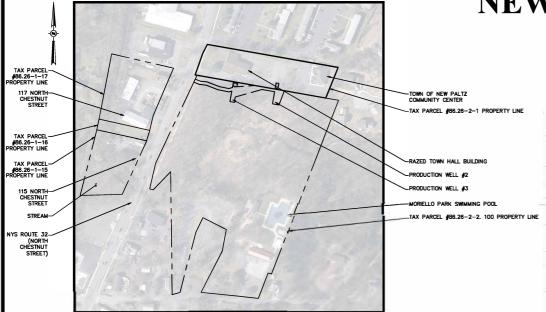
# VILLAGE OF NEW PALTZ WATER SUPPLY AND TREATMENT MORIELLO PARK PROPERTY

**NEW PALTZ, ULSTER COUNTY, NY** 



LOCATION MAP SCALE: 1"=200'

### APPLICANT:

### VILLAGE MAYOR TIMOTHY ROGERS

DEPUTY MAYOR

### KT TOBIN VILLAGE TRUSTEES

### VILLAGE CLERK:

### ENGINEER:

CHAZEN ENGINEERING & LAND SURVEYING CO., D.P.C. 21 FOX STREET, POUGHKEEPSIE, NY 12601 PHONE: (845) 454–3980

### SURVEYOR:

CHAZEN ENGINEERING & LAND SURVEYING CO., D.P.C. 21 FOX STREET, POUGHKEEPSIE, NY 12601 PHONE: (845) 454-3980

### HYDROGEOLOGIST:

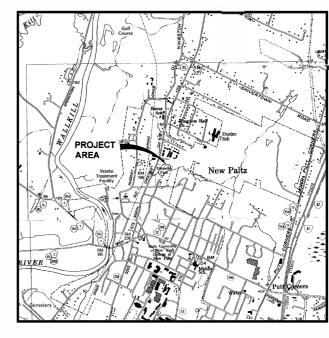
CHAZEN ENGINEERING & LAND SURVEYING CO., D.P.C. 21 FOX STREET, POUGHKEEPSIE, NY 12601 PHONE: (845) 454–3980

### ELECTRICAL ENGINEER:

### CHIEF WATER SYSTEM OPERATOR:

BLFU TERWILLIGER

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AREA MAP

USGS ROSENDALE QUADRANGLE USGS CLINTONDALE QUADRANGLE

## NEW YORK STATE DEPARTMENT OF HEALTH **APPROVAL APPROVED** Bureau of Water Supply Protection

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G001

Dig Safely. New York

Dig With Care 800-962-7962

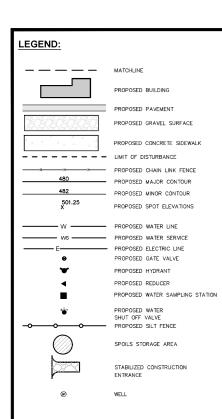




CHAZEN ENGINEERING, LAND SURVEYING O Troy, NY COMPANIES o White Plains, NY

NEW PALTZ MORIELLO PARK

**TITLE SHEET** 



### **GENERAL NOTES:**

- THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD LAYOUT. THE CONTRACTOR SHALL PROVIDE MARKED UP AS-BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE SUBMITTED TO THE KONICER FOR REVIEW AND APPROVAL.

- 5. CONTRACTOR SHALL REPLACE OR REPAIR ALL CURBING, PAVING, SIDEWALKS, LAWN OR OTHER STRUCTURES OR FACILITIES DISTURBED OR DAMAGED BY TERCHING OR EXCAVATION OPERATIONS TO A CONDITION EQUAL TO EXISTING. CONTRACTOR SHALL REMOVE AND REPLACE AFFECTED CURBING AND SIDEWALK TO NEAREST JOINT. REMOVE PAVEWENT AND REPLACE TO SAW CUT LINE. SAW CUT IN STRAIGHT LINE TO POINT NEEDED TO BLEND GRADE. REMOVE LAVEMENT AND REPLACE TO SAW CUT LINE. SAW CUT IN STRAIGHT LINE TO POINT NEEDED TO BLEND GRADE. REMOVE LAWN AND REPLACE TO MINIMUM LIMIT OF EXCAVATION ALONG A STRAIGHT LINE.
- 6. CONTRACTOR SHALL BOX ALL TREES AND HOUSE ALL SHRUBS AND HEDGES BEFORE PLACING EARTH AGAINST OR NEAR THEM. ORNAMENTAL TREES, SHRUBS AND HEDGES WHICH MUST BE REMOVED DURING CONSTRUCTION SHALL BE HEALED IN AND RE-PLANTED IN AS GOOD A CONDITION AS THEY WERE BEFORE THEIR REMOVAL ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- 7. THE EROSION CONTROL MEASURES DEPICTED ON THE PLANS ARE REQUIRED AS MINIMUM MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING ANY AND ALL GENERAL AND PARTICULAR MEASURES AS DEEMED NECESSARY BY THE OWNER'S FIELD REPRESENTATIVE AND THE ENGINEER.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR APPROVAL BY THE ENGINEER.
- CONTRACTOR SHALL VERIFY ALL UTILITY SERVICES PRIOR TO INTERRUPTION AND TERMINATION.
- 10. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED BY THE CONTRACTOR AT ALL UTILITY CONNECTION LOCATIONS AND AS NEEDED TO VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK.
- 13. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE ENGINEER AND THE FACILITY STAFF. NOTIFY THE ENGINEER AND THE FACILITY STAFF A MINIMUM OF 48 HOURS BEFORE CONNECTION TO EXISTING SYSTEMS IS MADE.
- 14. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL AND RESIDENTIAL PROPERTIES WHENEVER POSSIBLE OR AS DIRECTED BY THE ENGINEER.
- 15. ALL EXCAVATIONS SHALL BE BACKFILLED TO EXISTING GRADE AT THE END OF EACH WORK DAY OR AS ORDERED BY ENGINEER.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS AND ASSOCIATED CONDITIONS.
- MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE.
- 18. CONTRACTOR SHALL REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
- CONTRACTOR SHALL TRANSPORT SURPLUS EXCAVATED & DEMOLISHED MATERIALS FROM PROJECT AREA AND LEGALLY DISPOSE OF THEM.
- 20. CONTRACTOR SHALL PROVIDE SMOOTH TRANSITION TO EXISTING GRADES.
- 21: CONTRACTOR SHALL STEP ALL EXISTING ORGANIC SOIL FROM ALL AREAS, WITHIN THE GRADING UNIT LUKE WHERE EXCAVATION OR FILL IS REGURED, MAIN AND AND AND CAPET OF STATEMENT OF S

### SITE PLAN NOTES:

- 1. ALL PAVEMENT RESTORATION SHALL MEET AND MATCH EXISTING GRADES. ALL SAWCUT LINES SHALL BE PARALLEL AND CURVILINEAR TO EXISTING OR PROPOSED CURBING AND SHALL BE A CONSTANT DISTANCE OF 18" MIN AWAY.
- 3. NOTIFY ENGINEER A MINIMUM OF 48 HOURS PRIOR TO INITIALIZATION OF ANY WORK ON SITE.
- CONTRACTOR IS RESPONSIBLE FOR PROPERLY & SAFELY MAINTAINING AREA BETWEEN ALL ADJOINING PROPERTIES.
- NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE SITE PROPERTY LINES OR PUBLIC RIGHT-OF-WAY, EXCEPT WHERE INDICATED ON THE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL DISTURBED SURFACES.

### BUILDING PERMIT:

- THE GENERAL CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR APPLING FOR AND OBTAINING THE REQUIRED BUILDING PERMIT WITH THE VILLAGE OF NEW PALIZ. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEFRATING ALL PERMIT AND CONSTRUCTION/IMSPECTION FEES ASSOCIATED WITH THE NEW STRUCTURES.
- THE COST FOR PREPARING AND OBTAINING THE BUILDING PERMIT AND ALL ASSOCIATED PERMIT AND INSPECTION FEES SHALL BE INCLUDED IN THE CONTRACTOR'S BID.

### **GRADING NOTES:**

- PRIOR TO SITE DISTURBANCE, CONTRACTOR TO INSTALL EROSION & SEDIMENT CONTROL MEASURES.
- ROCK REMOVAL IF REQUIRED SHALL BE BY MEANS OF MECHANICAL METHODS USING HYDRAULIC IMPACT HAMMERS ONLY. BLASTING SHALL NOT BE PERMITTED.
- STRIP ALL TOPSOIL PRIOR TO COMMENCING EARTHWORK OPERATIONS. TOPSOIL MAY BE STORED AND REUSED IN LAWN AND PLANTING AREAS ONLY.
- 4. TOPSOIL AND SEED ALL AREAS DISTURBED BY CONSTRUCTION THAT ARE TO
- BOX ALL TREES AND HOUSE ALL SHRUBS AND HEDGES BEFORE PLACING EARTH AGAINST OR NEAR THEM. ORNAMENTAL TREES, SHRUBS AND HEDGES WHICH MUST BE REMOVED DURING CONSTRUCTION SHALL BE HEALED IN AND RE-PLANTED IN AS GOOD A CONDITION AS THEY WERE BEFORE THEIR REMOVAL ANY DAMAGED TREES, SHRUBS, AND/OR HEDGES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL EARTHWORK SHALL BE SMOOTHLY AND EVENLY BLENDED INTO EXISTING CONDITIONS. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF ANY EASEMENT OR PROPERTY LINE.

### UTILITY NOTES:

- LUNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING RECORD DRAWNINGS. THE LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING RECORD DRAWNINGS. THE LOCATION OF UNDERGROUND UTILITIES SHOWN AND THE SHOWN DO NOT NOT SURVEY COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN SIZE AND LOCATION OF ALL BUSICENCE OF WHICH ARE NOT KNOWN SIZE AND LOCATION OF ALL MAPPROPRIATE AUTHORITIES PRIOR.
- . THE CONTRACTOR SHALL VERIFY THE PRESENCE OF AND EXACT LOCATION OF ALL UTILITES PRIOR TO COMMENCING ANY EXCAVATION WORK AS THE EXAC LOCATION OF UTILITIES MAY DIFFER FROM THE LOCATION SHOWN, ANI ADDITIONAL UTILITIES MAY E
- THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING FOR THE PROPOSED STRUCTURES AND WATER LINES AS THE EXACT LOCATION OF UNDERFORMORD STRUCTURES AND UNLITES ARE NOT KNOWN. ANY DAMAGE TO EXISTING STRUCTURES/UTILITIES ABOVE OR BELOW GRADE, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT HIS OWN EXPENSE.
- . THE CONTRACTOR SHALL COMPLY WITH NEW YORK STATE INDUSTRIAL CODE RULE 53, PRIOR TO DIGGING. CALL U.F.P.O. AT 1-800-962-7962 TO HAVE PUBLIC UTILITIES LOCATED.
- THE MAXIMUM PIPE BEND FITTING IS 45" UNLESS AS SPECIFIED BY THE ENGINEER.

### WATER NOTES:

- THE CONTRACTOR SHALL OBTAIN A WORK PERMIT FROM THE TOWN AND/OR COUNTY DPW PRIOR TO PROCEEDING WITH ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY (R.O.W). THIS INCLUDES EXCAVATION TO VERIFY UTILITY LOCATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL PROVISIONS OF DPW WORK PERMITS.
- THE WATER LINE MAY BE FLEXED WITHIN PIPE MANUFACTURER SPECIFICATIONS OR LAID DEEPER IN AREAS WHERE CROSSINGS WITH UTILITIES OCCUR.
- PIPE BEND FITTINGS SHOWN ON THE DRAWINGS AND DETAILS ARE INDICATIVE OF PROBABLE DIRECTIONAL CHANGES IN THE PROPOSED WATER MAIN ALIONMENT. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL FITTINGS, ETHER SHOWN OR FIELD REQUIRED, AS PART OF HIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- SHEETING AND EXCAVATION BRACING FOR THE WATERMAIN INSTALLATION SHALL BE PROVIDED IN ACCORDANCE WITH OSHA REQUIREMENTS TO SUIT EXISTING SOIL CONDITIONS. SHEETING, IF REQUIRED, SHALL BE INGHT WOOD SHEETING AND SHALL BE LET IN PLACE, AND AFTER BACKFILLING SHALL BE CUT AT GROUND LEVEL OR AS ORDERED BY THE ENGINEER.
- THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION PROGRESS SCHEDULE FOR APPROVAL PRIOR TO CONSTRUCTION. THE ENGINEER MAY REQUIRE REGULAR REVISIONS TO THE PROGRESS SCHEDULE PRIOR TO FINAL ACCEPTANCE.
- INSTALLATION AND TESTING OF THE PROPOSED WATER MAINS AND WELLS SHALL BE INSPECTED AND CERTIFIED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48 HOURS PRIOR TO COMMENCING WORK, AND AGAIN 48 HOURS PRIOR TO PERFORMING THE REQUIRED TESTING. SEE SPECIFICATIONS FOR TESTING REQUIREMENTS.
- ALL NEW WATER MAIN INSTALLATIONS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH AWWA STANDARD C 600 (LATEST REUNSION) AT A PRESSURE OF 150 PS, OR 1.5 TIMES THE WORKING PRESSURE OF THE SYSTEM AS A MINIMUM. ALLOWABLE LEAKAGE OF THIS TEST SHALL BE AS DEFINED IN SECTION 4.2 OF SAID AWWA SPECIFICATION.
- WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C-651 (LATEST EDITION), AS AMENDED EXCEPT THAT THE TREBET METHOD, SHALL NOT BE USED. MELLS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C-654. WATER STORAGE TANK SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C-652.
- O. CONTRACTOR SHALL PROVIDE ALL TEMPORARY CONNECTIONS REQUIRED FOR DISINFECTION PROCEDURES AND CONDUCT PRESSURE TESTS. CONTRACTOR SHALL REMOVE ALL TEMPORARY CONNECTIONS AFTER DISINFECTION AND TESTING AND LEAVE CORPORATION STOPS IN PLACE AND CLOSED. BACTERIOLOGICAL EXAMINATION OF WATER SAMPLES COLLECTED AFTER DISINFECTION SHALL BE MADE BY THE CONTRACTOR AT HIS/HER OWN EXPENSE AND ACCORDING TO DOH ACCEPTABLE PROTOCOLS. ALL TESTING SHALL BE PERFORMED BY A NYS CERTIFIED LAB. SAMPLES SHALL BE TAKEN AT VARIOUS POINTS ON THE SYSTEM AS SPECIFED BY THE ENGINEER, IF EXAMINATION DETERMINES THAT THE WATER IS UNFIT FOR CONSUMPTION, THE DISINFECTION
- PROCESS SHALL BE REPEATED AT THE CONTRACTOR'S EXPENSE UNTIL POTABLE SAMPLES ARE ACHIEVED. COSTS FOR ALL WATER QUALITY ANALYSES SHALL BE BORNE OUT BY THE CONTRACTOR AND INCLUDED IN ITS BID.
- 13. RESTORATION OF ALL DISTURBED AREAS SHALL BE TO A CONDITION EQUAL TO OR BETTER THAN PRIOR TO CONSTRUCTION, WITH THE ENGINEER BEING THE SOLE JUDGE OF THE QUALITY OF RESTORATION.
- 14. CONTRACTOR SHALL TEMPORARILY RELOCATE ALL IMPROVEMENTS SUCH AS BUT NOT LIMITED TO MAILBOXES, FENCES, AND MONUMENTS IN THE CONSTRUCTION APEA UNITL COMPLETION OF WORK ONDER WORK HAS BEEN COMPLETED, THEY SHALL BE RETURNED TO THEIR ORIGINAL LOCATION AND PROPERLY INSTALLED.
- MATERIALS AND EQUIPMENT USED IN CONSTRUCTION THAT WILL CONTACT POTABLE WATER SHALL BE ANSI/NSF CERTIFIED OR EQUIVALENT.

### DEWATERING:

. THE EXCAVATIONS AND TRENCHES SHALL BE DE-WATERED INTO A DIRT BAG PROTECTED BY SILT FENCE. ONCE DE-WATERING IS COMPLETE, THE DIRT BAG SHALL BE DISPOSED OF IN A SUITABLE UPLAND LOCATION.

### PAVING NOTES:

- NO VEHICULAR TRAFFIC OF ANY SORT SHALL BE PERMITTED ON THE SURFACE OF SUBBASE COURSE MATERIAL ONCE IT HAS BEEN FINE GRADED, COMPACTED, AND IS READY FOR PANING, SUBBASE MATERIAL SO PREPARED FOR PAVING SHALL BE PAVED WITHIN THREE DAYS OF PREPARATION.
- SUBBASE MATERIAL AND THE VARIOUS ASPHALT CONCRETE MATERIALS CALLED FOR IN THESE DRAWINGS SHALL CONFORM WITH THE REFERENCED SECTION OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, LATEST RELEASE CONSTRUCTION SHALL BE AS FURTHER SET FORTH IN THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED FOR IN THESE DRAWINGS.
- PLACE ASPHALT CONCRETE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF USING A SELF-PROPELLED PAVING MACHINE, WITH VIBRATING SCREED, PLACEMENT IN INACCESSIBLE AND SMALL AREAS MAY BE BY HAND.
- 4. PROVIDE JOINTS BETWEEN OLD AND NEW PAVEMENTS OR BETWEEN SUCCESSIVE
- 5. TACK COAT WHEN SPECIFIED OR CALLED OUT ON THE DRAWINGS OR BY THE REFERENCED SPECIFICATION SHALL CONFORM WITH THE FOLLO
- A. TACK COAT SHALL MEET THE MATERIAL REQUIREMENTS OF 702-90
  ASPHALT EMUSION FOR TACK COAT OF THE NEW YORK STATE
  DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR
  CONSTRUCTION AND MATERIALS, DATED MAY 1, 2008, SHALL BE APPLIED
  IN ACCORDANCE WITH THOSE SPECIFICATIONS AND AS OTHERWISE PROVIDED
  FOR IN THESE DRAWNIOS.
- B. REMOVE LOOSE AND FOREIGN MATERIAL FROM ASPHALT SURFACE BEFORE PAVING NEXT COURSE. USE POWER BROOMS, BLOWERS OR HAND BROOM.
- C. APPLY TACK COAT TO ASPHALT PAVEMENT SURFACES & AND SURFACES OF CURBS, GUTTERS, MANHOLES, AND OTHER STRUCTURES PROJECTING INTO OR ABUTTING PAVEMENT. DRY TO A "TACKY" CONSISTENCY BEFORE PAVING.
- D. TACK COAT ENTIRE VERTICAL SURFACE OF ABUTTING EXISTING PAVEMENT.
- AFTER COMPLETION OF PAVING AND SURFACING OPERATIONS, CLEAN SURFACES OF EXCESS OR SPILLED ASPHALT, GRAVEL OR STONE MATERIALS TO THE SATISFACTION OF THE ENGINEER.

### WATER SYSTEM TESTING:

- FOLLOWING DISINFECTION AND THE INITIAL START-UP OF THE WATER SUPPLY AND TREATMENT SYSTEM, THE CONTRACTOR SHALL COLLECT WATER SAMPLES FROM THE SOURCE WATER (UNITRACTED) AND AT A POINT AFTER TREATMENT (ENTRY POINT) AND SUBMIT SAMPLES TO THE VILLAGE CONTRACTED CERTIFIED LABORATORY FOR ANALYSIS.
- SOURCE WATER AND TREATED WATER SAMPLES SHALL BE TESTED FOR THE FOLLOWING PARAMETERS:
- . TOTAL COLIFORM/E.COLI . RESIDUAL CHLORINE
- MANGANESE
- . IF THE TREATED WATER IS FOUND TO TEST POSITIVE FOR THE PRESENCE OF COLLORM BACTERIA, THE CONTRACTOR SHALL MIMEDIATELY COLLECT ANOTHER SAMPLE AFTER EXTENSIVE SULSHING OF THE WATER SYSTEM AND RE-TEST FOR COLLORM. SHOULD THIS SAMPLE ALSO TEST POSITIVE FOR COLFORM BACTERIA, THE CONTRACTOR SHALL RE-DISNIFECT THE ENTIRE WATER SYSTEM PER AWMA STANDARDS AND RE-TEST AGAIN. TWO BACTERIOLOGICAL SAMPLES SHALL BE COLLECTED AND TESTED NOT LESS THAN 30 MINUTES APART, IN ACCORDANCE WITH AWWA STANDARD C653.

### IRON AND STEEL PRODUCTS FOR PUBLIC USE:

- VILLAGE OF NEW PALTZ IS REQUIRED BY LAW TO PROCURE ONLY IRON STEEL PRODUCTS WHICH ARE MANUFACTURED IN THE UNITED STATES PREFERENCE TO PRODUCTS AND MATERIALS MADE IN NEW YORK
- 2. ONLY MANUFACTURED ARTICLES, MATERIALS, AND SUPPLIES THAT HAVE BEEN MANUFACTURED IN THE UNITED STATES SUBSTANTIALLY ALL FROM ARTICLES, MATERIALS, OR SUPPLIES MIND, PRODUCED, OR MANUFACTURED IN THE UNITED STATES, SHALL BE ACQUIRED FOR PUBLIC USE UNLESS THE TOWN DETERMINES THEIR ACQUISITION TO BE INCONSISTENT WITH THE PUBLIC INTEREST OR THEIR COST TO BE UNREASONABLE.
- 3. MANUFACTURED ARTICLES, MATERIALS AND SUPPLIES INCLUDE, BUT IS NOT LIMITED TO, STEEL PIPES, DUCTILE IRON PIPES, FITTINGS, COUPLINGS, VALVES, TAPPING SLEEVES, GASKETS, HYDRANTS, VALVE BOXES, CURB STOP CORPORATION STOP SERVICE SADDLES

### HORIZONTAL DIRECTIONAL DRILLING NOTES:

THE CONTRACTOR SHALL DEVELOP A MEANS AND METHODS PLAN FOR THE DRILLING OPERATION AND PRESENT IT TO THE WILLAGE AND NYSDOT FOR APPROVAL PRIOR TO INITIATING WORK AT A MINIMUM, THE CONTRACTOR'S PLAN SHALL INCLUDE PROVISIONS FOR PRESSURE GAUGE MONITORING OF FRACK—OUT OF DRILLING FULIOS, AND A SPILL RESPONSE PLAN IN THE EYENT OF FRACK—OUT, THE SPILL RESPONSE PLAN SHALL ALSO COVER SPILLS FROM THE DRILLING AND RECEIVING PITS. FINALLY, THE PLAN SHALL DISCUSS MEANS TO PROPERLY DISPOSE OF DRILLING CLAYS OFF—SITE IN UPLANDIS.

### WELL ABANDONMENT NOTES:

- ELL ABANDONMENT NOTES:

  THE ABANDONMENT AND/OR DECOMMISSIONING OF ALL EXISTING WELLS MUST BE IN ACCORDANCE WITH THE PROCEDURES SET FORTH IN AWMA STANDARD ATOO-06, SECTION 4:10 DECOMMISSIONING OF TEST HOLES, PARTIALLY.

  COMPLETED WELLS, AND ABANDONED WELL SILULED OUT OF THE EXISTING WELL.

  ALL PUMPS, WIRING, AND PIPPING SHALL BE UILLED OUT OF THE EXISTING WELL.

  SEALED BY SUCH METHODS AS NECESSAY WHOLH ARE NOT IN USE SHALL BE SEALED BY SUCH METHODS AS NECESSAY OF MESTORE THE CONTROLLING GEOLOGICAL CONDITIONS WHICH EXISTED PRIOR TO CONSTRUCTION OR AS DIRECTED BY THE APPROPRIATE REQULATORY ACENCY.

  WELLS TO BE ABANDONED SHALLE (a) BE SEALED TO PREVENT UNDESIRABLE EXCHANGE OF WATER FROM ONE AQUIFET TO ANOTHER; (b) PREFERABLY BE FILLED WITH NEAT CEMENT GROUT; (c) HAVE FILL MATERIALS OTHER THAN CEMENT GROUT OR CONCRETE, DISN'RECED AND FREE OF FORDISM MATERIALS, AND (d) WHEN FILLED WITH CEMENT GROUT OR CONCRETE, THESE MATERIALS SHALL BE APPLIED TO THE WELL HOLE THROUGH A PIPP, TREME, OR BALLER.

  WELLS TO BE ABANDONED SHALL BE CERTIFIED BY A NYS PROFESSIONAL ENOUGH A PIPP. (TRIME, OR BALLER.).

### WATER PLANT NOTES:

- THE CONTRACTOR SHALL PROVIDE ALL PIPING, EQUIPMENT, CONTROLS AND ALL APPURTENANCES ASSOCIATED WITH THE PROPOSED WATER SUPPLY, TREATMENT & STORAGE FACILITIES AS SHOWN AND SPECIFIED ON THE PROJECT DRAWINGS FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
- ALL PIPING AND FITTINGS SHALL BE PROPERLY RESTRAINED, SUPPORTED AND BRACED FROM WALLS, CEILING AND FLOOR.
- 3. PIPE SUPPORTS SHALL BE ADJUSTABLE PIPE SADDLE SUPPORT W/YOKE FIG. B3092 C/W THREADED BASE STAND FIG. B308BT (ELECTRO-PLATED FINISH) BY B-LINE OR APPROVED EQUAL. INSTIALL PER MANUFACTURER'S RECOMMENDATIONS. SECURE AND ANCHOR BASE STAND TO FLOOR USING HILTI HIT HY150 STAINLESS STELL ADDESSIVE ANCHOR OR APPROVED EQUAL.
- 4. PVC SCH40 & SCH80 PIPE AND FITNOS SHALL CONFORM TO ASTM D-1785, ASTM D-2464, ASTM D-2466 AND ASTM D-2467 ALL PIPE AND FITTNOS SHALL BE MANUFACTURED FROM WINGON RIGID PVC COMPOUNDS PER ASTM D-1784 AND SHALL CONFORM TO NSF STANDARDS 61 AND 14 FOR USE WITH POTABLE WATER. JOINNEOFM TO NSF STANDARDS 61 AND 14 FOR USE WITH POTABLE WATER. JOINNEOFM PIPES AND FITTNOS SHALL BE ACCOMPLISHED THROUGH SOLVENT CONNECTIONS (ASTM D-2564) THAT IS ANS/NSF-61 CERTIFICE, THREADED OR FLANCED BND CONNECTIONS.
- COPPER TUBING SHALL BE TYPE L CONFORMING TO ASTM B-88 AND AWWA C-800. PRESSURE FITTINGS (WROUGHT OR CAST) SHALL CONFORM TO ASMEBIG.18, B16.22 & B16.24. JOINING OF PIPE AND FITTINGS SHALL BE ACCOMPLISHED USING FLARED, COMPRESSION AND SOLDER-TYPE CONNECTIONS.
- ALL ABOVE GROUND DUCTILE IRON PIPING AND FITTINGS SHALL HAVE FLANGED END CONNECTIONS. THE USE OF DUCTILE IRON FLANGE ADAPTER SUCH AS EBAA IRON SERIES 1000 E-7 FLANGE IS ACCEPTABLE IN LIEU OF THREADED OR WELDED FLANGES ON PLAIN END DUCTILE PIPE.
- SAMPLING TAPS (SMOOTH-NOSED) SHALL BE 1/2"MIP X PLAIN SPOUT LEAD-FREE ROUGH CAST CHROME HOSE BIB (USA BLUEBOOK STOCK # 47397) OR APPROVE EQUAL.
- 8. ALL PIPING SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD OBST. WELLS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C-654. FOLLOWING DISINFECTION CONTRACTOR SHALL COLLECT WATER SAMPLES TO VERIFY THE SANITARY QUALITY OF THE WATER ACCORDING TO THE SPECIFIED AWWA STANDARDS. ALL COSTS FOR LABORATORY ANALYSES SHALL BE PAID FOR BY CONTRACTOR.
- 9. ALL INDOOR WATER TREATMENT PIPING AND EQUIPMENT SHALL BE SUBJECTED TO A 1-HOUR PRESSURE TEST CONDUCTED AT THE SYSTEM WORKING PRESSURE OF 60 PSI. DURING THE TEST, THE PIPING AND EQUIPMENT SHALLBE WISUALLY INSPECTED FOR WATER LEAKS. ANY LEAKS DETECTED DURING THE COURSE OF THE TEST SHALL BE REPAIRED BY THE CONTRACTOR.
- ALL UNDERGROUND UTILITIES ARE SHOWN IN THEIR RELATIVE POSITION AND ARE FOR INFORMATIONAL PURPOSES ONLY, CONTRACTOR TO VERIFY THEIR ACTUAL LOCATION IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- . ANY CONDITION ENCOUNTERED IN THE FIELD DIFFERING FROM THOSE SHOWN HEREON, SHALL BE REPORTED TO THE DESIGN ENGINEER BEFORE CONSTRUCTION IS TO PROCEFU.
- 12. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED BY THE CONTRACTOR AT ALL UTILITY CONNECTION LOCATIONS AND AS NEED TO VERIFY EXISTING CONDITIONS PRIOR PERFORMING WORK.
- 13. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS AND ASSOCIATED
- 14. CONTRACTORS SHALL BE RESPONSIBLE FOR DEWATERING UTILITY TRENCHES AND EXCAVATIONS AND FOR THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK.

### LABELS ON CHEMICAL FEED SYSTEM:

- CHEMICAL SOLUTION TANK SHALL BE PROPERLY LABELED TO CLEARLY IDENTIFY ITS CONTENT AND USE (SODIUM HYPOCHLORITE).

### PIPE MARKINGS :

- SELF-STICK PIPE MARKERS SHALL BE PROVIDED TO CLEARLY IDENTIFY PIPE FLOW DIRECTION AND FLUID TYPE. PIPE MARKERS SHALL CONFORM TO ANSI A-13.1.
- THE PIPE MARKERS SHALL CONSIST OF 4-MIL FLEXIBLE VINYL LINER WITH A GLOSSY SURFACE FINISH, A HIGH-TACK ACRYLIC ADHESIVE BACK. SERVICE TEMPERATURE RANGE SHALL BE 20' TO 140' F.

### PERSONAL SAFETY AND PROTECTIVE EQUIPMENT:

A PAIR OF RUBBER GLOVES, APRON AND GOGGLES SHALL BE PROVIDED AND PLACED NEAR CHLORINATION EQUIPMENT.

### NEW YORK STATE

PAINTING/PIPING COLOR CODE

1. ALL ABOVEGROUND DUCTILE IRON PIPE AND FITTINGS SHALL BE PAINTED WITH 1 COAT OF PRIMER AND 2 FINISH COATS OF A RUSTPROOF EPOXY PAINT.

- WATER METERS, EQUIPMENT WITH MOVING PARTS, LETTERING ON EQUIPMENT AND ALL PVC PIPE & FITTINGS SHALL NOT BE PAINTED.

3. PLANT PIPING SHALL BE PAINTED ACCORDING TO THE FOLLOWING COLOR CODE AS PER TEN STATES STANDARD:

RAW WATER

OLIVE GREEN

-BINISHED WATER

-BACKWASH WASTE

LIGHT BROWN

-CHLORINE LINES

YELLOW

YELLOW

### CONCRETE FLOOR SEALER

. A WATER BASED ACRYLIC CONCRETE FLOOR SEALER SUCH AS MANUFACTURED BY SEAL—KRETE SHALL BE APPLIED ON THE BARE CONCRETE FLOOR TO PROVIDE A RESISTANT CLEAR SAITH FINISH.

### SIGNAGE:

PROVIDE WARNING AND SAFETY SIGNAGE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND REQULATIONS. SIGNAGE SHALL BE METAL BACKED CONSTRUCTED, PERMANENTLY MOUNTED AND OF THE COLOR AND SIZE DICTATED BY THE APPLICABLE CODE AND REGULATION.

- CAUTION SIGNS: STANDARD YELLOW BACKGROUND COLOR WITH BLACK LETTERS AND BLACK PANEL WITH YELLOW LETTERS PER ANSI Z53.1
- 3. DANGER SIGNS: STANDARD WHITE BACKGROUND COLOR WITH BLACK LETTERS AND BLACK PANEL WITH RED INSERT CONTAINING WHITE LETTERS PER ANSI Z53.1
- WARNING SIGNS: STANDARD ORANGE BACKGROUND COLOR WITH BLACK LETTERS AND BLACK PANEL WITH ORANGE INSERT CONTAINING BLACK LETTERS PER ANSI 253.1
- SAFETY SIGNS: STANDARD WHITE BACKGROUND COLOR WITH BLACK LETTERS AND GREEN PANEL WITH WHITE LETTERS PER ANSI Z53.1
- 6. THE FOLLOWING SIGNS SHALL BE PROVIDED AT A MINIMUM:
- CAUTION EYE AND GLOVE PROTECTION MUST BE WORN WHEN HANDLING OHEMICALS
   DANGER CHEMICAL STORAGE HAZARDOUS MATERIAL (SODIUM HYPOCHLORITE)
   FIRE EXTINGUISHER
   EYE WASH
   EXIT

### INITIAL SUPPLY OF CHEMICALS:

- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CHEMICALS DURING THE INITIAL START-UP OF THE CHEMICAL FEED SYSTEM.
- FOLLOWING SUCCESSFUL START-UP, THE CONTRACTOR SHALL PROVIDE TWO (2) 55-GAL DRIMS OF COMMERCIALLY AVAILABLE NSF 61 CERTIFIED 12.5% SODIUM HYPOCHLORITE (NAOCL) SOLUTION.

### NO LEAD LAW:

ALL PIPING, PIPE FITTINGS, PLUMBING FITTINGS AND FIXTURES SHALL COMPLY WITH PUBLIC LAW, AMENDING THE SAFE DRINKING WATER ACT OF 1974 AND WHICH CAME INTO EFFECT JANUARY 4, 2014. FIRST AID KIT:

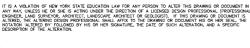
### A WELL STOCKED FIRST AID KIT WITH ALL THE BASIC EMERGENCY SUPPLIES SHALL BE PROVIDED AT THE PLANT. THE FIRST AID KIT SHALL MEET ANSI 2308.1 AND 05HA 1910.157 STANDARDS. THE KIT SHALL COME IN WALL MOUNTABLE STURDY PLASTIC CONTAINER WITH ADEQUATE SUPPLIES TO TREAT UP TO 25 PEOPLE (USA BLUE BOOK STOCK # MC-65098).

FIRE EXTINGUISHER: 18 LB DRY TYPE ABC FIRE EXTINGUISHER WITH WALL BRACKET.

**DEPARTMENT OF HEALTH** 

Dig Safely. New York Big With Care 800-962-7962

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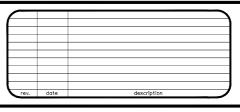
Hudson Valley Office 21 Fox Street Poughkeepsie, New York 12601

O New York City, NY

Office Locations

Glens Falls, NY

Poughkeepsie, NY

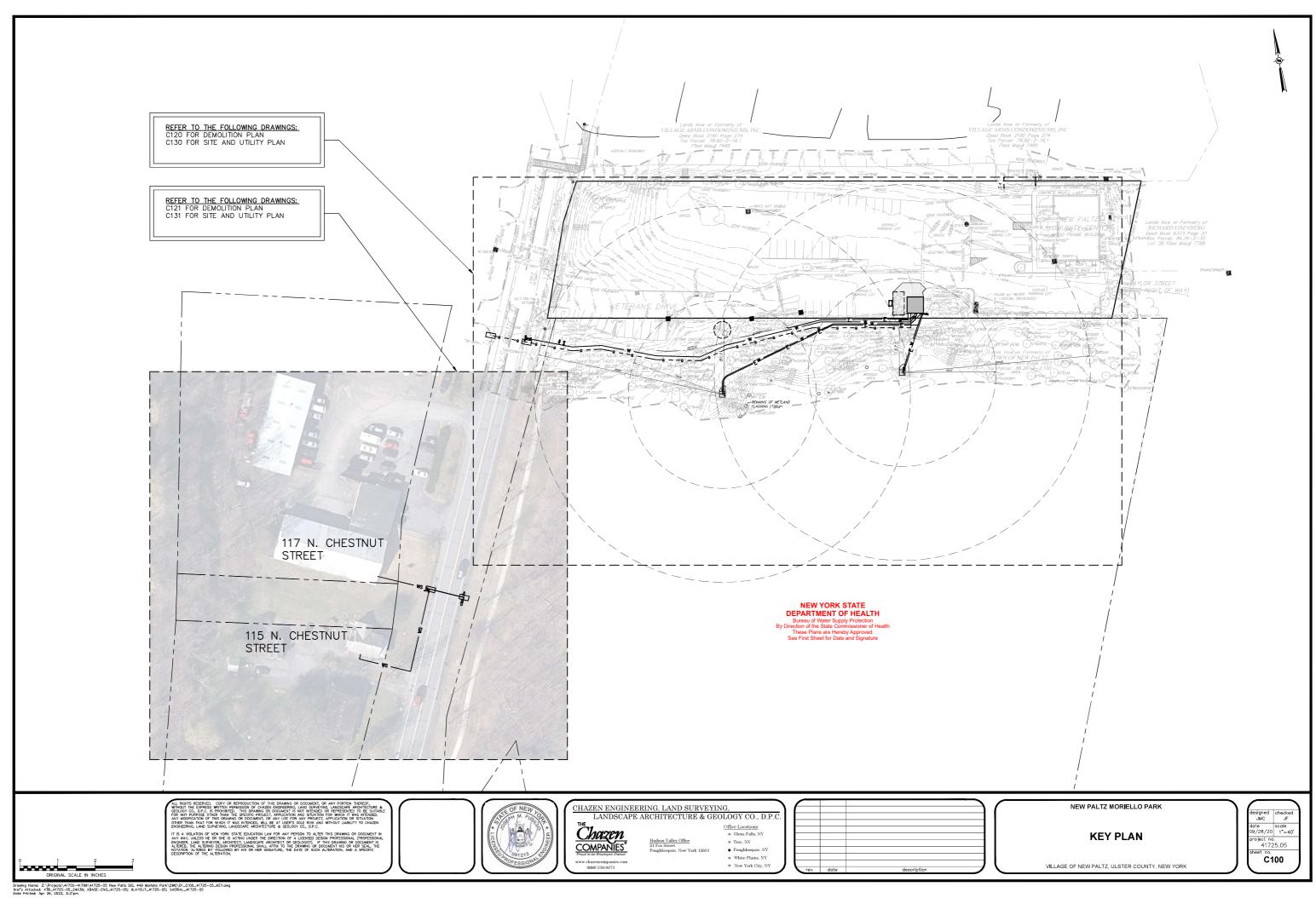


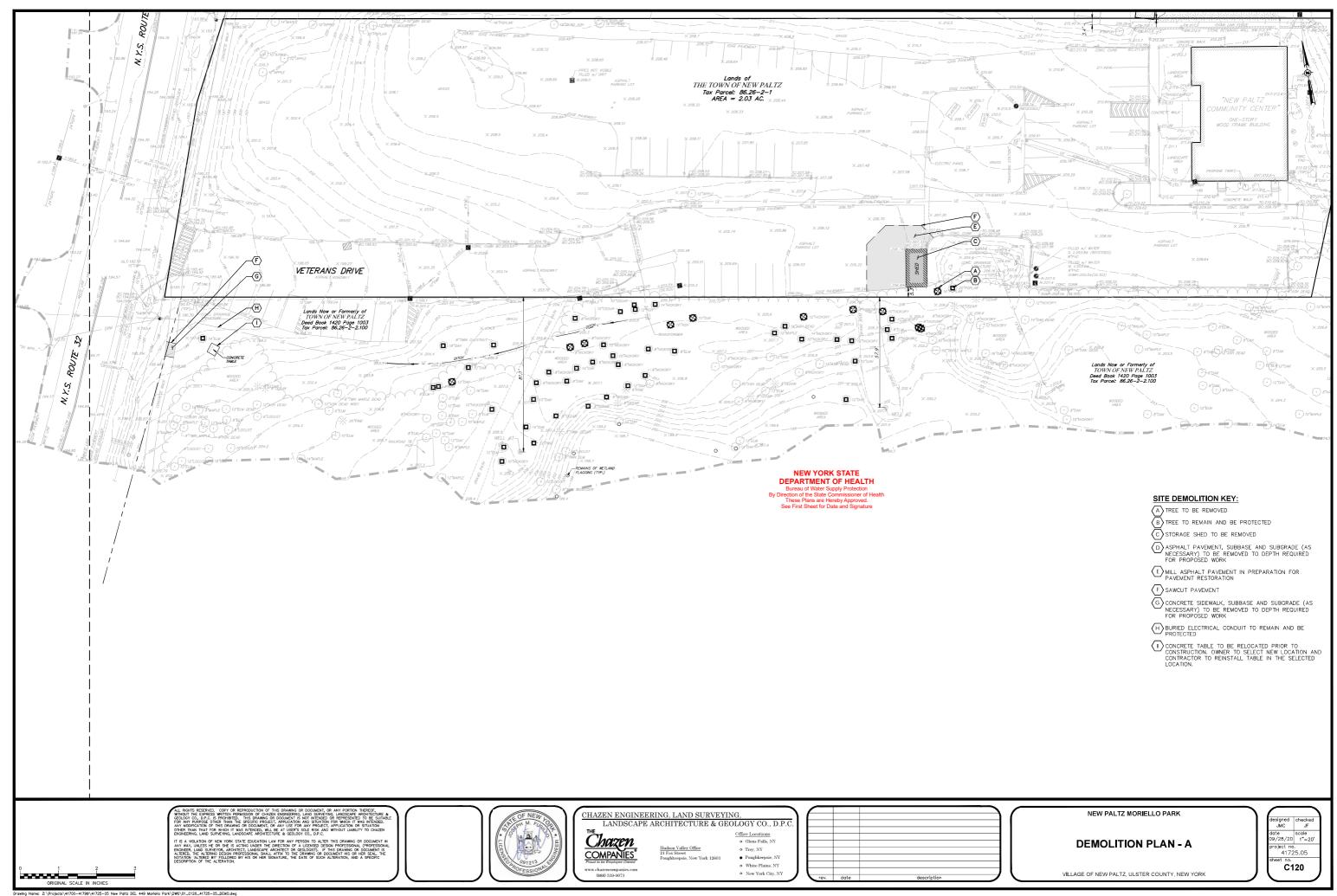
NEW PALTZ MORIELLO PARK

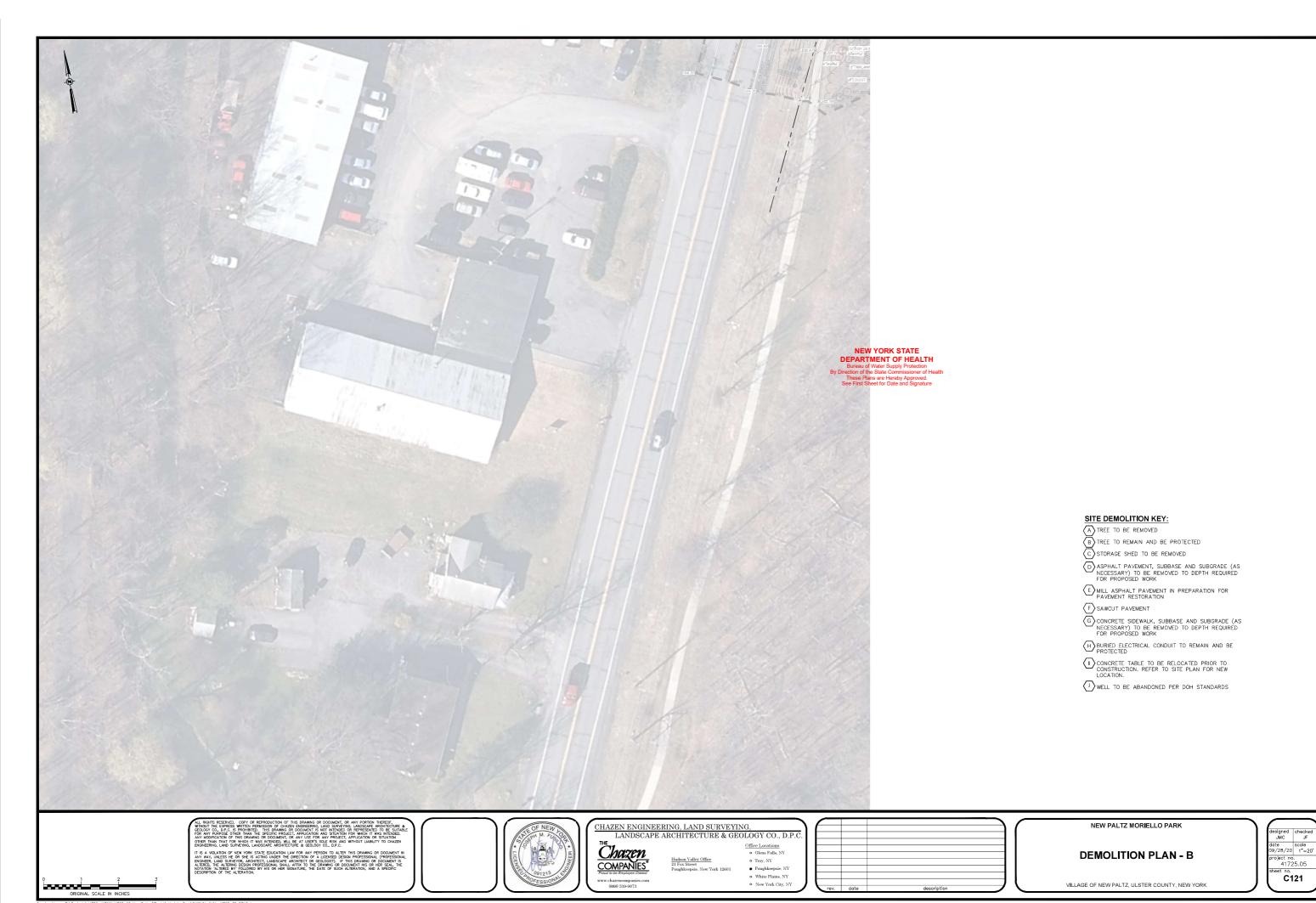
### **NOTES AND LEGEND**

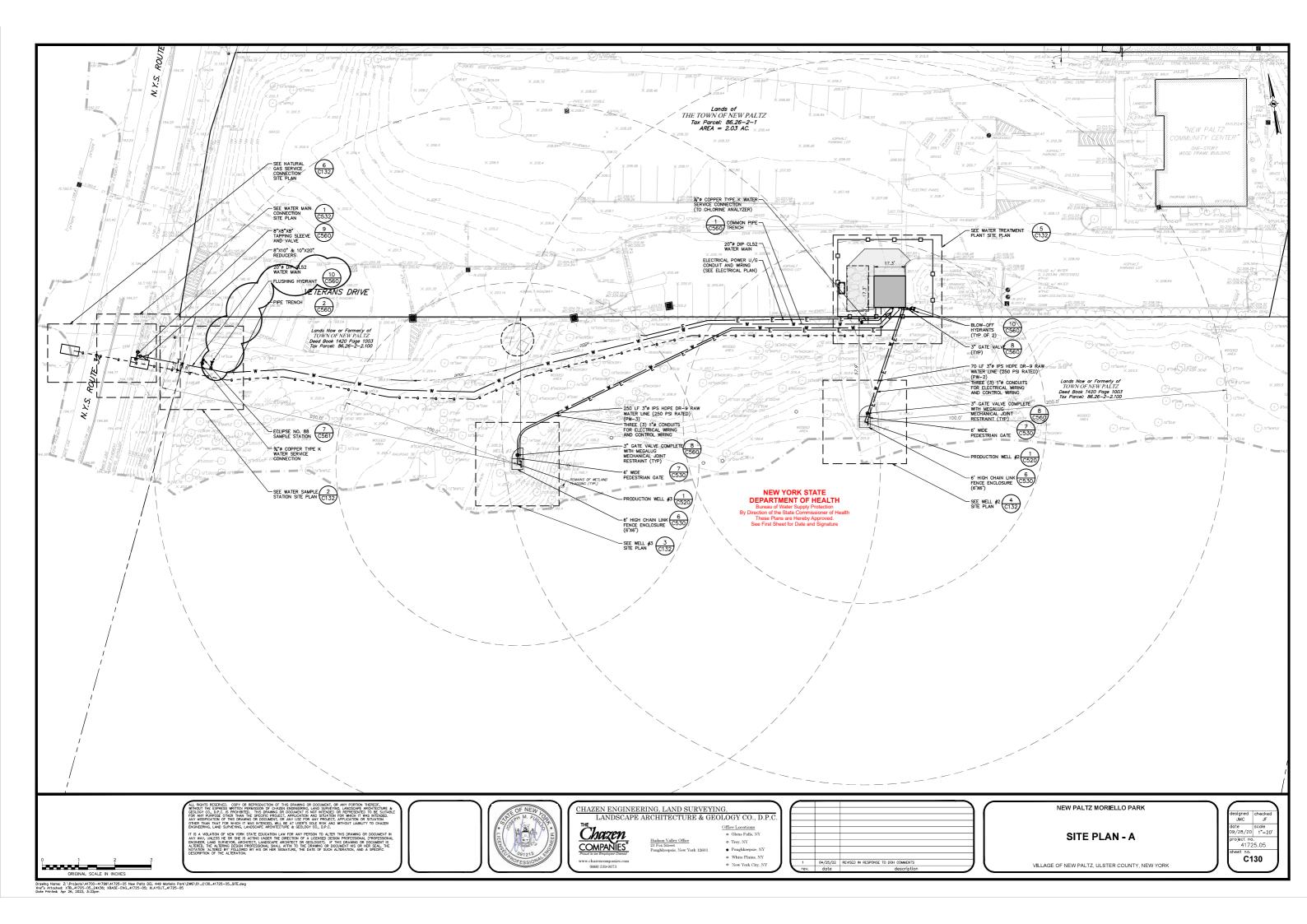
VILLAGE OF NEW PALTZ, ULSTER COUNTY, NEW YORK

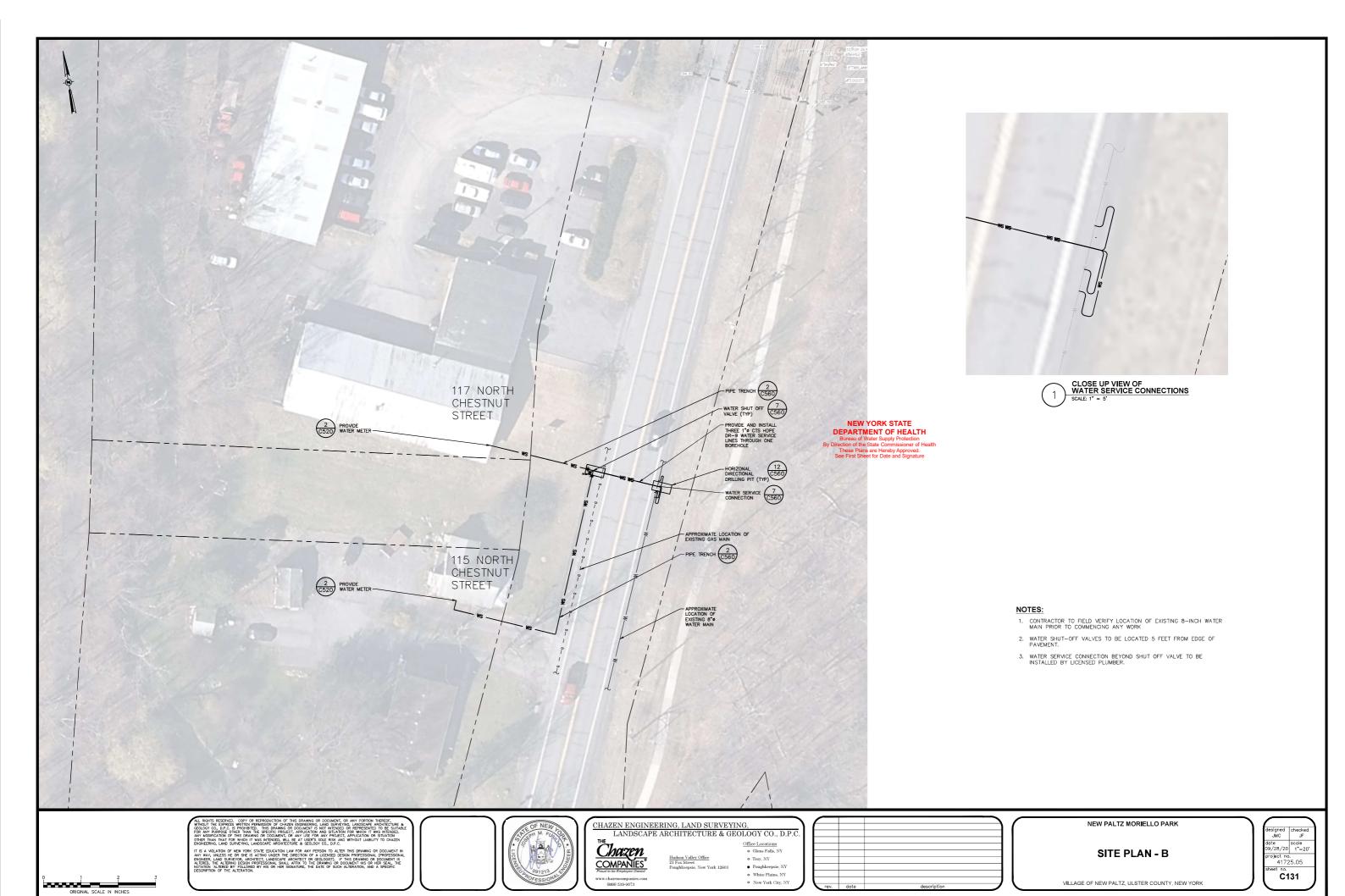
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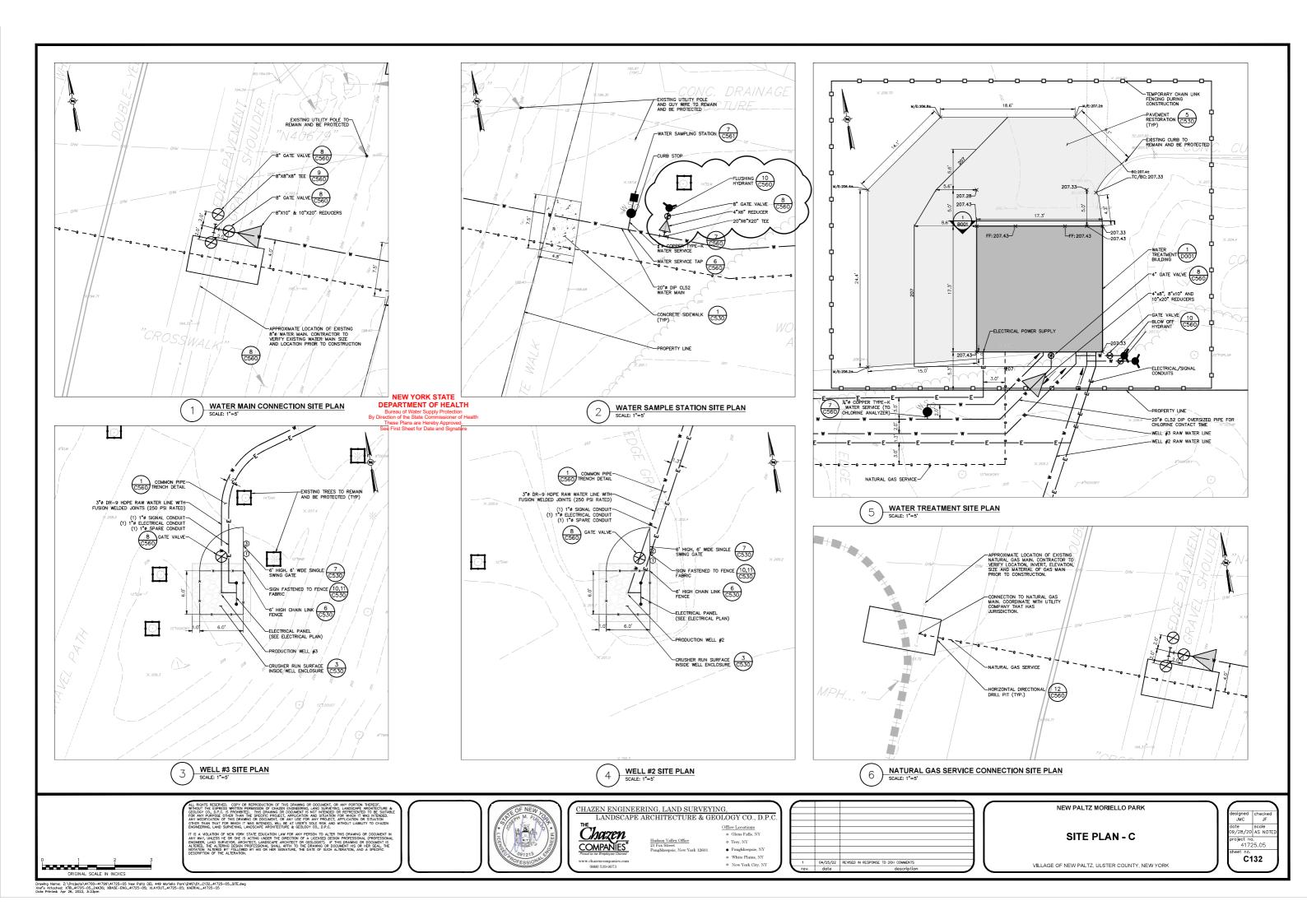


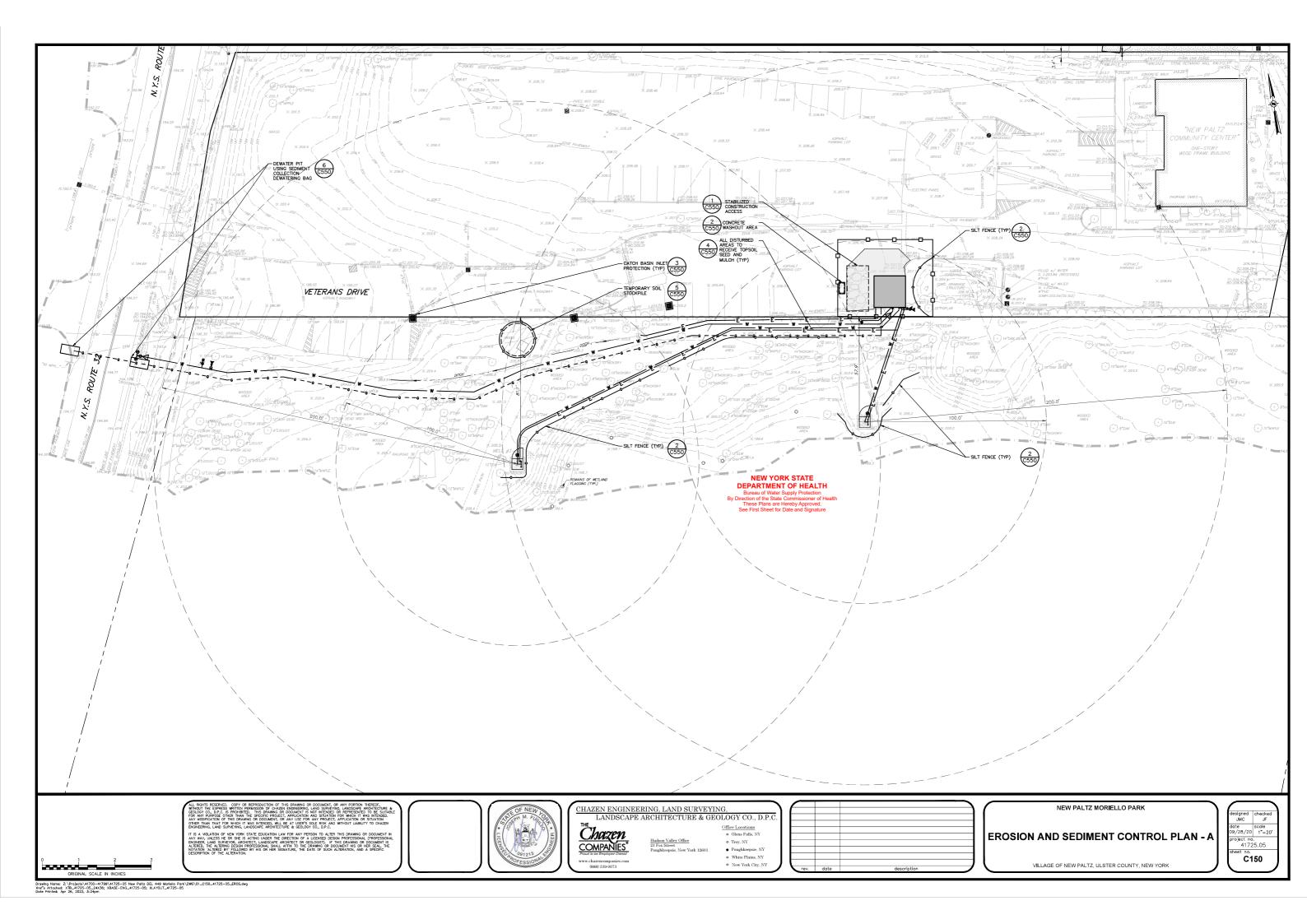


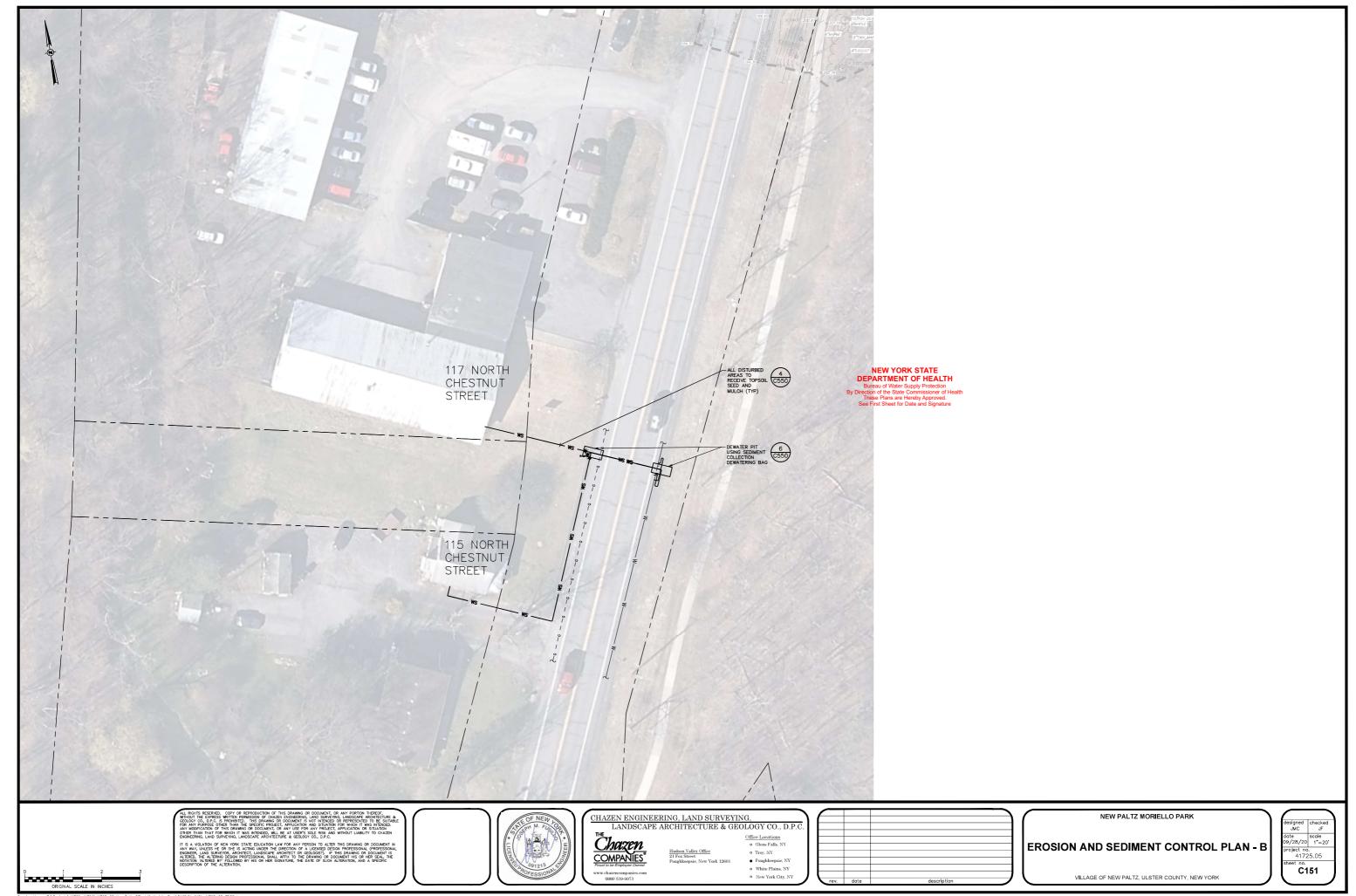


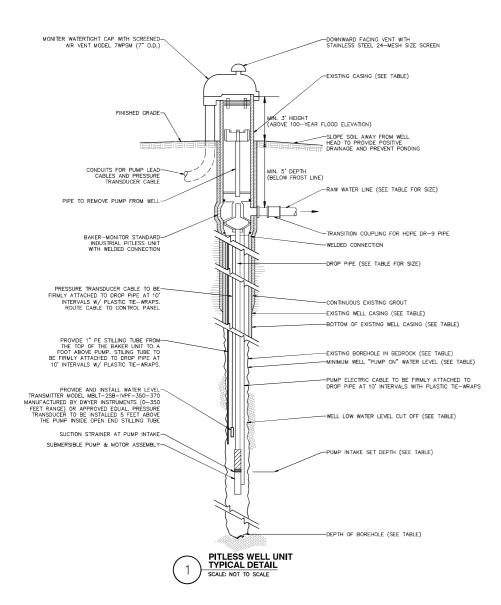












### TABLE 1- PRODUCTION WELLS - PHYSICAL **PROPERTIES & CHARACTERISTICS PROPERTY** PW-2 PW-3 WELL TYPE BEDROCK BEDROCK WELL DIAM. WELL DEPTH 520.0 505.0 40-95 (GPM) WELL DESIGN FLOW (GPM) 6 TOTAL STEEL CASING LENGT (FEET) PUMP INTAKE SET DEPTH (FEET, DOD) 3,53 15,79 355.19 197.4 385.8 (FEET BGS PUMP MOTOR PUMP DUTY POINT 69 GPM @ 444" TDH 36 GPM @ 431' TDH 13 NUMBER OF STAGES PUMP DISCHARGE 2" NPT 2" NPT 3°Ø THREADED GALV. STEEL ASTM A53 GRADE B SCH40 3°Ø HDPE DR-9 (250 PSI RATED) FUSION WELDED JOINTS DROP PIPE RAW WATER LINE MIN. PUMP ON LEVEL 340 340 17 (FEET BGS) LOW WATER LEVEL CUT OFF (FEET BGS) BAKER-MONITOR PITLESS UNIT BAKER-MONITOR PITLESS UNIT PITLESS UNIT 20 WATER LEVEL TRANSMITTE

ABBREVIATION: BGS = BELOW GROUND SURFACE

21 EXISTING GRADE ELEV.

(FEET)
EXISTING CASING ELEV.
(FEET)

### NEW YORK STATE DEPARTMENT OF HEALTH

WELL NOTES:

1. WELLS WERE DRILLED BY JM WILD WELL DRILLING LLC. WELL \$2 WAS INSTALLED IN NOVEMBER 2018, AND WELL \$3 WAS INSTALLED IN JUNE 2019, ACCORDING TO THE WELL LOSS, THE ANNULAR SPACE BETWEEN THE STEEL CASING AND THE DRILLED HOW WES SEALED WITH SODIUM BENTONITE. TWO (2) SEPARATE 72-HOUR PUMPING TESTS WERE PERFORMED BY THE CHAZEN COMPANIEST BETWEEN AUGUST 2019 AND APRIL, 2020. REFER TO THE JUNE 2020 PUMPING TESTING REPORT PREPARED BY CHAZEN FOR DETAILS ON WELL CASING CONSTRUCTION.

208.7±

DURING CONSTRUCTION, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE CONTAMINATION OF THE WELLS. ALL PERMANENT EQUIPMENT AND MATERIAL TO BE INSTALLED IN THE WELLS SHALL BE CHLORINATED JUST PRICE TO INSTALLATION BY SPRAYING SUCH EQUIPMENT AND MATERIAL WITH A SOLUTION HANING A CHLORING RESIDUAL OF NO ILEST THAN 20 MG/L.

201.7±

- 3. THE TOP OF THE WELL CASING SHALL TERMINATE AT LEAST 3 FEET ABOVE THE 100-YEAR FLOOD OR FLOOD OF RECORD CONTRACTOR SHALL ADJUST THE HEIGHT OF THE STEEL CASING TO THE POPOPOSED ELEVATION BY ETHER CUTTING OR REVENDING THE EXISTING CASING. EXTENSION MILL REQUIRE THE WELDING OF AN ADDITIONAL STEEL CASING SECTION OF APPROPRIATE LEMONT.
- 2. PROVIDE AND INSTALL PITLESS UNIT, WELL PUMP, LEVEL TRANSDUCER AND ALL APPURTENANCES.
- 3. PROVIDE AND INSTALL PUMP MOTOR CONTROLLER, MOTOR LEADS, LEVEL TRANSMITTER CABLE, AND WELL PUMP CONTROL PANEL.
- 4. FURNISH AND INSTALL A 1" STILLING TUBE FROM THE TOP OF PITLESS UNIT TO 1'-0" ABOVE THE PUMP.
- RAW WATER LINES SHALL BE 3"0 HDPE DR-9 PRESSURE PIPE (250 PSI) CONFORMING TO ASTM D-3035, ASTM D-2737, AND
  ASTM D-3356 FOR USE IN POTABLE WATER SYSTEM (NSF 61). JOINING OF PIPES AND FITTINGS SHALL BE ACCOMPLISHED THROUGH
  FUSION WELDING.
- 6. THE WELLS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C654 (LATEST EDITION) AFTER INSTALLATION OF THE WELL PUMPS AND PRIOR TO USE.
- 7. AFTER THE WELLS HAVE BEEN CHLORINATED AND PUMPED TO WASTE WITH ZERO CHLORINE RESIDUAL, DUPLICATE SAMPLES SHALL BE TAKEN NOT LESS THAN 30 MINUTES APART AND TESTED FOR THE PRESENCE OF COLIFORM, IF NONE OF THESE SAMPLES SHOW THE PRESENCE OF COLIFORM, THEN THE WELLS MAY BE PLACED IN SERVICE.
- BEFORE ACCEPTANCE OF THE WORK, CONTRACTOR SHALL CONDUCT A PUMP TEST IN THE PRESENCE OF THE ENGINEER TO VERIFY
  THE PERFORMANCE OF THE INSTALLED WELL PUMPS. THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTICE TO THE
  ENGINEER BEFORE PROCEEDING WITH THE PUMP TESTS.
- 9. FERTILIZER SHALL NOT BE APPLIED WITHIN THE 200' RADIUS WELL PROTECTION AREA.

-EXISTING PRIVATE WATER SUPPLY WELL TO BE ABANDONED EXISITNG PUMP POWER SUPPLY TO BE DISCONNECTED AND ABANDONED IN PLACE EXISITNG PUMP CONTROL PANEL TO BE DISCONNECTED AND ABANDONED IN PLACE EXITING GRADE EXISITNG WATER SERVICE PIPE-TO BE ABANDONED IN PLACE PROPOSED WATER SERVICE LINE-EXISTING WATER TANK TO BE-CUT AND CAP EXISTING WATER SERVICE PIPE COUPLING CONNECTION-EXISTING WATER SERVICE PIPE TO BE CUT, CAPPED, AND ABANDONED IN PLACE. PROPOSED CHECK VALVE-PROPOSED WATER METER BADGER MODEL 25 DISC METER PROPOSED BALL VALVE--GROUT SEAL AND CAULK PENETRATION OF FOUNDATION WALL  $\frac{\text{NOTES:}}{1.~\text{SEE}~\text{WELL}~\text{ABANDONMENT NOTES ON PLAN SHEET GOO2.}}$ 2. WATER SERVICE CONNECTION BEYOND SHUT OFF VALVE TO BE TYPICAL MUNICIPAL WATER SERVICE CONNECTION AND WATER METER INSTALLATION DETAIL SCALE: NOT TO SCALE

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NEW PALTZ MORIELLO PARK

e scale '28/20 AS NOTE

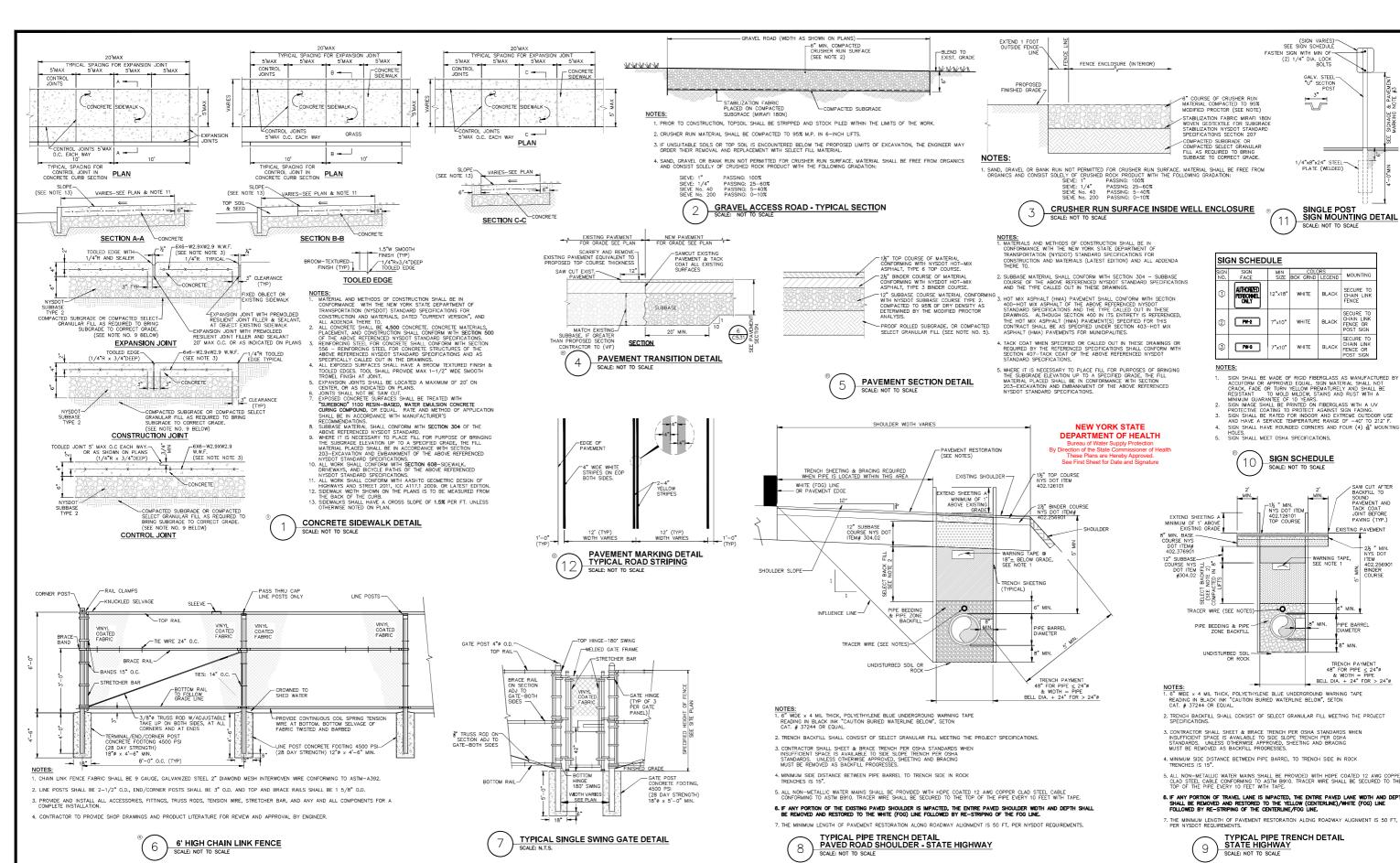
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C520

**PRODUCTION WELL DETAILS** 

VILLAGE OF NEW PALTZ, ULSTER COUNTY, NEW YORK

ORIGINAL SCALE IN INCHES



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28/20 AS NOTE oject n 41725.05

& PAVEMEN NOTE #3

SIGNAGE

SAW CUT AFTER
BACKFILL TO
SOUND
PAVEMENT AND
TACK COAT
JOINT BEFORE
PAVING (TYP.)

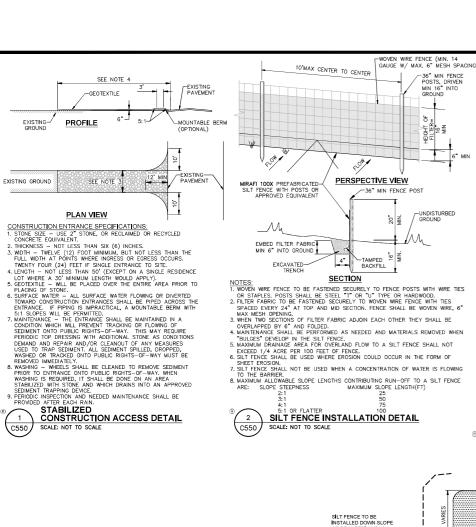
XISTING PAVEMENT

ORIGINAL SCALE IN INCHES

C530

NEW PALTZ MORIELLO PARK

SITE DETAILS



WASHOUT SIGN

WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
 ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE LOCATED AND MAY BE INSTALLED ON THE CONSTRUCTION FROR

FERTILIZER: COMMERCIAL 5-10-5, 175 POUNDS PER ACRE

TOPSOIL: A NATURAL, FERTILE, AGRICULTURAL SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH

-ANCHOR BALES WITI (2) 2"x2"x4' STAKES PER BALE

7'-0" TO BOTTOM OF SIGN

SOIL EMBEDMENT

4 CONCRETE WASHOUT AREA DETAIL
C550 SCALE: NOT TO SCALE

NOTES:
1. TOPSOIL, SEED, MULCH, AND FERTILIZE DISTURBED SOIL AREAS
1. THAT WILL BE LEFT EXPOSED FOR 14 DAYS OR MORE.

TEMPORARY TOPSOIL,
FERTILIZER, SEED & MULCH DETAIL

12" MIN |-

⊢BALES TO BUTT

L<sub>10</sub> MIL POLYETHYLENE SHEETING

BINDING

30"±

STRAW BALE (TYPICAL)

18"±

TO MIL

NOTES:

1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.

WASTES.

CONTAINMENT DEVICES MUST BE OF SUFFICIENT CONTAIN TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.

3. WASHOUT WAST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE FORCE WASHOUT IS 758 FULL. THIS INCLUDES REPLACEMENT OF THE 10 MIL POLYETHLENE SHEETING.

SOIL PH SHALL BE TESTED,— LIME SHALL BE APPLIED AS REQUIRED TO BRING SOIL PH TO 6.5

POLYETHYLENE

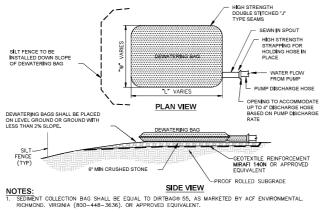
SHEETING
SEASONAL HIGH
GROUNDWATER TABLE

ASSECUTE ....

-BLACK LETTERS ON WHITE BACKGROUND

-GALVANIZED
"U" CHANNEL

-FINISH GRADE



SEDIMENT COLLECTION BAG SHALL BE A NONWOVEN BAG SEWN WITH HIGH STRENGTH THREAD. THE SEAMS SHALL BE HIGH STRENGTH, DOUBLE STITCHED, "J" TYPE SEAMS.

BAGS SHALL HAVE SEWN IN FILL SPOUT LARGE ENOUGH TO ACCOMMODATE UP TO A 4" DISCHARGE FILL SPOUT SHALL HAVE HIGH STRENGTH STRAPPING TO HOLD HOSE IN PLACE AND PREVENT PUMPE WATER FROM ESCAPING WITHOUT BEING FILTERED.

SEDIMENT COLLECTION BAGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS, OR AS DIRECTED BY THE ENGINEER.

5. SEDIMENT COLLECTED SHALL BE DISPOSED OF AT AN APPROPRIATE FACILITY.

6. SEDIMENT COLLECTION BAGS SHALL BE REMOVED AND REPLACED UNDER ANY OF THE FOLLOWING CONDITIONS:

\*\*WHEN BAGS ARE FULL.

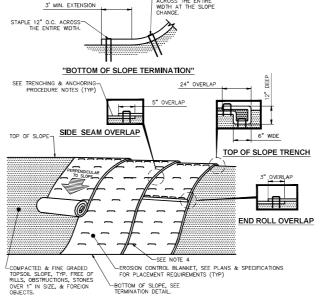
\*\*WHEN BAGS HAVE BEEN IN PLACE FOR MORE THAN 30 DAYS (REMOVAL REQUIRED DUE TO ULTRAVIOLET DETERIORATION).

\*\*WHEN BAGS ARE DAMAGED.

4. ALL SEDIMENT COLLECTION BAGS SHALL BE INSPECTED DAILY BY THE CONTRACTOR.

5. CARE SHALL BE TAKEN DURING REMOVAL TO MINIMIZE LOSS OF ENTRAPPED SEDIMENT.

SEDIMENT COLLECTION DEWATERING BAG DETAIL SCALE: NOT TO SCALE



NOTES:

LIFT STRAPS

SILT SACK CATCH BASIN INLET PROTECTION DETAIL

NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY

BE SURROUNDED WITH SILT FENCING, THEN STABILIZED VEGETATION OR COVERED. SEE SPECIFICATIONS FOR INSTALLATION OF SILT FENCE.

TEMPORARY SOIL STOCKPILE DETAIL

-OVERFLOW PORTS

1 SLOPE OR LESS

PREPARE THE TOPSOIL (SEEDBED) FIRST BY RAKING, SHAPING, FINE GRADING, COMPACTING, SEEDING & FERTILIZING THE SLOPES.

COMPACTING, SEEDING & FERTILIZING THE SLOPES.

NEW YORK STATE 2. AS MUCH AS IS PRACTICAL, EXISTING VEGETATION SHALL BE PRESERVED.

EXPOSED MATERIAL EINDS. SECURE ALL PRODUCT OVERLAPS. OVERLAP IN THE DIRECTIONARTMENT OF HEALTHE SIZE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL

BUTEAU OF WAITER FLOW, PERPENDICULAR TO THE SLOPE.

BUTEAU OF WAITER FLOW, PERPENDICULAR TO THE SLOPE.

BUTEAU OF WAITER SLOPE.

These Plans are Hen

4. USE THE REQUIRED NUMBER OF STAPLES/STAKES TO SECURELY FASTEN THE ENGREPHISTS Sheet for Dat

CONTROL BLANKET TO THE SLOPE. IN LOOSE SOIL CONDITIONS, THE USE OF

STAPLES/STAKES LENGTHS GREATER THAN 6" MAYBE NECESSARY FOR PROPER SECURING.

STAPLE PATTERNS & OVERLAPS ARE DEPENDENT ON SITE CONDITIONS & MANUFACTURER'S

REQUIREMENTS. CONTRACTOR SHALL CONSULT WITH MANUFACTURER FOR ACTUAL SITE

SPECIFIC REQUIREMENTS.

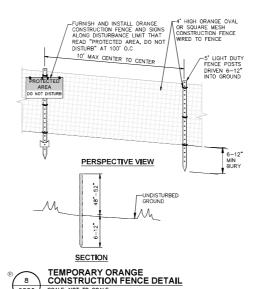
TRENCHING & ANCHORING PROCEDURE NOTES:

SIDE SEAM OVERLAP: THE EDGES OF PARALLEL BLANKETS SHALL BE STAPLED WITH A 5" OVERLAP.

 $\overline{\text{LOP OF SLOPE TRENCH.}}$  BEGIN AT THE TOP OF SLOPE BY ANCHORING THE EROSION CONTROL BLANKET IN A 6°D x 6°W TRENCH WITH A 12° OVERLAP EXTENDED BEYOND UP-SLOPE POPINION OF THE TRENCH. ANCHOR WITH A ROW OF STAPLES/STAKES 12° IN THE BOTTOM OF THE TRENCH BACKFILL & COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO THE COMPACTED SOIL & FOLD THE REMAINING 12° PORTION OF THE EROSION CONTROL BLANKET BACK OVER THE SEED & COMPACTED SOIL SCOURE THE EROSION CONTROL BLANKET DOWN TOWER THE SEED SOIL WITH A ROW OF STAPLES/STAPLED 12° O.C. ACROSS THE ENTIRE WIDTH.

END ROLL OVERLAP: CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE SHALL BE PLACED END OVER END (SHINGLE-STYLE) WITH A 3" OVERLAP. STAPLE THRU OVERLAPPED AREAS, 12" APART ACROSS THE ENTIRE WIDTH.

<sup>®</sup> 7 EROSION CONTROL BLANKET INSTALLATION DETAIL



### **EROSION AND SEDIMENT CONTROL NOTES:**

- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", LATEST EDITION.
- 2. PRIOR TO COMMENCING ANY CLEARING, GRUBBING, EARTHWORK ACTIVITIES, ETC. AT THE SITE, THE CONTRACTOR SHALL FLAG THE WORK LIMITS AND SHALL INSTALL IEDEPORARY EROSION AND SEMENT CONTROL MEASURES (I.E. SLIT FENCES, STABILIZED CONSTRUCTION ENTRANCES) INDICATED ON THE PROJECT DRAWNGS. TEMPORARY EROSION AND SEMENT CONTROL MEASURES MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THEIR TIBUTIARY AREAS
- SUILS SIDURPILES.

  AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS DELAYED, SUSPENDED, OR INCOMPLETE AND WILL NOT BE REDISTURBED FOR 21 DAYS OR MORE SHALL BE STABILIZED WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS CEASED, (SEE SPECIFICATIONS FOR TEMPORARY VEGETATIVE COVER). AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE WORK IS COMPLETE AND WILL NOT BE REDISTURED SHALL BE STABILIZED. AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON ARE STABILIZED AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON ARE STABILIZED AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON ARE STABILIZED AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON ARE STABILIZED AND RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON ARE STABILIZED AND WITH TEMPORARY VEGETATIVE COVER AS SOON ARE STABILIZED AND WITH TEMPORARY VEGETATIVE COVER AS SOON ARE STABILIZED AND WITH TEMPORARY VEGETATIVE COVER WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERMANENT VEGETATIVE COVER WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERMANENT VEGETATIVE COVER WITHIN 14 DAYS AFTER WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERMONENT OF THE WORK IS COMPLETE, FOR SEEDING OUTSIDE PERMITTED SEEDING PERMONENT OF THE WORK IS COMPLETE, FOR SEEDING DUTSIDE PERMITTED SEEDING PERMONENT OF THE WORK IS COMPLETE, FOR SEEDING DUTSIDE PERMITTED SEEDING PERMONENT OF THE WORK IS COMPLETE, FOR SEEDING DUTSIDE PERMITTED SEEDING PERMONENT OF THE WORK IS COMPLETE, FOR SEEDING DUTSIDE PERMITTED SEEDING PERMONENT OF THE WORK IS COMPLETE, FOR SEEDING DUTSIDE PERMITTED SEEDING PERMONENT OF THE WORK IS COMPLETE, FOR SEEDING DUTSIDE PERMITTED SEEDING PERMONENT OF THE WORK IS COMPLETE.
- 5. SEEDED AREAS TO BE MULCHED WITH STRAW OR HAY MULCH IN ACCORDANCE WITH VEGETATIVE COVER SPECIFICATIONS.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY SPRINKLING EXPOSED SOIL AREAS PERIODICALLY WITH WATER AS REQUIRED. THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT AND WATER.
- WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.

### **EROSION AND SEDIMENT CONTROL MEASURES:**

- AUSTIE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND AUTO-TIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AUTO-TIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AUTO-TIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AUTO-TIVITIES SHALL BE PLANNED TO MINIMIZE THE 4. PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE AVOIDED. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL POINTS OF ENTRY ONTO THE PROJECT STAE.

### MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES:

PERMANENT AND TEMPORARY VEGETATION:

STABILIZED CONSTRUCTION ENTRANCE:

INSPECT THE ENTRANCE PAD EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. CHECK FOR MUD, SEDIMENT BUILD-UP AND PAD INTEGRITY. MAKE DAILY INSPECTIONS DURING WET WEATHER. RESHAPE PAD AS NEEDED FOR PRAINAGE AND RUNOFF CONTROL WASH AND REPLACE STONE AS NEEDED. THE STONE IN THE ENTRANCE SHOULD BE WASHED OR REPLACED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRED OFF-SITE BY VEHICLES, MINEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SMECHING. REMOVE TIBERPORARY CONSTRUCTION ENTRANCE AS SOON AS THEY ARE NO LONGER NEEDED TO PROVIDE ACCESS TO THE SITE.

SILT FENCE:

INSPECT FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY. REMOVE SEDIMENT FROM THE UP-SLOPE FACE OF THE FENCE BEFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE FENCE. IF FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INSPECTION, EXPLAIGE THE REPLICE THE AFFECTED SECTION OF FENCE IMMEDIATELY.

SOIL STOCKPILE:

INSPECT SEDIMENT CONTROL BARRIERS (SILT FENCE OR HAY BALE) AND VEGETATION FOR DAMAGE EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. MAKE ALL REPAIRS IMMEDIATELY, REMOVE SEDIMENT FROM THE EUP "SCDE FACE OF THE SEDIMENT CONTROL BARRIER REFORE IT ACCUMULATES TO A HEIGHT EQUAL TO 1/3 THE HEIGHT OF THE SEDIMENT CONTROL BARRIER, IF SEDIMENT CONTROL BARRIER TEARS, BEGINS TO BECOMPOSE, OR IN ANYWAY BECOMES INTEFFETIVE, REPLACE THE AFFECTED SECTION OF SEDIMENT CONTROL BARRIER IMMEDIATELY, REPLACE DISTURBED AREA TO STABLIZE SOIL STOCK PILE REMOVE THE SEDIMENT CONTROL BARRIER IMMEDIATELY, REVGETATE DESTURBED AREA TO STABLIZE SOIL STOCK PILE REMOVE THE SEDIMENT CONTROL BARRIER IMMEDIATELY, REVGETATE

SCHEDULE CONSTRUCTION OPERATIONS TO MINIMIZE THE AMOUNT OF DISTURBED AREAS AT ANY ONE TIME DURING THE COURSE OF WORK. APPLY TEMPORARY SOIL STRBILIZATION PRACTICES SUCH AS MULCHING, SEEDING, AND SPRAYING (WATER) STRUCTURAL MEASURES (MULCH, SEEDING) SHALL BE INSTALLED IN DISTURBED AREAS BEFORE SIGNIFICANT BLOWING PROBLEMS DEVELOP. WATER SHALL BE SPRAYED AS NEEDED, REPEAT AS REDEED, BUT AVOID EXCESSIVE SPRAYING, WHICH COULD CREATE RUNOFF AND EROSION PROBLEMS.

EROSION CONTROL BLANKET:

INSPECT THE BLANKET EVERY SEVEN DAYS & AFTER EVERY RAIN EVENT. REPLACE WIRE STAPLES AS REQUIRED. REPAIR AND RESSED WHERE CRACKS AND DAMAGED VEGETATION IS EVIDENT. WHEN DAMAGED BEYOND REPAIR OR NO LONGER FUNCTIONING, THE BLANKET SHALL BE REPLACED.

DEWATERING PITS:

(IF REQUIRED) — INSPECT DAILY DURING OPERATION FOR CLOGGING OR OVERFLOW. CLEAR INLET AND DISCHARGE PIPES OF OBSTRUCTIONS. IF A FILTER MATERIAL BECOMES CLOGGED WITH SEDIMENT, PIT SHALL BE DISMANTLED AND CONSTRUCT NEW PITS AS NEEDED.

SNOW AND ICE CONTROL:

PARKING LOTS, ROADWAYS, AND DRIVEWAYS ADJACENT TO WATER QUALITY FILTERS SHALL NOT BE SANDED DURING SNOW EVENTS DUE TO HIGH POTENTIAL FOR CLOGGING FROM SAND IN SURFACE WATER RUNOFF. USE SALT ONLY FOR SNOW AND IOC CONTROL.

### **TOPSOIL SPECIFICATIONS:**

EXISTING EXCESS TOPSOIL SHALL BE REMOVED AND STORED IN TOPS'S STOCKPILES SUPFICIENTLY REMOVED FROM OTHER EXCAVATION OR DISTURBANCE AVOID MINING. SLIT FENCE SHALL BE INSTALLED AROUND TOPSOIL STOCKP

### SITE PREPARATION:

- 1. COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOL TO BE ADDED.
- SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSO AREAS. SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION SOIL AREAS THAT ARE STEEPER THAN 5%.
- 3. REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3 INCHES IN DIAMETER, A OTHER LITTER.
- NEW TOPSOIL SHALL BE BETTER THAN OR EQUAL TO THE QUALITY OF THE EXISTIN ADJACENT TOPSOIL. IT SHALL MEET THE FOLLOWING CRITERIA:
- A. ORIGINAL LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND UNIFORM GRADE, WITHOUT THE ADMIXTURE OF SUBSOIL MATERIAL AND FREE DENSE METERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER OBJECTIONAL MATERIAL.
- B. CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER I THAT PORTION OF A SAMPLING PASSING A 1/4" SIEVE WHEN DETERMINED B THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105°C.
- C. CONTAINING A PH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON THAT PORTIO OF THE SAMPLE WHICH PASSES A 1/4" SIEVE.
- D. CONTAINING THE FOLLOWING WASHED GRADATIONS:

### APPLICATION AND GRADING:

- TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OF 4" OVER THE AREA. I SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY, OR ON FROZEISLOPES OR OVER IGE, SNOW, OR STANDING WATER.
- TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5% SHALL BE PROMPTL FERTILIZED, SEEDED, MULCHED AND STABILIZED.

### **VEGETATIVE COVER SPECIFICATIONS:**

TEMPORARY VEGETATIVE COVER (DURING CONSTRUCTION):

SITE PREPARATION (SAME AS PERMANENT VEGETATIVE COVER)

AMOUNT BY: MINIMUM %
WEIGHT SPECIES OR VARIETY PURITY GERMINATION
100% ANNUAL RYEGRASS 98% 90%

PERMANENT VEGETATIVE COVER (AFTER CONSTRUCTION):

SITE PREPARATION
 A. BRING AREA TO BE SEEDED TO REQUIRED GRADE. A MINIMUM OF TOPSOIL IS REQUIRED.

B. PREPARE SEEDBED BY LOOSENING SOIL TO A DEPTH OF 4 INCHES.

C. REMOVE ALL STONES OVER 1 INCH IN DIAMETER, STICKS AND FOREIGN MATTER FROM THE SURFACE.

E. FERTILIZER: USE 5-10-5 (NPK) OR EQUIVALENT. APPLY AT RATE OF LBS/1000 SF.

F. INCORPORATE LIME AND FERTILIZER IN THE TOP 4 INCHES OF TOPSOIL.

G. SMOOTH AND FIRM THE SEEDBED.

SEED MIXTURE FOR USE ON LAWN AREAS: PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARE

LAWN SEED MIX: (APPLY AT RATE OF 5 TO 6 LBS PER 1000 SF)

SUN AND PARTIAL SHADE:

MINIMUM %
PURITY GERMINATION
95% 80%
98% 90%
97% 85% AMUUNT BY:
WEIGHT SPECIES OR VARIETY
20% KENTUCKY BILUE GRASS
60% PERENNIAL RYE
20% CREEPING RED FESCUE

3. SEEDING
A. APPLY SEED UNIFORMLY BY CYCLONE SEEDER CULTI-PACKER
HYDRO-SEEDER AT RATE INDICATED ABOVE.

B. ALL SEEDED AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF TH FOLLOWING METHODOS:

i. A UNIFORM BLANKET OF STRAW APPLIED AT A RATE OF 2 TONS /ACRE MIN., TO BE APPLIED ONCE SEEDING IS COMPLETE.

 WOOD FIBER CELLULOSE APPLIED WITH SEED MIX BY HYDROSEEDER AT RATE OF 2,000 LBS/ACRE. C. ALL SEEDED SLOPES 3:1 OR GREATER SHALL BE PROTECTED FROM EROSIO WITH JUTE MESH OR APPROVED EQUAL.

D. IRRIGATE TO FULLY SATURATE SOIL LAYER, BUT NOT TO DISLODGE PLANTIN SOIL

E. UNLESS OTHERWISE DIRECTED IN WRITING, SEED FROM MARCH 15TH TO JUN 15TH, AND FROM AUGUST 15TH TO OCTOBER 15TH.

### CONSTRUCTION SEQUENCING NOTES:

- PRIOR TO COMMENCING ANY CLEARING, GRUBBING, EARTHWORK ACTIVITIES, ETC.
  AT THE SITE, THE CONTRACTOR SHALL FLAG THE WORK LIMITS AND SHALL
  INSTALL TEMPORARY EROSION AND SEIMENT CONTROL MEASURES (I.E. SILT
  FENCES, STABILIZED CONSTRUCTION ENTRANCES) INDICATED ON THE PROJECT
  DRAWINGS. TEMPORARY PERSONON AND SEDIMENT CONTROL MEASURES MUST BE
  CONSTRUCTED, STABILIZED, AND PUNCTIONAL BEFORE SITE DISTURBANCE BEGINS
  WITHIN THEIR TRIBUTARY ARES.
- 3. FINALIZE PAVEMENT SUB-GRADE PREPARATION.
- 4. INSTALL SUB-BASE MATERIAL AS REQUIRED FOR PAVEMENT.
- THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND IMMEDIATELY ESTABLISH PERMANENT VEGETATION ON THE AREAS DISTURBED DURING THEIR REMOVAL.

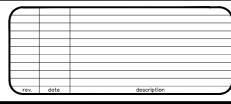
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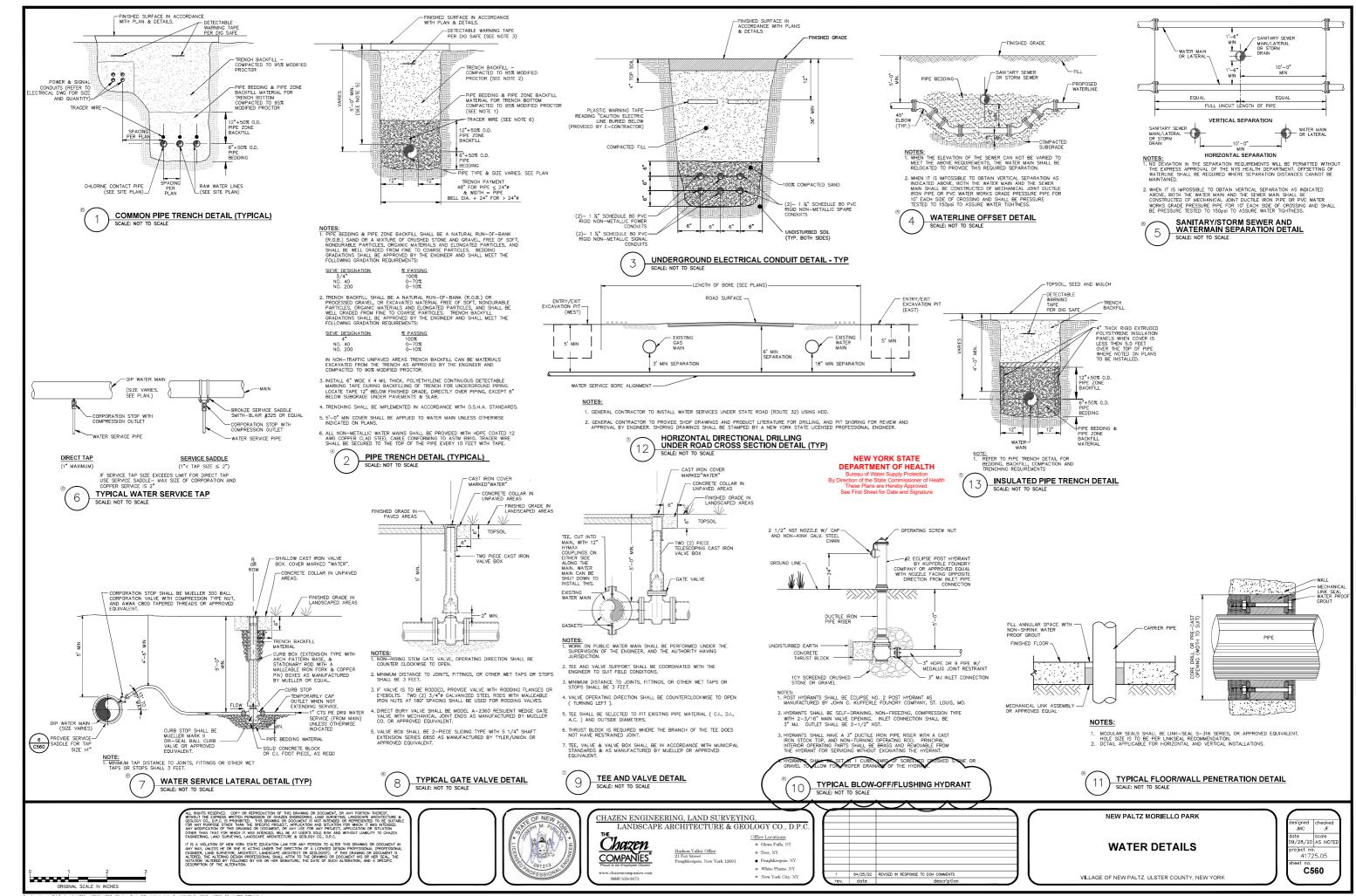
**EROSION & SEDIMENT CONTROL DETAILS** 

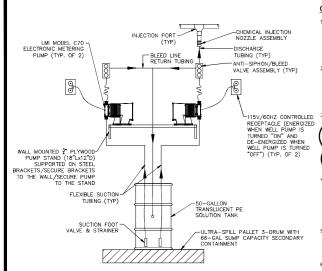
VILLAGE OF NEW PALTZ, ULSTER COUNTY, NEW YORK

NEW PALTZ MORIELLO PARK

oject no 41725.05 C550

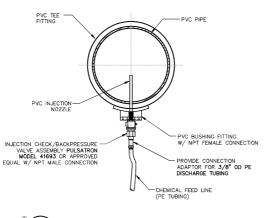
ORIGINAL SCALE IN INCHES



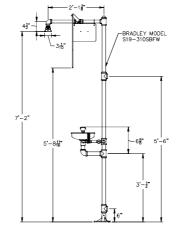


### CHLORINE DISINFECTION:

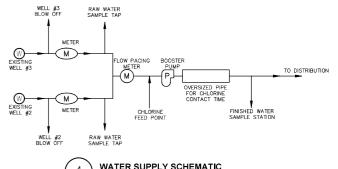
- SODIUM HYPOCHLORITE SHALL BE USED TO DISINFECT THE RAW WATER BEFORE IT IS CONVEYED TO THE WATER DISTRIBUTION SYSTEM AND STORAGE TANK. THE SYSTEM SHALL PROVIDE A MINIMUM CHLORINE DOSE OF 2 PPM (MG/L) AND THE MINIMUM CONTACT TIME FOR INACTIVATION OF MICROORGANISMS TO
- DOSING OF SODIUM HYPOCHLORITE SOLUTION SHALL BE ACHIEVED
- EACH METERING PUMP SHALL BE EQUIPPED WITH A 4-FUNCTION VALVE ASSEMBLY, AN INJECTION CHECK VALVE ASSEMBLY, AS SUCTION FOOT VALVE WITH STRAINER, 3/6" OO LEAR PVO SUCTION TUBING AND 3/6" OO TRANSLUCENT PE DISCHARGE TUBING AND ALL ACCESSORIES. A SINGLE 50-GALLON POLIETHYLEN TRANSLUCENT TANK WITH 5-GA INCREMENT HEROCH ORTH SOLUTION FACH METERING PUMP SHALL DRAW
- THE OPERATION OF THE WELL YOUNG THE BEING CONTROLLED DECETRICAL UPLES SUCH MAT THE ADDRESS TURNED FOR WHEN ONE OF THE WELLS ES EMERGIZED CONTRACTOR SHALL PROVIDE A CONTROL RELAY INTERESTED THE WELL PUMP CONTROLLER AND THE BETWEEN THE WELL PUMP CONTROLLER AND THE BEDILECTRICAL OUTLETS.
- THE CHEMICAL INJECTION RATE OF THE METERING PUMP SHALL BE AUTOMATICALLY ADJUSTED USING A FLOW PACING METER WITH 4-20mA SIGNAL STROKE LENGTH & STROKE FREQUENCY TO MATCH THE OUTPUT OF THE COMBINED WELL DISCHARGE TO ENSURE PROPER DOSAGE.
- SODIUM HYPOCHLORITE SHALL BE STORED IN COMMERCIALLY AVAILABLE 55—GAL DRUMS ON LOW—PROFILE CONTAINMENT DECK.
- THE CONTRACTOR SHALL PROVIDE A CROCK FILL LINE WITH A HOSE BIBB WITH VACUUM BREAKER FOR THE PREPARATION OF DILLITED SOLUTION OF SODIUM HYPOCHLORITE.







COMBINATION DRENCH SHOWER/EYE WASH UNIT



WATER SUPPLY SCHEMATIC



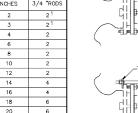


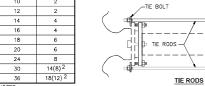
TIE RODS-

ALTERNATE STYLE

-BOLTS RETAINER GLAND
PREFERRED RESTRAINT METHOD RETAINER CLAMPS

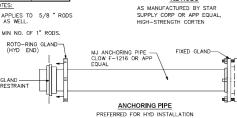
NO. OF TIE RODS REQUIRED PIPE SIZE INCHES



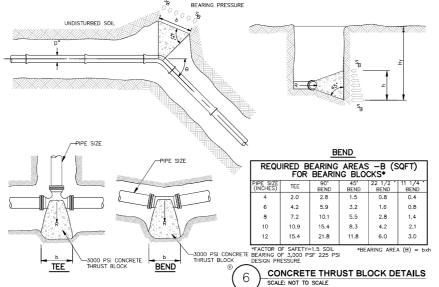


1. APPLIES TO 5/8 " RODS AS WELL. 2. MIN NO. OF 1" RODS.

ORIGINAL SCALE IN INCHES







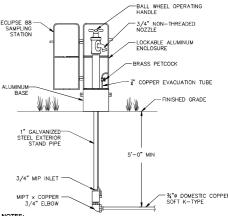
### **NEW YORK STATE** DEPARTMENT OF HEALTH

### NOTES:

- . CONCRETE SHALL NOT TO OVERLAP ANY JOINT.
- THRUST BLOCKS SHALL BE CONFIGURED IN A MANNER THAT DOES NOT INTERFERE WITH REMOVAL OR INSTALLATION OF ANY JOINTING COMPONENTS.
- 3. FOR REDUCERS, USE MECHANICAL JOINT FITTINGS WITH RETAINER GLANDS.
- BEARING SURFACE SHALL, WHERE POSSIBLE, BE PLACED AGAINST UNDISTURBED SOIL WHERE THAT IS NOT POSSIBLE, THE FILL BETWEEN THE BEARING SURFACE AND UNDISTURBED SOIL MUST BE COMPACTED TO AT LEAST 90% STANDARD PROCTOR DENSITY.
- BLOCK HEIGHT (h) SHALL BE EQUAL TO OR LESS THAN ONE—HALF THE TOTAL DEPTH TO THE BOTTOM OF THE BLOCK, (HT), BUT NOT LESS THAN THE PIPE DIAMETER (D).
- BLOCK HEIGHT (h) SHALL BE ESTABLISHED SUCH THAT THE CALCULATED BLOCK WIDTH (b) VARIES BETWEEN ONE AND TWO TIMES THE HEIGHT.
- 7. VALUES FOR TEES APPLY TO TEES, END PLUGS, CAPS, AND TAPPING SLEEVES.
- 8. REQUIRED BEARING AREAS ARE DEVELOPED TO RESIST THRUSTS RESULTING FROM 150 PSI WORKING PRESSURE PLUS 50%(75 PSI) SURGE ALLOWANCE RESULTING IN 225 PSI TOTAL INTERNAL PRESSURE. REQUIRED BEARING AREAS ARE BASED UPON AN ALLOWABLE SOIL BEARING CAPACITY OF 3,000 POUNDS PER SQUARE FOOT. IN RESPONSE TO OTHER SOIL CONDITIONS ENCOUNTERED, BEARING AREAS REQUIRED MAY BE MODIFIED BY THE ENGINEER.

	BEARING STRENGTH
SOIL	SB (LB/SQ FT)
MUCK	0
SOFT CLAY	1,000
SILT	1,500
SANDY SILT	3,000
SAND	4,000
SANDY CLAY	6,000
HARD CLAY	9.000

- IN MUCK, PEAT, OR RECENTLY PLACED FILL, ALL THRUSTS SHALL BE RESISTED BY PILES OR TIE RODS TO SOLID FOUNDATIONS, OR BY REMOVAL OF SUCH UNSTABLE MATERIAL AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE THRUSTS; ALL AS RECOIRED BY THE ENGINEER.



### NOTES:

- SAMPLING STATION SHALL BE ECLISPE NO. 88 AS MANUFACTURED BY KUPFERLE FOUNDRY, ST. LOUIS, MO 63102, OR APPROVED EQUAL.
- SAMPLING STATIONS SHALL BE 5' BURY, WITH A 3/4" FIP INLET AND A 3/4" UNTHREADED NOZZLE.
- ALL STATIONS SHALL BE ENCLOSED IN A LOCKABLE, NON REMOVABLE, ALUMINUM—CAST HOUSING.
- 4. WHEN OPENED, THE STATION SHALL REQUIRE NO KEY FOR OPERATION, AND THE WATER WILL FLOW IN AN ALL BRASS WATERWAY.
- ALL WORKING PARTS SHALL ALSO BE OF BRASS AND BE REMOVABLE FROM ABOVE GROUND WITH NO DIGGING. EXTERIOR PIPING SHALL BE BRASS.
- A COPPER VENT TUBE SHALL ENABLE EACH STATION TO BE PUMPED FREE OF STANDING WATER TO PREVENT FREEZING AND TO MINIMIZE BACTERIA GROWTH. 7. STATION SHALL BE PROVIDED WITH PORTABLE BILGE PUMP PART #88P-1S
  - WATER SAMPLING STATION TYP
    SCALE: NOT TO SCALE

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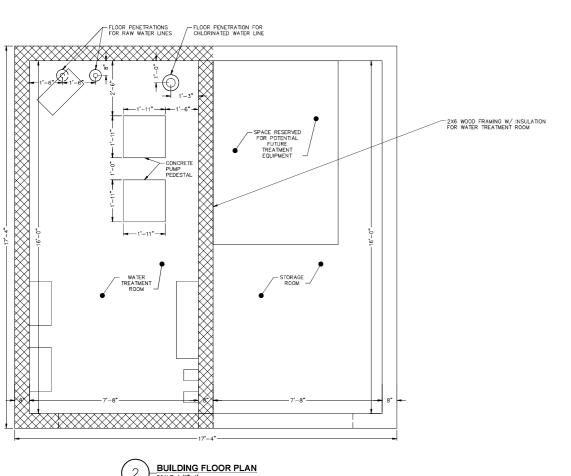




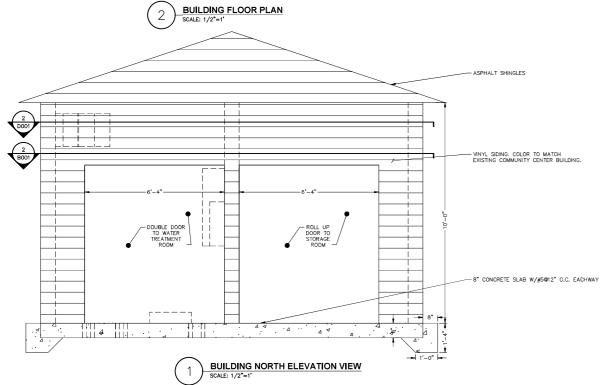


NEW PALTZ MORIELLO PARK

**WATER DETAILS - 2** 



NEW YORK STATE
DEPARTMENT OF HEALTH
Bureau of Water Supply Protection
By Direction of the State Commissioner of Health
These Plans are Hereby Approved.
See First Sheet for Date and Signature



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Poughkeepsie, NY
 White Plains, NY
 New York City, NY

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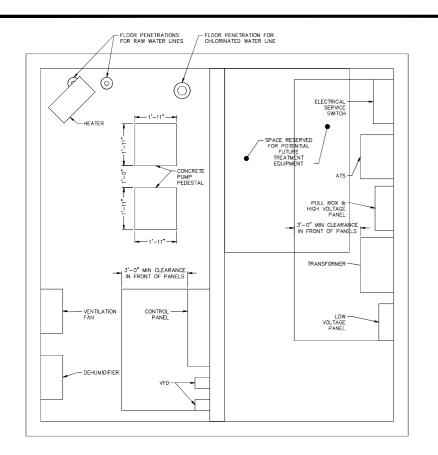
NEW PALTZ MORIELLO PARK

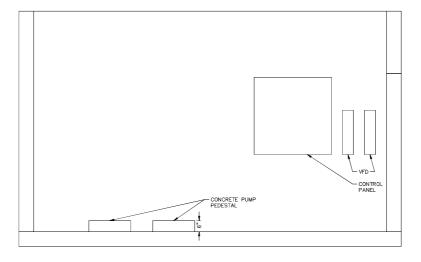
**BUILDING FLOOR PLAN** & ELEVATION VIEW

VILLAGE OF NEW PALTZ, ULSTER COUNTY, NEW YORK

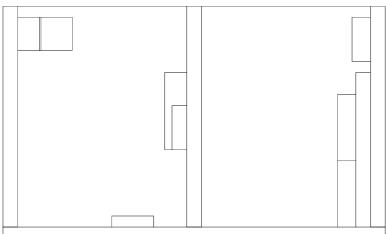
project no. 41725.05 sheet no. B001

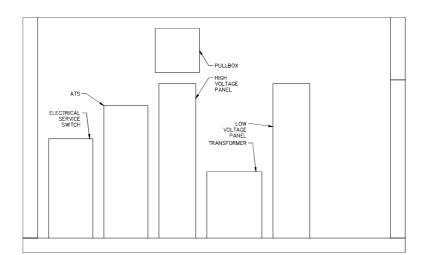
ORIGINAL SCALE IN INCHES





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CHAZEN ENGINEERING, LAND SURVEYING,
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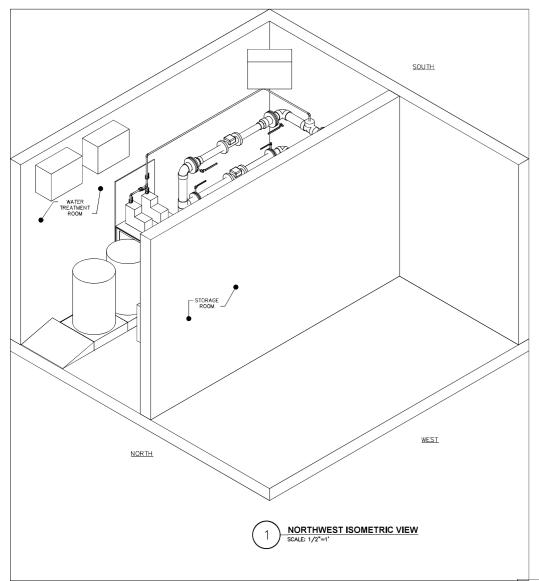
New York City, NY

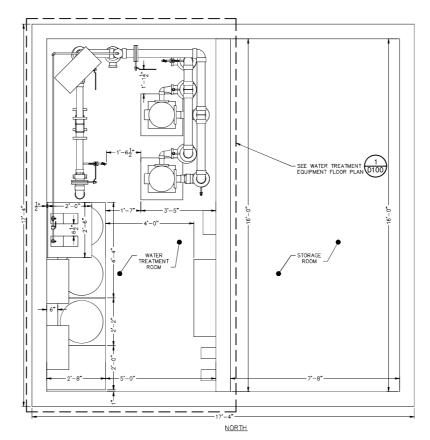
NEW PALTZ MORIELLO PARK

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date | Scale | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1 | 1/2"=1

B100







PIPE SCHEDULE									
ID	SIZE	DESCRIPTION							
1	3/8"	SCH 80 - PVC PIPE							
2	1/2"	SCH 80 - PVC PIPE							
3	2"	SCH 80 - PVC PIPE							
4	4" SCH 80 - PVC PIPE								
5	4"	CL-52 - DIP PIPE							
6	4"	SCH 80 - PVC PIPE							
	VALVE SCHEDULE								
ID	SIZE	DESCRIPTION							
7	3/8"	BALL VALVES US IMPERIAL							
8	1/2"	BALL VALVES US IMPERIAL							
9	3"	BUTTERFLY VALVES US IMPERIAL							
10	3"	CHECK VALVES US IMPERIAL							
11	4"	CHECK VALVES US IMPERIAL							
12	4"	BUTTERFLY VALVES US IMPERIAL							
		FITTINGS SCHEDULE							
ID	SIZE	DESCRIPTION							
13	3/8"	SCH 80 - PVC 90' ELBOW							
14	3/8"	SCH 80 - PVC TEE							
15	2**	SCH 80 - PVC 90° ELBOW							
16	3"	SCH 80 - PVC 90' ELBOW							
17	4"	SCH 80 - PVC 90° ELBOW							
18	4"	CL-52 - DIP 90' ELBOW							
19	4"X3"	SCH 80 - PVC CONCENTRIC REDUCER							
20	4"X2"	SCH 80 - PVC CONCENTRIC REDUCER							
21	4"X3"	SCH 80 - PVC REDUCING TEE							
22	4"	SCH 80 - PVC TEE							
	FLANGE SCHEDULE								
ID	SIZE	DESCRIPTION							
23	4"	CL-52 - DIP FLANGE							
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	INSTRUMENTATION SCHEDULE							
TAG ID	INSTRUMENT LOCATION	MEASUREMENT PARAMETER	INSTRUMENT TYPE	DESCRIPTION	SIGNAL OUTPUT	POWER SUPPLY	MAKE/MODEL	MECHANICAL EQUIPMENT INTERLOCKED WITH THIS INSTRUMENT
LIT-120	PRODUCTION WELL PW-2	LEVEL	LEVEL TRANSMITTER				DWYER INSTRUMENTS MBLT-2SB-IVPF-350-370	
LIT-130	PRODUCTION WELL PW-3	LEVEL	LEVEL TRANSMITTER				DWYER INSTRUMENTS MBLT-2SB-IVPF-350-370	
FIT-120	WELL PW-2 RAW WATER SUPPLY	FLOW MEASUREMENT	TURBINE METER				BADGER METER RECORDALL TURBO SERIES 1000	
FIT-130	WELL PW-3 RAW WATER SUPPLY	FLOW MEASUREMENT	TURBINE METER				BADGER METER RECORDALL TURBO SERIES 1000	
FIT-210	COMBINED PW-2 AND PW-3 RAW WATER SUPPLY	FLOW MEASUREMENT	TURBINE FLOWMETER				BADGER METER RECORDALL TURBO SERIES 1000	
PI-220	WELL PW-2 RAW WATER SUPPLY	PRESSURE	PRESSURE GAUGE				ASHCROFT MODEL 1279 4 ½" DIAL, SWAGELOCK	
PI-221	WELL PW-3 RAW WATER SUPPLY	PRESSURE	PRESSURE GAUGE				ASHCROFT MODEL 1279 4 ½" DIAL, SWAGELOCK	
PI-300	CHLORINATED WATER TO OVERSIZED CT PIPE	PRESSURE	PRESSURE GAUGE				ASHCROFT MODEL 1279 4 ½" DIAL, SWAGELOCK	

MECHANICAL EQUIPMENT SCHEDULE								
TAG ID	FUNCTION	TYPE	PERFORMANCE TARGET	MANUFACTURER	MAKE/MODEL	ASSEMBLY & INSTALLATION	POWER AND CONTROLS	MECHANICAL EQUIPMENT INTERLOCKED WITH THIS INSTRUMENT
P-120	WELL PW-2 RAW WATER SUPPLY WELL PUMP	SUBMERSIBLE	69 GPM @ 444' TDH	GOULDS	85GS100			
P-130	WELL PW-3 RAW WATER SUPPLY WELL PUMP	SUBMERSIBLE	36 GPM @ 431' TDH	GOULDS	35GS50			
P-510	NaOCI METERING PUMP	DIAHRAGM PUMP		LMI	C70			
P-520	NaOCI METERING PUMP	DIAHRAGM PUMP		LMI	C70			

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NEW YORK STATE
DEPARTMENT OF HEALTH
Bureau of Water Supply Protection
By Direction of the State Commissioner of Health
These Plans are Hereby Approved.
See First Sheet for Date and Signature

NEW PALTZ MORIELLO PARK

WATER TREATMENT PLANT **ISOMETRIC & PLAN VIEWS** & EQUIPMENT SCHEDULE

VILLAGE OF NEW PALTZ, ULSTER COUNTY, NEW YORK

JMC JF
date scale
09/28/20 AS NOTED
project no.
41725.05
sheet no. D001

ORIGINAL SCALE IN INCHES

EAST

