 1607.12
MINIMUM ROOF LIVE LOAD	20 PSF
RAIN LOAD: RAIN INTENSITY	2.75 INCH/HR

RAIN SURCHARGE LOAD HAS BEEN APPLIED TO AREAS WHERE PONDING OCCURS IN ACCORDANCE WITH IBC SECTION 1611.

C. SNOW LOADS

	IBC 1608
GROUND SNOW LOAD, Pg (NYS SUPP. FIG. 1608.2)	30 PSF
FLAT ROOF SNOW LOAD, Pf (ASCE-7)	23 PSF
SNOW EXPOSURE FACTOR, Ce	1.0
THERMAL FACTOR, Ct	1.0
SNOW LOAD IMPORTANCE FACTOR, Is	1.1

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

D. WIND LOAD DESIGN CRITERIA

	IBC 1609
BASIC WIND SPEED (3 SECOND GUST), Vult	120 MPH
NOMINAL DESIGN WIND SPEED, Vasd (TABLE 1609.3.1)	92.95 MPH
RISK CATEGORY (TABLE 1604.5)	III
EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT, GCPI	+/- 0.18

E. SEISMIC DESIGN CRITERIA

	IBC 1613
RISK CATEGORY	III
SEISMIC IMPORTANCE FACTOR Ie	1.25
MAPPED SPECTRAL RESPONSE ACCELERATION	
AT SHORT PERIODS, Ss	23.3%g
AT 1 SECOND PERIOD, S1	6.9%g
SITE CLASS	D
DESIGN SPECTRAL RESPONSE ACCELERATION	
AT SHORT PERIODS, SDS	24.9%g
AT 1 SECOND PERIOD, SD1	11.0%g
SEISMIC DESIGN CATEGORY	B

General Demolition Notes

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

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

1. DEMOLITION TAGS LOCATED WITHIN THE MIDDLE OF A SPACE REFER TO DEMOLITION OF ALL ITEMS OF THAT SAME TYPE WITHIN THAT ENTIRE SPACE.
2. DEMOLITION TAGS PLACED IMMEDIATELY ON OR ADJACENT TO A DASHED LINE INDICATING ITEM REMOVAL OR THAT HAVE A LEADER POINTING TO SPECIFIC ITEM(S) REFER TO DEMOLITION OF THAT SPECIFIC ITEM ONLY OF THAT TYPE WITHIN THAT SPACE.
3. DEMOLITION TAGS IN SERIES REFER TO DEMOLITION OF ALL THOSE ITEMS EITHER WITHIN THAT ENTIRE SPACE OR TO THE SPACE IDENTIFIED BY THAT LEADER.

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

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

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

General Plan Notes

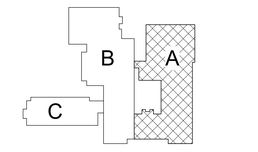
A. WHERE EXISTING CONSTRUCTION IS DAMAGED OR DISTURBED, PATCH AS REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION.

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

C. INFILL AREAS OF RECESSED FLOOR MAT AND/OR FINISH REMOVALS WITH REPAIR MATERIAL. PROVIDE SUBSTRATE LEVEL AS REQUIRED SO SCHEDULED FINISHED FLOOR WILL MATCH THAT OF EXISTING ADJACENT AREAS.

D. PROVIDE BRACING WITHIN CHASES AS FOLLOWS:

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



Key Plan
N.T.S.

N

S.E.D. Control No. 48-01-01-06-0-006-013

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

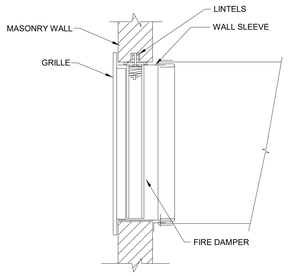
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Middle School

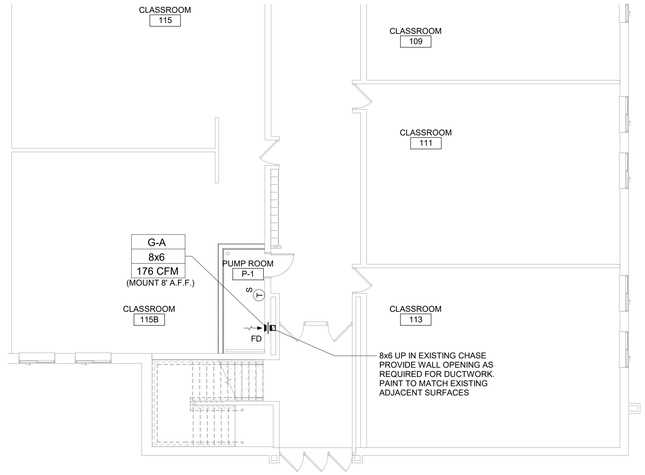
Demolition, Construction and Reflected Ceiling Plans

Drawn By:	Date:	Drawing Number:
TS	08/21/20	BA100

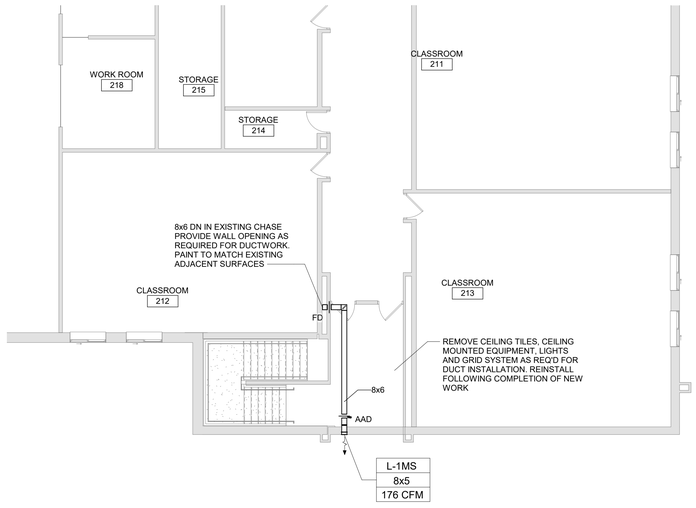
Project No.: 121111-19002



3 Fire Damper Detail
NTS



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



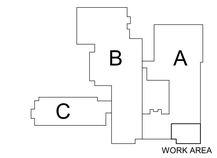
2 Partial Second Floor Plan
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO ALL CONTRACT DOCUMENTS; DRAWINGS AND SPECIFICATIONS, FOR DETAILED STANDARDS AND REQUIREMENTS.
2. REPORT UNSAFE OR UNSATISFACTORY CONDITIONS IN WRITING TO OWNER AND ENGINEER AND RESOLVE ISSUES BEFORE PROCEEDING.
3. WORK INCLUDES ALL LABOR AND MATERIALS REQUIRED TO PROVIDE COMPLETE WORKING SYSTEMS.
4. COORDINATE PHASING REQUIREMENTS AT JOB MEETINGS AND ON WORK SCHEDULES.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. ALL EXCESS MATERIALS AND SCRAPS ARE CONTRACTOR'S PROPERTY. PROMPTLY REMOVE FROM SITE UNLESS SPECIFICALLY DIRECTED OTHERWISE.
12. EXISTING HVAC COMPONENTS IN THIS BUILDING MAY CONTAIN, BE IN PROXIMITY TO, OR, WORK ON THEM MAY CAUSE DISTURBANCE OF, ASBESTOS CONTAINING OR OTHER HAZARDOUS MATERIALS. REFER TO ABATEMENT SERIES DRAWINGS AND SPECIFICATIONS COMPLETE FOR ADDITIONAL INFORMATION. PROVIDE FOR RE-INSULATION AS SPECIFIED FOR ALL EXISTING TO REMAIN HVAC COMPONENTS WHERE INSULATION IS REMOVED AS A PART OF ABATEMENT WORK.
13. 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.
14. LOUVER L-1MS SHALL BE RUSKIN BV100, EXTRUDED ALUMINUM BRICK VENT, NOM. 8.125" X 7.75", OR ENGINEER APPROVED EQUAL.

SEQUENCE OF OPERATION

1. WHEN THE SPACE TEMPERATURE RISES TO 80 DEG. F., OPEN THE AUTOMATIC DAMPER.
2. PROVIDE ALARMS AS FOLLOWS
   - HIGH SPACE TEMPERATURE (90 DEG F.) ADJ.
   - PUMP FAILURE, CONTACT CLOSURE.



Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-0-006-013

Rev. No.:	Date:	Description:

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TETRA TECH
ARCHITECTS & ENGINEERS

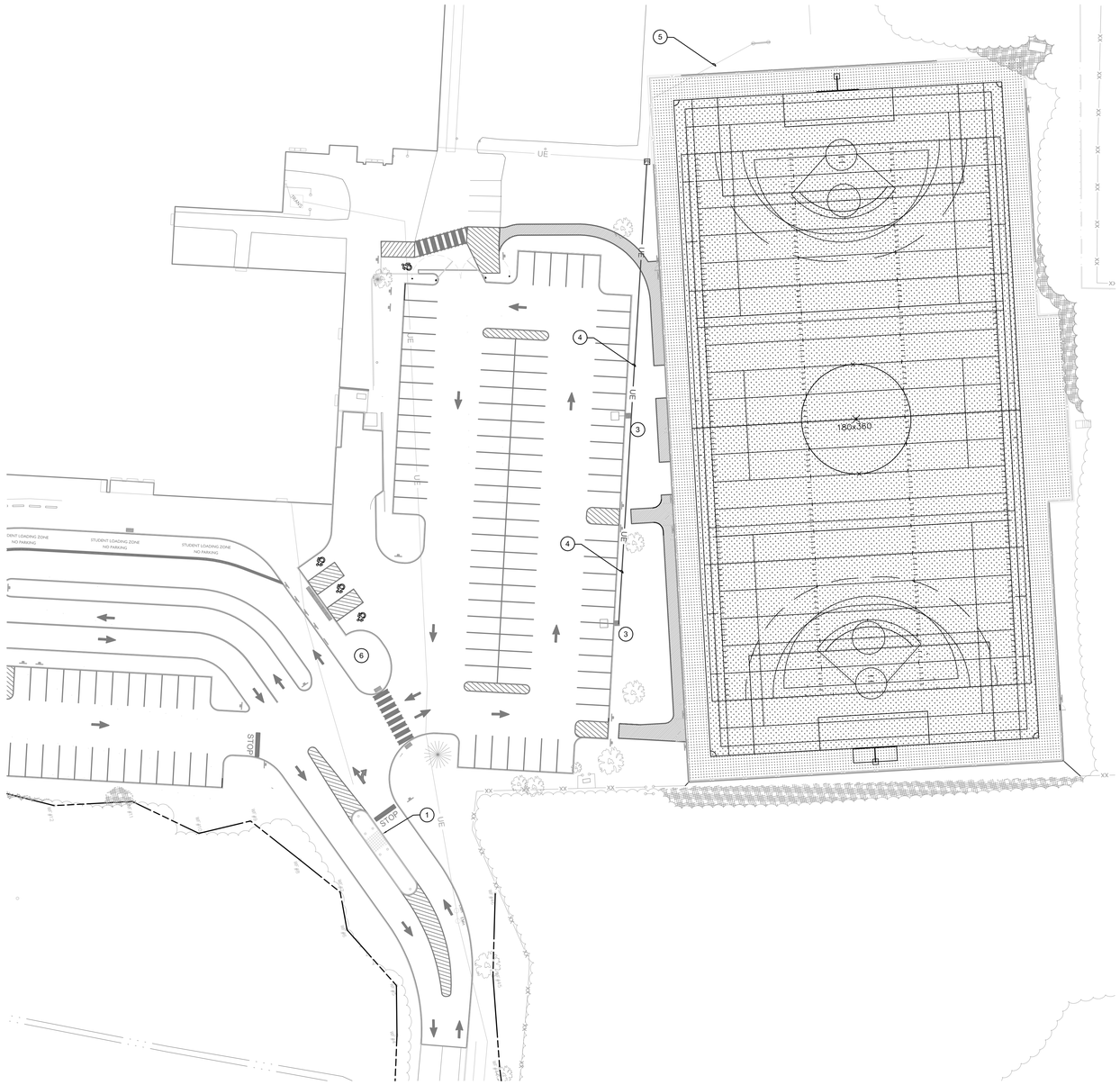
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Middle School

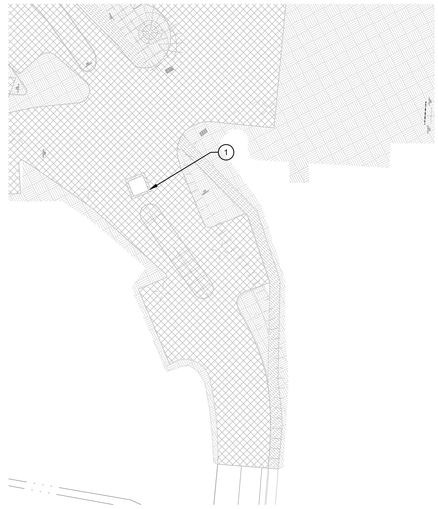
Pump Room Ventilation Plan

Drawn By:	Date:	Drawing Number:
TTAE	08/21/20	BM050

Project No.:
121111-19002



2 Electrical Layout Plan
1" = 30'

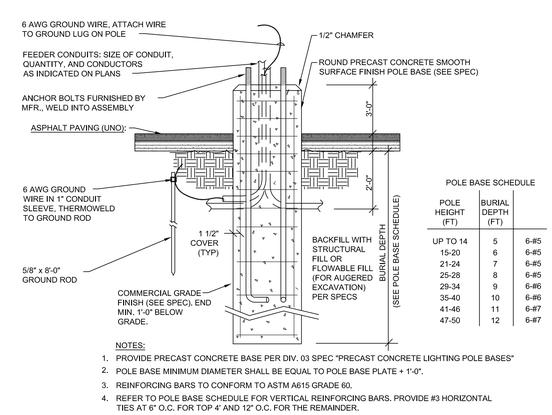


I Electrical Demolition Plan
1" = 30'

0 15' 30' 60'
SCALE: 1" = 30'

Keyed Notes:

1. DISCONNECT CIRCUITRY TO GUARD SHACK. MAINTAIN CIRCUITRY TO EXTEND/MODIFY TO RELOCATION.
2. EXTEND/MODIFY CIRCUITRY TO GUARD SHACK TO ACCOMMODATE NEW LOCATION.
3. PROVIDE ROUND POLE AT 20'-0" AFG WITH LUMINAIRE BASED ON MODEL SIGNIFY GARDCO PUREFORM P26-48L-NW-GR-3-4K AND STANDARD WEATHER PROOF DUPLEX RECEPTACLE. CONNECT RECEPTACLES WITH (2)#12, (1) #12G IN 1/2" CONDUIT.
4. CIRCUIT (2)#10, (1)#10G IN 3/4" CONDUIT AND CONNECT TO PANEL L-1B IN ELECTRIC ROOM 145 CONTROL BY PHOTOCELL.
5. BY ALTERNATE NO 1; RELOCATE UNDERGROUND ELECTRIC TO SCOREBOARD FOR SPORTSFIELD RENOVATION.
6. PROVIDE FLAGPOLE LIGHT BASED ON MODEL TARGETTI KEPLERO ZOOM MODEL NUMBER KPL-41-ZM-L-2-40. CONNECT TO CIRCUIT AND LIGHTING CONTROL PREVIOUSLY SERVING EXSITING FLAG POLE LIGHT.

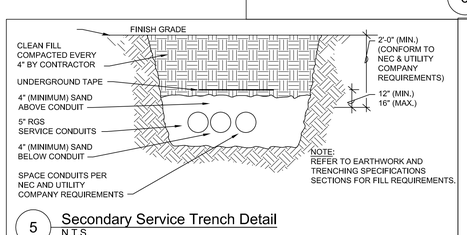


POLE BASE SCHEDULE

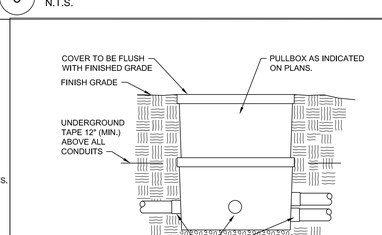
POLE HEIGHT (FT)	BURIAL DEPTH (FT)	
UP TO 14	5	6-#5
15-20	6	6-#5
21-24	7	6-#5
25-28	8	6-#5
29-34	9	6-#6
35-40	10	6-#6
41-46	11	6-#7
47-50	12	6-#7

NOTES:
1. PROVIDE PRECAST CONCRETE BASE PER DIV. 03 SPEC "PRECAST CONCRETE LIGHTING POLE BASES"
2. POLE BASE MINIMUM DIAMETER SHALL BE EQUAL TO POLE BASE PLATE + 1'-0".
3. REINFORCING BARS TO CONFORM TO ASTM A615 GRADE 60.
4. REFER TO POLE BASE SCHEDULE FOR VERTICAL REINFORCING BARS. PROVIDE #3 HORIZONTAL TIES AT 6" O.C. FOR TOP 4' AND 12" O.C. FOR THE REMAINDER.

3 Typical Pole Base Detail - Paved Areas
N.T.S.



5 Secondary Service Trench Detail
N.T.S.



4 Typical Buried Pull Box Detail
No Scale

S.E.D. Control No. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-0-004-020
S.E.D. Control No. 48-01-01-06-0-006-013

Rev. No.:	Date:	Description:

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

TETRA TECH
ARCHITECTS & ENGINEERS

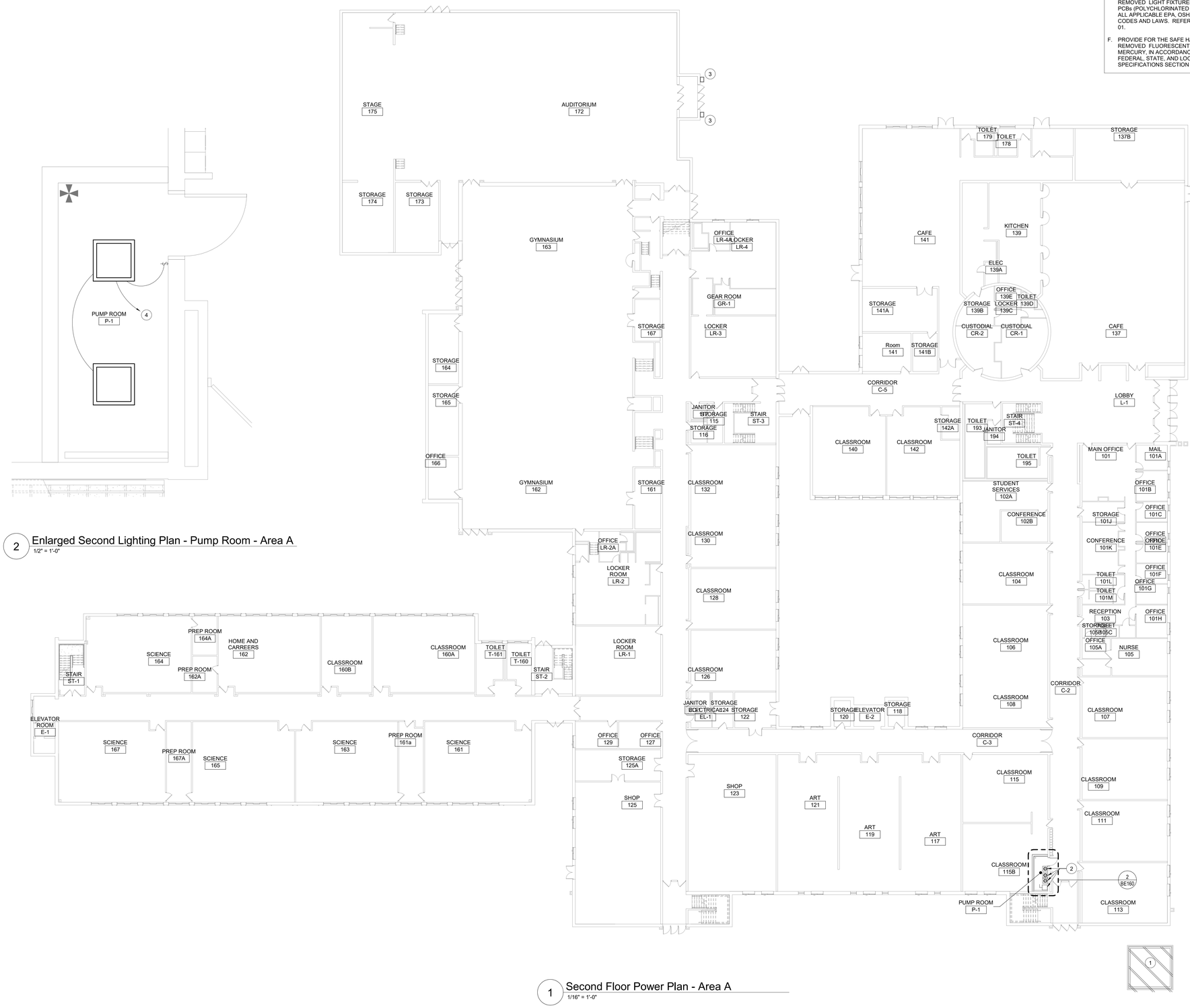
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Middle School

Electrical Site Demolition and Layout Plan

Drawn by:	Date:	Drawing No.:
CR	08/21/20	BE001

T+ Project No.:
121111-19002



2 Enlarged Second Lighting Plan - Pump Room - Area A
1/2" = 1'-0"

1 Second Floor Power Plan - Area A
1/16" = 1'-0"

Demolition Work General Notes

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

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

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

D. REFER TO SPECIFICATIONS SECTION 26 05 00 FOR DEMOLITION REQUIREMENTS.

E. PROVIDE FOR THE SAFE HANDLING AND DISPOSAL OF ALL REMOVED LIGHT FIXTURES AND BALLASTS THAT MAY CONTAIN PCBs (POLYCHLORINATED BIPHENYLS), IN ACCORDANCE WITH ALL APPLICABLE EPA, OSHA, FEDERAL, STATE, AND LOCAL CODES AND LAWS. REFER TO SPECIFICATIONS SECTION 26 05 01.

F. PROVIDE FOR THE SAFE HANDLING AND DISPOSAL OF ALL REMOVED FLUORESCENT LIGHT TUBES THAT MAY CONTAIN MERCURY, IN ACCORDANCE WITH ALL APPLICABLE EPA, OSHA, FEDERAL, STATE, AND LOCAL CODES AND LAWS. REFER TO SPECIFICATIONS SECTION 26 05 01.

General Notes

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

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

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

D. CIRCUIT WIRING FOR ALL LIGHTING CIRCUITS SHALL BE IN 1/2" EMT CONDUIT (MIN) OR TYPE MC CABLE CONCEALED ABOVE CEILINGS AND IN WALLS (REFER TO SPECIFICATION SECTION 26 05 33 FOR LOCATIONS WHERE MC CABLE IS ACCEPTABLE). ALL CIRCUIT CONDUCTORS SHALL BE #12AWG COPPER (MIN) 90° C THHN THERMOPLASTIC INSULATION.

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

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

G. UNLESS NOTED ELSEWHERE ON THE CONTRACT DOCUMENTS, THE FOLLOWING LIST REPRESENTS THE TYPICAL MOUNTING HEIGHTS FOR THE DEVICES SHOWN:
a. SWITCHES AND PANIC STATIONS.....48" (TO TOP)
b. RECEPTACLES.....16"
c. COMPUTER RECEPTACLES.....16"
d. WALL (W) TELEPHONE AND/OR CALL SWITCHES....48" (TO TOP)
e. TELEPHONE OUTLETS (UNLABELED).....16"
f. VOLUME CONTROLS.....48" (TO TOP)
g. TELEVISION OUTLETS.....16"
h. FIRE ALARM PULL STATIONS.....48" (TO TOP)
i. FIRE ALARM AUDIO VISUAL UNITS.....88"
*(OR 6" BELOW CEILING, WHICHEVER IS LOWER)
j. POWER PANELS.....72" (TO TOP)
k. DISCONNECT SWITCHES.....60" (TO TOP)
l. MOTOR STARTERS.....60" (TO TOP)

THE HEIGHTS INDICATED SHALL BE NOMINAL TO THE BOTTOM OF THE BOX UNLESS NOTED OTHERWISE.

H. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.

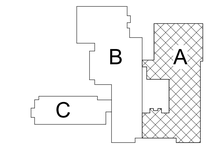
I. WIRE EMERGENCY BATTERY PACKS TO UNSWITCHED LIGHTING CIRCUIT SUPPLYING SPACE SERVED BY EMERGENCY BATTERY PACK.

J. WIRE EXIT LIGHTS TO EXISTING EXIT LIGHT CIRCUITS.

K. ALL CIRCUIT BREAKERS ADDED TO EXISTING PANELBOARDS SHALL BE LISTED/LABELED FOR USE WITH EXISTING PANELBOARDS.

Keyed Notes

1. DISCONNECT PUMPS, CONTROL PANELS, ELECTRIC HEAT, AND LIGHTING. COORDINATE ALL WORK WITH PLUMBING CONTRACTOR.
2. CONNECT (2) 3 HP 208V 3PHASE PUMPS, DISCONNECT AND CONTROL PANEL TO CIRCUIT PREVIOUSLY SERVING THE PUMP HOUSE IN PANEL-E, SWITCH GEAR ROOM B-121. COORDINATE ALL WORK WITH PLUMBING CONTRACTOR.
3. REMOVE EXISTING LUMNAIRES, RETAIN CIRCUITRY. PROVIDE EXTERIOR LUMINAIRE BASED ON MODEL LIGMAN LTR-31712-54W-T4-W40. CIRCUIT WITH (2)#12, (1)#12G IN 1/2" CONDUIT. MOUNT AT 7'-6" FROM BOTTOM OF LUMINAIRE AFG. MATCH TO CONTROL TO EXISTING EXTERIOR LIGHTING CONTROL SYSTEM.
4. REMOVE EXISTING LUMINAIRE (TURN OVER TO OWNER), RETAIN CIRCUITRY. PROVIDE LUMINAIRES BASED ON MODEL SIGNIFY 2FXP-38L-835-2-DS-UNV. CIRCUIT TO NEAREST LIGHTING CIRCUIT WITH (2)#12, (1)#12G IN 1/2" CONDUIT.



Key Plan
N.T.S.

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S.E.D. Control No. 48-01-01-06-0-006-013

Rev. No.:	Date:	Description:

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

TETRA TECH
ARCHITECTS & ENGINEERS

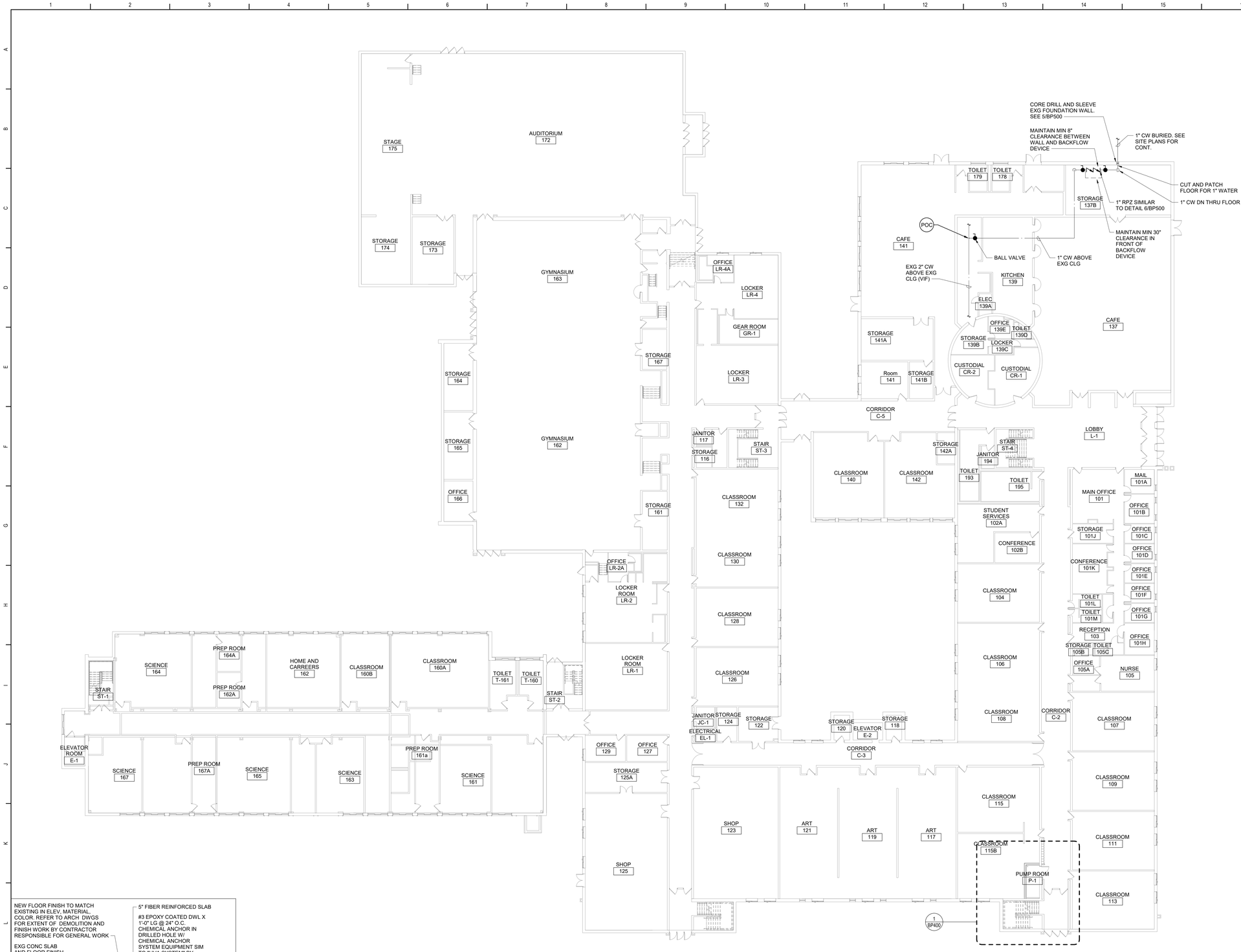
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Middle School

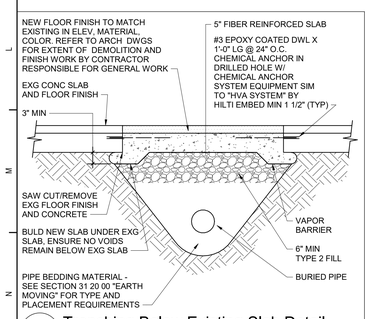
Second Floor Power Plan

Drawn By:	Date:	Drawing Number:
CR	08/21/20	BE160

Project No.:
121111-19002



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



2 Trenching Below Existing Slab Detail
NTS

General Notes

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

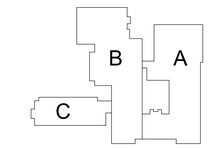
B. VERIFY IN FIELD INVERT AND DIRECTION OF FLOW IN EXISTING SOIL PIPE WHERE NEW SOIL PIPE IS TO BE CONNECTED TO EXISTING SOIL PIPE.

C. LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS.

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

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

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



Key Plan
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S.E.D. Control No. 48-01-01-06-0-006-013

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Middle School

Second Floor Key Plan and Details

Drawn By:	Date:	Drawing Number:
DCG/ sef	08/21/20	BP050

Project No.:
121111-19002

WELL ABANDONMENT NOTES

LOCAL AND REGIONAL REGULATIONS

PRIOR TO CONDUCTING WELL DECOMMISSIONING, MUNICIPAL AUTHORITIES SHOULD BE CONTACTED TO DETERMINE IF THERE ARE LOCAL REGULATIONS REGARDING THIS ACTIVITY.

WRITTEN RECORDS

PROVIDE COMPLETE AND ACCURATE WRITTEN RECORDS OF DECOMMISSIONING OPERATIONS. THE INFORMATION TO BE RECORDED TO INCLUDE THE ORIGINAL WELL LOG AND/OR CONSTRUCTION RECORD, THE TYPE OF GROUTING MATERIAL USED, VOLUME OF MATERIAL USED, AND METHOD OF PLACING GROUTING MATERIAL INTO THE WELL. UPON DECOMMISSIONING THE WELL, THE RECORD OF SUCH ACTION TO BE TURNED OVER TO THE OWNER. OWNER WILL SEND TO THE BUREAU OF WATER RESOURCE MANAGEMENT, 625 BROADWAY, ALBANY, NY, 12233-3508.

REMOVAL OF OBSTRUCTIONS

REMOVE EQUIPMENT, MATERIALS, DEBRIS, AND OBSTRUCTIONS THAT MAY INTERFERE WITH SEALING OF THE WELL OR BORING. THIS MAY INCLUDE PUMPING EQUIPMENT, DROP PIPE, PACKERS, ETC. VERIFY IN FIELD EXACT WELL EQUIPMENT INCLUDING SCREENS, PUMPS, PIPING, TORX ARRESTORS, WIRING ETC.

DISINFECTION

DISINFECT WELL USING A SOLUTION OF CALCIUM HYPOCHLORITE, SUCH AS HTH, CONTAINING APPROXIMATELY 65% TO 75% AVAILABLE CHLORINE.

CASING

VERIFY THE DEPTH OF THE WELL. CASING WITH AN OPEN ANNULAR SPACE SHOULD BE EITHER GROUTED IN PLACE OR REMOVED. FOR BIDDING PURPOSES, WELL CASING IS ESTIMATED TO BE 6" DIAMETER AND GOES INTO THE GROUND 150 FEET.
WHERE CASING IS GROUTED IN PLACE, CASING SHOULD BE CUT OFF AND CAPPED NOT LESS THAN 5 FEET BELOW FINISHED GRADE, WHERE PRACTICABLE. FOR WELLS LOCATED IN A BUILDING, UPON COMPLETION OF GROUTING THE CASING SHOULD BE FILLED TO FLOOR LEVEL WITH NO LESS THAN 12 INCHES OF CEMENT. CASING SHOULD BE CUT OFF NOT MORE THAN 3 INCHES FROM FLOOR LEVEL. AFTER THE GROUT HAS CONSOLIDATED, THE TOP OF THE CASING TO BE CLOSED AND SEALED. STEEL CASINGS TO BE SEALED WITH A WELDED STEEL PLATE.

GROUTING OF THE WELL

THE ENTIRE CASING, INCLUDING RISER ANNULAR SPACES BETWEEN CASINGS TO BE FILLED WITH EITHER CEMENT SLURRIES OR BENTONITE.

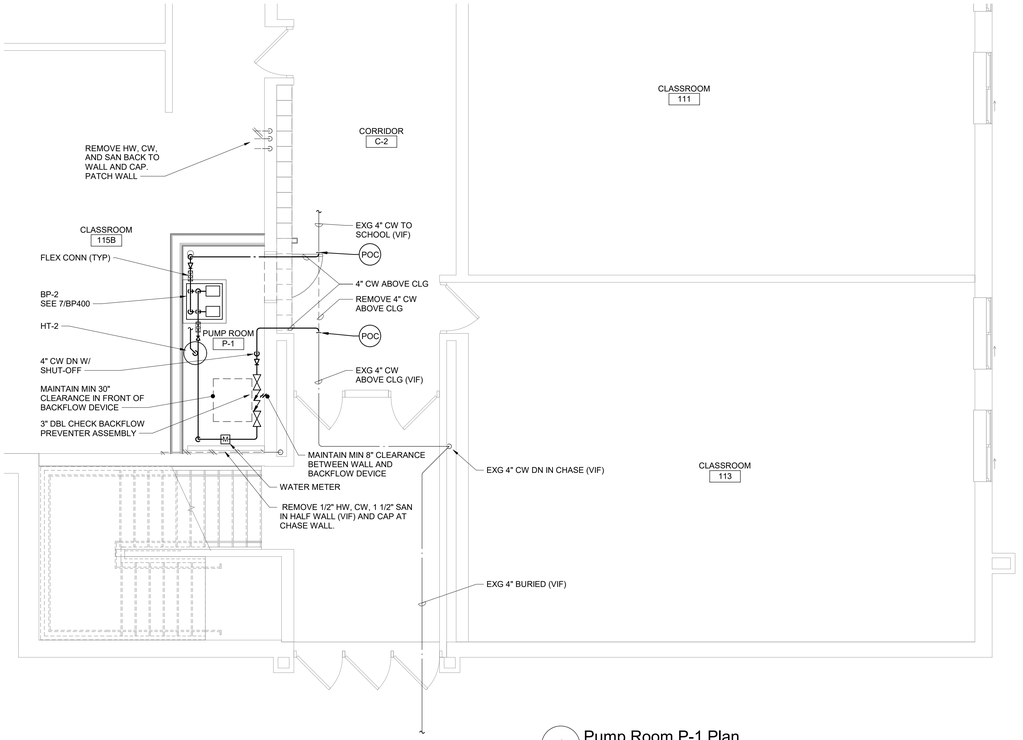
SLURRY MIXTURE AND PUMPING - WHEN A BENTONITE SLURRY, NEAT CEMENT SLURRY OR CONCRETE SLURRY IS USED, IT SHOULD BE PLACED INTO THE WELL UNDER PRESSURE VIA A TREMIE PIPE OF AT LEAST ONE INCH INSIDE DIAMETER. AT THE START OF OPERATIONS, THE TREMIE PIPE IS PLACED AT THE BOTTOM OF THE WELL TO AVOID SEGREGATION OR DILUTION OF SEALING MATERIALS. THE TREMIE PIPE TO BE SUBMERGED IN THE SLURRY AT ALL TIMES DURING SLURRY PLACEMENT. THE TREMIE PIPE MAY BE RAISED SLOWLY AS GROUT IS INTRODUCED TO THE CASING OR HOLE. PLACING OF GROUT TO BE CONTINUOUS UNTIL GROUT APPEARS AT THE TOP OF THE CASING, AT WHICH TIME THE TREMIE PIPE MAY BE REMOVED. IF THE TREMIE PIPE REMAINS AT THE BOTTOM OF THE WELL DURING GROUT EMPLACEMENT, REMOVE THE PIPE PRIOR TO GROUT HARDENING.

CEMENT SLURRIES - NEAT CEMENT OR CONCRETE SLURRIES SHOULD BE PREPARED BY ADDING CEMENT OR SAND-AND-CEMENT TO THE CALCULATED REQUIRED VOLUME OF CLEAN WATER. THE MATERIAL TO BE ADEQUATELY MIXED UNTIL IT IS FREE OF LUMPS, THEN IMMEDIATELY PUMPED INTO THE WELL WITHOUT DELAY.

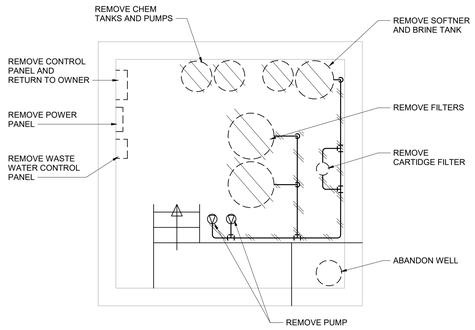
COARSE GRADE OR PELLETIZED BENTONITE - WHERE COARSE GRADE OR PELLETIZED BENTONITE IS USED, IT IS TO BE POURED SLOWLY INTO THE TOP OF THE WELL TO AVOID BRIDGING OF MATERIAL IN THE CASING OR BOREHOLE. PELLETS OR COARSE BENTONITE TO BE PLACED INTO THE WELL BY POURING AT AN EVEN RATE NOT TO EXCEED FIFTY POUNDS PER FIVE MINUTE INTERVAL. FINE BENTONITE PARTICLES WHICH ACCUMULATE IN THE BOTTOM OF THE SHIPPING CONTAINER ARE NOT BE USED. A WORK PIPE OR WEIGHTED DROP STRING TO BE PLACED IN THE WELL AND THE HEIGHT OF ACCUMULATED PLUGGING MATERIAL MEASURED AFTER EACH 50 POUNDS OF BENTONITE IS PLACED IN THE WELL. IF MEASUREMENT INDICATES THAT BRIDGING OF PLUGGING MATERIAL HAS OCCURRED, A WORK PIPE, DRILL RODS, OR OTHER WEIGHTED DEVICE TO BE RUN INTO THE CASING TO BREAK THE BRIDGE. THE PLUGGING OPERATION TO CONTINUE UNTIL THE BENTONITE APPEARS AT THE SURFACE. WATER IS THEN BE PLACED INTO THE CASING TO PROMOTE EXPANSION OF THE BENTONITE ABOVE THE STATIC WATER LEVEL.

ADDITIONAL SEALING RECOMMENDATIONS FOR WELLS OR BORINGS IN UNCONSOLIDATED MATERIALS.

IT IS RECOMMENDED THAT THE PORTION OF A WELL ADJACENT TO UNCONSOLIDATED MATERIAL BE FILLED WITH BENTONITE GROUT, HIGH SOLIDS BENTONITE GROUT, OR NEAT CEMENT GROUT. CONCRETE GROUT IS MOST APPROPRIATE FOR GROUTING IN THE DRY PORTION OF THE HOLE.



1 Pump Room P-1 Plan
1/4" = 1'-0"



8 Pump House Demolition Plan
1/4" = 1'-0"

Domestic Water Booster Pump Schedule

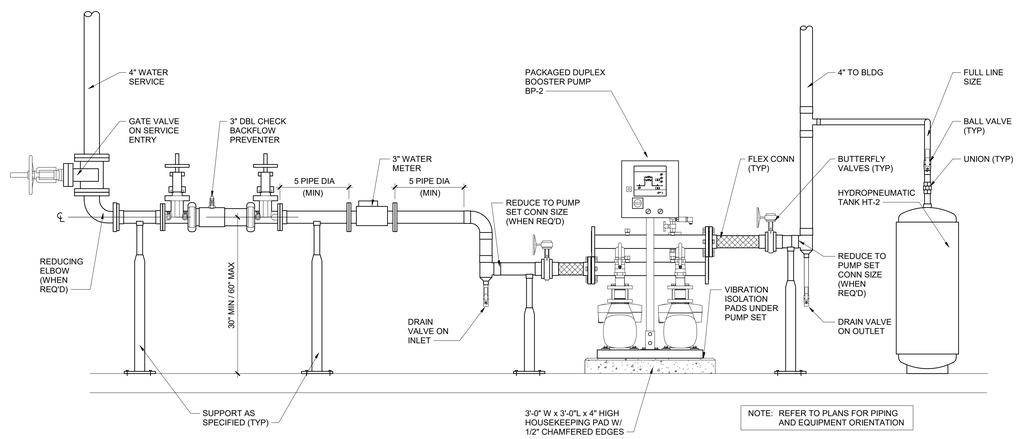
DWG LABEL	LOCATION	DESIGN MAKE AND MODEL	TOTAL CAPACITY	TOTAL DYNAMIC HEAD	MAX CONT OPERATING TEMP	INLET / OUTLET SIZE	RPM	HORSE POWER	FULL LOAD AMPS	VOLTAGE	PHASE	HERTZ	NOTES
			GPM	FEET	°F	NPS							
BP-2	PUMP ROOM P-1	GRUNDFOS HYDRO MULTI-B/E 2 CME10-2	100	110	104	2.5	3450	3	16.6	208	3	60	1, 2

NOTES:
1. PACKAGED DUPLEX BOOSTER PUMP SYSTEM WITH VARIABLE FREQUENCY DRIVES AND DUPLEX CONTROL PANEL MOUNTED ON A SKID.
2. EACH PUMP SIZED FOR 75% OF TOTAL SYSTEM CAPACITY.

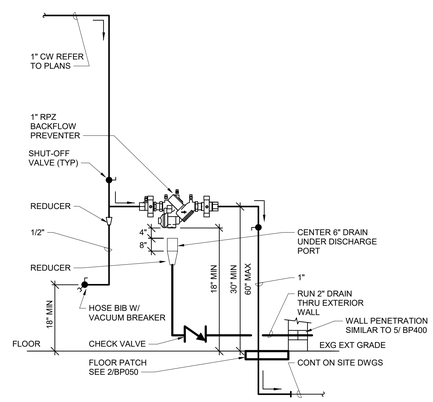
Hydropneumatic Tank Schedule

DRAWING LABEL	LOCATION	MAKE AND MODEL NUMBER	TOTAL STORAGE CAPACITY (GALLONS)	MAXIMUM ACCEPTANCE VOLUME - GALLONS	WATER SERVICE PRESSURE (PSI)	MAXIMUM ALLOWABLE PRESSURE (PSI)	DIAMETER (INCHES)	HEIGHT (INCHES)	CONNECTION (NPT)	NOTES
HT-2	PUMP ROOM P-1	JOHN WOOD NO. JAPR 20-602	15	39.7	60	150	12	33 1/2	1	1, 2

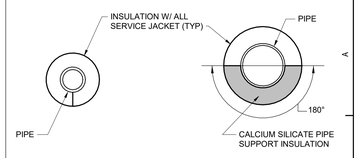
NOTES:
1. REPLACEABLE BUTYL BLADDER (FDA APPROVED).
2. ASME CONSTRUCTION.

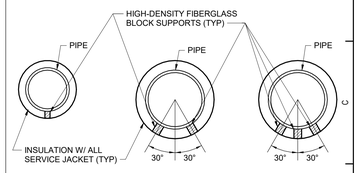


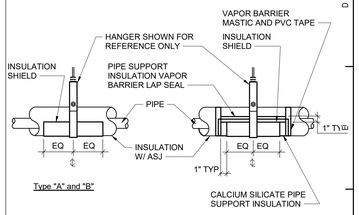
7 Duplex Booster Pump System Schematic
NTS



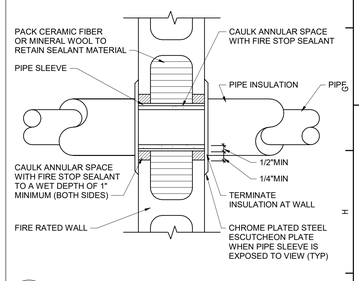
6 Yard Hydrant Backflow Preventer Detail
NTS



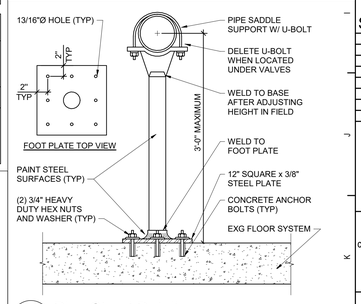




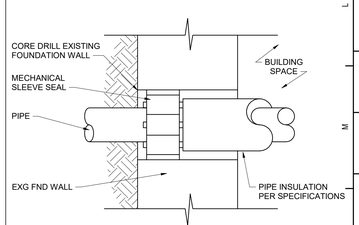
2 Insulated Piping Support Assemblies
NTS



3 Fire Rated CMU Wall Pipe Sleeve Detail
NTS



4 Pipe Stand Detail
NTS



5 Existing Foundation Penetration Detail
NTS

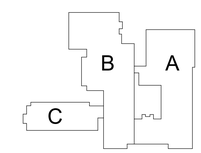
Plan Notes

A. REFER TO DRAWING NO. BP050 FOR GENERAL NOTES.

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

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

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



Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-0-006-013

Rev. No.:	Date:	Description:

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BID SET

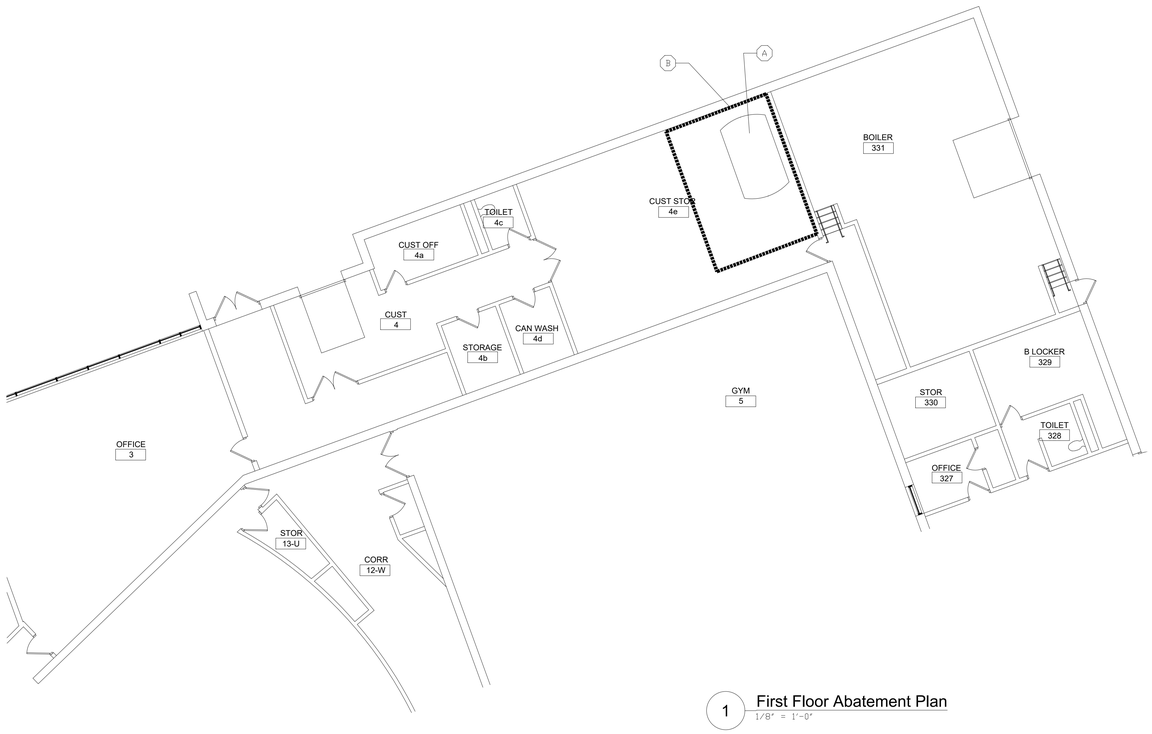
TETRA TECH ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Middle School

Enlarged Plans, Details and Schedule

Drawn By:	Date:	Drawing Number:
DCG/ sef	08/21/20	BP400
Project No.: 121111-19002		



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

Tank Abatement Notes

1. WATER STORAGE TANK INSULATION IS ASBESTOS CONTAINING.
2. COMPLETELY DISMANTLE THE STORAGE TANK AND INSULATION. ALL NON-METAL MATERIALS SHALL BE HANDLED AND DISPOSED OF AS ASBESTOS CONTAINING MATERIALS.
3. LEGALLY DISPOSE OR RECYCLE REMAINING CLEANED METALLIC TANK COMPONENTS.

Pipe/Fitting Insulation Removal

1. IN INDICATED AREAS REMOVE AND DISPOSE OF IDENTIFIED ASBESTOS CONTAINING PIPE / FITTING INSULATION.
2. WHERE THE AMOUNT OF PIPE INSULATION IS NOT INDICATED, QUANTITY IS UNKNOWN. REMOVE ALL PIPE / FITTING INSULATION IN THE INDICATED AREA AND WITHIN ADJACENT WALLS, CHASES AND CEILING SPACES.
3. OPEN ALL WALLS, CEILINGS AND CHASES SCHEDULED TO BE DISTURBED IN THE RENOVATION AND REMOVE ALL PIPE / FITTING INSULATION WITHIN. OPENING OF WALLS, CEILINGS, AND CHASES SHALL BE TO THE EXTENT NECESSARY TO ACCESS AND REMOVE ALL PIPE / FITTING INSULATION WITHIN. COORDINATE WITH OTHERS TO DETERMINE THE EXTENT OF ACCESS / REMOVALS NECESSARY. CONTRACTOR SHALL PROVIDE ADDITIONAL OPENINGS AS NECESSARY SHOULD THE INITIAL OPENINGS NOT ADEQUATELY ACCESS ALL MATERIAL. IF ENTIRE SUBSTRATE IS SCHEDULED TO BE REMOVED, CONTRACTOR MAY ELECT TO REMOVE ENTIRE SURFACE IN LIEU OF CREATING MULTIPLE OPENINGS. COORDINATE EXTENTS, LOCATIONS, AND INTENT TO REMOVE ENTIRE SUBSTRATE WITH DRAWINGS AND OTHER CONTRACTORS.
4. REMOVE FIBERGLASS PIPE INSULATION WHICH ABUTS THE ACM MUDDED FITTING INSULATION A MINIMUM OF 6" FROM ANY VISIBLE MUDDED FITTING INSULATION. LEAVE AN EVEN EDGE WHICH IS PERPENDICULAR TO THE PIPE RUN.
5. ALL PIPE AND FITTING INSULATION REMOVAL SHALL BE PERFORMED:
   a) WITHIN A FULL CONTAINMENT WORK AREA;
   b) IN ACCORDANCE WITH ICR 56-7.11 (f) (1) "NEGATIVE PRESSURE TENT REGULATED ABATEMENT WORK AREA ENCLOSURE" OR;
   c) IN ACCORDANCE WITH A SPECIFIC VARIANCE WHICH IS GRANTED BY THE NYSDOL AND APPROVED BY THE OWNER AND ARCHITECT.

Legend

(A) REMOVE WATER STORAGE TANK WITH ASBESTOS CONTAINING INSULATION

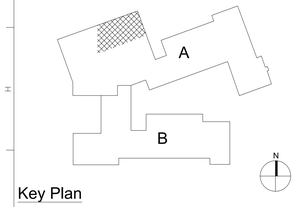
(B) REMOVE ASBESTOS CONTAINING PIPE ELBOW/FITTING INSULATION COMPLETE WITHIN THE EXTENTS OF THE INDICATED SPACE

Asbestos Abatement General Notes

1. CONTRACTOR PERFORMING ANY AND ALL ASBESTOS ABATEMENT WORK SHALL BE A NYSDOL LICENSED ASBESTOS CONTRACTOR.
2. PERFORM ALL WORK IN ACCORDANCE WITH SPECIFICATION SECTION 02 82 00 - ASBESTOS ABATEMENT.
3. ASBESTOS CONTAINING MATERIALS SHALL BE ABATED IN ACCORDANCE WITH THE DRAWINGS AND SECTION 02 82 00 PRIOR TO ANY GENERAL DEMOLITION WORK THAT COULD DISTURB THOSE MATERIALS.
4. DO NOT SCALE DRAWINGS.
5. COORDINATE ALL WORK WITH OTHER CONTRACTORS.
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL VARIANCES FROM INDUSTRIAL CODE RULE 56, WHICH ARE DESIRED OR NECESSARY TO PERFORM THE WORK.
7. REMOVE ALL ABATED MATERIALS FROM THE WORK AREA AND /OR BUILDING IN SEALED BAGS, DRUMS OR PLASTIC SHEETING.
8. WHERE INTERIOR ABATEMENT OCCURS, ISOLATE THE WING OR MAJOR SECTION OF THE BUILDING, FROM OCCUPIED PORTIONS OF THE BUILDING WITH SEALED ISOLATION BARRIERS CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS. THE ISOLATED PORTION OF THE BUILDING MUST CONTAIN EXITS THAT DO NOT PASS THROUGH THE OCCUPIED PORTION OF THE BUILDING AND VENTILATION SYSTEMS SHALL BE PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER.

Lead Safe Work Practices

1. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR THEIR OWN WORK WHICH WILL DISTURB LEAD PAINTED OR CONTAINING MATERIALS.
2. ALL PAINTED OR GLAZED SURFACES ARE PRESUMED TO BE LEAD CONTAINING, AND SHALL BE TREATED AS LEAD-BASED PAINT.
3. PERFORM ALL WORK THAT WILL DISTURB LBP IN ACCORDANCE WITH SECTION 02 83 00 - LEAD-SAFE WORK PRACTICES.



Key Plan

S.E.D. Control No: 48-01-01-06-0-003-008

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

Reconstruction to:
Mahopac Falls Elementary

Abatement Plan

Drawn by:	Date:	Drawing No.:
TJT	8/21/20	FH100

Project No.: 121111-19002

1 First Floor Power Plan - Area A
1/16" = 1'-0"

Demolition Work General Notes

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

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

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

D. REFER TO SPECIFICATIONS SECTION 26 05 00 FOR DEMOLITION REQUIREMENTS.

E. PROVIDE FOR THE SAFE HANDLING AND DISPOSAL OF ALL REMOVED LIGHT FIXTURES AND BALLASTS THAT MAY CONTAIN PCBs (POLYCHLORINATED BIPHENYLS), IN ACCORDANCE WITH ALL APPLICABLE EPA, OSHA, FEDERAL, STATE, AND LOCAL CODES AND LAWS. REFER TO SPECIFICATIONS SECTION 26 05 01.

F. PROVIDE FOR THE SAFE HANDLING AND DISPOSAL OF ALL REMOVED FLUORESCENT LIGHT TUBES THAT MAY CONTAIN MERCURY, IN ACCORDANCE WITH ALL APPLICABLE EPA, OSHA, FEDERAL, STATE, AND LOCAL CODES AND LAWS. REFER TO SPECIFICATIONS SECTION 26 05 01.

General Notes

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

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

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

D. CIRCUIT WIRING FOR ALL LIGHTING CIRCUITS SHALL BE IN 1/2" EMT CONDUIT (MIN) OR TYPE MC CABLE CONCEALED ABOVE CEILINGS AND IN WALLS (REFER TO SPECIFICATION SECTION 26 05 33 FOR LOCATIONS WHERE MC CABLE IS ACCEPTABLE). ALL CIRCUIT CONDUCTORS SHALL BE #12AWG COPPER (MIN) 90° C THHN THERMOPLASTIC INSULATION.

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

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

G. UNLESS NOTED ELSEWHERE ON THE CONTRACT DOCUMENTS, THE FOLLOWING LIST REPRESENTS THE TYPICAL MOUNTING HEIGHTS FOR THE DEVICES SHOWN:
a. SWITCHES AND PANIC STATIONS.....48" (TO TOP)
b. RECEPTACLES.....16"
c. COMPUTER RECEPTACLES.....16"
d. WALL (W) TELEPHONE AND/OR CALL SWITCHES....48" (TO TOP)
e. TELEPHONE OUTLETS (UNLABELED).....16"
f. VOLUME CONTROLS.....48" (TO TOP)
g. TELEVISION OUTLETS.....16"
h. FIRE ALARM PULL STATIONS.....48" (TO TOP)
i. FIRE ALARM AUDIO VISUAL UNITS.....88"
*(OR 6" BELOW CEILING, WHICHEVER IS LOWER)
j. POWER PANELS.....72" (TO TOP)
k. DISCONNECT SWITCHES.....60" (TO TOP)
l. MOTOR STARTERS.....60" (TO TOP)

THE HEIGHTS INDICATED SHALL BE NOMINAL TO THE BOTTOM OF THE BOX UNLESS NOTED OTHERWISE.

H. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.

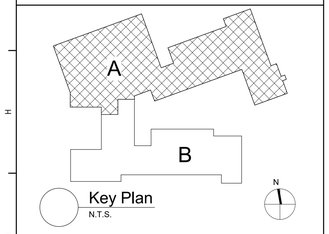
I. WIRE EMERGENCY BATTERY PACKS TO UNSWITCHED LIGHTING CIRCUIT SUPPLYING SPACE SERVED BY EMERGENCY BATTERY PACK.

J. WIRE EXIT LIGHTS TO EXISTING EXIT LIGHT CIRCUITS.

K. ALL CIRCUIT BREAKERS ADDED TO EXISTING PANELBOARDS SHALL BE LISTED/LABELED FOR USE WITH EXISTING PANELBOARDS.

Keyed Notes

1 DISCONNECT POWER CIRCUITRY TO UV DISINFECTION, CHLORINE PUMP, BOOSTER PUMP AND WATER SOFTENER. TAG CIRCUITRY FOR RE-USE. CONNECT 1-1/2 HP 208V SINGLE PHASE PUMPS, DISCONNECT, AND CONTROL PANEL TO CIRCUIT PREVIOUSLY SERVING THIS AREA. COORDINATE ALL WORK WITH PLUMBING CONTRACTOR.



Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-0-003-008

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

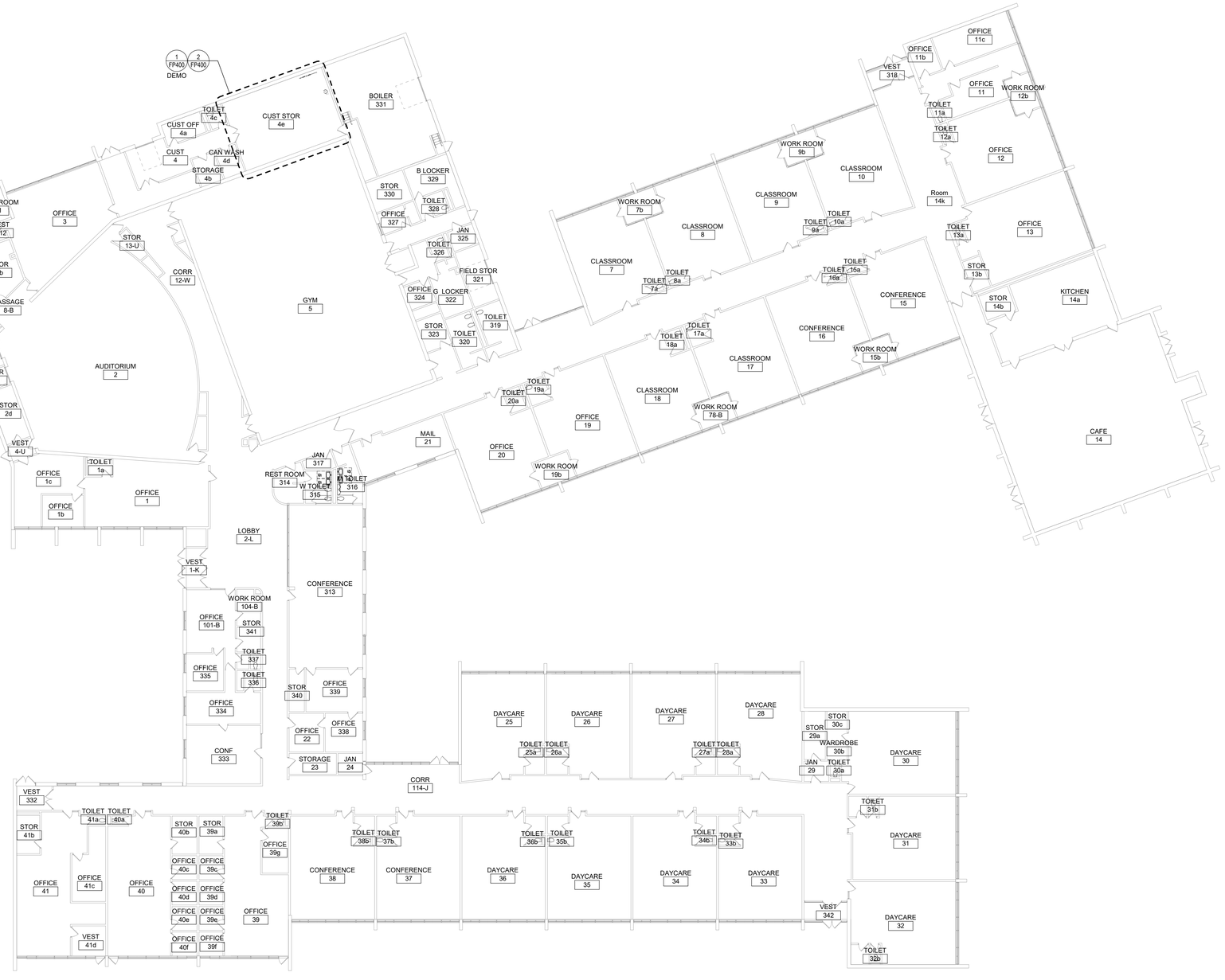
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Falls Elementary

First Floor Power Plan

Drawn By:	Date:	Drawing Number:
CR	08/21/20	FE160

Project No.: 121111-19002



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

General Notes

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

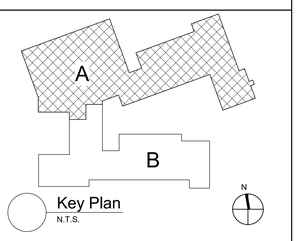
B. VERIFY IN FIELD INVERT AND DIRECTION OF FLOW IN EXISTING SOIL PIPE WHERE NEW SOIL PIPE IS TO BE CONNECTED TO EXISTING SOIL PIPE.

C. LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS.

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

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

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



S.E.D. Control No. 48-01-01-06-0-003-008

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TETRA TECH
ARCHITECTS & ENGINEERS

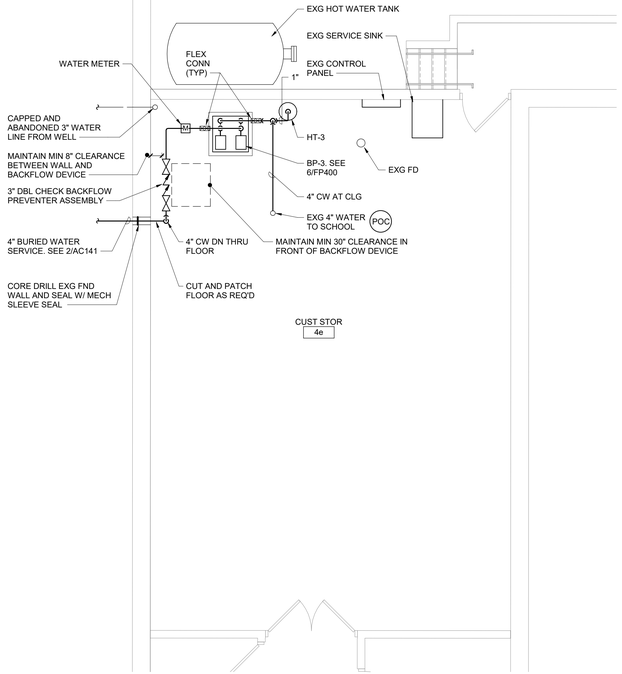
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Falls Elementary

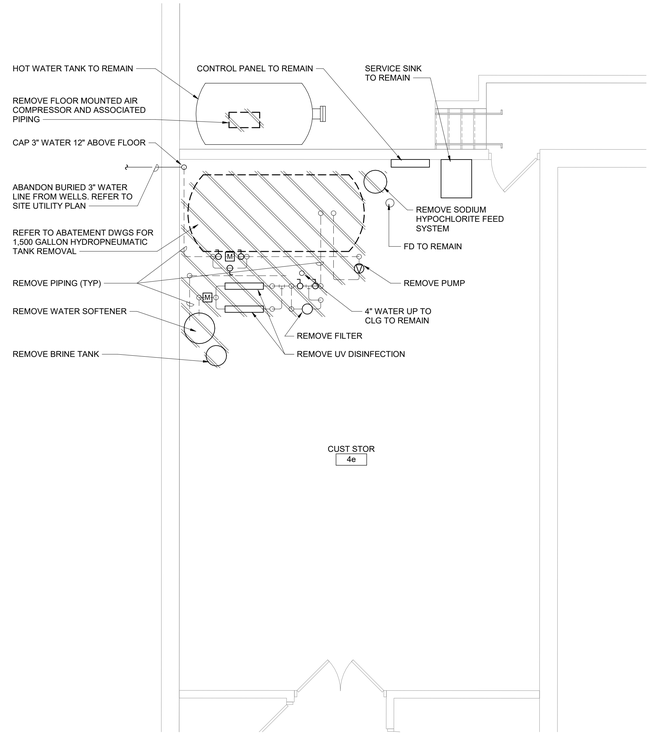
First Floor Key Plan

Drawn By:	Date:	Drawing Number:
DCG/ sef	08/21/20	FP050

Project No.: 121111-19002



2 Custodial Storage 4e Plan
1/4" = 1'-0"
NOTE: VIEW ROTATED FROM KEY PLAN



1 Custodial Storage 4e Demolition Plan
1/4" = 1'-0"
NOTE: VIEW ROTATED FROM KEY PLAN

Domestic Water Booster Pump Schedule

DWG LABEL	LOCATION	DESIGN MAKE AND MODEL	TOTAL CAPACITY	TOTAL DYNAMIC HEAD	MAX CONT OPERATING TEMP	INLET / OUTLET SIZE	RPM	HORSE POWER	FULL LOAD AMPS	VOLTAGE	PHASE	HERTZ	NOTES
			GPM	FEET	°F	NPS							
BP-3	CUSTODIAL STORAGE 4e	GRUNDFOS HYDRO MULTI-B/E 2 CME10-1	75	46.2	104	2.5	3450	1.5	13.1	208	1	60	1, 2

NOTES:

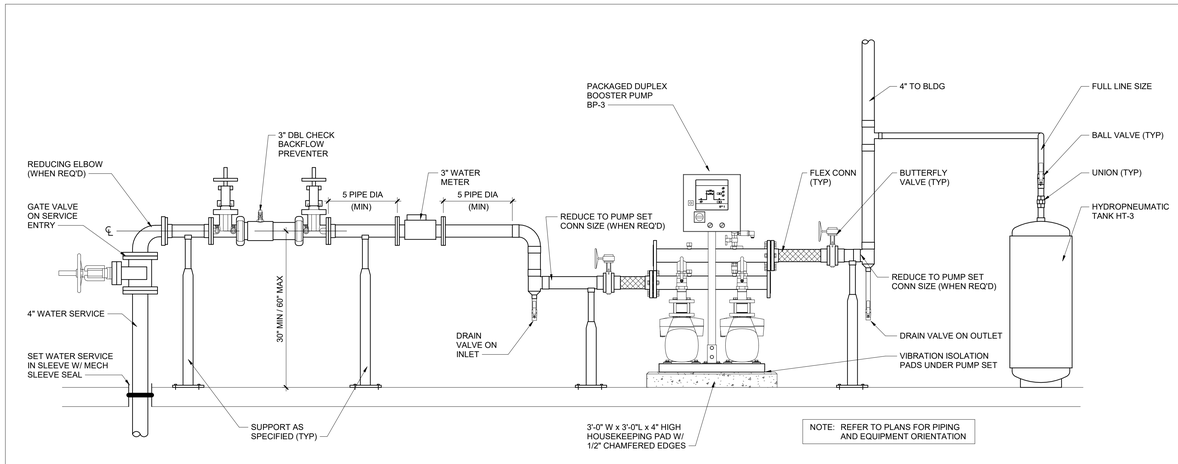
1. PACKAGED DUPLEX BOOSTER PUMP SYSTEM WITH VARIABLE FREQUENCY DRIVES AND DUPLEX CONTROL PANEL MOUNTED ON A SKID.
2. EACH PUMP SIZED FOR 75% OF TOTAL SYSTEM CAPACITY.

Hydropneumatic Tank Schedule

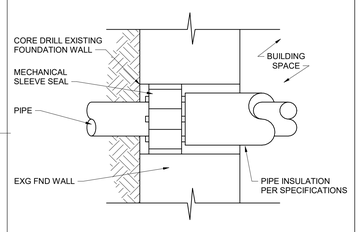
DRAWING LABEL	LOCATION	MAKE AND MODEL NUMBER	TOTAL STORAGE CAPACITY (GALLONS)	MAXIMUM ACCEPTANCE VOLUME - GALLONS	WATER SERVICE PRESSURE (PSI)	MAXIMUM ALLOWABLE PRESSURE (PSI)	DIAMETER (INCHES)	HEIGHT (INCHES)	CONNECTION (NPT)	NOTES
HT-3	CUSTODIAL STORAGE 4e	JOHN WOOD NO. JAPR 20-602	15	39.7	60	150	12	33 1/2	1	1, 2

NOTES:

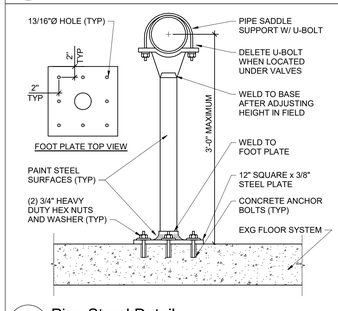
1. REPLACEABLE BUTYL BLADDER (FDA APPROVED).
2. ASME CONSTRUCTION.



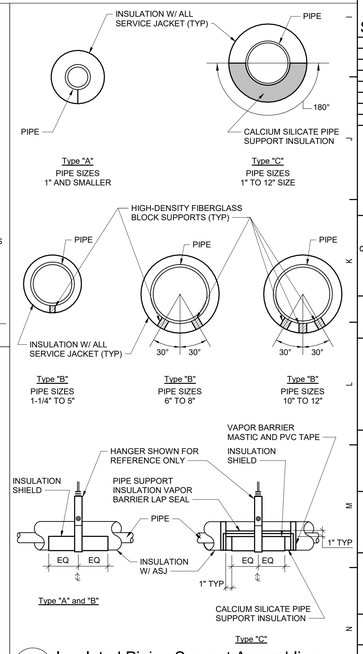
6 Duplex Booster Pump System Schematic
NTS



4 Existing Foundation Penetration Detail
NTS



5 Pipe Stand Detail
NTS



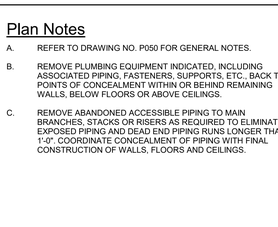
3 Insulated Piping Support Assemblies
NTS

Plan Notes

A. REFER TO DRAWING NO. P050 FOR GENERAL NOTES.

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

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



S.E.D. Control No. 48-01-01-06-0-003-008

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH ARCHITECTS & ENGINEERS

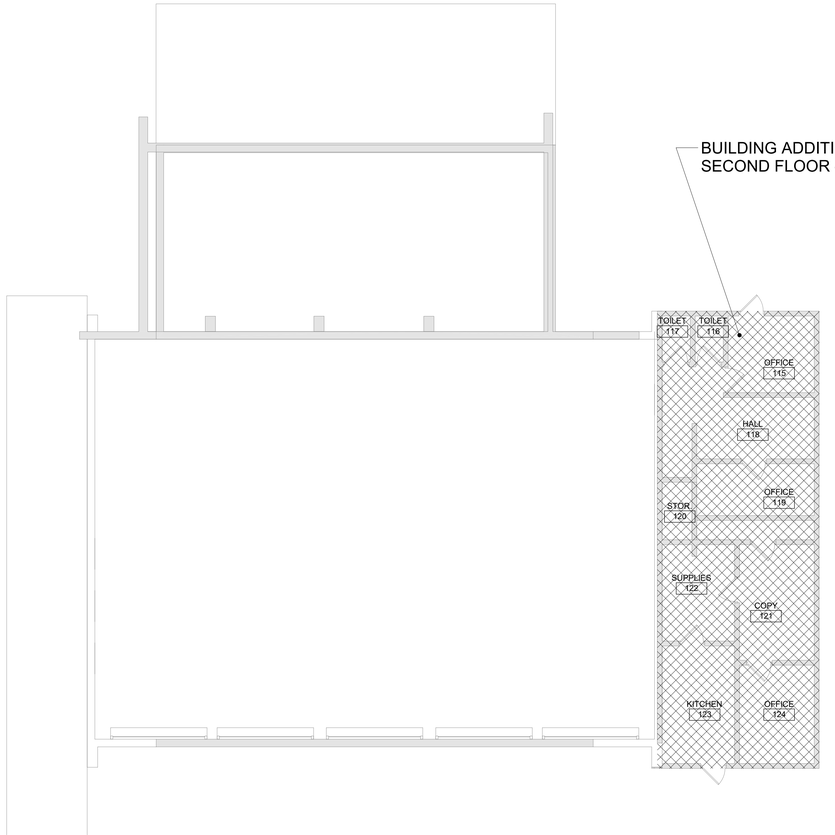
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Falls Elementary

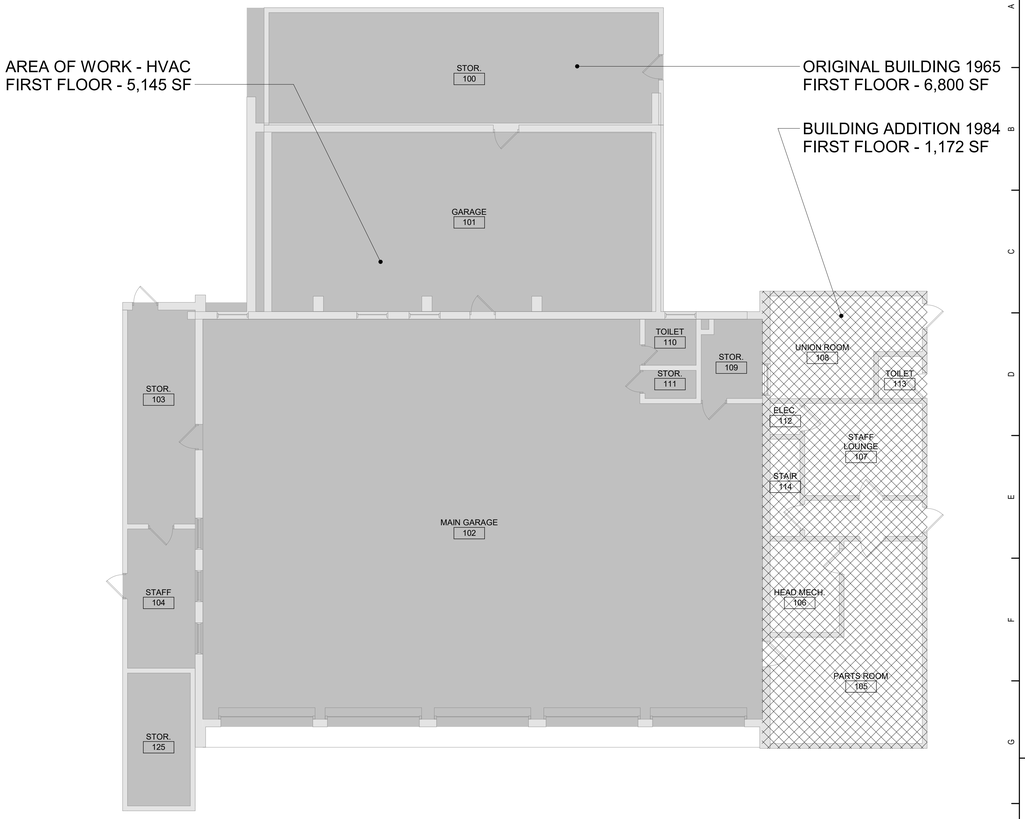
Enlarged Plans, Details and Schedule

Drawn By:	Date:	Drawing Number:
DCG/ sef	08/21/20	FP400

Project No.: 121111-19002



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



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

STRUCTURAL LOADS

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

B. RAIN LOAD PER BCNYS 1611
RAIN INTENSITY 2.75 IN/HR

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

B. SNOW LOADS PER BCNYS 1608
GROUND SNOW LOAD, Pg (FIGURE 1608.2) 30 PSF
FLAT ROOF SNOW LOAD, Pf (ASCE-7) 23 PSF
SNOW EXPOSURE FACTOR, Ce 1.0
THERMAL FACTOR, Ct 1.0
SNOW LOAD IMPORTANCE FACTOR, Is 1.1

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

C. WIND LOAD DESIGN CRITERIA PER BCNYS 1609
BASIC DESIGN WIND SPEED (3 SECOND GUST), V 120 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, Vasd 92.95 MPH
RISK CATEGORY III
EXPOSURE CATEGORY B
INTERNAL PRESSURE COEFFICIENT, GCPi +/- 0.18

D. SEISMIC DESIGN CRITERIA PER BCNYS 1613
RISK CATEGORY III
SEISMIC IMPORTANCE FACTOR Ie 1.25
MAPPED SPECTRAL RESPONSE ACCELERATION
AT SHORT PERIODS, Ss 23.3%g
AT 1 SECOND PERIOD, S1 6.9%g
SITE CLASS D
DESIGN SPECTRAL RESPONSE ACCELERATION
AT SHORT PERIODS, Sds 24.96%g
AT 1 SECOND PERIOD, Sd1 11.0%g
SEISMIC DESIGN CATEGORY B

Code Compliance Review

PROJECT LOCATION:
90 MYRTLE AVENUE, MAHOPAC, NY 10541
BOUND BY MYRTLE AVENUE TO THE WEST, FALL ELEMENTARY SCHOOL TO THE NORTH AND MAHOPAC HIGH SCHOOL TO THE EAST.

PROJECT DESCRIPTION:
THIS PROJECT INCLUDES HVAC SYSTEM UPGRADES FOR THE FIRST FLOOR TO PROVIDE VENTILLATION AND HEATING AND REPLACEMENT OF THE VEHICLE EXHAUST SYSTEM.

WORK GENERALLY CONSISTS OF THE FOLLOWING
ALTERATIONS - LEVEL 3 OF THE ITEMS INDICATED ABOVE.

APPLICABLE CODES (AND STANDARDS):

BASED ON THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE INCLUDING APPLICABLE 2018 ICC CODES, 2020 BUILDING CODE of NYS INCLUDING THE 2020 BCNYS, 2020 EBCNYS AND 2020 ECCNYS, ICC A117.1-09 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES AND COMMISSIONER OF EDUCATIONS 155 REGULATIONS (SED MPS-98).

BUILDING DATA:

BUILDING: MAHOPAC BUS GARAGE
90 MYRTLE AVENUE
MAHOPAC, NY 14541

DESCRIPTION: ONE STORY PREFABRICATED METAL BUILDING

YEAR BUILT: 1965

BUILDING AREA: FIRST 7,972 SQFT
SECOND 1,284 SQFT
TOTAL GROSS AREA= 9,256 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: S1: MODERATE HAZARD STORAGE

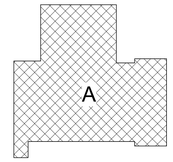
CONSTRUCTION TYPE - EXISTING: IIB

FIRE SAFETY: NO SPRINKLER SYSTEM

WORK AREA:

LOCATION	AREA	% OF TOTAL
1ST FLOOR	5,145 SQFT	55.59%

CORRIDOR DOORS: ALL CORRIDOR DOORS SCHEDULED TO BE REPLACED SHALL HAVE MINIMUM FIRE DOOR ASSEMBLY RATING OF 20 MINUTES IN ACCORDANCE WITH SECTION 716.5



Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-5-010-009

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

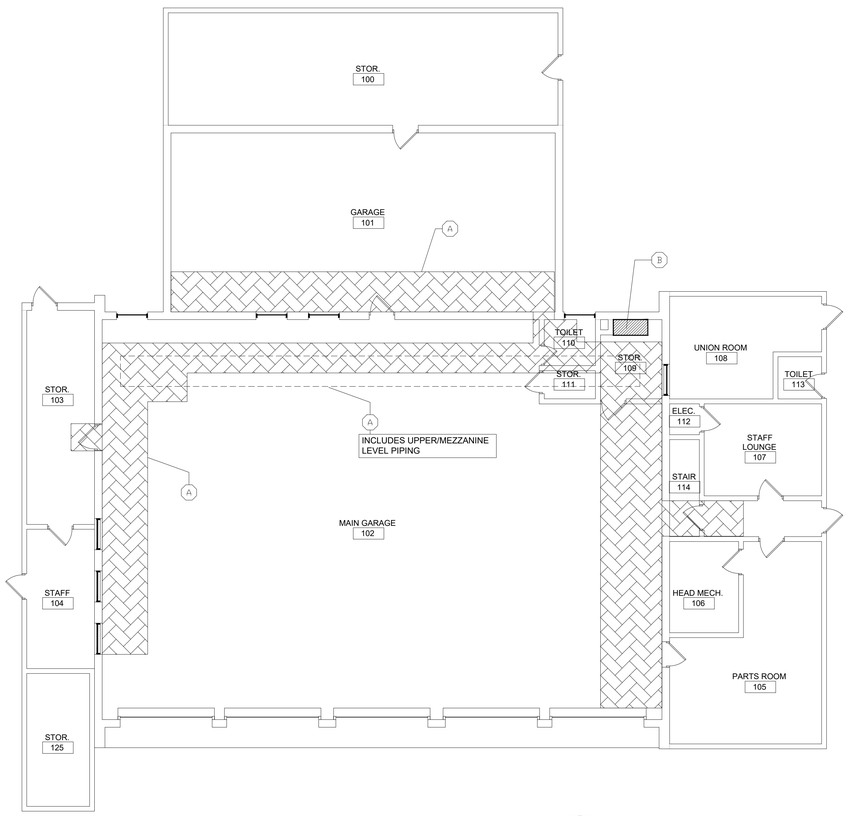
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Bus Garage

Code Compliance Review - First and Second Floor Key Plans

Drawn By:	Date:	Drawing Number:
TTAE	08/21/20	GG051

Project No.: 121111-19002



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

Pipe/Fitting Insulation Removal

1. IN INDICATED AREAS REMOVE AND DISPOSE OF IDENTIFIED ASBESTOS CONTAINING PIPE / FITTING INSULATION.
2. WHERE THE AMOUNT OF PIPE INSULATION IS NOT INDICATED, QUANTITY IS UNKNOWN, REMOVE ALL PIPE / FITTING INSULATION IN THE INDICATED AREA AND WITHIN ADJACENT WALLS, CHASES AND CEILING SPACES.
3. OPEN ALL WALLS, CEILINGS AND CHASES SCHEDULED TO BE DISTURBED IN THE RENOVATION AND REMOVE ALL PIPE / FITTING INSULATION WITHIN. OPENING OF WALLS, CEILINGS, AND CHASES SHALL BE TO THE EXTENT NECESSARY TO ACCESS AND REMOVE ALL PIPE / FITTING INSULATION WITHIN. COORDINATE WITH OTHERS TO DETERMINE THE EXTENT OF ACCESS / REMOVALS NECESSARY. CONTRACTOR SHALL PROVIDE ADDITIONAL OPENINGS AS NECESSARY SHOULD THE INITIAL OPENINGS NOT ADEQUATELY ACCESS ALL MATERIAL. IF ENTIRE SUBSTRATE IS SCHEDULED TO BE REMOVED, CONTRACTOR MAY ELECT TO REMOVE ENTIRE SURFACE IN LIEU OF CREATING MULTIPLE OPENINGS. COORDINATE EXTENTS, LOCATIONS, AND INTENT TO REMOVE ENTIRE SUBSTRATE WITH DRAWINGS AND OTHER CONTRACTORS.
4. REMOVE FIBERGLASS PIPE INSULATION WHICH ABUTS THE ACM MUDDED FITTING INSULATION A MINIMUM OF 6" FROM ANY VISIBLE MUDDED FITTING INSULATION. LEAVE AN EVEN EDGE WHICH IS PERPENDICULAR TO THE PIPE RUN.
5. IN ADDITION TO THE NUMBER OF FITTINGS IDENTIFIED TO BE REMOVED, INCLUDE 2 TENTS AND 6 GLOVEBAGS. SPECIFIC LOCATIONS AND AMOUNTS OF ADDITIONAL REMOVAL SHALL BE FIELD DIRECTED AS REQUIRED. THE BASE BID SHALL BE ADJUSTED USING UNIT PRICES TO REFLECT THE VALUE OF THE ACTUAL NUMBER OF TENTS AND GLOVEBAGS USED. ASSUME TENT SIZE TO BE APPROXIMATELY 10'X10'X10.
6. ALL PIPE AND FITTING INSULATION REMOVAL SHALL BE PERFORMED:
   a) WITHIN A FULL CONTAINMENT WORK AREA;
   b) IN ACCORDANCE WITH ICR 56-7.11 (f) (1) "NEGATIVE PRESSURE TENT REGULATED ABATEMENT WORK AREA ENCLOSURE" OR;
   c) IN ACCORDANCE WITH A SPECIFIC VARIANCE WHICH IS GRANTED BY THE NYSDOL AND APPROVED BY THE OWNER AND ARCHITECT.
7. LIMITED AREAS OF DAMAGED INSULATION AND ASSOCIATED DEBRIS ARE ANTICIPATED. PERFORM PREPARATION WORK TO AVOID DISTURBANCE OF ANY DEBRIS UNTIL THE WORK AREA IS ESTABLISHED. REMOVE AND DISPOSE OF ALL INSULATION DEBRIS WITHIN THE GENERAL VICINITY OF SCHEDULED PIPE INSULATION REMOVAL.

Legend

(A) REMOVE ACM PIPE/FITTING INSULATION IN ENTIRETY FROM THE INDICATED AREA

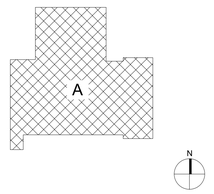
(B) REMOVE BOILER BREECHING IN ITS ENTIRETY. ACM BOILER FLUE INSULATION PRESUMED TO BE CONCEALED WITHIN JACKETING.

Asbestos Abatement General Notes

1. CONTRACTOR PERFORMING ANY AND ALL ASBESTOS ABATEMENT WORK SHALL BE A NYSDOL LICENSED ASBESTOS CONTRACTOR.
2. PERFORM ALL WORK IN ACCORDANCE WITH SPECIFICATION SECTION 02 82 00 - ASBESTOS ABATEMENT.
3. ASBESTOS CONTAINING MATERIALS SHALL BE ABATED IN ACCORDANCE WITH THE DRAWINGS AND SECTION 02 82 00 PRIOR TO ANY GENERAL DEMOLITION WORK THAT COULD DISTURB THOSE MATERIALS.
4. DO NOT SCALE DRAWINGS.
5. COORDINATE ALL WORK WITH OTHER CONTRACTORS.
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL VARIANCES FROM INDUSTRIAL CODE RULE 56, WHICH ARE DESIRED OR NECESSARY TO PERFORM THE WORK.
7. REMOVE ALL ABATED MATERIALS FROM THE WORK AREA AND /OR BUILDING IN SEALED BAGS, DRUMS OR PLASTIC SHEETING.
8. WHERE INTERIOR ABATEMENT OCCURS, ISOLATE THE WING OR MAJOR SECTION OF THE BUILDING, FROM OCCUPIED PORTIONS OF THE BUILDING WITH SEALED ISOLATION BARRIERS CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS. THE ISOLATED PORTION OF THE BUILDING MUST CONTAIN EXITS THAT DO NOT PASS THROUGH THE OCCUPIED PORTION OF THE BUILDING AND VENTILATION SYSTEMS SHALL BE PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER.

Lead Safe Work Practices

1. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR THEIR OWN WORK WHICH WILL DISTURB LEAD PAINTED OR CONTAINING MATERIALS.
2. LEAD BASED PAINT HAS BEEN IDENTIFIED ON:
   a. NONE
3. PERFORM ALL WORK THAT WILL DISTURB LBP IN ACCORDANCE WITH SECTION 02 83 00 - LEAD-SAFE WORK PRACTICES.



Key Plan

S.E.D. Control No: 48-01-01-06-5-010-009

Rev. No.:	Date:	Description:

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

TETRA TECH
ARCHITECTS & ENGINEERS

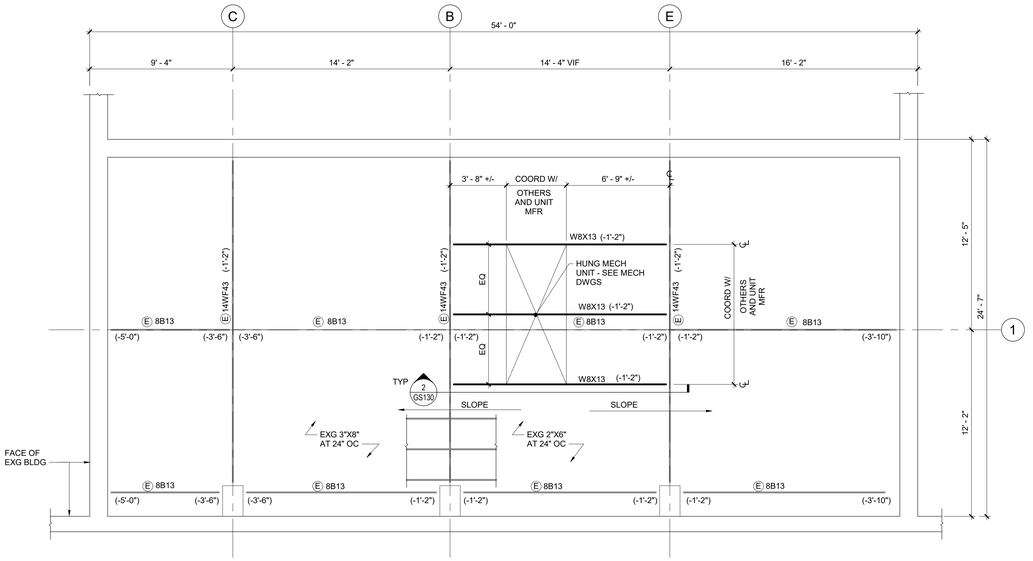
Mahopac Central School District
Mahopac, NY

Reconstruction to:
Mahopac Bus Garage

First Floor Abatement Plan

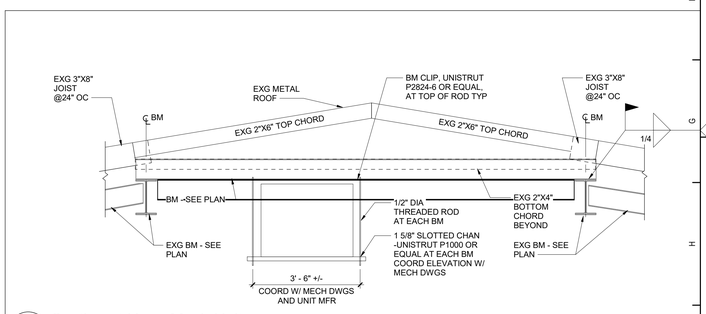
Drawn by:	Date:	Drawing No.:
TJT	8/21/20	GH100

Project No.: 121111-19002



1 Partial Framing Plan
1/4" = 1'-0"
DATUM FOR EXG TOS IS AT 115'-8" VIF

N



2 Section at Hung Mech Unit
1/2" = 1'-0"

1. FOR 4" THICK WALLS

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

2. FOR 6" THICK WALLS

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

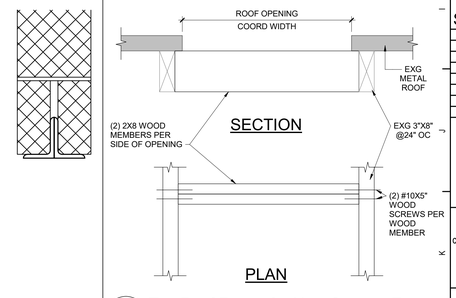
3. FOR 8", 12", AND 16" THICK WALLS:
FOR EACH 4" THICKNESS OF WALL

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

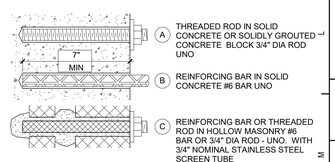
LINTEL NOTES

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

5 Lintel Schedule
12" = 1'-0"



3 Typ Roof Frame for New Opng at Exg
1" = 1'-0"



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

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

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

NOTES

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

2. PROVIDE ALL ROOF AND FLOOR OPENING FRAMES PER DIV 06 SPEC. COORDINATE QUANTITIES, LOCATION, AND SIZE OF OPENINGS WITH OTHERS AND MECH, PLBG, AND ARCH DWGS.

STRUCTURAL LOADS

A. ROOF LOADS PER BCNYS 1607.13

MINIMUM ROOF LIVE LOAD	20 PSF

B. RAIN LOAD PER BCNYS 1611

RAIN INTENSITY	2.75 IN/HR

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

B. SNOW LOADS PER BCNYS 1608

GROUND SNOW LOAD, Pg (FIGURE 1608.2)	30 PSF
FLAT ROOF SNOW LOAD, Pf (ASCE-7)	23 PSF
SNOW EXPOSURE FACTOR, Ce	1.0
THERMAL FACTOR, Ct	1.0
SNOW LOAD IMPORTANCE FACTOR, Is	1.1

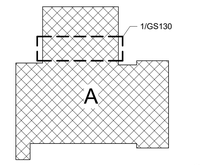
ADDITIONAL SNOW LOADS HAVE BEEN APPLIED TO AREAS WHERE DRIFTING OCCURS IN ACCORDANCE WITH BCNYS 1608.

C. WIND LOAD DESIGN CRITERIA PER BCNYS 1609

BASIC DESIGN WIND SPEED (3 SECOND GUST), V	120 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, Vasd	92.95 MPH
RISK CATEGORY	III
EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT, GCPi	+/- 0.18

D. SEISMIC DESIGN CRITERIA PER BCNYS 1613

RISK CATEGORY	III
SEISMIC IMPORTANCE FACTOR Ie	1.25
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS, Ss	23.3%g
AT 1 SECOND PERIOD, S1	6.9%g
SITE CLASS	D
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS, Sds	24.96%g
AT 1 SECOND PERIOD, Sd1	11.0%g
SEISMIC DESIGN CATEGORY	B



Key Plan
N.T.S.

N

S.E.D. Control No. 48-01-01-06-5-010-009

Rev. No.:	Date:	Description:

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

TETRA TECH
ARCHITECTS & ENGINEERS

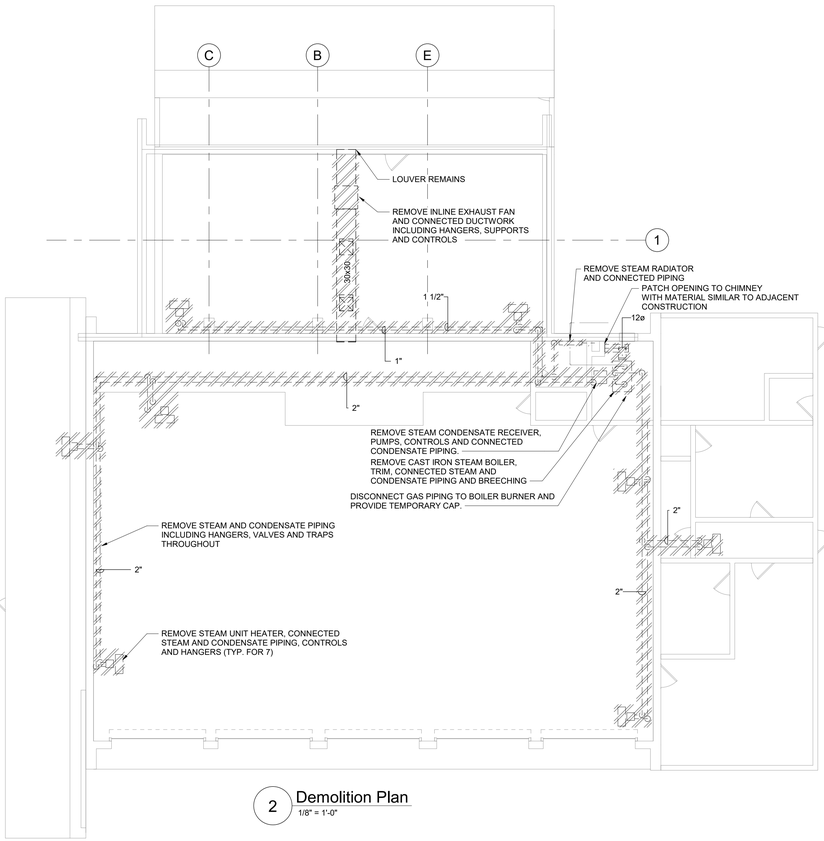
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Bus Garage

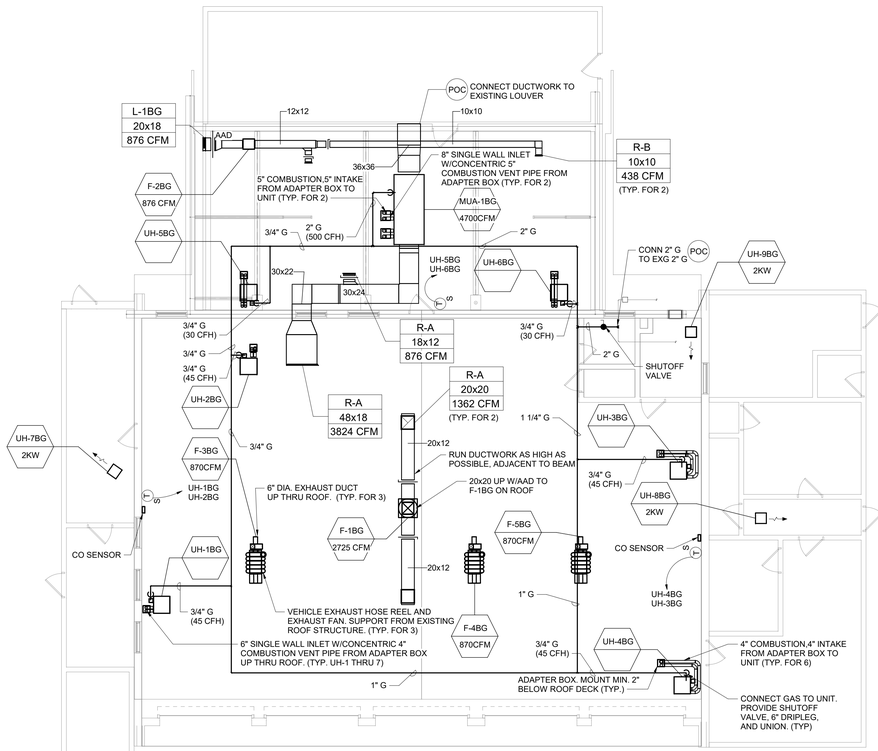
Roof Framing Plan

Drawn By:	Date:	Drawing Number:
DJB/kjr	08/21/20	GS130

Project No.:
121111-19002



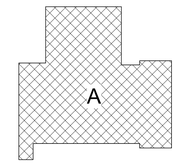
2 Demolition Plan
1/8" = 1'-0"



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

GENERAL NOTES:

1. THE FOLLOWING GENERAL NOTES APPLY TO ALL "GM" SERIES DRAWINGS.
2. REFER TO ALL CONTRACT DOCUMENTS; DRAWINGS AND SPECIFICATIONS, FOR DETAILED STANDARDS AND REQUIREMENTS.
3. REPORT UNSAFE OR UNSATISFACTORY CONDITIONS IN WRITING TO OWNER AND ENGINEER AND RESOLVE ISSUES BEFORE PROCEEDING.
4. WORK INCLUDES ALL LABOR AND MATERIALS REQUIRED TO PROVIDE COMPLETE WORKING SYSTEMS.
5. COORDINATE PHASING REQUIREMENTS AT JOB MEETINGS AND ON WORK SCHEDULES.
6. 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.
7. 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.
8. 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.
9. 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.
10. IF UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL CONFLICTS ARE ENCOUNTERED, INVESTIGATE AND REPORT BOTH NATURE AND EXTENT OF THE CONFLICT. RE-ROUTE WORK AS REQUIRED.
11. 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.
12. PATCH ALL DISTURBANCES RESULTING FROM DEMOLITION OR NEW WORK TO MATCH SURROUNDING SURFACES. PATCH FOLLOWING DEMOLITION, AND AGAIN FOLLOWING WORK. WHERE HOLES REMAIN FROM REMOVALS, INFILL AND PATCH TO MATCH UNLESS HOLE IS TO BE REUSED.
13. 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.
14. 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.
15. PROVIDE TEMPORARY PIPING, DUCT, HEAT, WEATHERPROOFING, ETC. TO SERVICES TO REMAIN UNTIL PERMANENT INSTALLATIONS CAN BE MADE.
16. ALL EXCESS MATERIALS AND SCRAPS ARE CONTRACTOR'S PROPERTY. PROMPTLY REMOVE FROM SITE UNLESS SPECIFICALLY DIRECTED OTHERWISE.
17. 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.



Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-5-010-009

Rev. No.:	Date:	Description:

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

BID SET

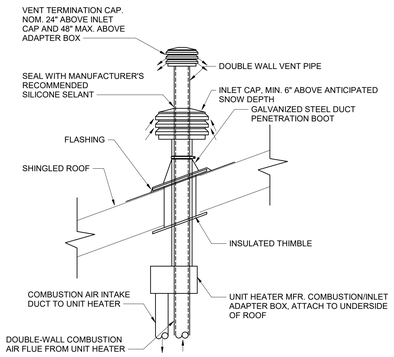
TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

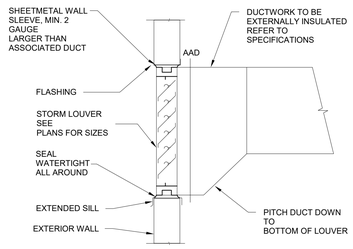
Reconstruction To:
Mahopac Bus Garage

Floor Plans

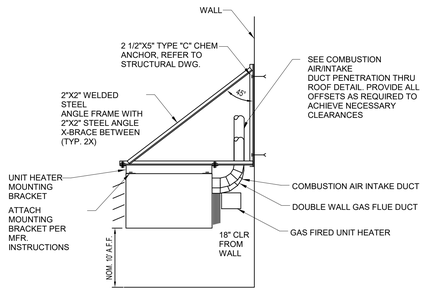
Drawn By:	Date:	Drawing Number:
DPM/jtk	8/21/20	GM130
Project No.: 121111-19002		



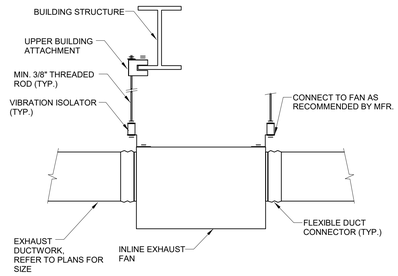
1 Gas Fired Equipment Intake/Vent Detail
NTS



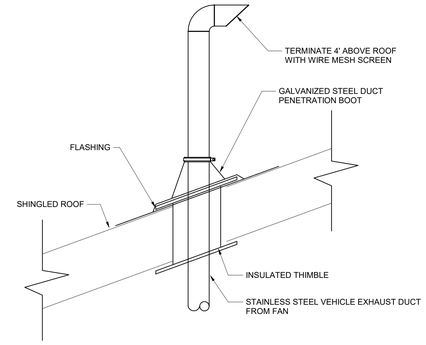
5 Louver Detail
NTS



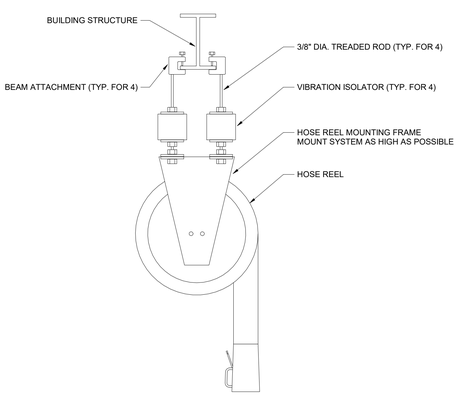
2 Gas-Fired Unit Heater Detail
NTS



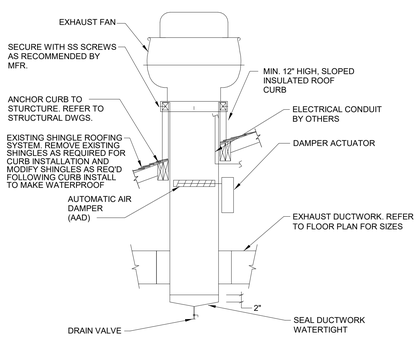
6 Inline Fan Detail
NTS



3 Vehicle Exhaust Duct Roof Penetration Detail
NTS



7 Vehicle Exhaust Hose Reel Mounting Detail
12" = 1'-0"



NOTE: REFER TO STRUCTURAL DRAWINGS FOR ROOF SUPPORT STRUCTURE COORDINATE ROOF PENETRATION LOCATION

4 Roof Exhaust Fan Detail
NTS

MAKE-UP AIR UNIT (MUA) SCHEDULE

EQUIP.NO.	LOCATION	MODEL	SERVES	AIR QUANTITY TOTAL AIRFLOW	GAS HEAT INPUT (MBH)	GAS HEAT OUTPUT CAP. (MBH)	GAS HEAT EAT (°F)	GAS HEAT LAT (°F)	ESP (IN. WG.)	TSP (IN. WG.)	FAN MOTOR HP	VOLTAGE	PHASE	NOTES
MUA-1BG	REAR GARAGE	SSCBL-500	REPAIR GARAGE	4700CFM	500	400	10.0	88.0	1.5	1.6	3	208	3	1,2,3,4

NOTES:
1. NATURAL GAS, MODULATING BURNER.
2. PROVIDE UNIT MANUFACTURER'S VERTICAL VENT KIT FOR THRU THE ROOF APPLICATION.
3. PROVIDE FACTORY FURNISHED VARIABLE SPEED DRIVE AND DISCONNECT SWITCH.
4. PROVIDE CONTROL TERMINAL STRIP FOR BMS CONTROL INTERFACE.

UNIT HEATER (UH) SCHEDULE

DWG LABEL	LOCATION	MODEL	MANUFACTURER	NOM. MOUNTING HEIGHT (FT.)	AIRSIDE DATA EAT (°F)	AIRSIDE DATA LAT (°F)	AIRSIDE DATA AIRFLOW (CFM)	CAPACITY INPUT (MBH)	CAPACITY OUTPUT (MBH)	ELECTRICAL MCA	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	NOTES
UH-1BG	GARAGE BAY	UDAS 45	REZNOR	10.0	65.0	119.0	629.0	45.0	37.4	15	115	1	1,2,3,4,7
UH-2BG	GARAGE BAY	UDAS 45	REZNOR	10.0	65.0	119.0	629.0	45.0	37.4	15	115	1	1,2,3,4,7
UH-3BG	GARAGE BAY	UDAS 45	REZNOR	10.0	65.0	119.0	629.0	45.0	37.4	15	115	1	1,2,3,4,7
UH-4BG	GARAGE BAY	UDAS 45	REZNOR	10.0	65.0	119.0	629.0	45.0	37.4	15	115	1	1,2,3,4,7
UH-5BG	REAR GARAGE	UDAS 30	REZNOR	10.0	65.0	115.0	456.0	30.0	24.6	15	115	1	1,2,3,4,7
UH-6BG	REAR GARAGE	UDAS 30	REZNOR	10.0	65.0	115.0	456.0	30.0	24.6	15	115	1	1,2,3,4,7
UH-7BG	OIL TANK AREA	EGHB-2-AK2	REZNOR	7.0	65.0	85.0	510.0		2 kW	15	208	1	3,5,6
UH-8BG	CORRIDOR	EGHB-2-AK2	REZNOR	7.0	65.0	85.0	510.0		2 kW	15	208	1	3,5,6
UH-9BG	BOILER ROOM	EGHB-2-AK2	REZNOR	7.0	65.0	85.0	510.0		2 kW	15	208	1	3,5,6

NOTES:
1. NATURAL GAS, SINGLE STAGE BURNER.
2. PROVIDE UNIT MANUFACTURER'S VERTICAL VENT KIT FOR THRU THE ROOF APPLICATION.
3. PROVIDE FACTORY FURNISHED DISCONNECT SWITCH.
4. PROVIDE FACTORY MOUNTING HANGER BRACKET.
5. PROVIDE WITH MANUFACTURER'S STANDARD WALL MOUNTING BRACKET.
6. PROVIDE WITH MANUFACTURER'S STANDARD INTEGRAL THERMOSTAT.
7. PROVIDE UNIT MANUFACTURER'S STANDARD WALL-MOUNTED SINGLE STAGE, 24V THERMOSTAT.

FAN (F) SCHEDULE

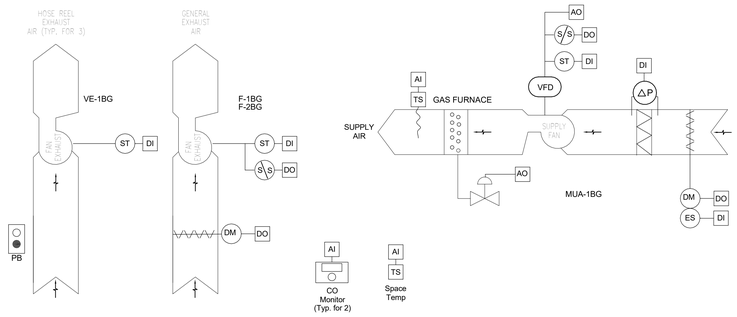
EQUIP NO.	LOCATION	MODEL	MANUFACTURER	AIRFLOW (CFM)	SONES	FAN DATA ESP (IN WG)	FAN DATA DRIVE	FAN DATA MOTOR RPM	FAN DATA HP	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	NOTES
F-1BG	ROOF	180R8B	LOREN COOK	2725	15.9	1.5	BELT	1725	1 1/2	208	3	1,2,3
F-2BG	REAR GARAGE	120SQN10D	LOREN COOK	876	4.8	.15	DIRECT	1050	1/6	115	1	2,3,4
F-3BG	REPAIR BAYS	CMW-11	CAR-MON	870	24	4.0	DIRECT	1250	1	208	3	3,5
F-4BG	REPAIR BAYS	CMW-11	CAR-MON	870	24	4.0	DIRECT	1250	1	208	3	3,5
F-5BG	REPAIR BAYS	CMW-11	CAR-MON	870	24	4.0	DIRECT	1250	1	208	3	3,5

NOTES:
1. PROVIDE MANUFACTURER'S STANDARD ALUMINUM, INSULATED ROOF CURB FOR SLOPED ROOF.
2. PROVIDE MANUFACTURER'S STANDARD HAND-OFF-AUTO SWITCH.
3. PROVIDE MANUFACTURER'S STANDARD DISCONNECT SWITCH.
4. PROVIDE MANUFACTURER'S STANDARD FAN SPEED SWITCH FOR BALANCING.
5. PROVIDE MANUFACTURER'S FAN STARTER. FAN STARTS VIA MANUAL PUSHBUTTON

LOUVER (L) SCHEDULE

TAG	SERVES	MODEL	TYPE	WIDTH (IN)	HEIGHT (IN)	DEPTH (IN)	FREE AREA (S.F.)	AIRFLOW	VELOCITY (FPM)	MAX APD (IN WG)	NOTES
L-1BG	F-2BG	ELF375DXH	EXHAUST	20	18	4	1.0	876 CFM	876	0.075	1,2,3

NOTES:
1. DESIGN MAKE: RUSKIN
2. PROVIDE WITH ALUMINUM INSECT SCREEN.
3. ANODIZED FINISH. SUBMIT MANUFACTURER'S COLOR CHART FOR APPROVAL BY ARCHITECT.



1. GENERAL: PROVIDE A LOCAL BMS CONTROLLER WITH GRAPHIC USER INTERFACE (GUI) FOR OPERATOR MONITORING, SCHEDULING, ALARMS AND TEMPERATURE SETPOINT ADJUSTMENT. LOCATE CONTROLLER/GUI IN LOCATION APPROVED BY OWNER. PROVIDE A WIRELESS ROUTER FOR COMMUNICATION TO DISTRICT BMS SYSTEM.

2. OCCUPIED MODE:
   A. THE MAKE-UP AIR UNIT AND GENERAL EXHAUST FAN (F-1BG), WILL RUN BASED ON OPERATOR ADJUSTABE SCHEDULE.
   B. MUA-1BG OUTSIDE AIR DAMPER AND F-1BG EXHAUST DAMPER SHALL BE OPEN ANYTIME THE UNITS ARE IN OPERATION.
   C. WHEN F-1BG IS ON, MUA-1BG SUPPLY AIR VARIABLE SPEED DRIVE (VSD) SHALL MODULATE TO MEET 90% OF THE AIRFLOW QUANTITY OF F-1BG.
   D. THE CONTROLLER SHALL MONITOR THE OVERHEAD DOOR POSITION. IF ANY OVERHEAD DOOR REMAINS OPEN FOR TEN (10) CONTINUOUS MINUTES, MUA-1BG OUTSIDE AIR DAMPER SHALL CLOSE AND MUA-1A SHALL STOP.
   E. UPON A FALL IN SPACE TEMPERATURE AS SENSED BY ITS RESPECTIVE THERMOSTAT, ENABLE UNIT HEATER AND OPEN GAS BURNER VALVE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT.

3. THE CONTROLLER SHALL MONITOR MUA-1 SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN SUPPLY AIR TEMPERATURE SETPOINT.
   A. AS THE OUTSIDE AIR TEMPERATURE DROPS FROM 85 DEG. F (ADJ.) TO 20 DEG. F. (ADJ.), THE SUPPLY AIR TEMPERATURE SETPOINT SHALL RESET UPWARD FROM 55 DEG. F. TO 95 DEG. F. (ADJ.).
   B. THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND MODULATE THE GAS BURNER VALVE TO MAINTAIN ITS HEATING SETPOINT.
   C. HEATING SHALL BE ENABLED WHENEVER: THE OUTSIDE AIR TEMPERATURE IS LESS THAN 65 DEG. F. (ADJ.) FAN STATUS IS ON, THE SUPPLY AIR TEMPERATURE IS BELOW HEATING SETPOINT AND OVERHEAD DOORS ARE CLOSED.
   D. GARAGE SPACE TEMPERATURE SHALL BE MONITORED.

4. EXHAUST FANS ASSOCIATED WITH HOSE REELS SHALL BE MANUALLY STARTED.
   A. UPON ACTIVATION OF A HOSE REEL FAN, MUA-1BG VSD SHALL INCREMENTALLY INCREASE ITS OUTPUT TO MEET 90% OF THE COMBINED EXHAUST AIRFLOW QUANTITY. THE REVERSE SHALL OCCUR AS HOSE REEL FANS ARE TURNED OFF.

5. UNOCCUPIED MODE:
   A. CLOSE OUTSIDE AIR AND EXHAUST AIR DAMPERS, DISABLE MUA-1BG AND F-1BG.
   B. UPON A FALL IN SPACE TEMPERATURE AS SENSED BY ITS RESPECTIVE THERMOSTAT, ENABLE UNIT HEATER AND OPEN GAS BURNER VALVE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE SETPOINT.

6. ALARMS AND SAFETIES:
   A. THE CONTROLLER SHALL MONITOR FILTER STATUS. ALARM IF DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).
   B. HIGH SUPPLY AIR TEMPERATURE: IF SUPPLY AIR TEMPERATURE IS GREATER THAN 120 DEG. F. (ADJ.).
   C. LOW SUPPLY AIR TEMPERATURE: IF SUPPLY AIR TEMPERATURE IS LESS THAN 45 DEG. F. (ADJ.).
   D. CARBON MONOXIDE SENSOR: ALARM IF CO LEVEL IS GREATER THAN 700 PPM FOR FIVE MINUTES (ADJ.).

8 Garage Ventilation System Control
NTS

CONTROL SYMBOL LEGEND

- S/S START/STOP
- ST STATUS
- DM DAMPER MOTOR
- ES END SWITCH
- TS TEMPERATURE SENSOR
- AO ANALOG OUTPUT
- AI ANALOG INPUT
- DO DIGITAL OUTPUT
- DI DIGITAL INPUT
- VFD VARIABLE SPEED DRIVE
- ΔP DIFF. PRESS. SENSOR
- CONTACT (NO OR NC)
- PB PUSHBUTTON STARTER

S.E.D. Control No. 48-01-01-06-5-010-009

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

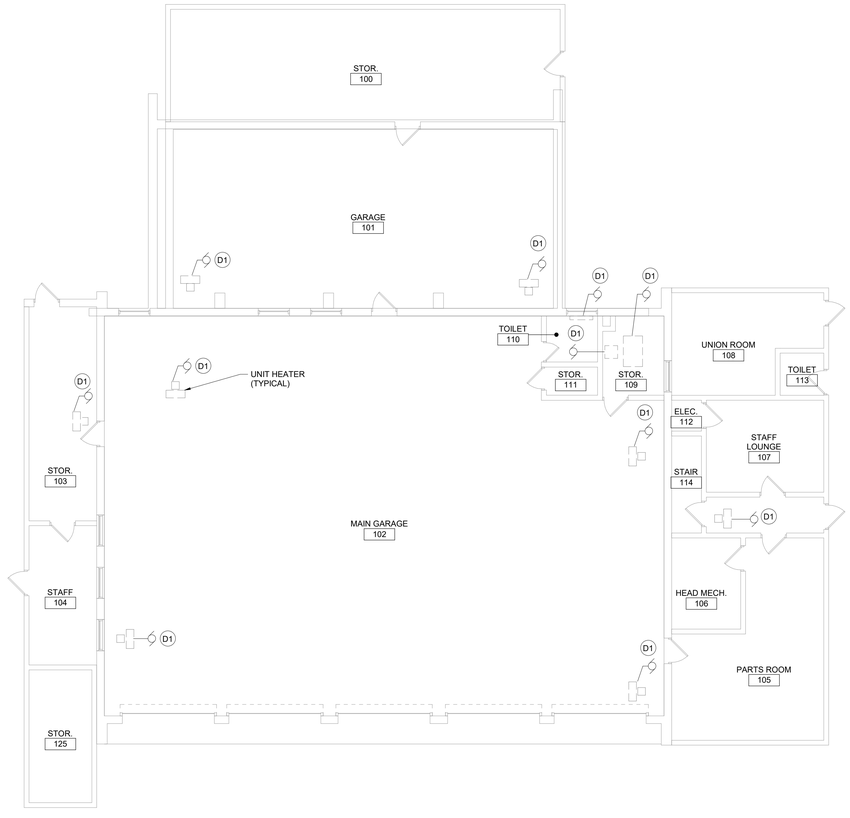
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Bus Garage

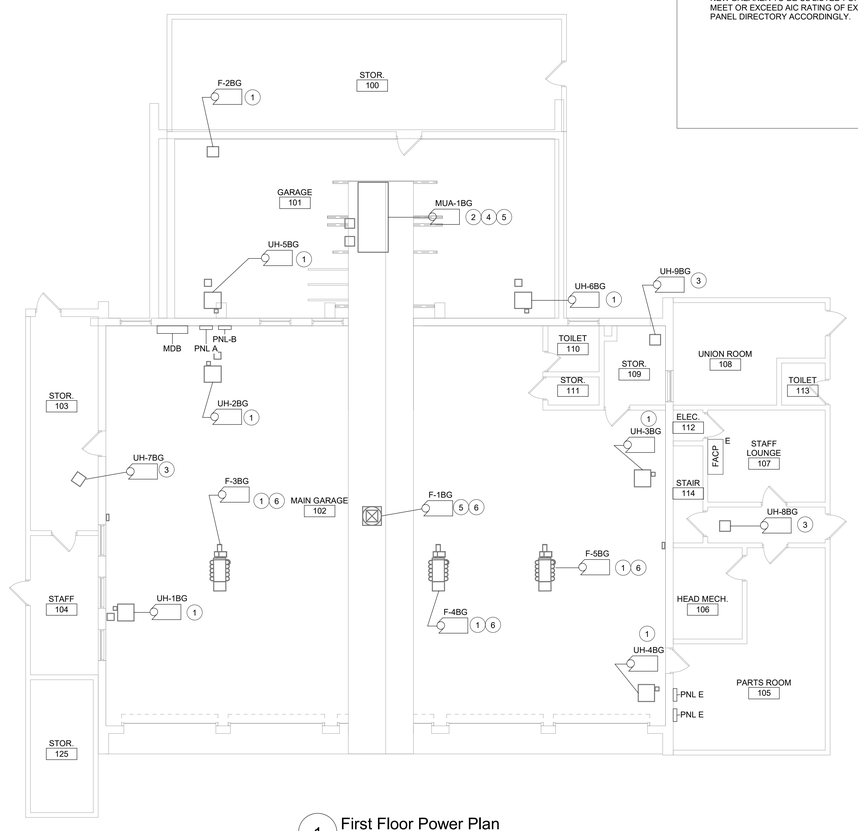
Schedules, Details and Controls

Drawn By:	Date:	Drawing Number:
DPM	8/21/20	GM131

Project No.: 121111-19002



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



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

Keyed Demolition Notes

D1 DISCONNECT AND REMOVE POWER CIRCUTRY SERVING HVAC EQUIPMENT INDICATED COMPLETE BACK TO SOURCE. LABEL UNSUED CIRCUIT BREAKERS AS "SPARE". COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.

Keyed Notes

1. PROVIDE 20A1P BREAKER IN AVAILABLE SPACE IN PANEL PNL-B. CONNECT USING (2)#12 (1)#12G IN 3/4" CONDUIT. NEW BREAKER TO BE UL LISTED FOR USE IN PANEL AND MEET OR EXCEED AIC RATING OF EXISTING PANEL. AMEND PANEL DIRECTORY ACCORDINGLY.
2. PROVIDE 20A3P BREAKER IN AVAILABLE SPACE IN PANEL PNL-A. CONNECT USING (3)#12 (1)#12G IN 3/4" CONDUIT. NEW BREAKER TO BE UL LISTED FOR USE IN PANEL AND MEET OR EXCEED AIC RATING OF EXISTING PANEL. AMEND PANEL DIRECTORY ACCORDINGLY.
3. PROVIDE 20A2P BREAKER IN AVAILABLE SPACE IN PANEL PNL-B. CONNECT USING (2)#12 (1)#12G IN 3/4" CONDUIT. NEW BREAKER TO BE UL LISTED FOR USE IN PANEL AND MEET OR EXCEED AIC RATING OF EXISTING PANEL. AMEND PANEL DIRECTORY ACCORDINGLY.
4. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AND RETURN DUCTS OF HVAC UNIT. REMOTE TEST/RESET SWITCH TO BE LOCATED ON ACCESSSIBLE WALL NEAR UNIT.
5. PROVIDE FIRE ALARM FAN SHUT DOWN CIRCUIT CONNECTED TO CONTROL CIRCUIT OF STARTER FOR HVAC UNIT.
6. PROVIDE 20A3P BREAKER IN AVAILABLE SPACE IN PANEL PNL-B. CONNECT USING (2)#10, (1)#10G IN 3/4" CONDUIT. NEW BREAKER TO BE UL LISTED FOR USE IN PANEL AND MEET OR EXCEED AIC RATING OF EXISTING PANEL. AMEND PANEL DIRECTORY ACCORDINGLY.

General Notes

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

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

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

D. CIRCUIT WIRING FOR ALL LIGHTING CIRCUITS SHALL BE IN 1/2" EMT CONDUIT (MIN) OR TYPE MC CABLE CONCEALED ABOVE CEILINGS AND IN WALLS (REFER TO SPECIFICATION SECTION 26 05 33 FOR LOCATIONS WHERE MC CABLE IS ACCEPTABLE). ALL CIRCUIT CONDUCTORS SHALL BE #12AWG COPPER (MIN) 90° C THHN THERMOPLASTIC INSULATION.

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

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

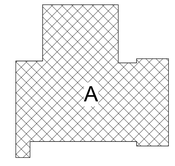
G. UNLESS NOTED ELSEWHERE ON THE CONTRACT DOCUMENTS, THE FOLLOWING LIST REPRESENTS THE TYPICAL MOUNTING HEIGHTS FOR THE DEVICES SHOWN:
a. SWITCHES AND PANIC STATIONS.....48" (TO TOP)
b. RECEPTACLES.....16"
c. COMPUTER RECEPTACLES.....16"
d. WALL (W) TELEPHONE AND/OR CALL SWITCHES....48" (TO TOP)
e. TELEPHONE OUTLETS (UNLABELED).....16"
f. VOLUME CONTROLS.....48" (TO TOP)
g. TELEVISION OUTLETS.....16"
h. FIRE ALARM PULL STATIONS.....48" (TO TOP)
i. FIRE ALARM AUDIO VISUAL UNITS.....88"
*(OR 6" BELOW CEILING, WHICHEVER IS LOWER)
j. POWER PANELS.....72" (TO TOP)
k. DISCONNECT SWITCHES.....60" (TO TOP)
l. MOTOR STARTERS.....60" (TO TOP)

THE HEIGHTS INDICATED SHALL BE NOMINAL TO THE BOTTOM OF THE BOX UNLESS NOTED OTHERWISE.

H. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.

K. ALL CIRCUIT BREAKERS ADDED TO EXISTING PANELBOARDS SHALL BE LISTED/LABELED FOR USE WITH EXISTING PANELBOARDS AND BE EQUAL OR GREATER THAN THE PANEL'S AIC.

J. WIRE (2) CO DETECTORS PROVIDED BY OTHERS TO THE FIRE ALARM CONTROL PANEL.



Key Plan
N.T.S.

N

S.E.D. Control No. 48-01-01-06-5-010-009

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Bus Garage

First Floor Demolition and Power Plans

Drawn By:	Date:	Drawing Number:
CR	8/21/20	GE160

Project No.:
121111-19002

STRUCTURAL LOADS NOTES

A. LIVE LOADS PER BCNYS 1607

OCCUPANCY OR USE	UNIFORM
MECHANICAL ROOMS	100 PSF

REDUCTION IN LIVE LOADS HAS BEEN APPLIED WHERE PERMITTED PER 1607.11

B. ROOF 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 SURCHARGE LOAD HAS BEEN APPLIED TO AREAS WHERE PONDING OCCURS IN ACCORDANCE WITH IBC SECTION 1611.

D. SNOW LOADS PER BCNYS 1608

GROUND SNOW LOAD, Pg (FIGURE 1608.2)	30 PSF
FLAT ROOF SNOW LOAD, Pf (ASCE 7)	23 PSF
SNOW EXPOSURE FACTOR, Ce	1.0
SNOW LOAD IMPORTANCE FACTOR, Is	1.1
THERMAL FACTOR, Ct	1.0
SLOPE FACTOR, Cs	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	120 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, Vasd	93 MPH
RISK CATEGORY	I I I
EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT, GCPi	+/- 0.18

F. SEISMIC DESIGN CRITERIA PER BCNYS 1613

RISK CATEGORY	I I I
SEISMIC IMPORTANCE FACTOR, Ie	1.25
MAPPED SPECTRAL RESPONSE ACCELERATION	
AT SHORT PERIODS, Ss	23.3%g
AT 1 SECOND PERIOD, S1	6.9%g
SITE CLASS	D
DESIGN SPECTRAL RESPONSE ACCELERATION	
AT SHORT PERIODS, Sds	24.9%g
AT 1 SECOND PERIOD, Sd1	11.0%g
SEISMIC DESIGN CATEGORY	B

BASIC SEISMIC-FORCE RESISTING SYSTEM:
(WITH CORRESPONDING RESPONSE MODIFICATION FACTOR, R AND SEISMIC RESPONSE COEFFCIENT, Cs)

1. MOMENT-RESISTING FRAME SYSTEM (TRANSVERSE)
   a. ORDINARY STEEL MOMENT FRAMES
      R = 3.5, Cs = 0.089
2. BRACE-ROD FRAME SYSTEM (LONGITUDINAL)
   b. ORDINARY STEEL CONCENTRICALLY BRACED FRAMES
      R = 3.25, Cs = 0.096

MOMENT-FRAME SYSTEM (TRANSVERSE) DESIGN BASE SHEAR, V: 2.4 KIPS
BRACE-ROD SYSTEM (LONGITUDINAL) DESIGN BASE SHEAR, V: 2.6 KIPS
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

UL DESIGN NUMBERS:

BEAMS	UL# S721
BAR JOISTS	UL# D902
COMPOSITE SLAB	UL# D902
COLUMNS	UL# X528
1 HR. STUD PARTITIONS	UL# U465
2 HR. STUD PARTITIONS	UL# U411
3 HR. SHAFT WALL PARTITIONS	UL# U415
1 HR. BLOCK PARTITIONS	UL# U905
2 HR. BLOCK PARTITIONS	UL# U905
3 HR. BLOCK PARTITIONS	UL# U904
ROOF ASSEMBLY	UL# S721

NOTES:
1. RATING PROVIDED BY 4" SOLID CONCRETE MASONRY UNITS - DETERMINATION OF EQUIVALENT THICKNESS OF CMU REQUIRED IS BASED ON SECTION 721 PRESCRIPTIVE FIRE RESISTANCE, TABLE 721.1 (2) RATED FIRE RESISTANCE PERIODS FOR VARIOUS WALLS AND PARTITIONS, ITEM NUMBER 3-1.2

2. ALL CMU CONSTRUCTION SHALL MEET FIRE RESISTANCE REQUIREMENTS INDICATED IN CHART OF SAME NAME ABOVE, BLOCK TYPE AS REQUIRED TO COMPLY WITH UL DESIGN NUMBERS AND AS REQUIRED TO COMPLY WITH RATED WALLS INDICATED ON CODE COMPLIANCE DRAWINGS. PROVIDE MINIMUM 4" SOLID CMU AT SUCH LOCATIONS REGARDLESS IF NOTED AS SUCH ON PLAN DETAILS.

Code Compliance Review

PROJECT LOCATION:
421 Baldwin Place Road, Mahopac, New York 10541

THIS IS A NEW BUILDING BOUND TO THE NORTH BY MAHOPAC MIDDLE SCHOOL, BOUND TO THE SOUTH BY MAHOPAC HIGH SCHOOL AND BOUND TO THE EAST AND WEST BY ATHLETIC FIELDS OWNED BY THE SCHOOL DISTRICT.

PROJECT DESCRIPTION:
THIS IS A NEW PUMP HOUSE BUILDING DESIGNED TO HOUSE THE DISTRICTS MAIN WATER SUPPLY PUMP EQUIPMENT. THE BUILDING IS APPROXIMATELY 20'-0" X 34'-0".

WORK GENERALLY CONSISTS OF THE FOLLOWING:
- NEW BUILDING CONTAINING PLUMBING EQUIPMENT AND MINIMAL HEATING EQUIPMENT.

APPLICABLE CODES (AND STANDARDS):

BASED ON THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE INCLUDING APPLICABLE 2018 ICC CODES, 2020 BUILDING CODE of NYS INCLUDING THE 2020 BCNYS, 2020 EBCNYS AND 2020 ECCNYS, ICC A117.1-09 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES AND COMMISSIONER OF EDUCATIONS 155 REGULATIONS (SED MPS-98).

BUILDING DATA:

BUILDING:	MAHOPAC PUMP HOUSE 421 BALDWIN PLACE ROAD MAHOPAC, NY 10541
DESCRIPTION:	ONE STORY PRE-ENGINEERED METAL BUILDING
YEAR BUILT:	NEW BUILDING
BUILDING AREA:	1ST FLOOR 605 SQFT TOTAL GROSS AREA= 605SQFT

CODE DATA SUMMARY:

USE GROUP:	U: UTILITY
CONSTRUCTION TYPE -	
NEW:	IIB
FIRE SAFETY:	IS AN AUTOMATIC SPRINKLER SYSTEM PROVIDED. REFER TO BUILDING AREA DATA BELOW FOR SPECIFIC AREAS PROVIDED. NO

WORK AREA:

LOCATION	AREA	% OF TOTAL
1ST FLOOR	605 SQFT	100%

CORRIDOR DOORS:	NA

PATH OF CODE COMPLIANCE:

BASED ON THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE INCLUDING APPLICABLE 2018 ICC CODES, 2020 BUILDING CODE of NYS INCLUDING THE 2020 BCNYS, 2020 EBCNYS AND 2020 ECCNYS, ICC A117.1-09 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES AND COMMISSIONER OF EDUCATIONS 155 REGULATIONS (SED MPS-98).

ACCESSIBLE ROUTE AND ACCESSIBLE ENTRANCES:
FOR EXTERIOR ACCESSIBLE ROUTE AND ACCESSIBLE ENTRANCES - SEE HA100.

EXIT TRAVEL DISTANCE (PER TABLE 1017.2):
FOR EXIT TRAVEL DISTANCE - SEE HA100.

STAIR AND OTHER EXIT WIDTH CALCULATIONS (PER 1005.3.1 AND 1005.3.2):
FOR EXIT TRAVEL DISTANCE - SEE HA100.

MAXIMUM BUILDING AREA PER TABLE 506.2

Building Number	Const Type	Aa (sf)	Occupancy Group #1	#2	#3	Stories	Max. Building Area	Lower Flr. Area	1st Flr. Area	2nd Flr. Area	3rd Flr. Area	4th Flr. Area	Actual Bldg. Area	OK
B1	IIB		U	-	-	1	8,500	-	605	-	-	-	605	OK

REFER TO BUILDING AREA KEY PLAN ON DRAWING CC-___
PENC = PRE-EXISTING NON-CONFORMING CONDITION

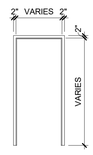
MAXIMUM BUILDING HEIGHT IN FEET PER TABLE 504.3 AND IN STORIES PER TABLE 504.4

Building Number	Const. Type	Occupancy Group #1	#2	#3	Full Sprinkler System	Tabular Stories	Tabular Feet	Allowable Stories	Allowable Feet	Actual Stories	Actual Feet	OK
B1	IIB	U	-	-	NS	1	16'-8"	2	55	1	16'-8"	OK

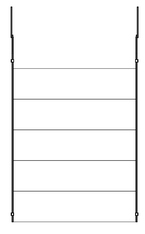
A = ACTUAL AREA OF PROTECTED OPENINGS
a = ALLOWABLE AREA OF PROTECTED OPENINGS
A_u = ACTUAL AREA OF UNPROTECTED OPENINGS
a_u = ALLOWABLE AREA OF UNPROTECTED OPENINGS
NP = NOT PERMITTED
NL= NO LIMIT

IF THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM THEN THE SEPARATION DISTANCE FOR UNPROTECTED OPENINGS MAY BE INCREASED, REFER TO 704.8.1

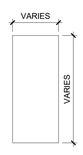
SEE ELEVATIONS FOR LOCATION OF EXTERIOR WALL OPENINGS.



F2



SD5-0-0



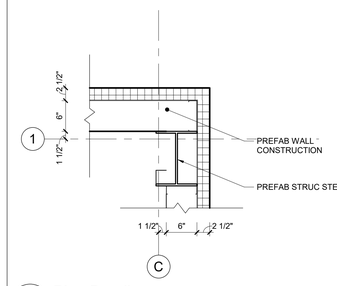
F

FRAME TYPE
1/4" = 1'-0"

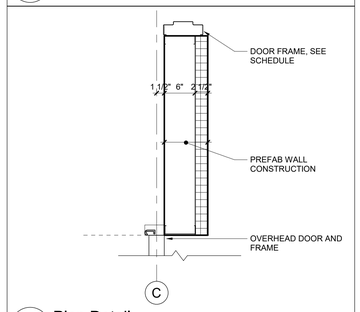
DOOR TYPES
1/4" = 1'-0"

Door Schedule

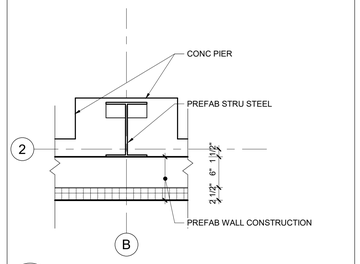
ROOM NUMBER	DOOR NUMBER	DOOR TYPE	DOOR MATERIAL	DOOR WIDTH	DOOR HEIGHT	DOOR RATING	DOOR GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME WIDTH	FRAME HEIGHT	FRAME RATING	FRAME GLAZING	HEAD	JAMB	SILL	HDW SET	REMARKS
1st FLOOR																		
100	1	F	HM	3' - 0"	7' - 0"	-	-	F2	HM	3' - 4"	7' - 2"	-	-				3	
100	2	SD5-0-0	HM	8' - 0"	10' - 0"	-	-	-	STL	8' - 0"	10' - 0"	-	-					



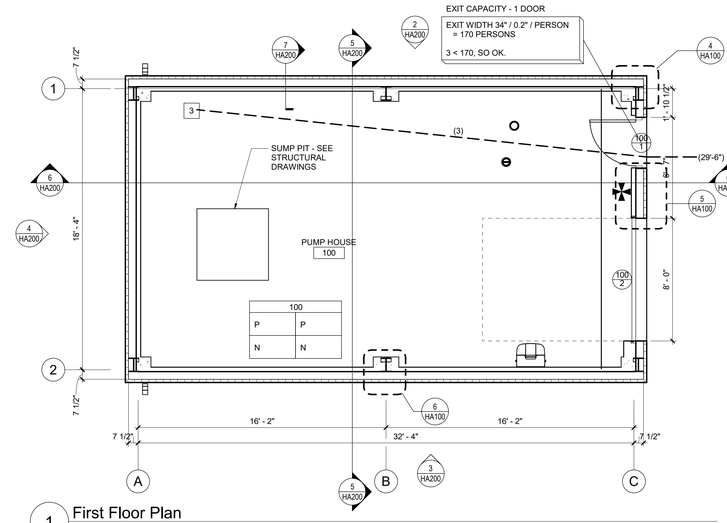
4 Plan Detail
1" = 1'-0"



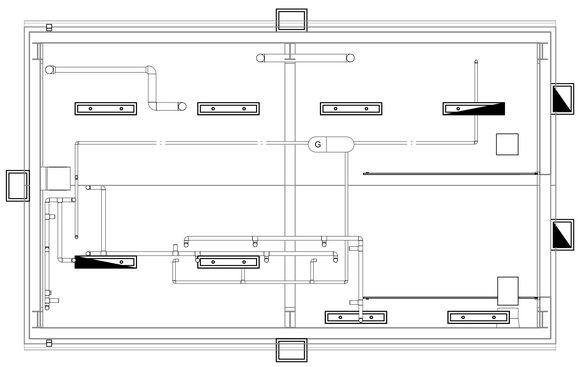
5 Plan Detail
1" = 1'-0"



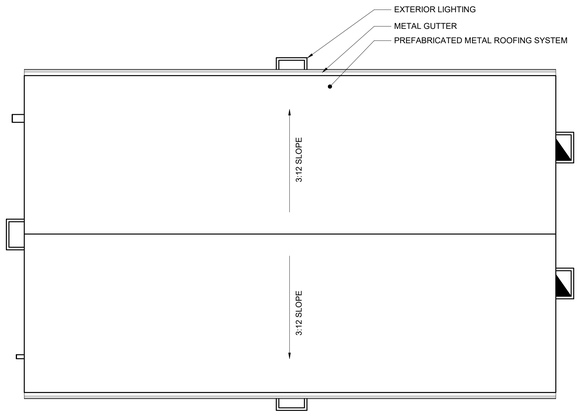
6 Plan Detail
1" = 1'-0"



1 First Floor Plan
1/4" = 1'-0"



2 First Floor Reflected Ceiling Plan
1/4" = 1'-0"



3 Roof Plan
1/4" = 1'-0"

General Plan Notes

A. ALL EXTERIOR WALLS SHALL BE OF PREFABRICATED CONSTRUCTION. EXTERIOR WALLS TO BE 6" STRUCTURAL FRAMING AND 2 1/2" PREFINISHED INSULATED METAL PANELING

Ceiling Types

G X'-X" UNPAINTED EXPOSED STRUCTURAL SYSTEM, SUPPORT MATERIALS AND FASTENERS, MECHANICAL SYSTEM, ELECTRICAL ITEMS AND PIPING

General Ceiling Notes

A. LIGHTING AND OTHER CEILING-MOUNTED FIXTURES ARE SHOWN FOR DRAWING CLARITY. COORDINATE LOCATIONS OF MECHANICAL, ELECTRICAL AND PLUMBING DEVICES ABOVE FINISHED FLOOR.

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.

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

C. PAINT ALL HM DOORS AND FRAMES IN ACCORDANCE W/ SECTION 09900.

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

Legend

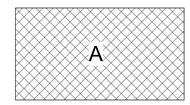
COMMON EGRESS PATH

XX NUMBER OF OCCUPANTS IN EACH SPACE, UNO

(XX) NUMBER OF OCCUPANTS ALONG EGRESS PATH

XX'-XX" TOTAL EGRESS DISTANCE PER PATH

NEW FIRE EXTINGUISHER LOCATION



Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-7-026-001

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

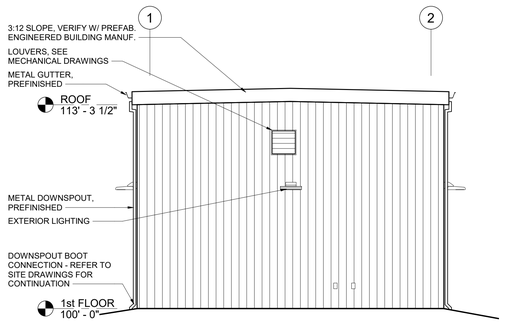
Mahopac Central School District
Mahopac, NY

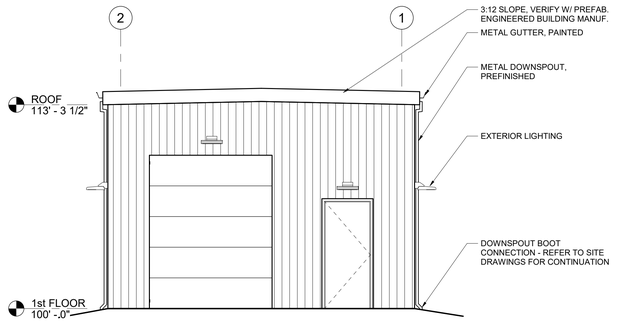
New:
Mahopac Pump House

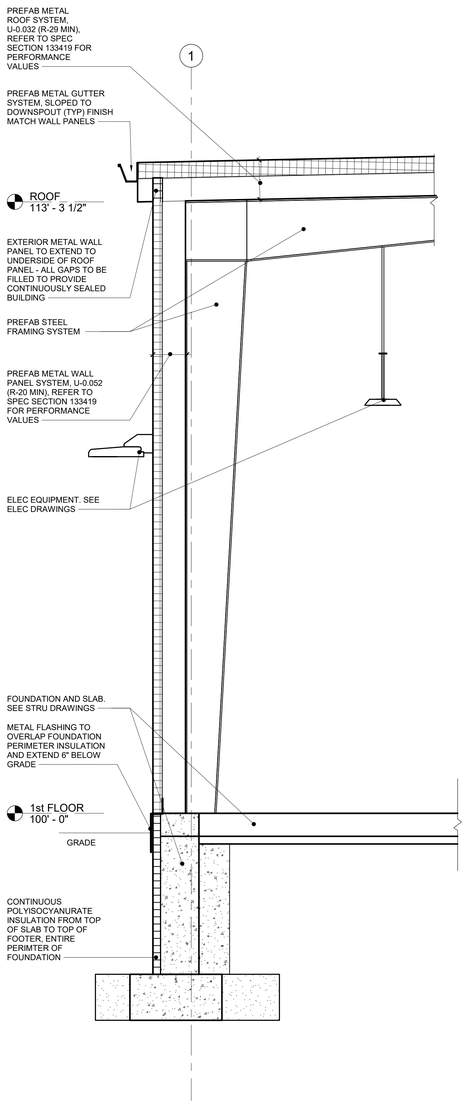
First Floor, Reflected Ceiling and Roof Plans

Drawn By:	Date:	Drawing Number:
TS	08/21/20	HA100

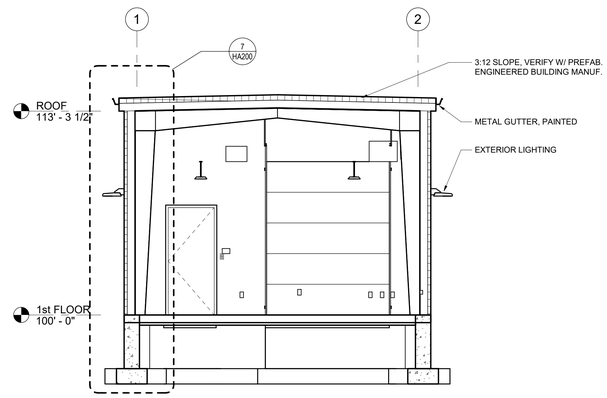
Project No.: 121111-19002





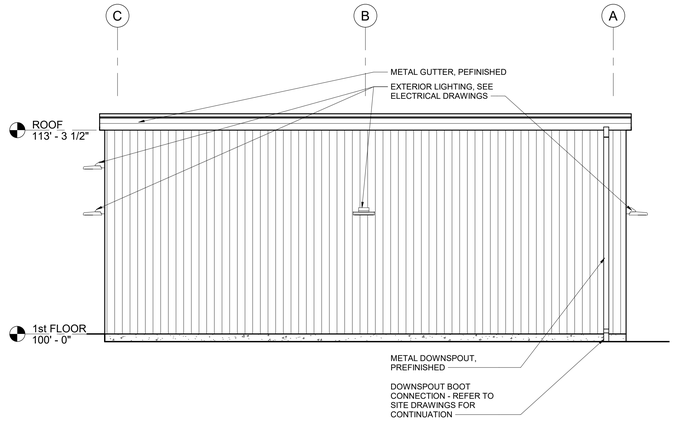


7 Wall Section 1
3/4" = 1'-0"



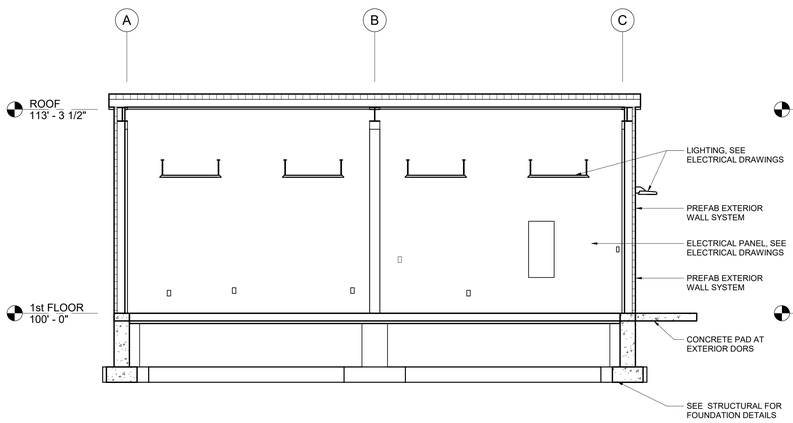
4 West Elevation
1/4" = 1'-0"

5 Building Section
1/4" = 1'-0"

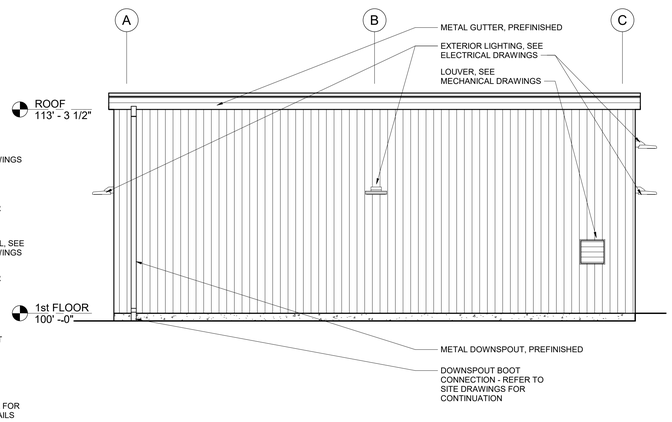


1 East Elevation
1/4" = 1'-0"

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



6 Building Section
1/4" = 1'-0"



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

General Elevation Notes

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

B. PAINT ALL EXPOSED STEEL LINTELS ACCENT COLOR SELECTED BY ARCHITECT.

A

Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-7-026-001

Rev. No.:	Date:	Description:

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

BID SET

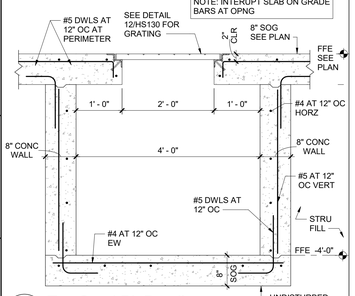
TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

New:
Mahopac Pump House

Exterior Elevations and Building Sections

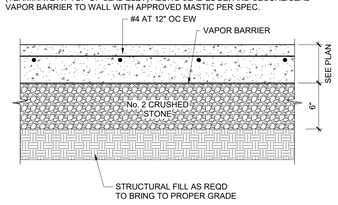
Drawn By:	Date:	Drawing Number:
TS	08/21/20	HA200
Project No.: 121111-19002		



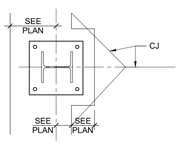
10 Typ Sand Pit Detail
3/4" = 1'-0"

- SAW CUT CONTROL JOINTS WITHIN 12 HOURS OF CASTING SLAB
- JOINTS TO BE SPACED 15 FEET OC MAXIMUM OR AS NOTED ON PLAN
- VAPOR BARRIER TO BE CONTINUOUS AND OVERLAPPED NOT LESS THAN 6" AT ALL SEAMS. TAPE ALL SEAMS. ALL PENETRATIONS IN SLAB ARE TO BE SEALED PER DETAIL 9/HS130.

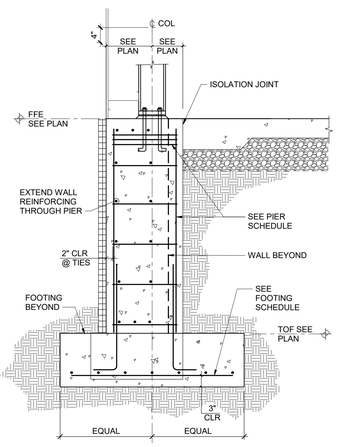
- EXTEND VAPOR BARRIER UP THE FACE OF EXTERIOR FOUNDATION WALLS (TERMINATE AT TOP OF SLAB ELEV) ALONG SLAB EDGE, AND SECURE/SEAL VAPOR BARRIER TO WALL WITH APPROVED MASTIC PER SPEC.



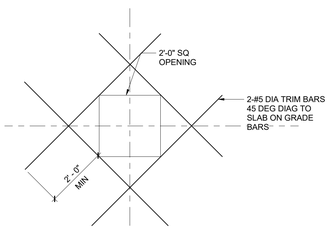
5 Typical Slab on Grade
1 1/2" = 1'-0"



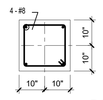
PLAN AT EXTERIOR WALL



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



11 Typ Reinf Around Pit Opng
1/2" = 1'-0"

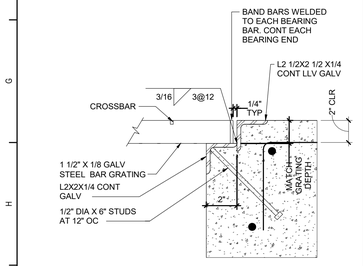


P1

1. PIER SIZE LISTED ABOVE INDICATED AREA OF CONCRETE TO BE REINFORCED.
2. REFER TO TYPICAL PIER DETAIL 2/HS130- TYP UNO
3. AT PIERS WHICH OCCUR IN WALLS, RUN WALL REINFORCING THROUGH PIER.
4. PIER AND REINF TO BE CENTERED ON COLUMN INTERSECTION UNO.
5. PROVIDE 3-#3 HORZ TIES WITHIN TOP 0'-5", AND #3 TIES AT 12" OC FOR REMAINDER, UNO.

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

SEE PLAN FOR SPAN DIRECTION, PANEL SIZE, AND OPENINGS.



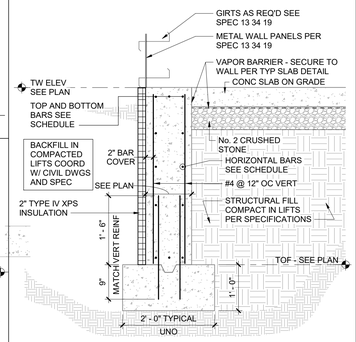
12 Typ Grating Support Section
3" = 1'-0"

FTG MARK	FOOTING SIZE	THICK-NESS	MAT BARS EACH WAY		
			QUANTITY OF BARS	BAR SIZE	SPACING c/c (in)
F3	3'-0" X 3'-0"	12"	4	#4	10.0
F4	4'-0" X 4'-0"	12"	5	#4	10.0

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

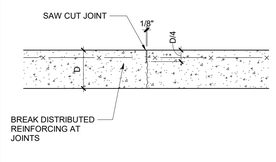
7 Typ Spread Footing Reinforcement
1/2" = 1'-0"

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



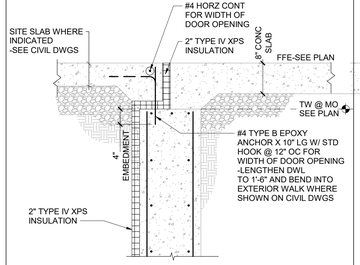
REFER TO TYPICAL DETAILS FOR ADDITIONAL REINFORCING REQUIRED AT FOOTING STEPS, CORNERS AND INTERSECTIONS.

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

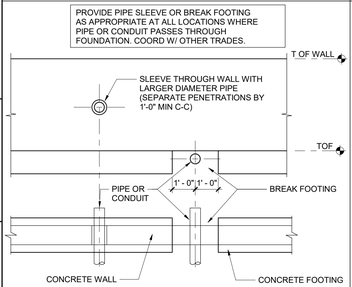


1. SAW CUT CONTROL JOINTS WITHIN 12 HOURS OF CASTING SLAB.
2. JOINTS TO BE SPACED 15 FEET OC MAXIMUM OR AS NOTED ON PLAN
3. FILL JOINTS IN SLABS PERMANENTLY EXPOSED TO PUBLIC VIEW WITH SLAB CONTROL JOINT SEALER (SEE DIV 03 SPEC) AFTER CONCRETE HAS REACHED A STABLE, DRY CONDITION. JOINTS NOT EXPOSED TO PUBLIC VIEW ARE TO BE PREPARED AS REQUIRED TO APPLY THE FLOOR FINISH MATERIAL.

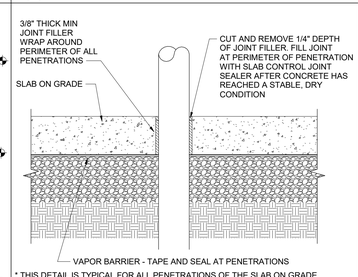
13 Typical Slab Control Joint
1 1/2" = 1'-0"



8 Typical Threshold Detail
3/4" = 1'-0"

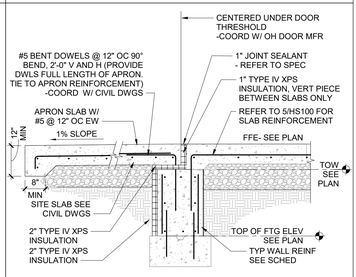


14 Typ Pipe Through Footing and Wall
3/8" = 1'-0"



* THIS DETAIL IS TYPICAL FOR ALL PENETRATIONS OF THE SLAB ON GRADE, INCLUDING BUT NOT LIMITED TO PIPING, CONDUITS, COLUMNS, AND MASONRY. CONTRACTOR IS TO PROVIDE AND INSTALL BOTH JOINT FILLER AND SEALANT.

9 Typical Slab Penetrations
1 1/2" = 1'-0"



4 Typ Apron Slab at OH Door
1/2" = 1'-0"

FOUNDATION NOTES

A. MATERIAL

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

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

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

B. INSTALLATION

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

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

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

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

STRUCTURAL LOADS NOTES

A. LIVE LOADS PER BCNYS 1607

OCCUPANCY OR USE	UNIFORM
MECHANICAL ROOMS	100 PSF

REDUCTION IN LIVE LOADS HAS BEEN APPLIED WHERE PERMITTED PER 1607.11

B. ROOF 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 SURCHARGE LOAD HAS BEEN APPLIED TO AREAS WHERE PONDING OCCURS IN ACCORDANCE WITH IBC SECTION 1611.

D. SNOW LOADS PER BCNYS 1608

GROUND SNOW LOAD, Pg (FIGURE 1608.2)	30 PSF
FLAT ROOF SNOW LOAD, Pf (ASCE 7)	23 PSF
SNOW EXPOSURE FACTOR, Ce	1.0
SNOW LOAD IMPORTANCE FACTOR, Is	1.1
THERMAL FACTOR, Ct	1.0
SLOPE FACTOR, Cs	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

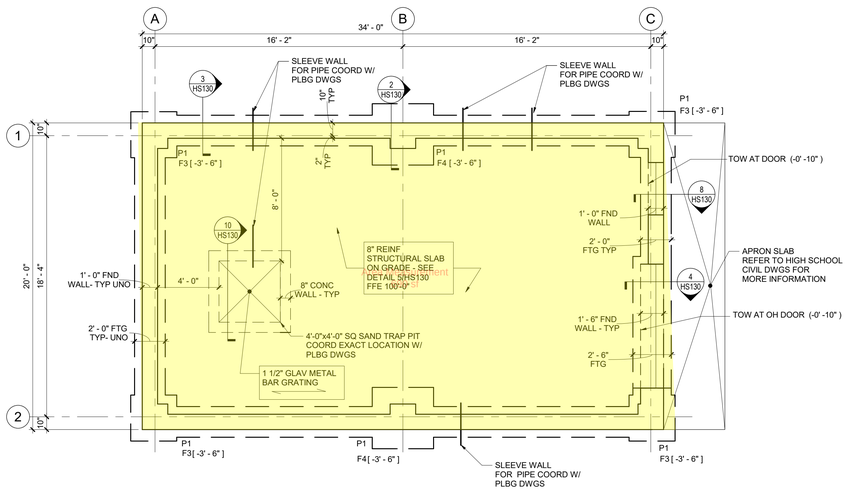
BASIC DESIGN WIND SPEED (3 SECOND GUST), V	120 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, Vasd	93 MPH
RISK CATEGORY	I I I
EXPOSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT, GCPi	+/- 0.18

F. SEISMIC DESIGN CRITERIA PER BCNYS 1613

RISK CATEGORY	I I I
SEISMIC IMPORTANCE FACTOR, Ie	1.25
MAPPED SPECTRAL RESPONSE ACCELERATION	
AT SHORT PERIODS, Ss	23.3%g
AT 1 SECOND PERIOD, S1	6.9%g
SITE CLASS	D
DESIGN SPECTRAL RESPONSE ACCELERATION	
AT SHORT PERIODS, Sds	24.9%g
AT 1 SECOND PERIOD, Sd1	11.0%g
SEISMIC DESIGN CATEGORY	B

BASIC SEISMIC-FORCE RESISTING SYSTEM:
(WITH CORRESPONDING RESPONSE MODIFICATION FACTOR, R AND SEISMIC RESPONSE COEFFICIENT, Cs)
1. MOMENT-RESISTING FRAME SYSTEM (TRANSVERSE)
   a. ORDINARY STEEL MOMENT FRAMES
      R = 3.5, Cs = 0.089
2. BRACE-ROD FRAME SYSTEM (LONGITUDINAL)
   b. ORDINARY STEEL CONCENTRICALLY BRACED FRAMES
      R = 3.25, Cs = 0.096

MOMENT-FRAME SYSTEM (TRANSVERSE) DESIGN BASE SHEAR, V: 2.4 KIPS
BRACE-ROD SYSTEM (LONGITUDINAL) DESIGN BASE SHEAR, V: 2.6 KIPS
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE



1 Foundation Plan
1/4" = 1'-0"

NOTE:

THE FOUNDATION DESIGN (INCLUDING ANCHOR BOLT DESIGN) IS BASED ON PRELIMINARY DESIGN DATA AND IS SUBJECT TO CHANGE ACCORDING TO FINAL DESIGN DATA OBTAINED FROM THE PRE-ENGINEERED BUILDING MANUFACTURER

CONTRACTOR TO COORDINATE PRE-ENGINEERED BUILDING REQUIREMENTS WITH ARCH TO DETERMINE IF ANY MODIFICATIONS TO FOUNDATION AND/OR ANCHOR BOLTS ARE REQUIRED.

THE PRE-ENGINEERED BUILDING SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED PRIOR TO SUBMISSION OF FOUNDATION SHOP DRAWINGS TO ALLOW FOR POSSIBLE MODIFICATION TO THE FOUNDATION DESIGN.

CONTRACTOR TO COORDINATE DIMENSIONS WITH ARCH DRAWINGS AND PRE-ENGINEERED BUILDING MANUFACTURER

NOTES

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

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

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

4. TOP OF WALL ELEVATION IS AT DATUM ELEVATION 100'-0", UNLESS INDICATED AS [-XX'-XX] ON PLAN.

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

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

7. TOP OF PIER ELEVATION IS AT DATUM ELEVATION.

8. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF MASONRY OPENINGS AT DOORS IN EXTERIOR WALLS FOR RECESS IN TOP OF FOUNDATION WALL.

9. FINISHED FLOOR DATUM ELEVATION OF 100'-0", AS SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS, CORRESPONDS TO ELEVATION 638.50', AS SHOWN ON SITE AND SURVEY DRAWINGS.

10. ALL SLABS ON GRADE ARE TO BE 6" THICK, 3500 PSI FIBER REINFORCED CONCRETE UNLESS OTHERWISE NOTED ON PLANS.

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Key Plan
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S.E.D. Control No. 48-01-01-06-7-026-001

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

New:
Mahopac Pump House

Foundation Plan and Details

Drawn By:	Date:	Drawing Number:
DJB/wjs	08/21/20	HS130
Project No.: 121111-19002		

FAN (F) SCHEDULE

TAG	LOCATION	MODEL	MANUFACTURER	AIRFLOW (CFM)	SONES	FAN DATA				ELECTRICAL		NOTES
						ESP (IN WG)	DRIVE	MOTOR RPM	HP	VOLTAGE	PHASE	
F-1PH	PUMP HOUSE	120SQN-D	LOREN COOK	587	1.9	.13	DIRECT	1050	1/33	120	1	1,2,3

NOTES:
1. PROVIDE MANUFACTURER'S STANDARD DISCONNECT SWITCH.
2. PROVIDE MANUFACTURER'S STANDARD INLET SCREEN.
3. PROVIDE MANUFACTURER'S RECOMMENDED FAN VARIABLE SPEED CONTROLLER.

UNIT HEATER (UH) SCHEDULE

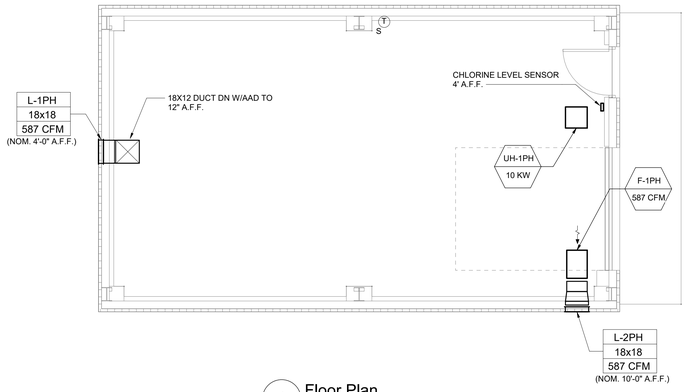
TAG	LOCATION	MODEL	MANUFACTURER	NOM. MOUNTING HEIGHT (FT.)	AIRSIDE DATA			CAPACITY		ELECTRICAL			NOTES
					EAT (°F)	LAT (°F)	AIRFLOW (CFM)	INPUT (MBH)	OUTPUT (MBH)	MCA	VOLTAGE	PHASE	
UH-1PH	PUMP HOUSE	EGHB-10AK2	REZNOR	10	60	107.0	700		10KW	40	208	1	1,2

NOTES:
1. PROVIDE FACTORY FURNISHED DISCONNECT SWITCH.
2. PROVIDE FACTORY FURNISHED MOUNTING HANGER BRACKET.

LOUVER (L) SCHEDULE

TAG	SERVES	MODEL	TYPE	WIDTH (IN)	HEIGHT (IN)	DEPTH (IN)	FREE AREA (S.F.)	AIRFLOW	VELOCITY (FPM)	MAX APD (IN WG)	NOTES
L-1PH	F-1PH	ELF375DXH	EXHAUST	18	18	4	.91	587 CFM	645	.075	1,2,3
L-2PH	PUMP HOUSE	ELF375DXH	INTAKE	18	18	4	.91	587 CFM	645	.085	1,2,3

NOTES:
1. DESIGN MAKE: RUSKIN
2. PROVIDE WITH ALUMINUM INSECT SCREEN.
3. ANODIZED FINISH. SUBMIT MANUFACTURER'S COLOR CHART FOR APPROVAL BY ARCHITECT.



1 Floor Plan
1/4" = 1'-0"

GENERAL NOTES:

1. THE FOLLOWING GENERAL NOTES APPLY TO ALL "HM" SERIES DRAWINGS.
2. REFER TO ALL CONTRACT DOCUMENTS; DRAWINGS AND SPECIFICATIONS, FOR DETAILED STANDARDS AND REQUIREMENTS.
3. REPORT UNSAFE OR UNSATISFACTORY CONDITIONS IN WRITING TO OWNER AND ENGINEER AND RESOLVE ISSUES BEFORE PROCEEDING.
4. WORK INCLUDES ALL LABOR AND MATERIALS REQUIRED TO PROVIDE COMPLETE WORKING SYSTEMS.
5. COORDINATE PHASING REQUIREMENTS AT JOB MEETINGS AND ON WORK SCHEDULES.
6. 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.
7. 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.
8. IF UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL CONFLICTS ARE ENCOUNTERED, INVESTIGATE AND REPORT BOTH NATURE AND EXTENT OF THE CONFLICT. RE-ROUTE WORK AS REQUIRED.
9. 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.
10. PATCH ALL DISTURBANCES RESULTING FROM DEMOLITION OR NEW WORK TO MATCH SURROUNDING SURFACES. PATCH FOLLOWING DEMOLITION, AND AGAIN FOLLOWING WORK. WHERE HOLES REMAIN FROM REMOVALS, INFILL AND PATCH TO MATCH UNLESS HOLE IS TO BE REUSED.
11. ALL EXCESS MATERIALS AND SCRAPS ARE CONTRACTOR'S PROPERTY. PROMPTLY REMOVE FROM SITE UNLESS SPECIFICALLY DIRECTED OTHERWISE.
12. BUILDING IS PRE-MANUFACTURED STEEL STRUCTURE. COORDINATE SIZES, LOCATIONS AND WEIGHTS OF EQUIPMENT AND LOUVERS. PROVIDE MOUNTING HARDWARE AS RECOMMENDED BY BUILDING MFR.

CONTROL SEQUENCE:

GENERAL: PROVIDE A LOCAL BMS CONTROLLER WITH GRAPHIC USER INTERFACE (GUI) FOR OPERATOR MONITORING, SCHEDULING, ALARMS AND TEMPERATURE SETPOINT ADJUSTMENT. LOCATE CONTROLLER/GUI IN LOCATION APPROVED BY OWNER. PROVIDE A WIRELESS ROUTER FOR COMMUNICATION TO DISTRICT BMS SYSTEM.

1. UNIT HEATER: UPON A DROP IN SPACE TEMPERATURE, ENERGIZE UNIT HEATER TO MAINTAIN HEATING SETPOINT OF 58 DEG. F. (ADJ.)
2. FAN F-1PH: THE FAN SHALL OPERATE CONTINUOUSLY AT HALF SPEED (293 CFM) INTAKE AND EXHAUST DAMPERS SHALL BE 100% OPEN. THE WALL MOUNTED CHLORINE SENSOR SHALL MONITOR CHLORINE LEVEL.
3. FAN F-1PH ALARM CONDITION: IF CHLORINE SENSOR MONITORS MASS CONCENTRATION LEVEL OF 500 PPM, INCREASE THE FAN SPEED TO 100% UNTIL MASS CONCENTRATION LEVEL FALLS TO A MAXIMUM OF 250 PPM. (ADJ.)

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S.E.D. Control No. 48-01-01-06-7-026-001

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

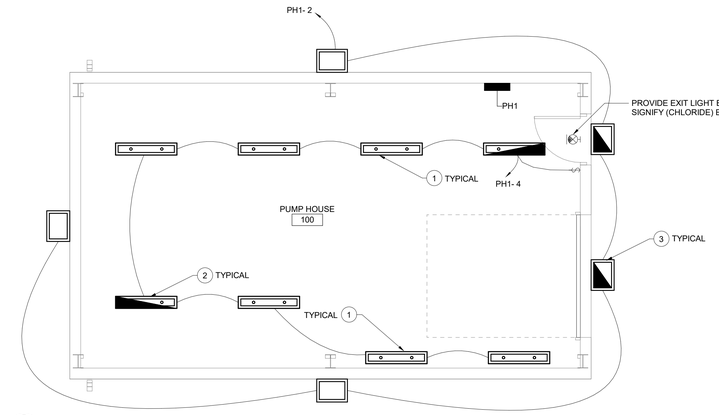
Mahopac Central School District
Mahopac, NY

New:
Mahopac Pump House

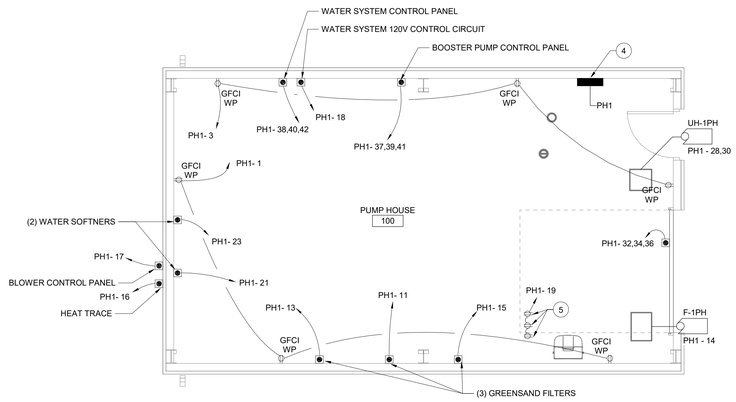
Floor Plan, Schedules, Details and Controls

Drawn By:	Date:	Drawing Number:
DPM/jtk	08/21/20	HM130

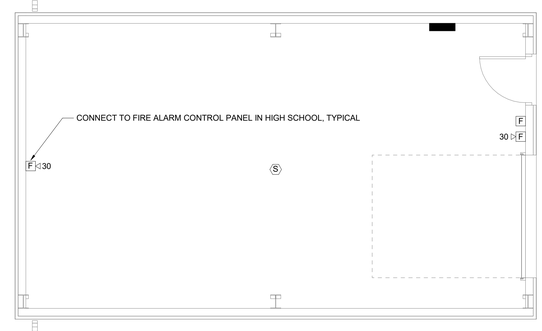
Project No.:
121111-19002



1 First Floor Lighting Plan
1/4" = 1'-0"



2 First Floor Power & Communications Plan
1/4" = 1'-0"



3 First Floor Fire Alarm Plan
1/4" = 1'-0"

PANELBOARD: PH1

Location: PUMP HOUSE 100 — Surface **MOUNTED** — 10,000 **SYM. A.I.C....** — **ENCLOSURE TYPE** Type 1

AMP MAIN (LUGS) OR 225 A **AMP MAIN BREAKER WITH** 225 A **AMP TRIP**

SE LABEL _____

208Y/120V VOLTS 3 **PHASE** 4 **WIRE** 60 **HERTZ** 225 A **AMP BUS**

CKT NO.	POLES	TRIP AMPS	WIRE AWG	# OF WIRES	GND. AWG	CONDUIT INCH	LOAD SERVED	A		B		C		LOAD SERVED	CONDUIT INCH	GND. AWG	# OF WIRES	WIRE AWG	TRIP AMPS	POLES	CKT NO.
1	1	20 A					RCPT: 100	540 VA	520 VA					LTG: EXTERIOR					20 A	1	2
3	1	20 A					RCPT: 100			540 VA	257 VA			LTG: 100					20 A	1	4
5	1	20 A	--	--	--	--	SPARE					0 VA	0 VA	SPARE	--	--	--	--	20 A	1	6
7	1	20 A	--	--	--	--	SPARE	0 VA	0 VA					SPARE	--	--	--	--	20 A	1	8
9	1	20 A	--	--	--	--	SPARE			0 VA	0 VA			SPARE	--	--	--	--	20 A	1	10
11	1	20 A					CONN: GREENSAND...					180 VA	0 VA	SPARE	--	--	--	--	20 A	1	12
13	1	20 A					CONN: GREENSAND...	180 VA	200 VA					F-1PH					20 A	1	14
15	1	20 A					CONN: GREENSAND...			180 VA	1176 VA			CONN: HEAT TRACE					20 A	1	16
17	1	20 A					CONN: BLOWER...					1176 VA	180 VA	CONN: WATER...					20 A	1	18
19	1	20 A					RCPT: PUMPS	540 VA	1000 VA					LTG: SITE LIGHTS					20 A	1	20
21	1	20 A					CONN: WATER...			180 VA	360 VA			RPCT: EXTERIOR					20 A	1	22
23	1	20 A					CONN: WATER...					180 VA	200 VA	CONN: SCOREBOARD					20 A	1	24
25	1	20 A					CONN: EXTERIOR...	200 VA	0 VA					SPARE	--	--	--	--	20 A	1	26
27	--	--	--	--	--	--	SPACE			0 VA	3328 VA										28
29	--	--	--	--	--	--	SPACE					0 VA	3328 VA	UH-1PH	1/2"	#10	3	#10	40 A	2	30
31								0 VA	60 VA												32
33	3	20 A	--	--	--	--	SPARE			0 VA	60 VA			ROLL DOOR					20 A	3	34
35												0 VA	60 VA								36
37								7337 VA	3694 VA												38
39	3	100 A	#2	4	#8	1-1/4"	CONN: PUMP CONTROL PANEL			7337 VA	3694 VA			CONN: WATER SYSTEM CONTROL PANEL	1"	#10	4	#6	60 A	3	40
41												7337 VA	3694 VA								42
							TOTAL CONNECTED LOAD PER PHASE...	14272 VA		17112 VA		16336 VA									
								A		**B**		**C**									

* -GFCI BREAKER ** -SHUNT TRIP BREAKER

TOTAL CONNECTED LOAD: 132 A

TOTAL CONNECTED LOAD: 47.720 kVA

-PROVIDE BREAKER AS REQUIRED BY PANELBOARD MANUFACTURER FOR...

SUPPLIED FROM: HIGH SCHOOL MDP

General Notes

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

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

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

D. CIRCUIT WIRING FOR ALL LIGHTING CIRCUITS SHALL BE IN 1/2" EMT CONDUIT (MIN) OR TYPE MC CABLE CONCEALED ABOVE CEILINGS AND IN WALLS (REFER TO SPECIFICATION SECTION 26 05 33 FOR LOCATIONS WHERE MC CABLE IS ACCEPTABLE). ALL CIRCUIT CONDUCTORS SHALL BE #12AWG COPPER (MIN) 90° C THHN THERMOPLASTIC INSULATION.

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

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

G. UNLESS NOTED ELSEWHERE ON THE CONTRACT DOCUMENTS, THE FOLLOWING LIST REPRESENTS THE TYPICAL MOUNTING HEIGHTS FOR THE DEVICES SHOWN:
a. SWITCHES AND PANIC STATIONS.....48" (TO TOP)
b. RECEPTACLES.....16"
c. COMPUTER RECEPTACLES.....16"
d. WALL (W) TELEPHONE AND/OR CALL SWITCHES....48" (TO TOP)
e. TELEPHONE OUTLETS (UNLABELED).....16"
f. VOLUME CONTROLS.....48" (TO TOP)
g. TELEVISION OUTLETS.....16"
h. FIRE ALARM PULL STATIONS.....48" (TO TOP)
i. FIRE ALARM AUDIO VISUAL UNITS.....88"
*(OR 6" BELOW CEILING, WHICHEVER IS LOWER)
j. POWER PANELS.....72" (TO TOP)

THE HEIGHTS INDICATED SHALL BE NOMINAL TO THE BOTTOM OF THE BOX UNLESS NOTED OTHERWISE.

H. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES.

I. WIRE EMERGENCY BATTERY PACKS AND EXIT LIGHTS TO UNSWITCHED LIGHTING CIRCUIT SUPPLYING SPACE SERVED BY EMERGENCY BATTERY PACK AND/OR EXIT LIGHT.

J. ALL CIRCUIT BREAKERS ADDED TO EXISTING PANELBOARDS SHALL BE UL LISTED/LABELED FOR USE WITH EXISTING PANELBOARDS.

Keyed Notes

1. PROVIDE LUMINAIRE THAT CAN BE SUSPENDED OR WALL MOUNTED BASED ON MODEL LITHONIA XVML L48 5000LM 40K MOUNT 10'-0" AFF.
2. PROVIDE LUMINAIRE THAT CAN BE SUSPENDED OR WALL MOUNTED BASED ON MODEL LITHONIA XVML L48 5000LM 40K MOUNT 10'-0" AFF WITH AN MINIMUM 90 MINUTE BATTERY BACKUP.
3. PROVIDE WALL MOUNTED LUMINAIRE BASED ON MODEL LITHONIA WDGE1LED 4W P2 VF 40K WITH A MINIMUM 90 MINUTE BATTERY BACKUP ABOVE DOORS. MOUNT 8'-0" AFF AND 11'-0" AFF ABOVE ROLL DOOR. CONTROL BY PHOTOCELL.
4. REFER TO DRAWING AE002 FOR POWER FEED AND SIZING INFORMATION.
5. PROVIDE (3) GFCI RECEPTACLES, (1) FOR POTTASSIUM PUMP AND (2) FOR CHLORINE PUMPS, MOUTNED ON METAL STRUT STAND, COORDINATE LOCATION WITH PLUMBING CONTRACTOR, SEE PLUMBING DRAWINGS FOR MORE INFORMATION.

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Key Plan
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S.E.D. Control No. 48-01-01-06-7-026-001

Rev. No.:	Date:	Description:

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TETRA TECH
ARCHITECTS & ENGINEERS

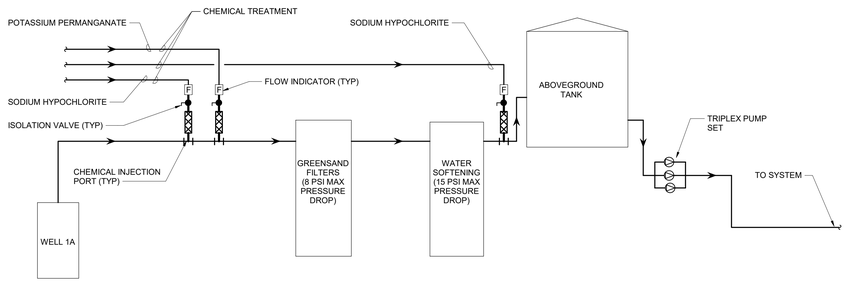
Mahopac Central School District
Mahopac, NY

New:
Mahopac Pump House

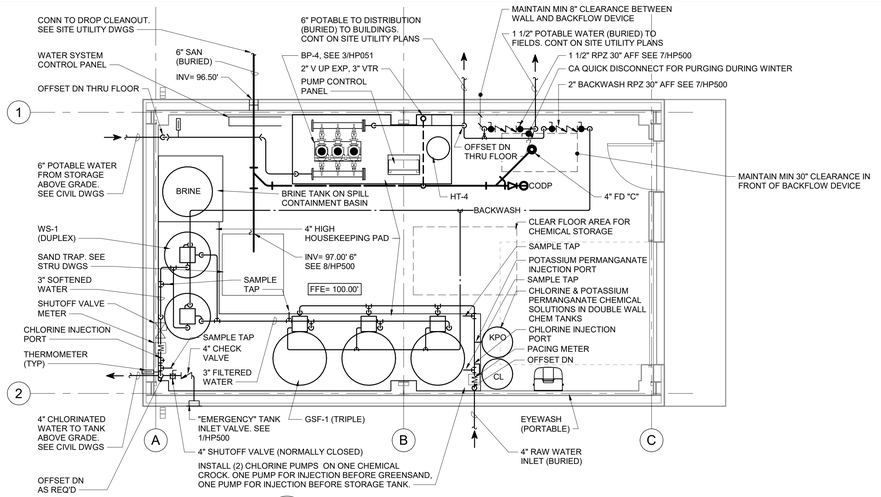
First Floor Lighting and Power & Communications Plan

Drawn By:	Date:	Drawing Number:
CR	08/21/20	HE100

Project No.: 121111-19002

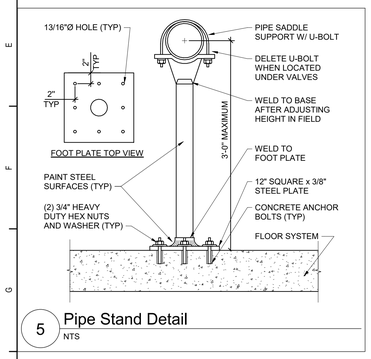


4 Water Treatment Hydraulic Schematic
NTS

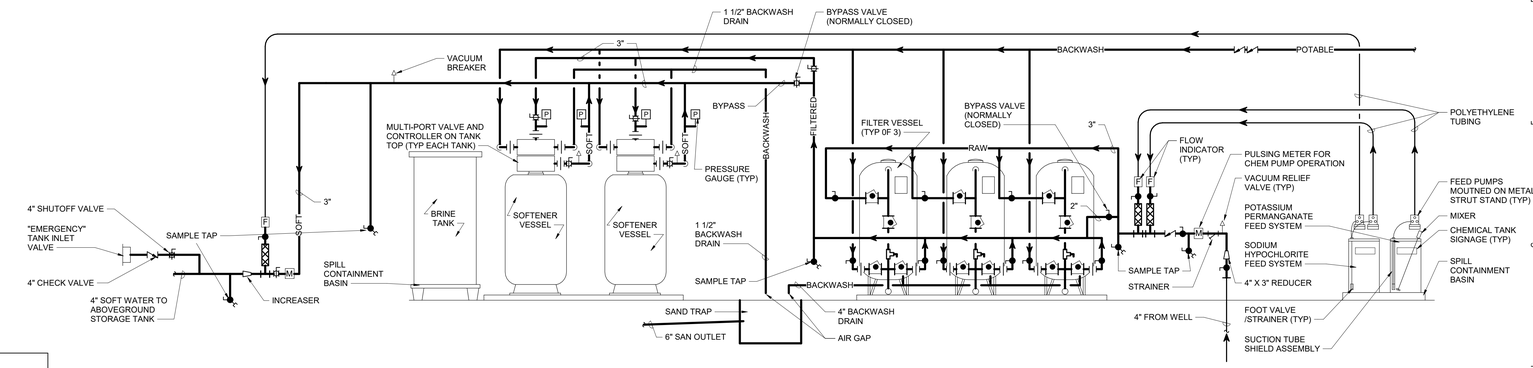


1 First Floor Plan
1/4" = 1'-0"

NOTE: FOR CONTINUATION OF PIPING, REFER TO CIVIL DRAWINGS

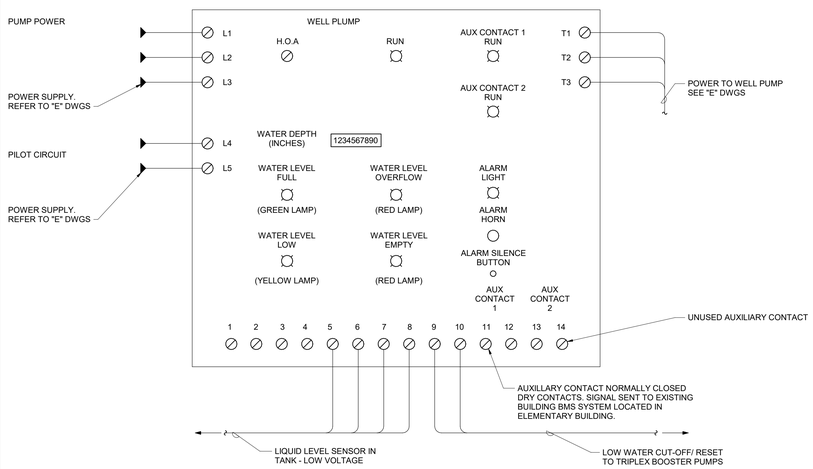


5 Pipe Stand Detail
NTS

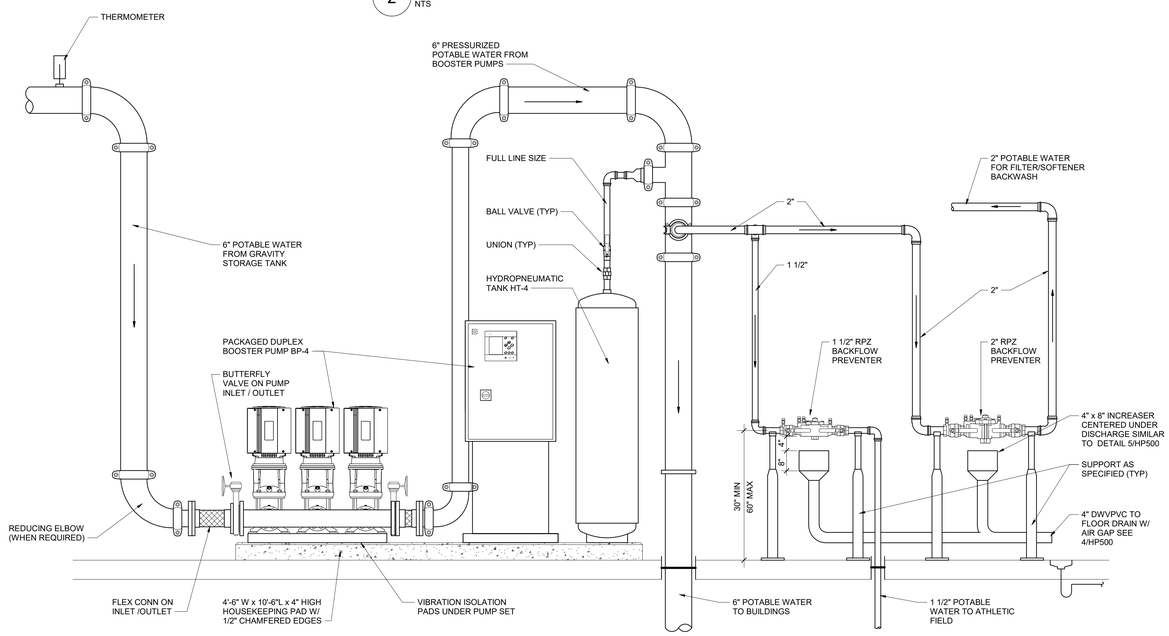


2 Domestic Water Treatment System Schematic
NTS

Piping Color Coding Schedule	
PIPING	COLOR CODE
RAW WATER	OLIVE GREEN
FINISHED OR POTABLE WATER	DARK BLUE
CHLORINE (SOLUTION)	YELLOW
POTASSIUM PERMANGANATE	VIOLET
BACKWASH WASTE	LIGHT BROWN
SEWER (SEWER OR OTHER)	DARK GRAY
OTHER LINES	LIGHT GRAY



6 Domestic Water System Control Panel Schematic
12" = 1'-0"



3 Duplex Booster Pump System Schematic
NTS

General Notes

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

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

C. LEGALLY DISPOSE OF ALL DEMOLITION DEBRIS.

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

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

F. FINISHED FLOOR ELEVATION OF 634.60' ON SITE PLAN CORRESPONDS TO FINISHED FLOOR ELEVATION OF 100.00' ON FLOOR PLANS.

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

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S.E.D. Control No. 48-01-01-06-7-026-001

Rev. No.:	Date:	Description:

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

New:
Mahopac Pump House

First Floor Plan, Details and Schedules

Drawn By:	Date:	Drawing Number:
DCG/ sef	08/21/20	HP051
Project No.: 121111-19002		

Domestic Water Booster Pump Schedule

DWG LABEL	LOCATION	DESIGN MAKE AND MODEL	TOTAL CAPACITY	TOTAL DYNAMIC HEAD	MAX CONT OPERATING TEMP	INLET / OUTLET SIZE	RPM	HORSE POWER	FULL LOAD AMPS	VOLTAGE	PHASE	HERTZ	NOTES
			GPM	FEET	°F	NPS							
BP-4	PUMP HOUSE	GRUNDFOS HYDRO MPC E 3CRE20-03	250	130.0	104	4	3450	7.5	61.1	208	3	60	1, 2

NOTES:

1. PACKAGED TRIPLEX BOOSTER PUMP SYSTEM WITH VARIABLE FREQUENCY DRIVES AND DUPLEX CONTROL PANEL MOUNTED ON A SKID.
2. EACH PUMP SIZED FOR 50% OF TOTAL SYSTEM CAPACITY.

Hydropneumatic Tank Schedule

DRAWING LABEL	LOCATION	MAKE AND MODEL NUMBER	TOTAL STORAGE CAPACITY (GALLONS)	MAXIMUM ACCEPTANCE VOLUME - GALLONS	WATER SERVICE PRESSURE (PSI)	MAXIMUM ALLOWABLE PRESSURE (PSI)	DIAMETER (INCHES)	HEIGHT (INCHES)	CONNECTION (NPT)	NOTES
HT-4	PUMP HOUSE	JOHN WOOD NO. JAPR 20-605	35	39.7	60	150	14	55 1/2	1	1, 2

NOTES:

1. REPLACEABLE BUTYL BLADDER (FDA APPROVED).
2. ASME CONSTRUCTION.

Water Softener Schedule

EQUIPMENT NO.	MODEL NO.	TYPE (DUPLEX)	INCOMING WATER HARDNESS (GRAINS)	INCOMING TDS (PPM)	CONTINUOUS FLOW RATE (GPM)	PEAK FLOW RATE (GPM)	RESIN QUANTITY (CUFT)	BACKWASH FLOW RATE (GPM)	CAPACITY/ SALT DOSAGE			SOFTENER TANK SIZE (DIA x H)	BRINE TANK SIZE (DIA x H)	LOCATION
									SALT DOSAGE (LBS/CUFT)	MIN BED (kGr/LB)	MAX BED (kGr/LB)			
WS-1	LWTF600-2	ION EXCHANGE	--	--	80	102	20	30	6 MIN/ 15 MAX	400,000	600,000	36 x 72	39 x 48	PUMP HOUSE

NOTES:

1. DESIGN BASIS : LAKESIDE WATER TREATMENT INC.
2. ELECTRICAL REQUIREMENTS : 24V, 110V, 60HZ
3. OPERATING WATER TEMPERATURE RANGE 34-110 F

Greensand Filter Schedule

EQUIPMENT NO.	MODEL NO.	TYPE (TRIPLEX)	INCOMING WATER IRON (PPM)	INCOMING WATER MANGANESE (PPM)	CONTINUOUS FLOW RATE (GPM)	PEAK FLOW RATE (GPM)	MINERAL QUANTITY (CUFT/ TANK)	BACKWASH FLOW RATE (GPM)	FILTER TANK SIZE (DIA x H)	CHLORINE TANK SIZE (DIA x H)	EST. CHLORINE SOLUTION INJ. (GPD)	CHLORINE FEED PUMP (GPD MAX)	POTASSIUM PERMANGANATE TANK SIZE (DIA x H)	EST. POTASSIUM PERMANGANATE SOLUTION INJ. (GPD)	POTASSIUM PERMANGANATE FEED PUMP (GPD MAX)	LOCATION
GSF-1	LWS-MG-42-3	MANGANESE GREENSAND	--	--	29	48	22	110	42 x 60	23 x 42.5	1.38	60	23 x 42.5	3.67	60	PUMP HOUSE

NOTES:

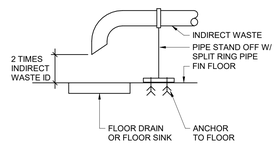
1. DESIGN BASIS : LAKESIDE WATER TREATMENT INC.
2. ELECTRICAL REQUIREMENTS : 24V, 110V, 60 HZ
3. OPERATING WATER TEMPERATURE RANGE 35-100 F

Domestic Well Pump Schedule

DWG LABEL	LOCATION	DESIGN MAKE AND MODEL	CAPACITY	TOTAL DYNAMIC HEAD	MAX CONT OPERATING TEMP	INLET / OUTLET SIZE	RPM	HORSE POWER	FULL LOAD AMPS	VOLTAGE	PHASE	HERTZ	NOTES
			GPM	FEET	°F	NPS							
WP-1	EXG HS WELL	GRUNDFOS SP 62S-22	50	500.0	104	2"	3472	10	15	460	3	60	1

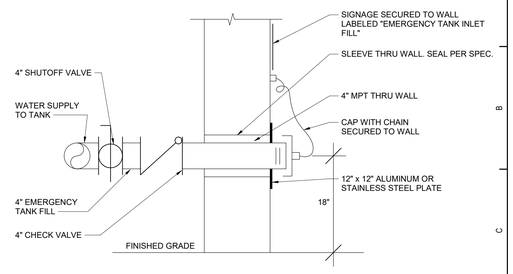
NOTES:

1. INSTALL PUMP ON 2" DROP PIPE AND ROUTE WIRING FROM WELL HEAD DOWN CASING TO PUMP. CONNECT WIRING AND DISCHARGE PIPE TO EXISTING SERVICES.

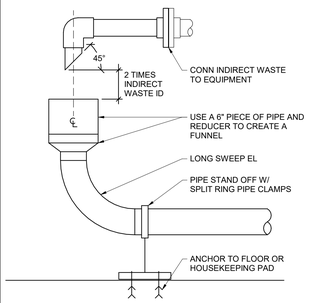


4 Indirect Waste Air Gap Detail
NTS

22\316-04a

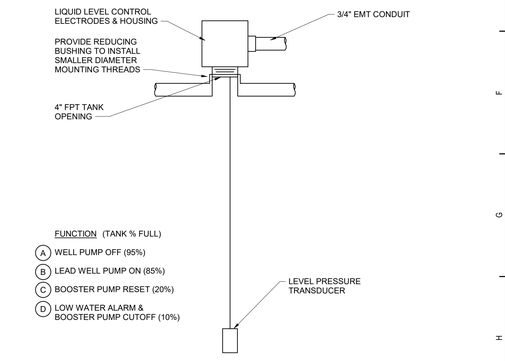


1 Tank Emergency Fill Detail
NTS



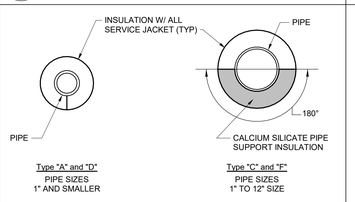
5 Indirect Waste Air Gap Detail
NTS

221316-04b



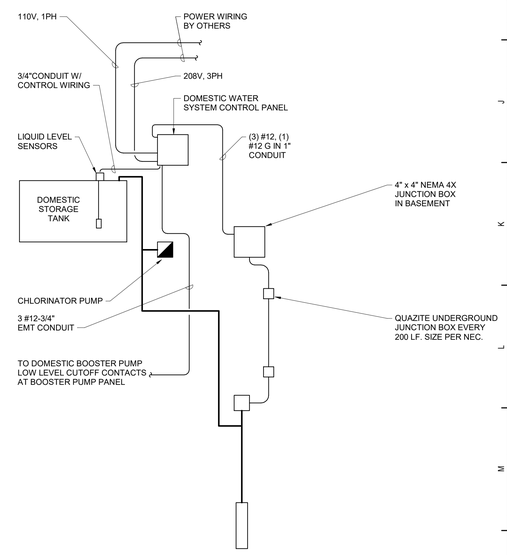
2 Liquid Level Sensor Detail
NTS

221119-09a



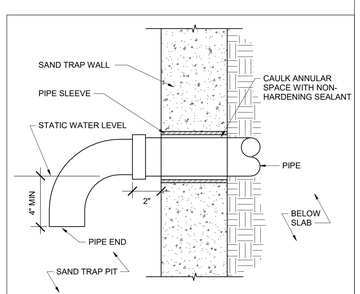
6 Insulated Piping Support Assemblies
NTS

220719-02a

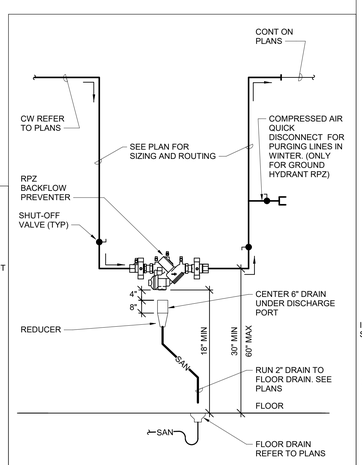


3 Domestic Water System Control Schematic
NTS

221119-10a



8 Sand Trap Pipe Sleeve Detail
NTS



7 RPZ Backflow Preventer Detail
NTS

A

Key Plan
N.T.S.

S.E.D. Control No. 48-01-01-06-7-026-001

Rev. No.:	Date:	Description:

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

BID SET

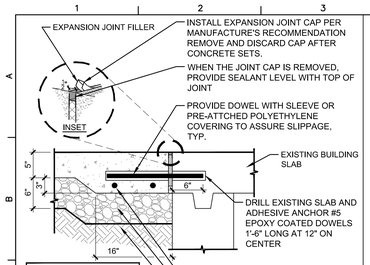
TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

New:
Mahopac Pump House

Details and Schedules

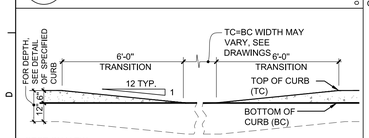
Drawn By:	Date:	Drawing Number:
DCG/ sef	08/21/20	HP500
Project No.: 121111-19002		



20 Expansion Joint at Existing Slab

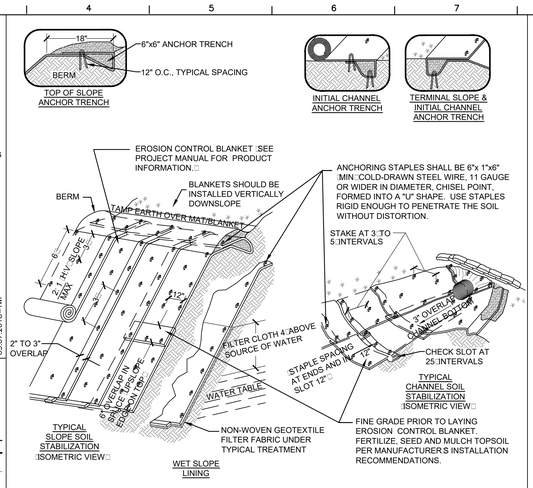
NTS

05.07.2018 – TWF



21 Sloped Curb and Curb Ending

NTS



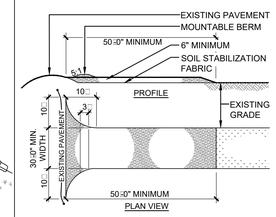
NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. LAY BLANKETS LOOSELY AND STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
3. FOR JUTE MESH APPLICATION, BIODEGRADABLE ANCHOR STAKES PER MANUFACTURER'S RECOMMENDATIONS MAY BE SUBSTITUTED FOR STAPLES.
4. CONSTRUCT CHECK SLOTS PER MANUFACTURER'S RECOMMENDATIONS.
5. STAPLING LAYOUT AS SHOWN, OR PER MANUFACTURER'S RECOMMENDATIONS.
6. INSTALL BLANKETS PER MANUFACTURER'S RECOMMENDATIONS.

16 Rolled Erosion Control Blanket - Typical

NTS

□FOR GEOTEXTILE & BIODEGRADABLE APPLICATIONS□

01.18.2019 – MJR



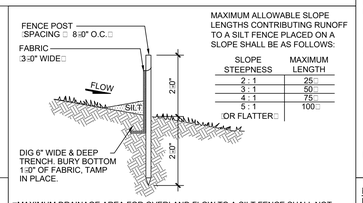
NOTE:
PROVIDE THE STABILIZED CONSTRUCTION ENTRANCE PER DETAIL AT ENTRANCE WHERE INDICATED ON PLANS. VERIFY LOCATION IN FIELD WITH ARCHITECT PRIOR TO CONSTRUCTION.

11 Stabilized Construction Entrance

NTS

CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE NO. 4 STONE OR RECLAIMED OR RECYCLED CONCRETE E□UIVALENT.
2. LENGTH - AS RE□UIRED 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 RE□UIRE 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 RE□UIRED, 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 RE□UIRED.

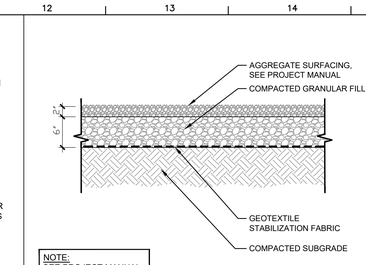


□MAXIMUM DRAINAGE AREA FOR OVERLAND FLOW TO A SILT FENCE SHALL NOT EXCEED ½ ACRE PER 100 FEET OF FENCE, WITH A MAXIMUM PONDING DEPTH OF 1.5□BEHIND THE FENCE.
□SILT FENCE SHALL BE UTILIZED ONLY TO CAPTURE SHEET EROSION.
□CONCENTRATED FLOW OF STORMWATER RUNOFF TO THE SILT FENCE BARRIER SHALL NOT BE PERMITTED
□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.

12 Silt Fence - Standard

NTS

2200-204

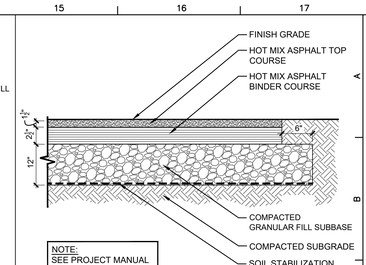


6 Aggregate Paving

N.T.S.

SECTION

02.2019 – TWF

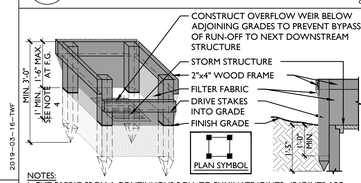


1 Asphalt Paving - Auto Duty

NTS

SECTION

03.2019 – JMR

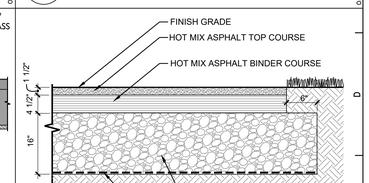


NOTES:
1. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED, THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
2. STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF THREE FEET.
3. SPACE STAKES EVENLY AROUND INLET THREE FEET APART AND DRIVE A MINIMUM OF 18 INCHES DEEP. SPANS GREATER THAN THREE FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
4. EMBED FILTER FABRIC ONE FOOT MINIMUM BELOW GROUND AND BACKFILL. FASTEN FILTER FABRIC SECURELY TO STAKES AND FRAME.
5. A 2"x4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FILTER FABRIC FOR OVERFLOW STABILITY.

7 Inlet Protection

N.T.S.

01.2009 – DFL

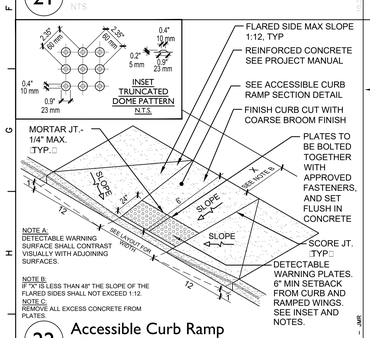


2 Asphalt Paving - Heavy Duty

NTS

SECTION

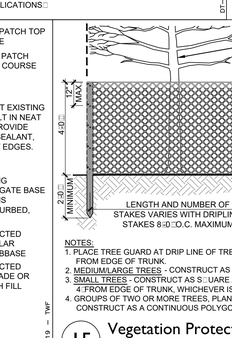
02.2019 – DFL



22 Accessible Curb Ramp

N.T.S.

10.2018 – JMR



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

17 Asphalt Paving Patch

NTS

SECTION

02.2019 – TWF

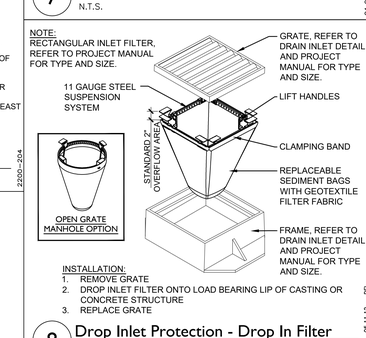
NOTES:
1. PLACE TREE GUARD AT DRIP LINE OF TREE □END OF BRANCHES□ MINIMUM 4□ FROM EDGE OF TRUNK.
2. MEDIUM/LARGE TREES - CONSTRUCT AS POLYGON AROUND DRIP LINE.
3. SMALL TREES - CONSTRUCT AS S□UARE AROUND DRIP LINE, OR MINIMUM OF 4□FROM EDGE OF TRUNK, WHICHEVER IS GREATER.
4. GROUPS OF TWO OR MORE TREES, PLANT BEDS AND WOODED EDGES - CONSTRUCT AS A CONTINUOUS POLYGON AROUND COLLECTIVE DRIP LINE.

15 Vegetation Protection

N.T.S.

PLAN SYMBOL

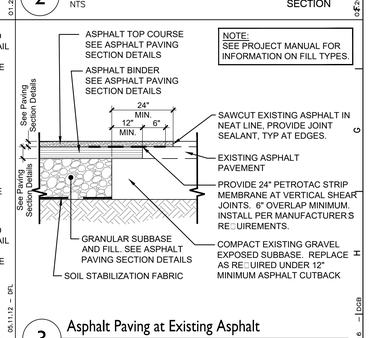
01.2009 – DFL



8 Drop Inlet Protection - Drop In Filter

NTS

05.11.12 – DFL



3 Asphalt Paving at Existing Asphalt

NTS

SECTION

07.2016 – TDS

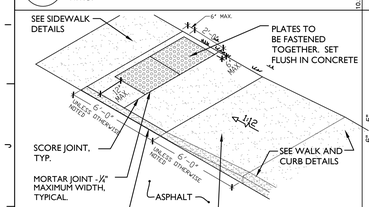
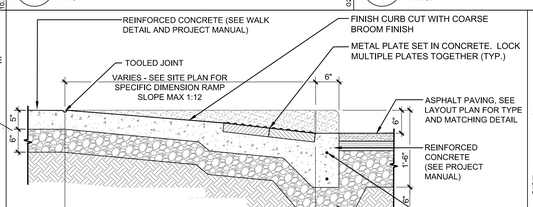


PLATE INSTALLATION NOTES:
1. REMOVE ALL EXCESS CONCRETE FROM PLATES.
2. SEAL JOINTS OVER ¼" WITH JOINT SEALANT.

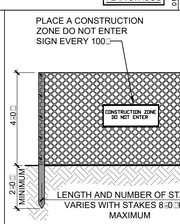


NOTE:
SEE ACCESSIBLE CURB RAMP DETAIL FOR ADDITIONAL INFORMATION.

18 Accessible Curb Ramp Section

NTS

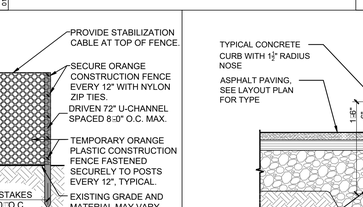
10.2018 – JMR



13 Temporary Construction Fence

NTS

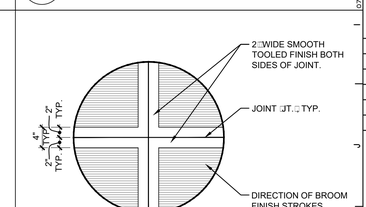
05.2014 – GNF



9 Concrete Curb - Integral

NTS

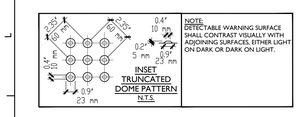
02.2019 – DFL



4 Concrete Finish

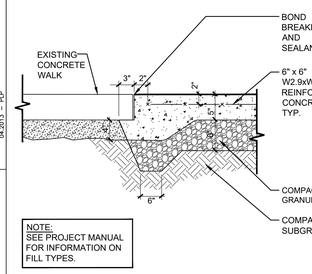
NTS

02.2019 – DFL



23 Drop Curb at Walk End

N.T.S.

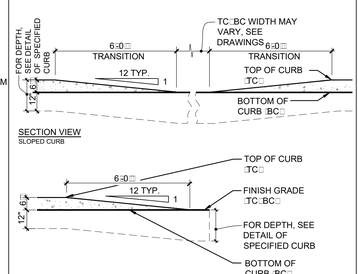


NOTE:
SEE PROJECT MANUAL FOR INFORMATION ON FILL TYPES.

19 New Concrete Walk at Existing Walk

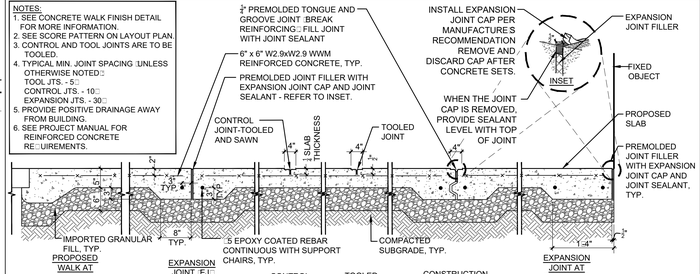
NTS

2019-11-19



14 Sloped Curb and Curb Ending

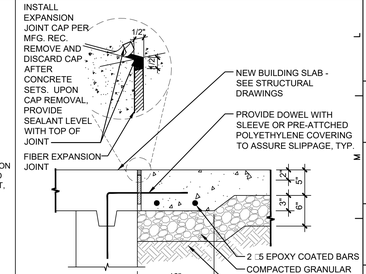
NTS



10 Concrete Walk

NTS

20190711-MAH



5 Expansion Joint at New Slab

NTS

05.07.2018 – TWF

S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-006-013
S.E.D. Control No. 48-01-01-06-0-004-020

Rev. No.:	Date:	Description:

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

TETRA TECH
ARCHITECTS & ENGINEERS

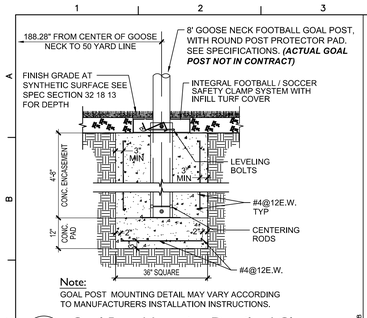
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Campus
(High School / Middle School)

Site Details

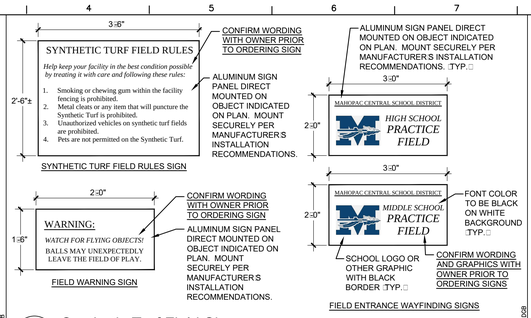
Drawn by:	Date:	Drawing No.:
JRS	06/21/20	ZC500

T+ Project No.:
121111-19002

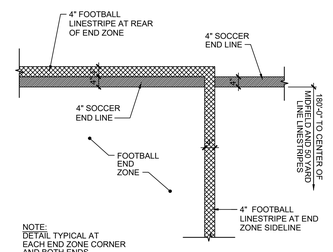


Note:
GOAL POST MOUNTING DETAIL MAY VARY ACCORDING TO MANUFACTURERS INSTALLATION INSTRUCTIONS.

18 Goal Post Mounting Detail w/ Clamp
N.T.S.

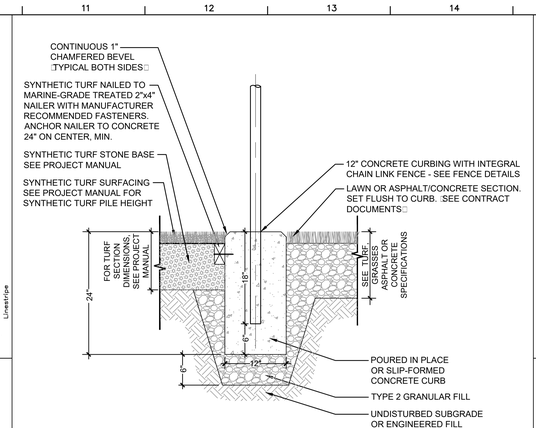


14 Synthetic Turf Field Signage
NTS



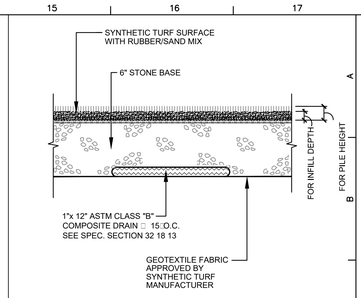
NOTE:
DETAIL TYPICAL AT EACH END ZONE CORNER AND BOTH ENDS

10 Soccer/Football Linestriping @ End Zone
NTS

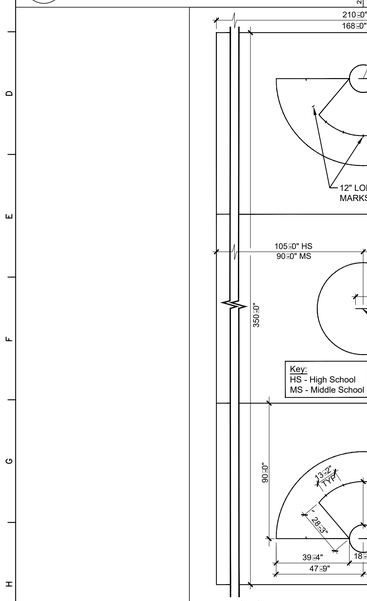


NOTE:
SYNTHETIC TURF EDGE FASTENING DETAIL MAY VARY ACCORDING TO MANUFACTURERS INSTALLATION INSTRUCTIONS. PROVIDE SUBMITTAL SHOWING DETAIL AT CURB EDGE APPROVED BY SYNTHETIC TURF MANUFACTURER.

5 Synthetic Turf Edge at Concrete Curb
N.T.S.

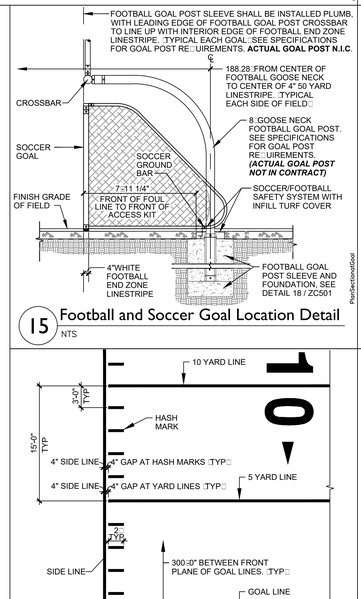


1 Section Thru Composite Drain
NTS

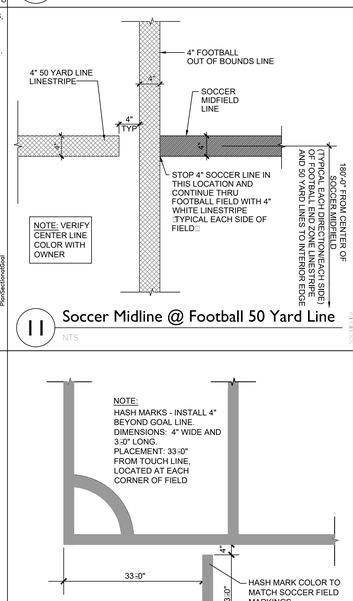


NOTES:
1. ALL DIMENSIONS ARE TYPICAL
2. ALL GIRL'S LACROSSE FIELD STRIPING TO BE 4" WIDE LINES

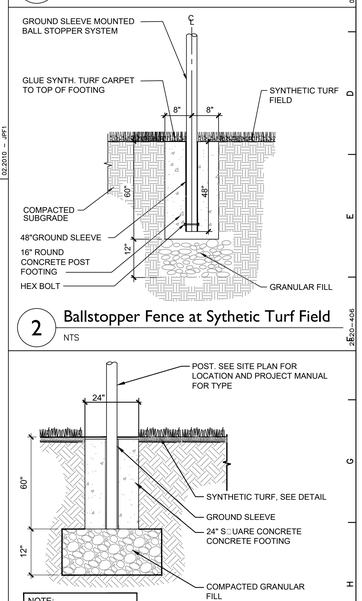
19 Girl's Lacrosse Field Layout
NTS



15 Football and Soccer Goal Location Detail
NTS



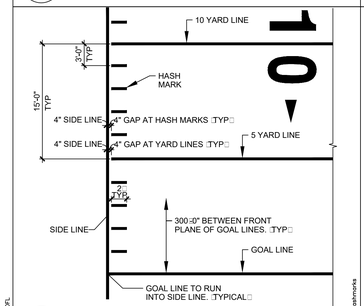
11 Soccer Midline @ Football 50 Yard Line
NTS



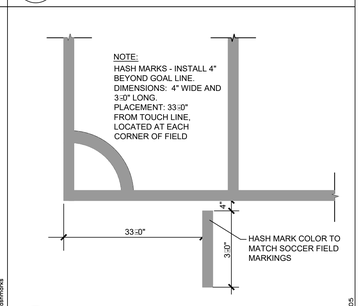
NOTE:
SYNTHETIC TURF EDGE DETAIL MAY VARY ACCORDING TO MANUFACTURERS INSTALLATION INSTRUCTIONS. PROVIDE SUBMITTAL SHOWING DETAIL AT CURB EDGE APPROVED BY SYNTHETIC TURF MANUFACTURER.

6 Synthetic Turf Edge
NTS

2 Ballstopper Fence at Sythetic Turf Field
NTS



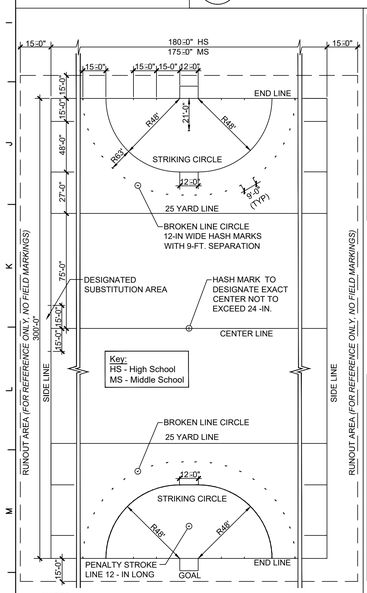
16 Football Hash Marks @ Sidelines
NTS



12 Soccer Field Hash Marks
N.T.S.

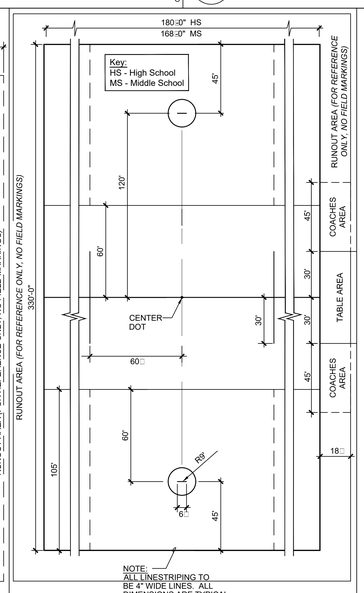
NOTE:
SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION.

3 Football Safety Netting Footing
NTS

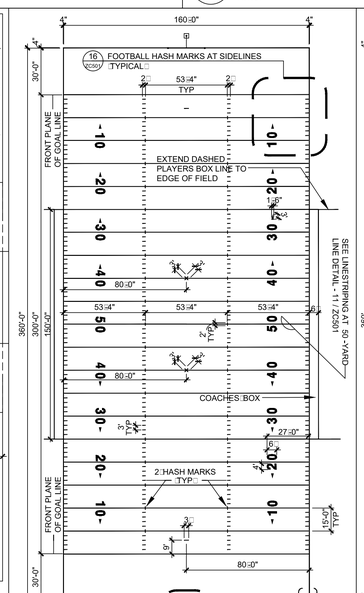


NOTES:
1. ALL DIMENSIONS ARE TYPICAL.
2. ALL FIELD STRIPING TO BE 4" WIDE LINES.
3. SEE PROJECT MANUAL FOR COLOR SELECTION.

20 Field Hockey Layout Plan
NTS



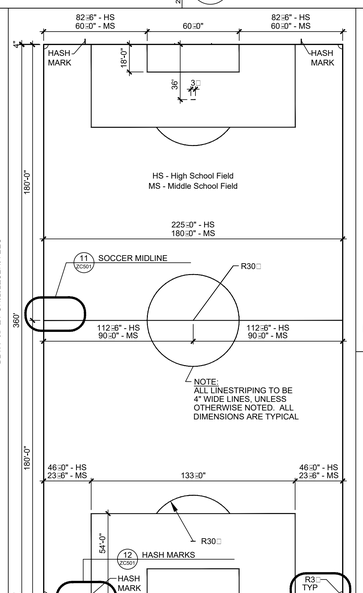
17 Boys' Lacrosse Field Layout Plan
NTS



NOTE:
LINESTRIPING TO BE 4" WIDE WHITE LINES, UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE TYPICAL

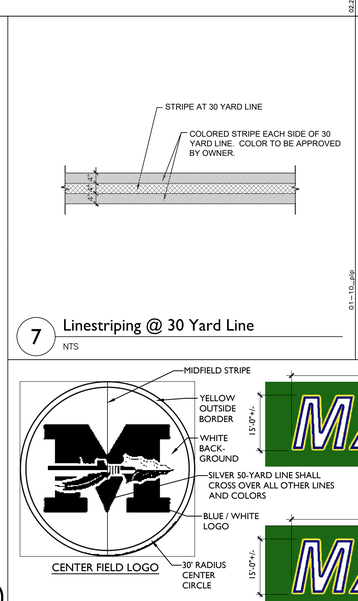
10 ZC501 SOCCER/FOOTBALL LINESTRIPING □ END ZONE
15 ZC501 GOAL POST LOCATION DETAIL □TYPICAL□

13 Football Field Layout Plan
NTS

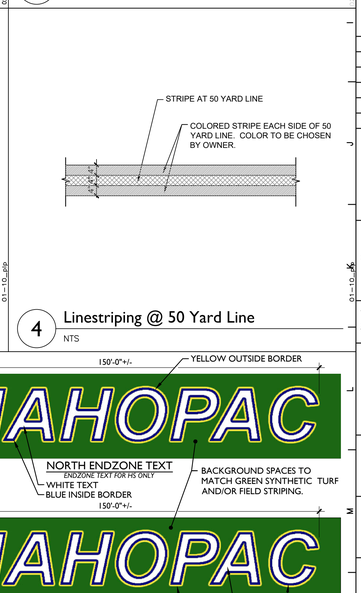


10 ZC501 SOCCER/FOOTBALL LINESTRIPING □ END ZONE

9 Soccer Field Layout Plan
NTS



7 Linestriping @ 30 Yard Line
NTS



4 Linestriping @ 50 Yard Line
NTS

NOTES:
1. DESIGN GIVEN FOR SCOPE PURPOSES ONLY. COORDINATE WITH OWNER REGARDING LETTERING STYLE AND FONT. *SUBMITTAL REQUIRED*
2. REFER TO SITE PLAN LAYOUT FOR REQUIRED LOCATION AND ORIENTATION.

8 Synthetic Surface Logo @ 50 Yard Line & Endzone Text
N.T.S.

S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-006-013
S.E.D. Control No. 48-01-01-06-0-004-020

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

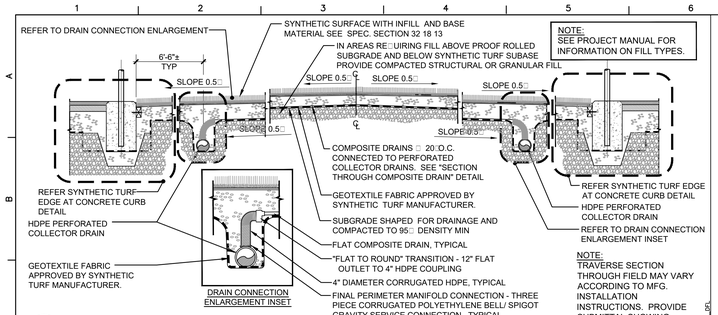
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Campus
(High School / Middle School)

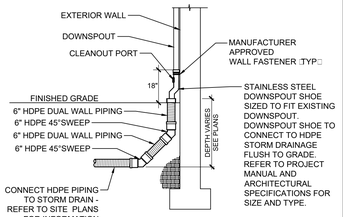
Site Details

Drawn by:	Date:	Drawing No.:
JRS	06/21/20	ZC501

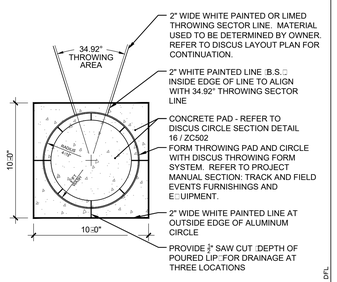
T+ Project No.:
121111-19002



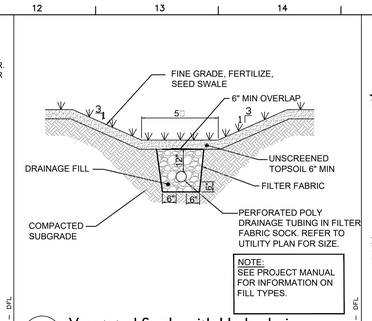
14 Transverse Section Thru Synthetic Field
NTS



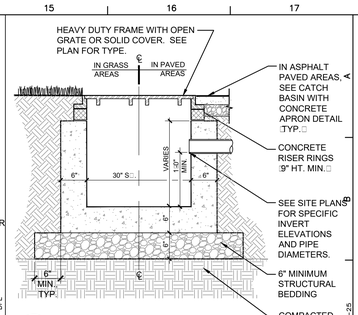
12 Downspout Shoe Connection
N.T.S.



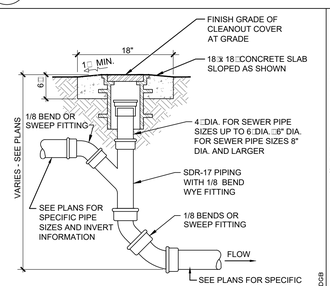
7 Discus Pad
NTS



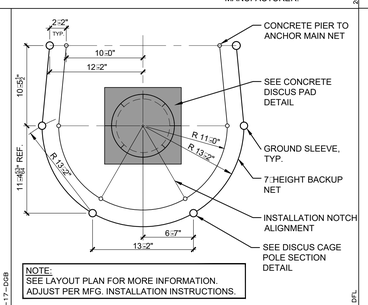
4 Vegetated Swale with Underdrain
N.T.S. SECTION



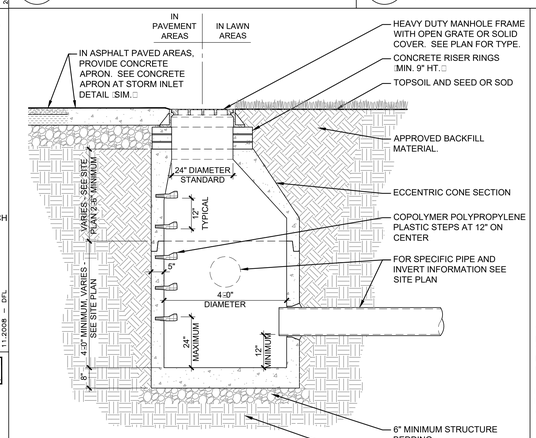
1 CATCH BASIN - 30" X 30"
NTS



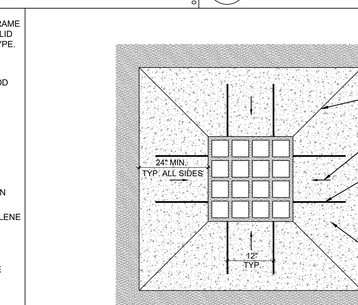
15 Cleanout - Exterior Drop
N.T.S.



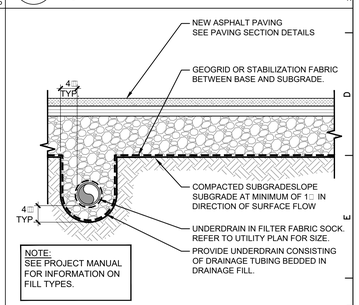
13 Discus Cage
NTS



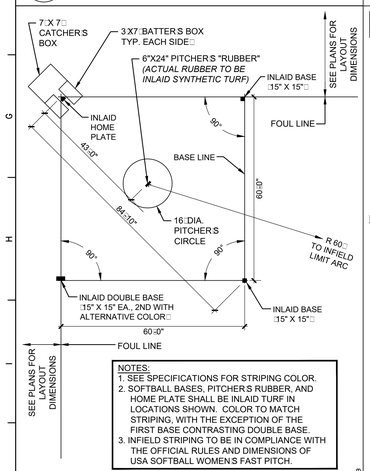
9 Storm Manhole
NTS



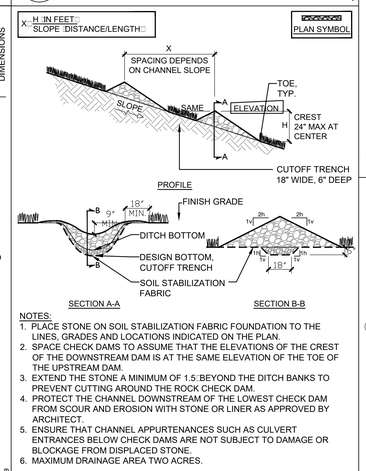
5 CATCH BASIN WITH CONCRETE APRON
NTS



2 Asphalt Paving with Underdrain
NTS SECTION

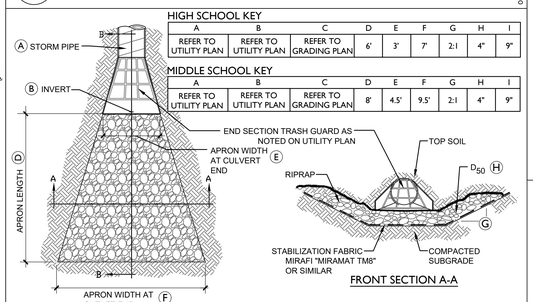


17 Softball Infield Layout Plan
NTS (SYNTHETIC TURF PRACTICE USE)

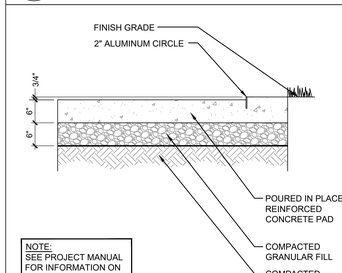


11 Rock Check Dam
NTS

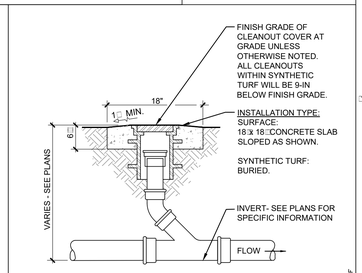
18 Baseball Infield Layout Plan
NTS (SYNTHETIC TURF PRACTICE USE)



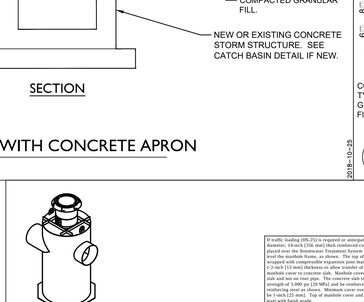
10 Riprap Outlet Cross-Section / Profile
NTS



16 Discus Pad Section
NTS



8 Cleanout - Exterior
N.T.S.



6 Stormwater Water Quality Treatment Unit
NTS

S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-006-013
S.E.D. Control No. 48-01-01-06-0-004-020

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

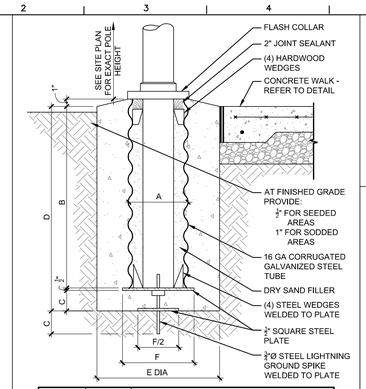
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Campus
(High School / Middle School)

Site Details

Drawn by:	Date:	Drawing No.:
JRS	06/21/20	ZC502

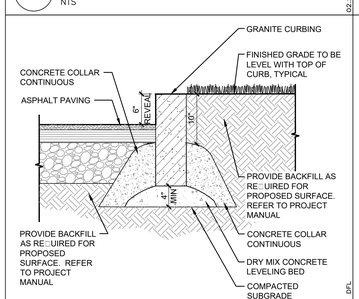
T+ Project No.:
121111-19002



EXPOSED POLE HEIGHT	U.S.A. FLAG SIZE	SCHEDULE OF DIMENSIONS					
		A	B	C	D	E	F
20'	4'x 6'	8"	3'-0"	4"	3'-4"	2'-6"	1'-2"
30'	5'x 8'	10"	3'-6"	6"	4'-0"	2'-6"	1'-4"
40'	6'x 10'	1'-0"	4'-0"	6"	4'-6"	3'-4"	1'-6"
50'	8'x 12'	1'-3"	5'-0"	8"	5'-8"	4'-2"	1'-9"
60'	8'x 12'	1'-3"	6'-0"	8"	6'-8"	5'-0"	1'-9"

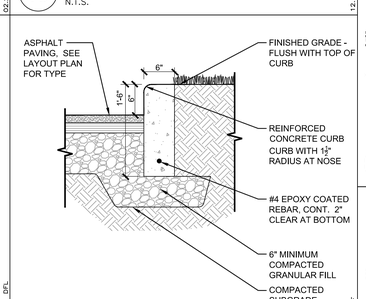
19 Flagpole Base
NTS

02.2010 – JPF1



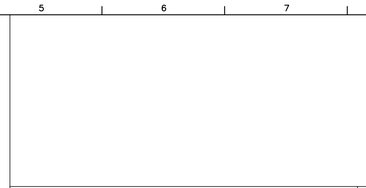
20 Granite Curb at Lawn
NTS

05.2009 – DFL



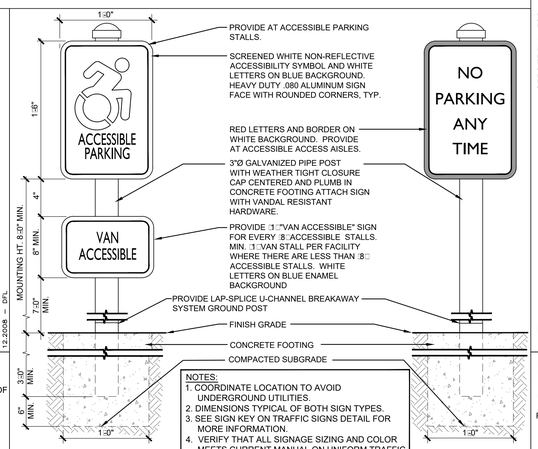
14 Concrete Curb at Lawn
NTS

05.07.2018 – TWF



13 Painted Crosswalk
N.T.S.

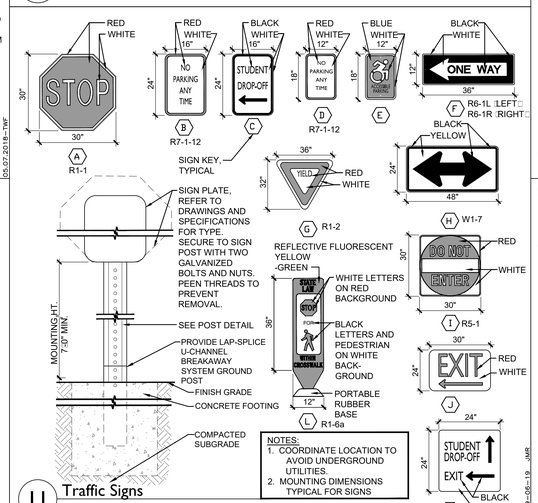
12.2008 – DFL



NOTES:
1. COORDINATE LOCATION TO AVOID UNDERGROUND UTILITIES.
2. DIMENSIONS TYPICAL OF BOTH SIGN TYPES.
3. SEE SIGN KEY ON TRAFFIC SIGNS DETAIL FOR MORE INFORMATION.
4. VERIFY THAT ALL SIGNAGE SIZING AND COLOR MEETS CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES □MUTCD□REGULATIONS.

10 Accessible and No Parking Signs in Pavement
N.T.S

2018–10–25



NOTES:
1. COORDINATE LOCATION TO AVOID UNDERGROUND UTILITIES.
2. MOUNTING DIMENSIONS TYPICAL FOR SIGNS

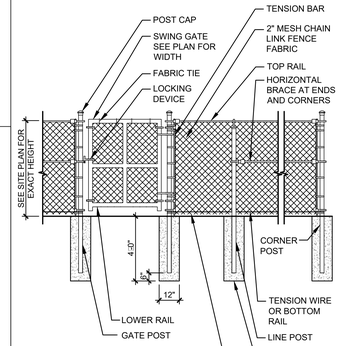
11 Traffic Signs
NTS

2018–06–19 – JMR

NOTES:
1. COORDINATE LOCATION TO AVOID UNDERGROUND UTILITIES.
2. DIMENSIONS TYPICAL OF BOTH SIGN TYPES.
3. SEE SIGN KEY ON TRAFFIC SIGNS DETAIL FOR MORE INFORMATION.
4. VERIFY THAT ALL SIGNAGE SIZING AND COLOR MEETS CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES □MUTCD□ REGULATIONS.

15 Accessible and No Parking Sign with - "U" Channel Post in Lawn
NTS

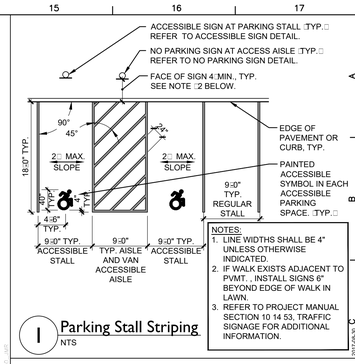
2017-06-22



NOTE: REFER TO CHAIN LINK FENCES AND GATES SPECIFICATION AND SITE PLAN FOR INFORMATION REGARDING MATERIALS, SIZES, AND COATINGS.

6 Chain Link Fence with Single Gate
NTS

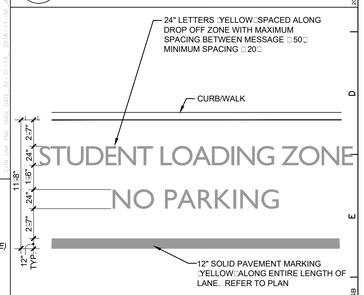
CHAIN_LINK_FENCE_32–31–13_2018–11–30_JMR



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.

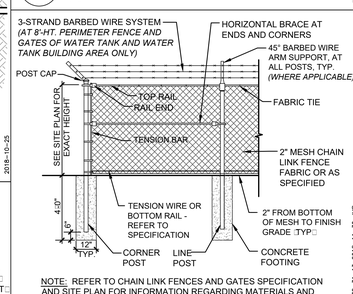
1 Parking Stall Striping
NTS

2021-06-21



2 Student Loading Zone - Painted
NTS

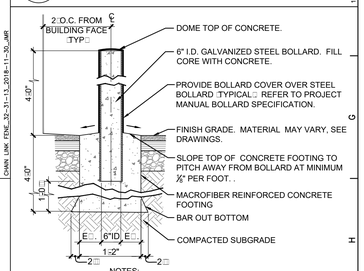
18–2020 – DGB



NOTE: REFER TO CHAIN LINK FENCES AND GATES SPECIFICATION AND SITE PLAN FOR INFORMATION REGARDING MATERIALS AND COATINGS.

7 Chain Link Fence
NTS

CHAIN_LINK_FENCE_32–31–13_2018–11–30_JMR



NOTES:
REFER TO PROJECT MANUAL FOR GALVANIZED STEEL MATERIAL RE□UIREMENTS.

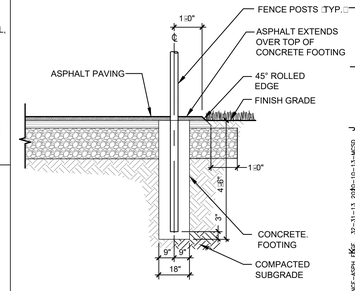
3 Bollard - Steel Pipe with Bollard Cover
NTS

03.2010 – DFL

8 Interlocking Concrete Unit Retaining Wall
N.T.S

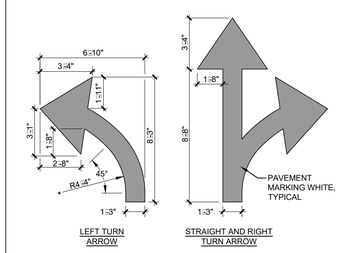
Over 4' in height

2018–06–19 – JMR



4 Chainlink Fence Post and Edge Detail
NTS

CHAIN_LINK_FENCE–ASPH_DBC_32–31–13_2018–10–15–MCSD



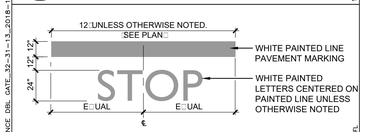
9 Traffic Arrows - Painted
NTS

11.2008 – DFL

NOTE: REFER TO CHAIN LINK FENCES AND GATES SPECIFICATION AND SITE PLAN FOR INFORMATION REGARDING MATERIALS, SIZES, AND COATINGS.

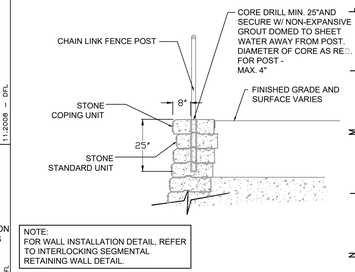
12 Chain Link Fence with Double Gates
NTS

CH_LINK_FNCE_DBL_GATE_32–31–13_2018–11–30_JMR



16 Painted Stop and Line
NTS

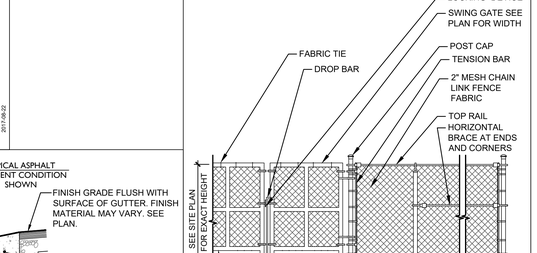
11.2008 – DFL



NOTE:
FOR WALL INSTALLATION DETAIL, REFER TO INTERLOCKING SEGMENTAL RETAINING WALL DETAIL.

5 Retaining Wall Fence Mounting Detail
N.T.S.

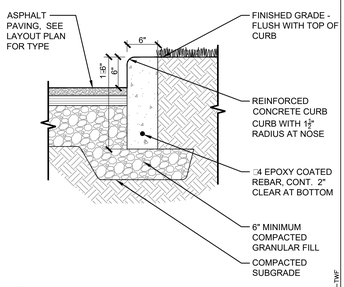
04–18 – RJP



NOTES:
1. EXPANSION JOINT: 1/2" WIDE, 30□O.C. WITH □□4 EPOXY COATED SLIP DOWELS 1'-6" LONG, INSERTED E□UAL LENGTHS EITHER SIDE OF JOINT, 1'-6" O.C. SEAL JOINT SIMILAR TO WALKS.
2. CONTRACTION JOINT: 10□O.C.□SAW CUT 2" DEEP NEXT DAY AFTER POUR.

17 Concrete Gutter
NTS

05.07.2018 – TWF



18 Concrete Curb at Lawn
NTS

05.07.2018 – TWF

Rev. No.:	Date:	Description:

S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-006-013
S.E.D. Control No. 48-01-01-06-0-004-020

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BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

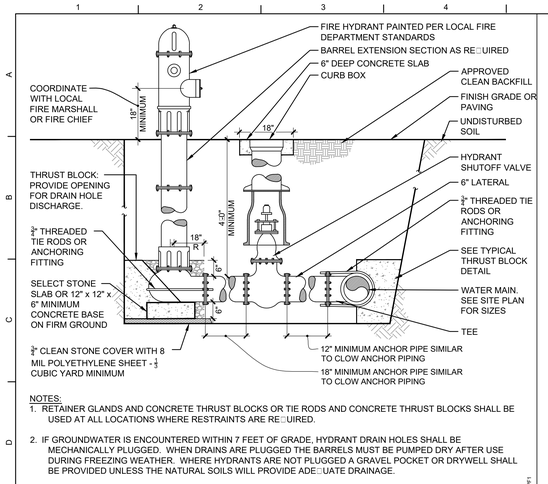
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Campus
(High School / Middle School)

Site Details

Drawn by:	Date:	Drawing No.:
JRS	06/21/20	ZC503

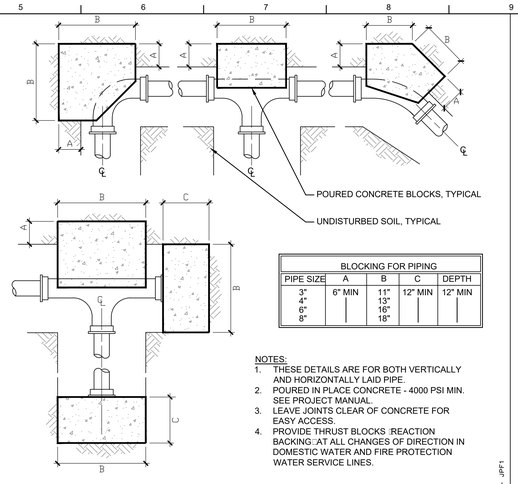
T+ Project No.:
121111-19002



NOTES:
1. RETAINER GLANDS AND CONCRETE THRUST BLOCKS OR TIE RODS AND CONCRETE THRUST BLOCKS SHALL BE USED AT ALL LOCATIONS WHERE RESTRAINTS ARE RE□UIRED.
2. IF GROUNDWATER IS ENCOUNTERED WITHIN 7 FEET OF GRADE, HYDRANT DRAIN HOLES SHALL BE MECHANICALLY PLUGGED. WHEN DRAINS ARE PLUGGED THE BARRELS MUST BE PUMPED DRY AFTER USE DURING FREEZING WEATHER. WHERE HYDRANTS ARE NOT PLUGGED A GRAVEL POCKET OR DRYWELL SHALL BE PROVIDED UNLESS THE NATURAL SOILS WILL PROVIDE ADE□UATE DRAINAGE.

7 Fire Hydrant Assembly
NTS

03.2010 – JPF1

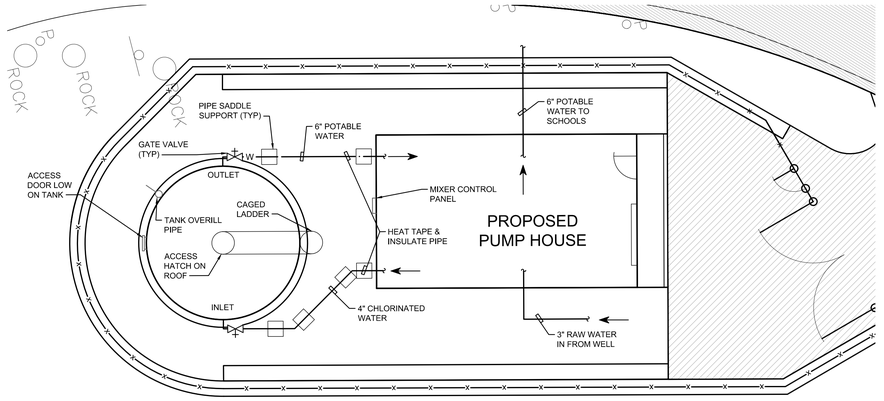


BLOCKING FOR PIPING				
PIPE SIZE	A	B	C	DEPTH
3"	6" MIN	11"	12" MIN	12" MIN
4"		13"		
6"		16"		
8"		18"		

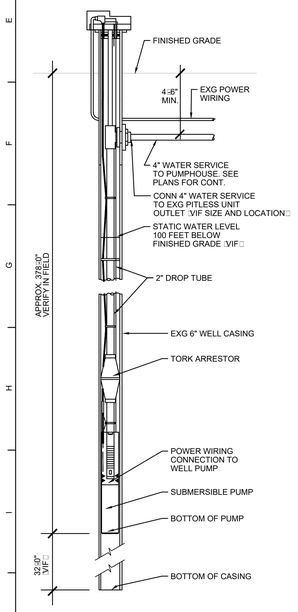
NOTES:
1. THESE DETAILS ARE FOR BOTH VERTICALLY AND HORIZONTALLY LAID PIPE.
2. POURED IN PLACE CONCRETE - 4000 PSI MIN. SEE PROJECT MANUAL.
3. LEAVE JOINTS CLEAR OF CONCRETE FOR EASY ACCESS.
4. PROVIDE THRUST BLOCKS :REACTION BACKING□AT ALL CHANGES OF DIRECTION IN DOMESTIC WATER AND FIRE PROTECTION WATER SERVICE LINES.

6 Typical Thrust Block
NTS

03.2010 – JPF1

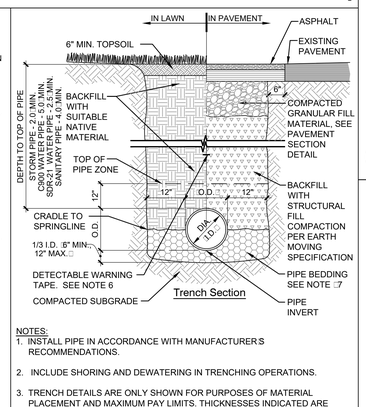


1 Water Treatment and Storage Schematic
NTS



NOTES:
1. REMOVE EXISTING WELL PUMP, 2" DROP TUBE AND WIRING WITHIN EXISTING WELL CASING IN PREPARATION OF REHABILITATION.
2. REHABILITATE WELL BY UTILIZING CO2 INJECTION OR HYDRO FRACTURING IN ACCORDANCE WITH NYSDOH AND NYSDEC RE□UIREMENTS.
3. AFTER REHABILITATION OF WELL, PERFORM WELL YIELD TESTING. INCLUDE ALL NECESSARY PUMPS, POWER SUPPLY, PERSONNEL, METERS, GAUGES ETC. TO PERFORM TESTING. ANY YIELD TESTING IS TO FOLLOW NYSDEC AND/OR NYSDOH GUIDELINES. WATER WELL YIELD TESTS SHALL BE PERFORMED FOR A PERIOD ADE□UATE TO □UANTIFY WELL YIELD.
4. WATER LEVEL AND FLOW RATE OBSERVATIONS SHALL BE MADE AND RECORDED , AT A MINIMUM, BEFORE THE START OF THE YIELD TEST, IMMEDIATELY UPON THE CESSATION OF WATER WITHDRAWAL AND PERIODICALLY DURING DRAWDOWN AND RECOVERY PERIODS. FRE□UENCY OF MEASUREMENTS SHALL BE MADE AS NECESSARY FOR THE TEST METHOD.
5. WATER DISCHARGED DURING A YIELD TEST SHALL BE DISCHARGED IN A MANNER THAT AVOIDS SHORT CIRCUITING OF THE WATER BACK INTO THE A□UIFER.
6. YIELD TEST SHALL NOT COMMENCE UNTIL REDEVELOPMENT HAS BEEN COMPLETED AND, AT A MINIMUM, UNTIL THE VOLUME OF WATER PUMPED/DISCHARGED DURING THE REHABILITATION INTO THE A□UIFER HAS BEEN REMOVED FROM THE WELL.
7. THE WELL YIELD DETERMINED FOR NEW WELLS SHALL BE RECORDED ON THE WELL COMPLETION REPORT FORM AND SUBMITTED FOR THAT WELL TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION. DATA GENERATTED DURING THE YIELD TEST SHALL BE PROVIDED TO THE OWNER AND PROVIDED, UPON RE□UEST, TO THE STATE OR LOCAL AGENCY:IES□HAVE JURISDICTION.
8. WELL YIELD TEST TO INCLUDE A MINIMUM OF 4 HOUR PERIOD OF STABILIZED DRAWDOWN WHILE PUMPING AT A CONSTANT FLOW RATE. DURING THE PERIOD OF STABILIZED DRAWDOWN, THE STABILIZED WATER LEVEL SHALL NOT FLUCTUATE MORE THAN PLUS OR MINUS 0.5 FEET :IE. WITHIN A VERTICAL TOLERANCE OF ONE FOOT□FOR EACH 100 FEET OF WATER IN THE WELL. :IE. INITAL WATER LEVEL TO BOTTOM OF WELL□OVER THE DURATION OF CONSTANT FLOW RATE OF PUMPING.
9. WATER LEVEL MEASUREMENTS MAY BE DETERMINED BY STEEL TAPE, CALIBRATED PRESSURE GAUGE ATTACHED TO AN AIR LINE TERMINATING AT LEAST 5 FEET ABOVE THE PUMP INTAKE, ELECTRIC SOUNDER OR PRESSURE TRANSDUCER.
10. THE RECOVERY PERIOD SHALL INCLUDE OBSERVATION OF THE WATER LEVEL IN THE WELL AFTER CESSATION OF PUMPING FROM THE DRAWDOWN LEVEL BACK TO AT LEAST 90 PERCENT OF THE INITIAL WATER LEVEL OR FOR A PERIOD OF 24 HOURS, WHICHEVER OCCURS FIRST. IF THE WATER DOES NOT RECOVER TO 90 PERCENT AFTER 24 HOURS, THE TESTED FLOW RATE MAY NOT BE SUSTAINED FOR AN EXTENDED PERIOD OF TIME.
11. AFTER COMPLETION OF YIELD TEST, OBTAIN WATER SAMPLE AND PROVIDE TESTING FROM A NEW YORK STATE CERTIFIED LAB. TEST TO INCLUDE THE FOLLOWING: ALKALINITY, CHLORIDE, COLOR, HARDNESS, IRON, IRON BACTERIA, MANGANESE, ODOR, pH, PHOSPHOROUS, POTASSIUM, SODIUM, SULFATE, TOTAL DISSOLVED SOLIDS AND TURBITITY.
12. SUBMIT REPORT TO ENGINEER AND OWNER DESCRIBING EACH OF THE FOLLOWING: METHOD OF WELL REHABILITATION; PERTINENT PHOTOGRAPHS OF REHABILITATION, TESTING METHODOLOGY DESCRIPTION, STATIC WATER LEVEL AT COMMENCEMENT OF TESTING, DATES, TIMES AND FLOW RATES FOR TEST PERIOD, WELL YIELD AT END OF REHABILITATION AND TESTING AND ANY OTHER OBSERVATIONS.
13. FOLLOWING REHABILITATION OF WELL, REPLACE WELL PUMP, 2" DROP TUBE AND POWER WIRING LOCATED WITHIN THE CASING AND INSTALL IN EXISTING CASING. CONNECT TO EXISTING PITLESS UNIT AS NECESSARY.

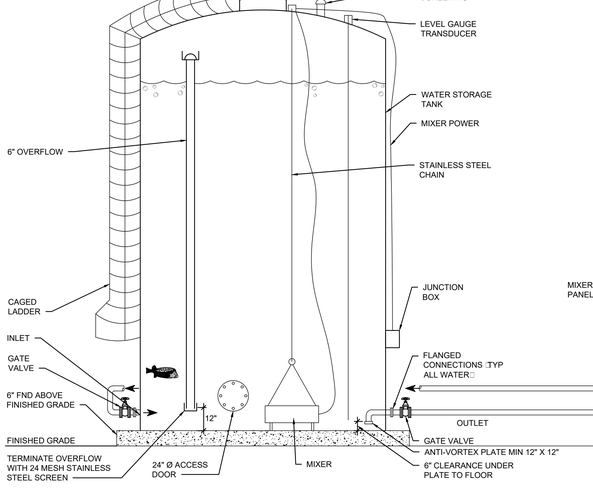
9 Well Modifications
NTS



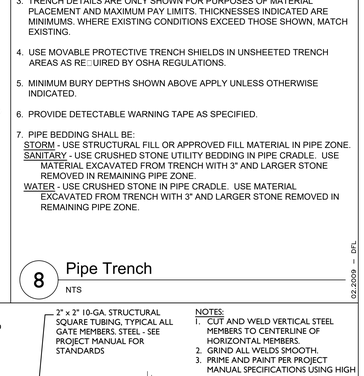
NOTES:
1. INSTALL PIPE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. INCLUDE SHORING AND DEWATERING IN TRENCHING OPERATIONS.
3. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS. THICKNESSES INDICATED ARE MINIMUMS. WHERE EXISTING CONDITIONS EXCEED THOSE SHOWN, MATCH EXISTING.
4. USE MOVABLE PROTECTIVE TRENCH SHIELDS IN UNSHEETED TRENCH AREAS AS RE□UIRED 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.
SANITARY - USE CRUSHED STONE UTILITY BEDDING IN PIPE CRADLE. USE MATERIAL EXCAVATED FROM TRENCH WITH 3" AND LARGER STONE REMOVED IN REMAINING PIPE ZONE.
WATER - USE CRUSHED STONE IN PIPE CRADLE. USE MATERIAL EXCAVATED FROM TRENCH WITH 3" AND LARGER STONE REMOVED IN REMAINING PIPE ZONE.

8 Pipe Trench
NTS

02.2009 – DFL



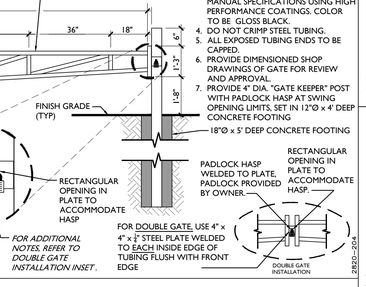
2 Water Storage Tank Elevation
NTS



NOTES:
1. CUT AND WELD VERTICAL STEEL MEMBERS TO CENTERLINE OF HORIZONTAL MEMBERS.
2. GRIND ALL WELDS SMOOTH.
3. PRIME AND PAINT PER PROJECT MANUAL SPECIFICATIONS USING HIGH PERFORMANCE COATINGS. COLOR TO BE GLOSS BLACK.
4. DO NOT CRIMP STEEL TUBING.
5. ALL EXPOSED TUBING ENDS TO BE CAPPED.
6. PROVIDE DIMENSIONED SHOP DRAWINGS OF GATE FOR REVIEW AND APPROVAL.
7. PROVIDE 4" DIA. "GATE KEEPER" POST WITH PADLOCK HASP AT SWING OPENING LIMITS, SET IN 12"Ø x 4' DEEP CONCRETE FOOTING

10 Barrier Swing Gate
N.T.S.

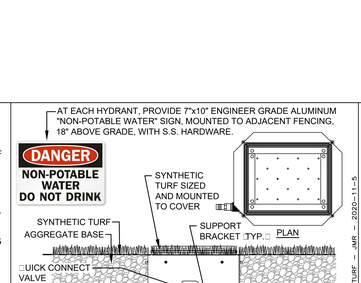
28920–2x4



NOTE:
IF 18-IN SEPARATION CANNOT BE MAINTAINED THEN PROVIDE ONE OF THE FOLLOWING:
1. CONSTRUCT SANITARY LINE OF MATERIALS AND JOINTS THAT ARE E□UIVALENT TO THE WATER PIPING AND PRESSURE TEST PRIOR TO BACK FILLING.
2. WRAP EITHER PIPE IN 8 MIL. POLYETHYLENE AND ENCASE IN CONCRETE IN ACCORDANCE WITH ANSI / AWWA C105 A21.5

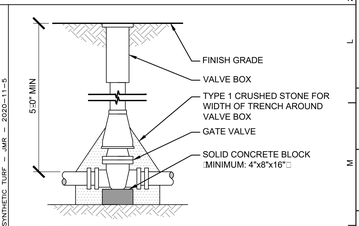
5 Water - Sewer Pipe Crossing
NTS

2016–10–3Ø–TWF



4 Quick Connect Valve Box
NTS

QUICK CONNECT VALVE BOX IN SYNTHETIC TURF – AMR – 2020–11–5



NOTES:
1. VALVE BOX SHALL BE CENTERED ON VALVE AND SET ON COMPACTED BACKFILL.
2. VALVE SHALL NOT SUPPORT VALVE BOX.
3. ALL BODY AND BONNET BOLTS SHALL BE STAINLESS STEEL.
4. ALL VALVES SHALL BE OPEN LEFT EXCEPT VALVES 12" AND SMALLER.

3 Gate Valve
NTS

2x8x4 – Site Details

S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-006-013
S.E.D. Control No. 48-01-01-06-0-004-020

Rev. No.:	Date:	Description:

ZC504 – Site Details

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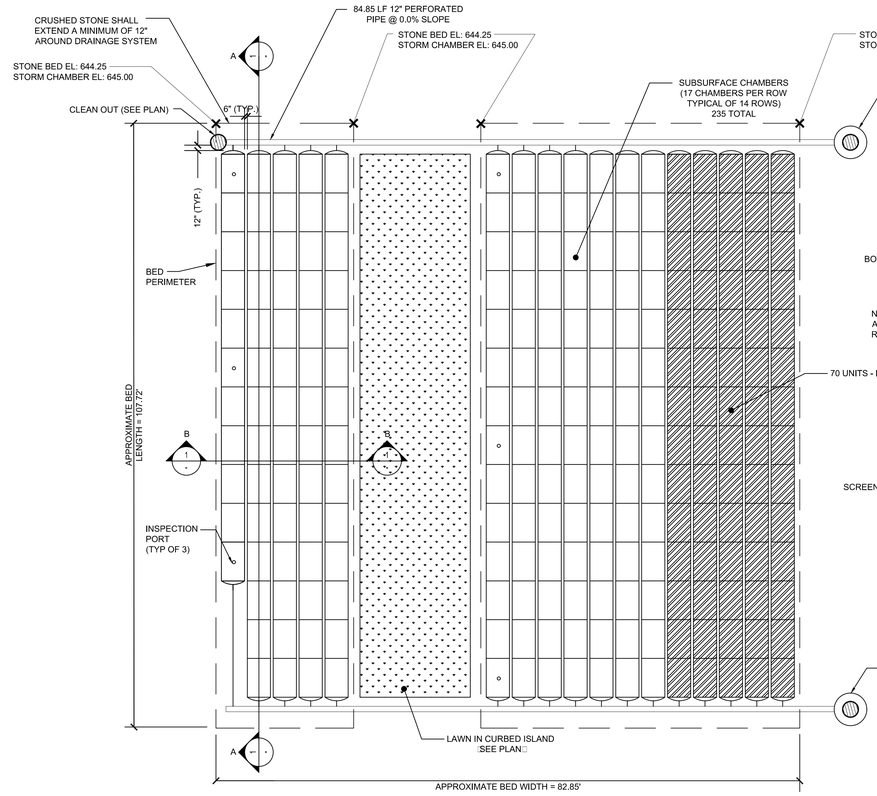
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Campus
(High School / Middle School)

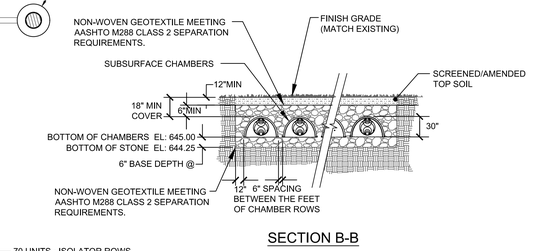
Site Details

Drawn by:	Date:	Drawing No.:
JRS	06/21/20	ZC504

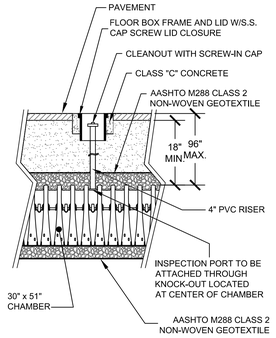
T+ Project No.:
121111-19002



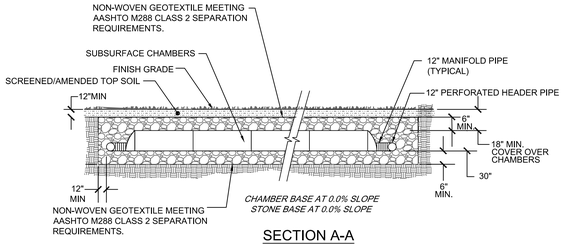
1 Subsurface MS Parking Lot Drainage System
N.T.S.



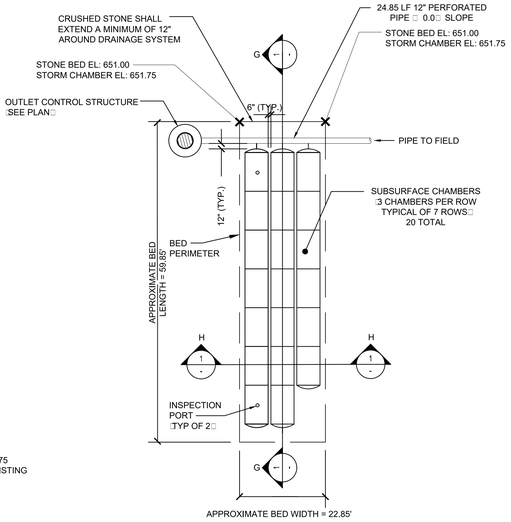
SECTION B-B



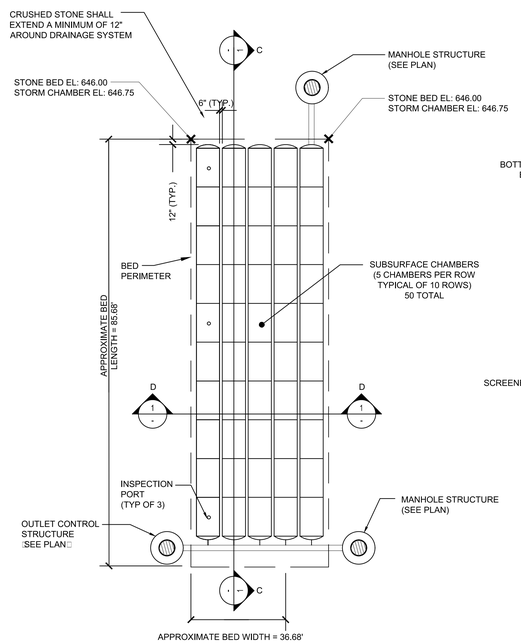
CHAMBER SYSTEM INSPECTION PORT DETAIL
NOT TO SCALE



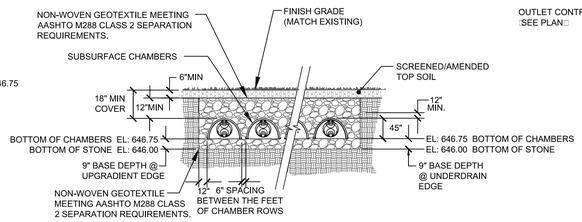
SECTION A-A



3 Subsurface HS Western Drainage System
N.T.S.



2 Subsurface MS Field Drainage System
N.T.S.



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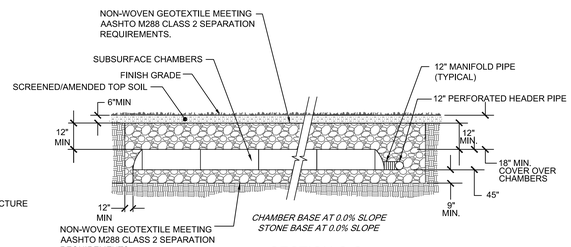
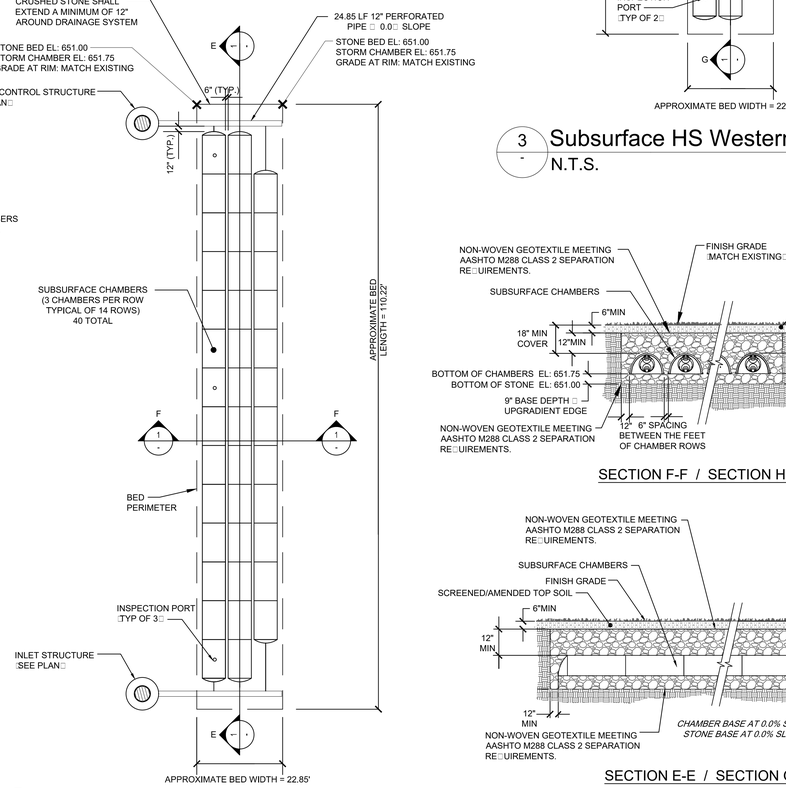
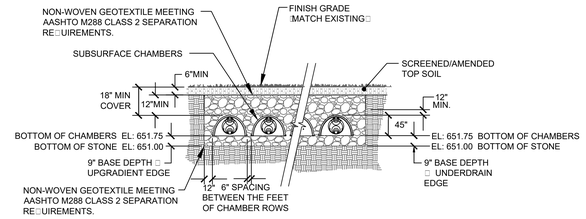


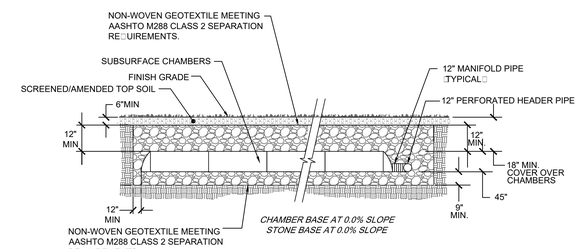
SECTION C-C



4 Subsurface HS Eastern Drainage System
N.T.S.



SECTION F-F / SECTION H-H



SECTION E-E / SECTION G-G

S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-006-013
S.E.D. Control No. 48-01-01-06-0-004-020

Rev. No.:	Date:	Description:

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Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Campus
(High School / Middle School)

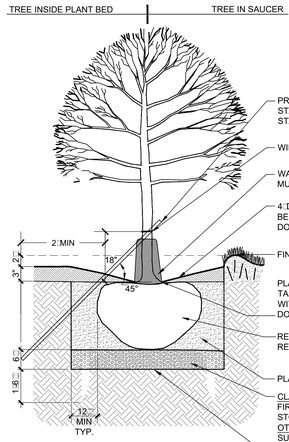
Site Details

Drawn by:	Date:	Drawing No.:
JRS	06/21/20	ZC505

T+ Project No.: 121111-19002

I Subsurface Drainage System
NTS

01"=1'0" 12"=1'0" 2020-07-14_ACW



STAKING NOTES:
1. POSITION STAKE WITH BURIED END AGAINST PREVAILING WIND DIRECTION
2. DRIVE STAKE OUTSIDE OF ROOT BALL
3. REMOVE STAKING WHEN TREE ROOTS ARE ESTABLISHED

PROVIDE UNTREATED □1.5" X 1.5"□HARDWOOD STAKES FOR TREES 3" CAL. AND UNDER. DRIVE STAKES INTO SUBGRADE AS INDICATED.

WIDE RUBBER STRAP AS SPECIFIED

WATERING BAG, □1□PER TREE. DO NOT PLACE MULCH IN TO CONTACT WITH TREE TRUNK

4□DIAMETER MULCH SAUCER WHEN NOT IN PLANT BED. SHAPE MULCHED AREA TO BE CONCAVE. DO NOT MOUND MULCH OVER TRUNK FLARE

FINISH GRADE AT MULCH SAUCER

PLANT TO ORIGINAL DEPTH OF TREE FLARE. TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT

REMOVE LACING AND WIRE CAGES. CUT AND REMOVE BURLAP FROM TOP HALF OF ROOTBALL

PLANTING SOIL MIXTURE

CLAY SOILS: PLACE ROOT BALL ON A MOUND OF FIRMLY TAMPED WASHED RIVER AGGREGATE STONE.
OTHER SOILS: PLACE ROOT BALL ON SCARIFIED SUBGRADE.

BREAK UP SUBGRADE WITH A PICK AND LIGHTLY HAND TAMP

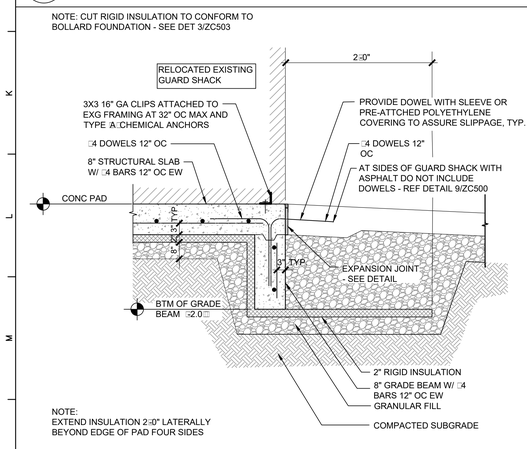
5 Planting - Deciduous Tree
NTS

NOTES:
1. PRUNE ⅓ OF LEAF AREA BUT RETAIN NATURAL FORM. SPRAY WITH ANTIDESSICANT ACCORDING TO MANUFACTURERS INSTRUCTION IF FOLIAGE IS PRESENT.
2. FOR MASS PLANTINGS, EXCAVATE ENTIRE BED.
3. DURING BACKFILL PROCESS, WATER EACH LAYER UNTIL SETTLED.

6 Shrub Planting - Single
NTS

PLANT SPACING □ON CENTER□															
P □FEET□	0.50	0.67	0.83	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	15.00	20.00
R □FEET□	0.43	0.58	0.72	0.87	1.08	1.30	1.73	2.17	2.60	3.46	4.33	5.20	6.92	8.66	12.99	17.32
AREA PER PLANT																
S□□FT.	0.22	0.39	0.60	0.87	1.35	1.95	3.46	5.43	7.80	13.84	21.65	31.20	55.36	86.66	194.85	346.40

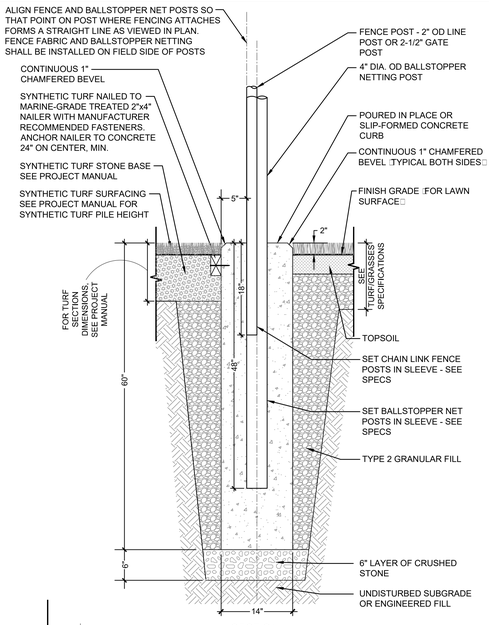
7 Plant Spacing
NTS



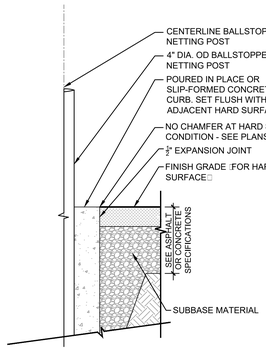
NOTE:
EXTEND INSULATION 2□0" LATERALLY BEYOND EDGE OF PAD FOUR SIDES

8 Concrete Pad with Grade Beam Detail
NTS

ALIGN FENCE AND BALLSTOPPER NET POSTS SO THAT POINT ON POST WHERE FENCING ATTACHES FORMS A STRAIGHT LINE AS VIEWED IN PLAN. FENCE FABRIC AND BALLSTOPPER NETTING SHALL BE INSTALLED ON FIELD SIDE OF POSTS

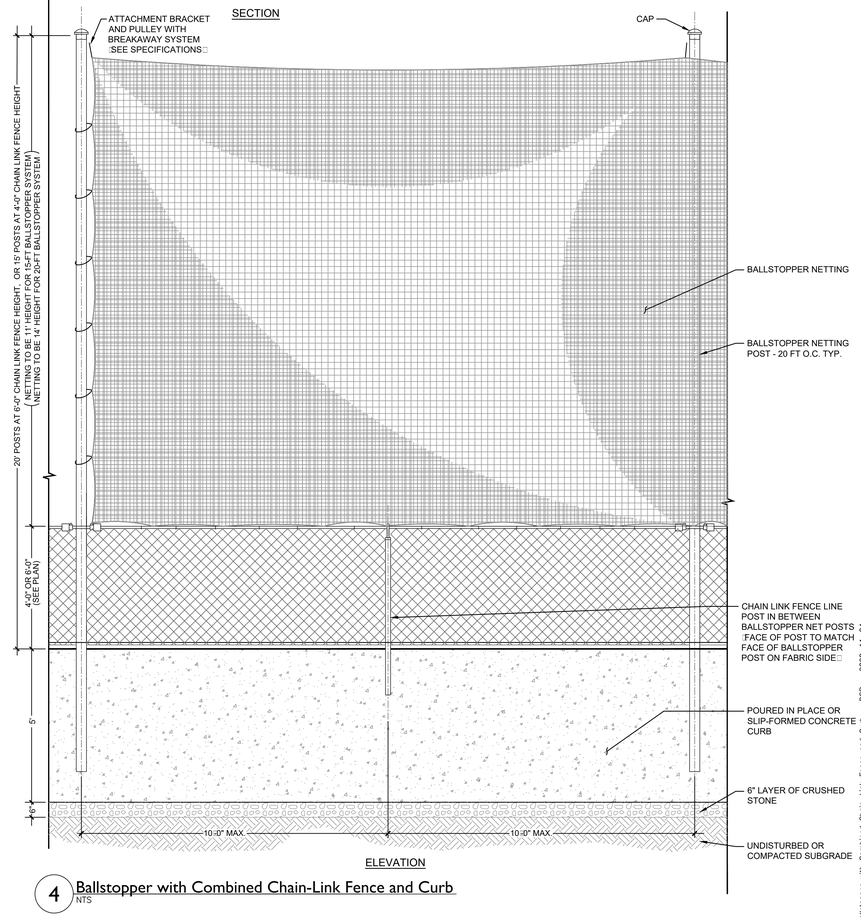


SECTION



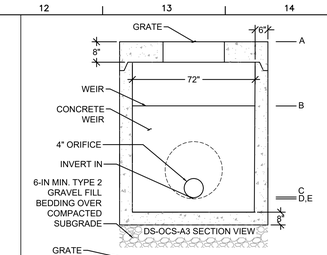
SECTION AT HARD SURFACE

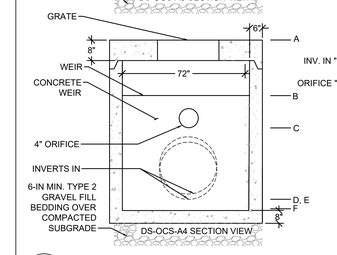
NOTE:
SYNTHETIC TURF EDGE FASTENING DETAIL MAY VARY ACCORDING TO MANUFACTURERS INSTALLATION INSTRUCTIONS. PROVIDE SUBMITTAL SHOWING DETAIL AT CURB EDGE APPROVED BY SYNTHETIC TURF MANUFACTURER.

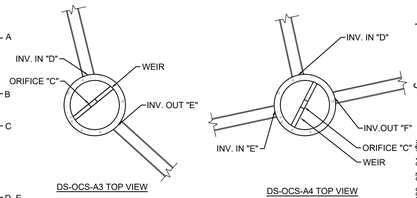


ELEVATION

4 Ballstopper with Combined Chain-Link Fence and Curb
NTS





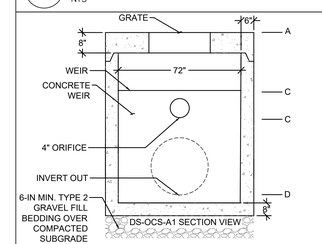


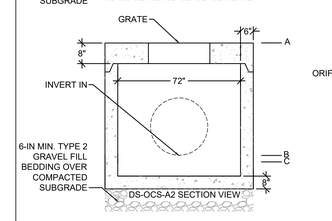
1 Outlet Control Structure-HS (A3-A4)
NTS

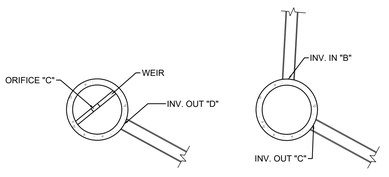
DS-OCS-A3			
	TYPE	DESCRIPTION	INV.
A	GRATE	2.5' x 2.5' GRATE	657.00
B	WEIR	RECTANGULAR WEIR	655.50
C	ORIFICE	4" DIAMETER	653.30
D	INVERT IN	12" EAST	653.28
E	INVERT OUT	12" WEST	653.19

DS-OCS-A4			
	TYPE	DESCRIPTION	INV.
A	GRATE	2.5' x 2.5' GRATE	657.40
B	WEIR	RECTANGULAR WEIR	655.50
C	ORIFICE	4" DIAMETER	654.75
D	INVERT IN	12" EAST	652.25
E	INVERT IN	12" SOUTH	653.25
F	INVERT OUT	12" NORTH	652.15

GENERAL NOTES:
1□ ALL OUTLET CONTROL STRUCTURES ARE 6-FT DIAMETER MANHOLES. SEE SPECIFICATION SECTION 33 41 00 - STORM WATER OUTLET STRUCTURES.
2□ FOR ALL STRUCTURES, PROVIDE 12-IN SUMP MINIMUM.
3□ INTERNAL WEIR WALL TO BE 4-IN MINIMUM THICKNESS.





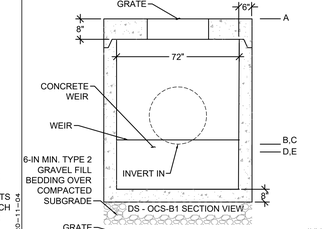


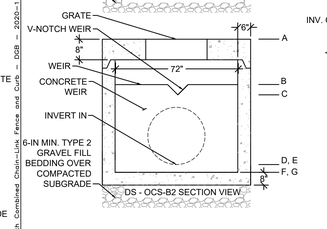
Outlet Control Structure Detail Table			
DS-OCS-A1			
	TYPE	DESCRIPTION	INV.
A	GRATE	2.5' x 2.5' GRATE RIM	644.00
B	WEIR	RECTANGULAR WEIR	643.00
C	ORIFICE	4" DIAMETER	642.50
D	INVERT OUT	12" WEST	640.00

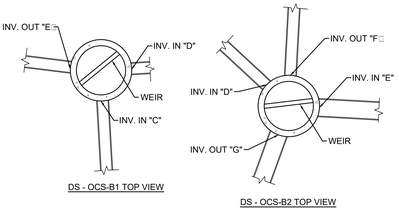
DS-OCS-A2			
	TYPE	DESCRIPTION	INV.
A	GRATE	2.5' x 2.5' GRATE RIM	656.00
B	INVERT IN	12" EAST	648.69
C	INVERT OUT	12" NORTHWEST	648.59

GENERAL NOTES:
1□ ALL OUTLET CONTROL STRUCTURES ARE 6-FT DIAMETER MANHOLES. SEE SPECIFICATION SECTION 33 41 00 - STORM WATER OUTLET STRUCTURES.
2□ FOR ALL STRUCTURES, PROVIDE 12-IN SUMP MINIMUM.
3□ INTERNAL WEIR WALL TO BE 4-IN MINIMUM THICKNESS.

2 Outlet Control Structure-HS (A1-A2)
NTS







Outlet Control Structure Detail Table			
DS-OCS-B1			
	TYPE	DESCRIPTION	INV.
A	GRATE	2.5' x 2.5' GRATE RIM	652.10
B	WEIR	RECTANGULAR WEIR	649.60
C	INVERT IN	12" EAST	649.10
D	INVERT IN	12" NORTH	646.50
E	INVERT OUT	12" SOUTH	646.25

DS-OCS-B2			
	TYPE	DESCRIPTION	INV.
A	GRATE	2.5' x 2.5' GRATE RIM	648.00
B	WEIR	RECTANGULAR WEIR	647.00
C	WEIR	45° V-NOTCH	646.50
D	INVERT IN	12" SOUTH	645.00
E	INVERT IN	18" NORTH	644.00
F	INVERT IN	12" WEST	645.50
G	INVERT OUT	18" EAST	645.50

GENERAL NOTES:
1□ ALL OUTLET CONTROL STRUCTURES ARE 6-FT DIAMETER MANHOLES. SEE SPECIFICATION SECTION 33 41 00 - STORM WATER OUTLET STRUCTURES.
2□ FOR ALL STRUCTURES, PROVIDE 12-IN SUMP MINIMUM.
3□ INTERNAL WEIR WALL TO BE 4-IN MINIMUM THICKNESS.

3 Outlet Control Structure-MS (B1-B2)
NTS

S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-006-013
S.E.D. Control No. 48-01-01-06-0-004-020

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH ARCHITECTS & ENGINEERS

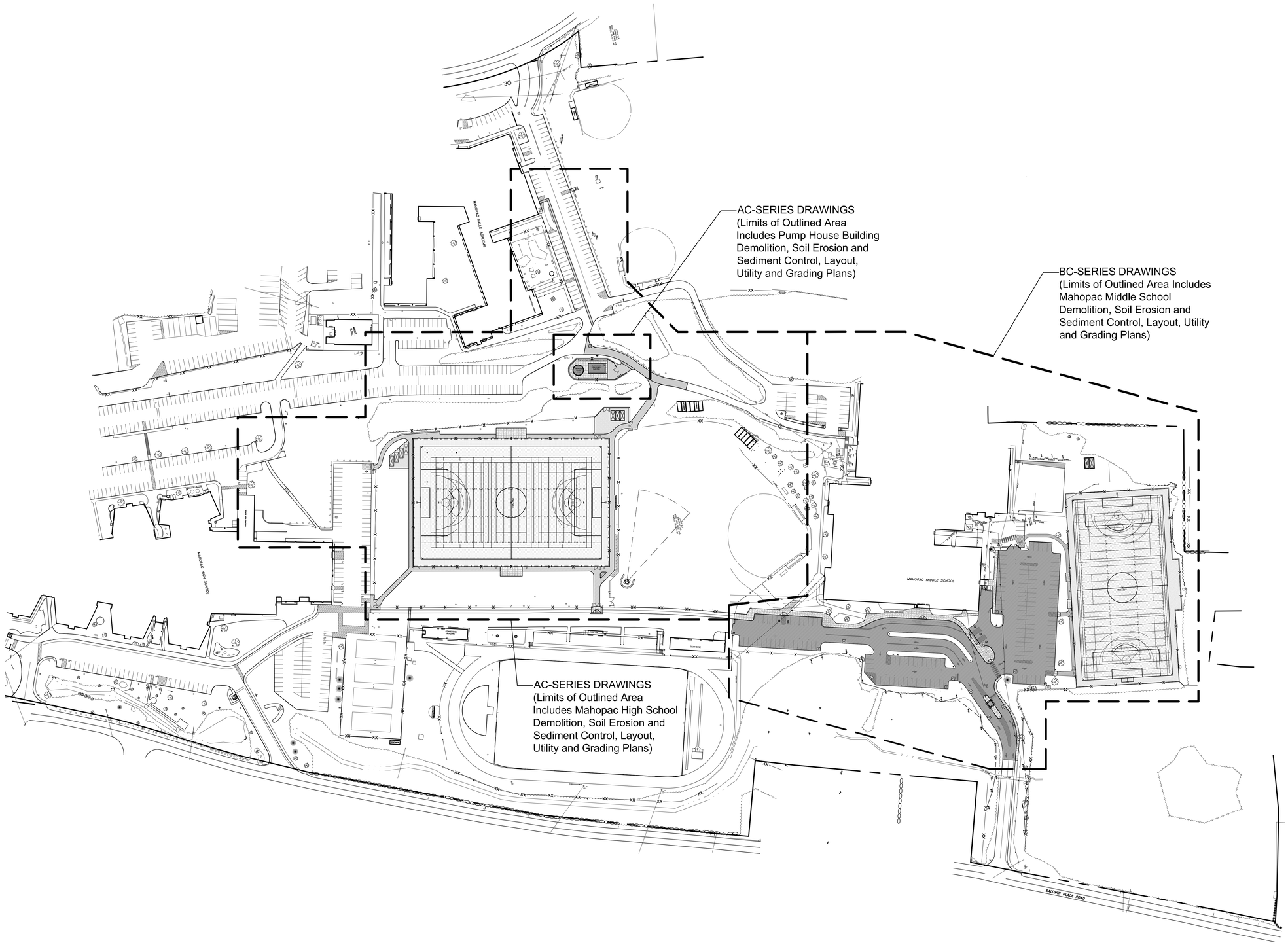
Mahopac Central School District
Mahopac, NY

Reconstruction To:
Mahopac Campus
(High School / Middle School)

Site Details

Drawn by:	Date:	Drawing No.:
JRS	06/21/20	ZC506

T+ Project No.: 121111-19002



General Site Notes

1. SEE DRAWINGS AC100 AND BC100 FOR GENERAL SITE NOTES THAT APPLY TO ALL AC-SERIES AND BC-SERIES OF DRAWINGS.
2. SEE AG300 FOR MAHOPAC HIGH SCHOOL SITE CODE COMPLIANCE PLAN.
3. SEE AG300 FOR NEW PUMP HOUSE SITE CODE COMPLIANCE PLAN.
4. SEE BG300 FOR MAHOPAC MIDDLE SCHOOL SITE CODE COMPLIANCE PLAN.

1 Overall Site Key Plan
1" = 60'

0 40□ 80□ 160□
SCALE: 1" □80□

S.E.D. Control No. 48-01-01-06-0-006-013
S.E.D. Control No. 48-01-01-06-7-026-001
S.E.D. Control No. 48-01-01-06-0-003-008
S.E.D. Control No. 48-01-01-06-0-004-020

Rev. No.:	Date:	Description:

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

BID SET

TETRA TECH
ARCHITECTS & ENGINEERS

Mahopac Central School District
Mahopac, NY

Reconstruction to:
Mahopac High School

Overall Site Key Plan

Drawn by:	Date:	Drawing No.:
DGB	08/21/20	ZG100

T+ Project No.:
121111-19002

MAHOPAC HIGH SCHOOL

TENNIS COURTS

BALDWIN PLACE ROAD

LEGEND

L.A.	LANDSCAPED AREA	SB	SOIL BORING
○ P	POST	○ MB	MAIL BOX
▽	SIGN	○ TMH	TELEPHONE MANHOLE
⊕ IPF	IRON PIPE FOUND	□ TP	TELEPHONE PEDESTAL
⊕ CIRF	CAPPED IRON ROD FOUND	○ TSP	TRAFFIC SIGNAL POLE
⊕ IRS	IRON ROD FOUND	□ TSB	TRAFFIC SIGNAL BOX
○ DS	DOWNSPOUT	○ EMH	ELECTRIC MANHOLE
□ CB	CATCH BASIN	○ UP	UTILITY POLE
○ DMH	DRAIN MANHOLE	☼ LP	LIGHT POLE
○ SMH	SANITARY MANHOLE	○ ICV	IRRIGATION CONTROL VALVE
○ CO	CLEANOUT	○ HYD	HYDRANT
⊙ GV	GAS VALVE	○ WV	WATER VALVE
		○ WMH	WATER MANHOLE

OHV — OVERHEAD WIRES
FO — UNDERGROUND FIBER OPTIC
T — UNDERGROUND TELEPHONE
G — UNDERGROUND GAS
W — UNDERGROUND WATER
E — UNDERGROUND ELECTRIC
OHR — OVERHEAD ROOF

MAP NOTES:

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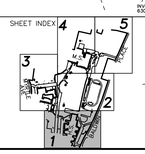
BAR SCALE
30 0 15 30 60
1 inch = 30 ft.

SHEET INDEX



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BOUNDARY & TOPOGRAPHIC SURVEY OF A PORTION OF MAHOPAC MAIN CAMPUS

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

T.P.N. – 75.11-1-4
T.P.N. – 75.11-1-5
T.P.N. – 75.14-1-14
T.P.N. – 75.14-1-36
Project No. – 16.06
Scale – 1"=30 feet
Sheet 1 of 5
Survey Date – 4/27/16
Map Date – 5/17/16
Print Date – _____
Checked By – RTB
Revisions –
9/12/19 – update/extend

Survey Prepared By:
BOLTON
LAND SURVEYING, P.C.
P.O. Box 265 – Pulkaski, NY 13142
TEL(315)298-5210 FAX:298-6787

ROBERT T. BOLTON
LAND SURVEYOR
ROBERT T. BOLTON
049880
STATE OF NEW YORK
L.S.#49880

DWG. NAME=MAHOPAC MS

ZV001

LANDS N/F
MAHOPAC CSD
BOOK 1893 PAGE 343
PARCEL 75.14-1-36

LANDS N/F
STECKLE
BOOK 1576 PAGE 145
PARCEL 75.11-1-1

ARTIFICIAL
TURF FIELD

ALUMINUM
GRANDSTAND

BALDWIN PLACE ROAD

LEGEND

- L.A. LANDSCAPED AREA
- ○ P POST
- — S — SIGN
- ⊙IPF IRON PIPE FOUND
- ⊙CIRF CAPPED IRON ROD FOUND
- ⊙IRS IRON ROD FOUND
- ○DS DOWNSPOUT
- □ CB CATCH BASIN
- ○DMH DRAIN MANHOLE
- ○SMH SANITARY MANHOLE
- ○CO CLEANOUT
- ○GV GAS VALVE
- SB SOIL BORING
- MB MAIL BOX
- ○TM TELEPHONE MANHOLE
- □TP TELEPHONE PEDESTAL
- ○TSP TRAFFIC SIGNAL POLE
- □TSB TRAFFIC SIGNAL BOX
- ○EMH ELECTRIC MANHOLE
- UP UTILITY POLE
- LP LIGHT POLE
- ○ICV IRRIGATION CONTROL VALVE
- ○HYD HYDRANT
- ○WV WATER VALVE
- ○WMH WATER MANHOLE
- OHV OVERHEAD WIRES
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- T UNDERGROUND TELEPHONE
- G UNDERGROUND GAS
- W UNDERGROUND WATER
- E UNDERGROUND ELECTRIC
- OVERHEAD ROOF

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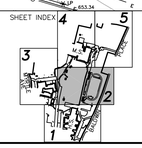
BAR SCALE
30 0 15 30 60
1 inch = 30 ft.

SHEET INDEX



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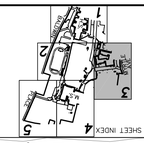

BAR SCALE
1 inch = 30 ft.
30 0 15 30 60

LEGEND

L.A.	LANDSCAPED AREA	SOIL BORING	
○	POST	MAIL BOX	
⊖	SIGN	TELEPHONE PEDESTAL	
○	IRON PIPE FOUND	TELEPHONE MANHOLE	
○	IRON ROD FOUND	TRAFFIC SIGNAL POLE	
○	CAPPED IRON ROD FOUND	TRAFFIC SIGNAL BOX	
○	DOWNSPOUT	UTILITY POLE	
□	CATCH BASIN	LIGHT POLE	
○	SANITARY MANHOLE	IRRIGATION CONTROL VALVE	
○	DRAIN MANHOLE	HYDRANT	
○	CLEANOUT	WATER VALVE	
○	GAS VALVE	WATER MANHOLE	

OVERHEAD WIRES
UNDERGROUND FIBER OPTIC
UNDERGROUND TELEPHONE
UNDERGROUND ELECTRIC
UNDERGROUND WATER
UNDERGROUND GAS
UNKNOWN UTILITY
OVERHEAD ROOF

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T.P.N. – 75.11-1-4
T.P.N. – 75.11-1-5
T.P.N. – 75.11-1-14
T.P.N. – 75.14-1-36
Scale – 1"=30 feet
Map Date – 4/27/16
Survey Date – 3/17/16
Revisions – 9/12/19 – update/extend
Checked By – RTB
Field Date – _____
Print Date – _____
Sheet 3 of 5
Project No. – 16.06

ROBERT T. BOLTON
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Survey Prepared By

L.S. #49880

ROBERT T. BOLTON
LICENSED LAND SURVEYOR
STATE OF NEW YORK
049880

ZV001

LEGEND

L.A.	LANDSCAPED AREA	SB	SOIL BORING
○ P	POST	MB	MAIL BOX
— S —	SIGN	○ TMH	TELEPHONE MANHOLE
⊙IPF	IRON PIPE FOUND	□ TP	TELEPHONE PEDESTAL
⊕CRF	CAPPED IRON ROD FOUND	○ TSP	TRAFFIC SIGNAL POLE
⊕IRS	IRON ROD FOUND	□ TSB	TRAFFIC SIGNAL BOX
⊕25	DOWNSPOUT	○MH	ELECTRIC MANHOLE
□ CB	CATCH BASIN	○ UP	UTILITY POLE
○ DMH	DRAIN MANHOLE	☼LP	LIGHT POLE
○ SMH	SANITARY MANHOLE	○ ICV	IRRIGATION CONTROL VALVE
○ CO	CLEANOUT	⊕ HYD	HYDRANT
⊙GV.	GAS VALVE	⊗ WV	WATER VALVE
		○ WMH	WATER MANHOLE

OHV OHV OHV	OVERHEAD WIRES
FO FO FO	UNDERGROUND FIBER OPTIC
T T T	UNDERGROUND TELEPHONE
G G G	UNDERGROUND GAS
W W W	UNDERGROUND WATER
E E E	UNDERGROUND ELECTRIC
	OVERHEAD ROOF

MAP NOTES:

1) NORTH ORIENTATION IS PER N.Y.S. PLANE COORDINATES (NAD83).
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 SCHOOL DISTRICT 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 36079C0207E; WITH AN EFFECTIVE DATE OF MARCH 4, 2013. ZONE X; ENTIRE PARCEL LIES OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

BAR SCALE
30 0 15 30 60
1 inch = 30 ft.

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Sheet 4 of 5
Survey Date – 4/27/16
Map Date – 5/17/16
Print Date – ———
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9/12/19 – update/extend

BOUNDARY & TOPOGRAPHIC SURVEY OF A PORTION OF
MAHOPAC MAIN CAMPUS
MAHOPAC CENTRAL SCHOOL DISTRICT
TOWN OF CARMEL, PUTNAM COUNTY, STATE OF NEW YORK
PREPARED FOR TETRA TECH ARCHITECTS & ENGINEERS

Survey Prepared By:
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"Unauthorized alteration or addition to a survey map bearing a licensed land surveyor's seal is a violation of section 7209, subdivision 2, of the New York State Education Law."
"Only copies from the original of this survey marked with an original of the land surveyor's embossed seal shall be considered to be valid true copies."
"Additional copies certified to other parties may be obtained at a fee in accordance with the existing code of practice for land surveys adopted by the New York State Association of Professional Land Surveyors. Said certifications shall run only to the persons for whom the survey was prepared, and to the parties to whom certification is transferred by the title and lending institution listed hereon and to the assignees of the lending institution."
"Certifications are not transferrable to additional institutions or subsequent owners."
"Certifications shall not extend to unobserved improvements or encroachments, if any exist or are shown hereon, are not certified."
"Any survey copies is not valid, and the surveyor assumes no liability if it is used in conjunction with any "Survey Affidavit" or similar document, statement or mechanism to obtain title insurance."

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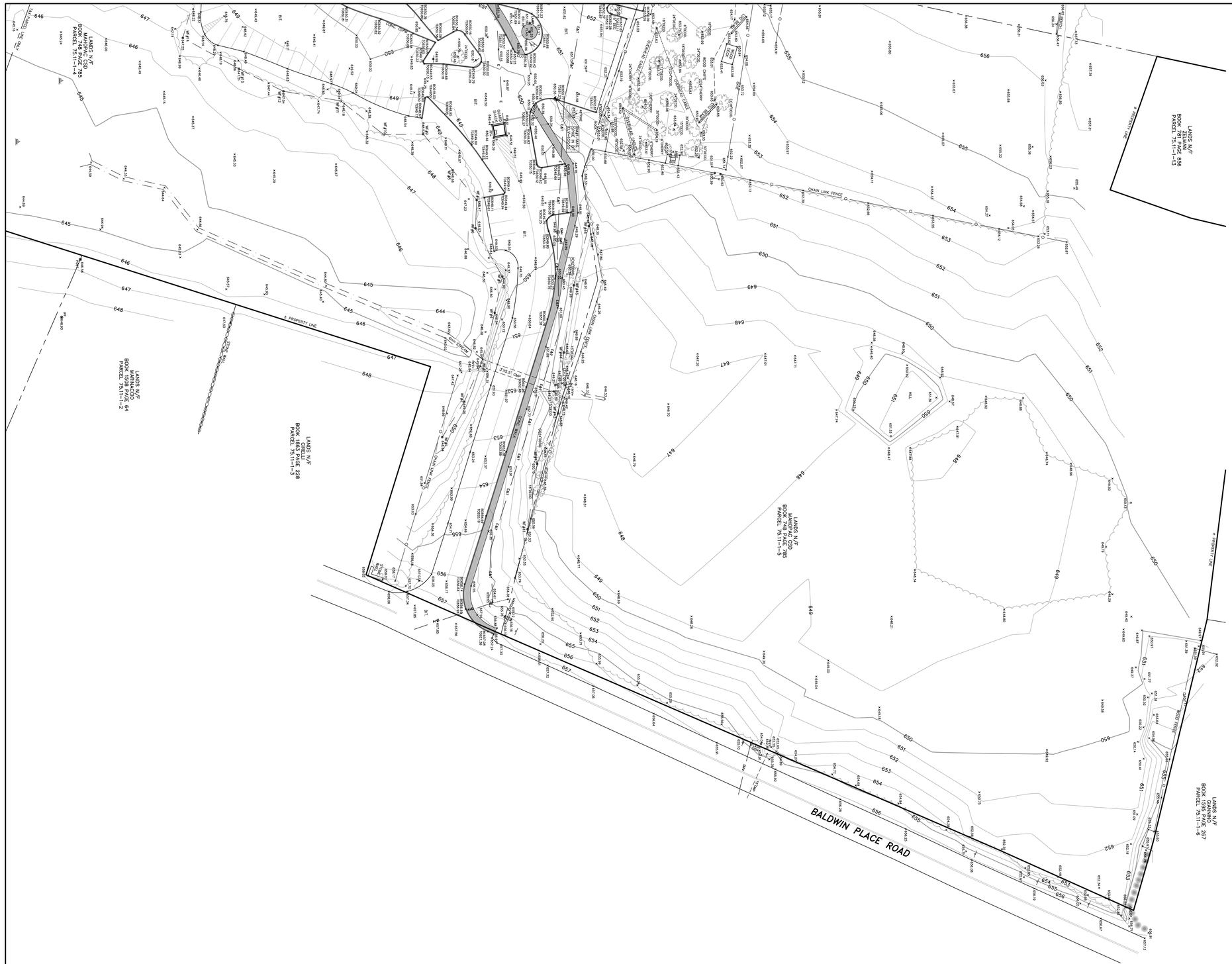
STATE OF NEW YORK
L.S.#49880

DWG. NAME=MAHOPAC MS

ZV004



LEGEND

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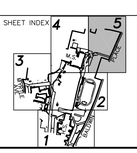

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