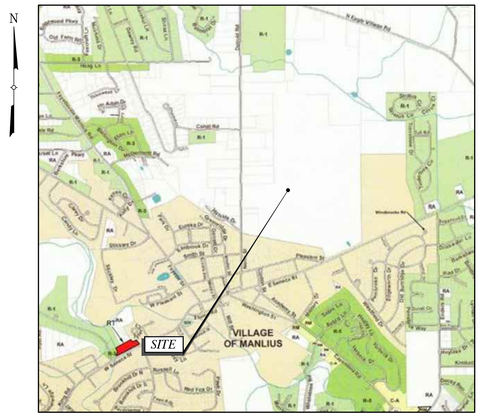
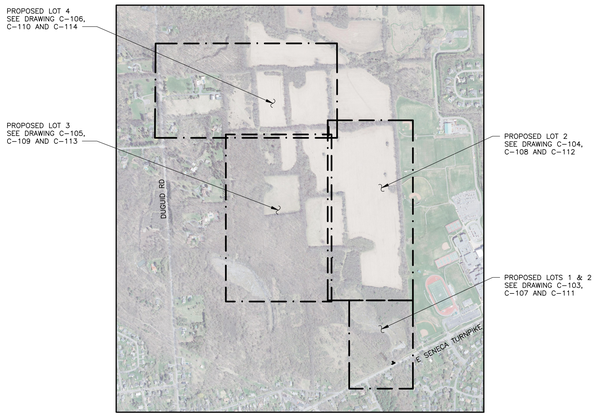
CVE - MANLIUS

TOWN OF MANLIUS
VILLAGE OF MANLIUS
ONONDAGA COUNTY, NEW YORK



ZONING MAP
SCALE: NTS



KEY MAP
SCALE: NTS



LOCATION MAP
SCALE: NTS

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PROJECT DESIGN

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ORIGINAL SIZE IN INCHES

Digitally signed by Mark Lukasik
Date: 2021.04.22 15:39:32 -04'00'

Rev	Date	Revision	Approved

DRAWING CONTROL

Designed by: LAP/RCC	Drawn by: ECM	Checked by: LAP

Purpose	Released by	Date
● For Comment	MAL	4/23/21
○ For Approval		
○ For Bid		
○ For Construction		

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COVER SHEET

CVE MANLIUS
8119 E SENECA TURNPIKE
TOWN OF MANLIUS/VILLAGE OF MANLIUS
COUNTY OF ONONDAGA, NEW YORK

Date	Work Order	Drawing No.	Rev
4/23/2021	10519.04	C-100	0
Scale: AS NOTED			

GENERAL NOTES

A. SITE CONDITIONS

1. EXISTING CONDITIONS ARE BASED ON A MAP ENTITLED "PARTIAL BOUNDARY SURVEY, SU-10-103" BY TECTONIC ENGINEERING CONSULTANTS, GEOLOGISTS & LAND SURVEYORS, D.P.C. DATED 12/17/2020.
2. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS UNLESS OTHERWISE NOTED.
3. ALL INFORMATION SHOWN OR NOTED FOR EXISTING FACILITIES, GRADES, ROADWAYS, AND MATERIALS IS APPROXIMATE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL INFORMATION WHICH MAY AFFECT HIS WORK.
4. TEST PITS SHALL BE CONSTRUCTED BY THE CONTRACTOR AT ALL PIPE CROSSINGS AS REQUIRED TO COMPLETE THE WORK OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS, LABOR AND INSTALLATION OF ALL ITEMS OF CONSTRUCTION FOR THE SUCCESSFUL COMPLETION AND OPERATION OF THE PROJECT SATISFACTORY TO THE OWNER AND THEIR REPRESENTATIVE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL PROVIDE HIS OWN LAYOUT AND STAKEOUT OF ALL PROPOSED IMPROVEMENTS. OFFSET LINES WITH STAKES SHALL BE SET AT APPROPRIATE INTERVALS TO FACILITATE CONSTRUCTION. CUT SHEETS SHALL BE SUBMITTED FOR APPROVAL TO THE OWNERS REPRESENTATIVE AND TO THE WORK CREWS IN THE TIME IDENTIFIED IN SPECS PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL VERIFY ALL BENCHMARKS PRIOR TO THE START OF CONSTRUCTION.
8. THE CONTRACTOR SHALL PROTECT ALL BENCH MARKS AND MONUMENTS FROM DAMAGE AND SHALL ESTABLISH OFFSET POINTS AS REQUIRED FOR THIS WORK.
9. ALL STATIONS SHOWN ON PLANS ARE MEASURED ALONG THE VARIOUS CONSTRUCTION BASELINES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY THROUGHOUT THE DURATION OF THE PROJECT AND SHALL PROVIDE AND MAINTAIN SECURITY FENCING, MEASURES, AND PERSONNEL AS REQUIRED AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
11. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SAFETY REQUIREMENTS AS OUTLINED IN THE GENERAL CONDITIONS OF THE CONSTRUCTION SPECIFICATIONS. THE OWNER AND ENGINEER SHALL ASSUME NO RESPONSIBILITY AND/OR LIABILITY FOR THE SAFETY OF THE WORKERS WHERE THE WORK IS BEING PERFORMED.
12. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND ALL CODES, ORDINANCES, RULES AND REGULATIONS OF HEALTH, PUBLIC OR OTHER AUTHORITIES CONTROLLING OR LIMITING THE METHODS, MATERIAL TO BE USED, OR THE ACTIONS OF THOSE EMPLOYED IN WORK OF THIS KIND. ALL WORK, LABOR OR MATERIAL NECESSARY TO COMPLY WITH THESE LAWS, CODES, ORDINANCES, RULES AND REGULATIONS SHALL BE PERFORMED AND FURNISHED BY THE CONTRACTOR.
13. THE MUNICIPAL AND COUNTY DEPARTMENT OF PUBLIC WORKS AS WELL AS THE STATE DOT (WHERE STATE ROADS ARE INVOLVED) SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY ROAD OPENING OF ANY STREET.
14. THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL NECESSARY PERMITS AND LICENSES REQUIRED TO CARRY OUT HIS WORK IN FULL ACCORDANCE WITH REQUIREMENTS OF ALL REGULATIONS AND AUTHORITIES HAVING JURISDICTION.
15. AREA OF SUBJECT PARCEL: 240.66 ACRES OR 10,483,110 SQUARE FEET.

OWNER:	APPLICANT:
DUGUID REALTY CORPORATION TARKI LOMBARDI, JR 6248 STEINWAY DRIVE JAMESVILLE, NY 13078	CVE NORTH AMERICA, INC. 109 W 27TH ST., 8TH FLOOR NEW YORK, NY 10001

16. AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF ANY WORK, INCLUDING THE INSTALLATION OF EROSION CONTROL DEVICES OR THE REMOVAL OF TREES AND VEGETATION, A PRE-CONSTRUCTION MEETING MUST BE HELD WITH MUNICIPAL REPRESENTATIVES. IT IS THE RESPONSIBILITY AND OBLIGATION OF THE PROPERTY OWNER TO ARRANGE SUCH A MEETING.

B. SOIL EROSION, SEDIMENT, AND DUST CONTROL

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MAINTAIN DUST CONTROL AS REQUIRED OR DIRECTED BY THE ENGINEER. ALL VEHICLES SHALL BE CLEAN AND ALL ROADWAYS SHALL BE MAINTAINED FREE OF CONSTRUCTION DEBRIS AND SOIL.
2. ALL SEDIMENT AND SOIL EROSION CONTROLS PRACTICES ARE TO BE INSTALLED IN CONFORMANCE WITH STATE AND LOCAL STANDARDS PRIOR TO ANY MAJOR SOIL DISTURBANCES. ALL WORK SHALL BE COMPLETED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
3. THE SOIL EROSION AND SEDIMENT CONTROL PLAN SHEET INCLUDES ADDITIONAL NOTES WHICH SHALL BE ADHERED TO BY THE CONTRACTOR.
4. THE STORM WATER POLLUTION CONTROL PLAN (SWPPP) AS APPROVED BY THE TOWN OF MANLIUS AND VILLAGE OF MANLIUS AND THE NYSDEC SPDES PERMIT IS A PART OF THE CONTRACT DOCUMENTS AND ASSISTS THE OWNER WITH COMPLIANCE WITH GP 0-20-001.

C. UTILITIES

1. AVAILABLE INFORMATION AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN COLLECTED FROM VARIOUS SOURCES. THE RESULTS OF SUCH INVESTIGATIONS, AS MAY BE SHOWN ON THE CONTRACT DRAWINGS, ARE NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL CONTACT THE DIG SAFELY NEW YORK (UFPO) SHOWN BELOW. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE, IDENTIFY AND PROTECT UTILITIES WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL DIG TEST PITS TO LOCATE UTILITIES WITHIN THE PROJECT LIMITS
2. DIG SAFELY NEW YORK (UFPO), PHONE # 1-800-962-7962.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES TEN (10) DAYS PRIOR TO CONSTRUCTION, OF THEIR ANTICIPATED START DATE.
4. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES TO DETERMINE THEIR SCHEDULE FOR PERFORMING UTILITY RELOCATION AND INSTALLATION WORK AND HE SHALL SCHEDULE HIS WORK ACCORDINGLY SO AS NOT TO INTERFERE WITH THE WORK OF THE UTILITY COMPANIES.
5. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES AT LEAST 72 HOURS IN ADVANCE OF ANY WORK ON THEIR FACILITIES.
6. EXISTING UTILITY FACILITIES THAT MAY HAVE TO BE RELOCATED ARE TO BE MOVED BY THE RESPECTIVE UTILITY COMPANY UNLESS OTHERWISE NOTED. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND SHALL NOT CLAIM ANY DELAYS TO HIS CONSTRUCTION SCHEDULE.
7. ALL PROPOSED GAS UTILITIES SHALL BE INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED AND SHALL BE LOCATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH THESE UTILITIES FOR THE PROJECT, BOTH ON AND OFF SITE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL REQUIRED UTILITY CONNECTIONS WITH THE RESPECTIVE UTILITY COMPANY.
9. ALL TRENCHES SHALL BE BACK FILLED WITHOUT DELAY. OPEN TRENCHES SHALL BE KEPT TO A MINIMUM. OPEN TRENCHES SHALL BE TEMPORARILY SUPPORTED AND STEEL PLATED WHEN WORK IS NOT IN PROGRESS. NO EXCAVATION AREAS SHALL REMAIN OPEN OVERNIGHT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF STEEL PLATES THAT ARE CAPABLE OF SAFELY SUPPORTING THE LOADS THEY WILL BE SUBJECTED TO.
10. ANY DAMAGE TO UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND ALL COST FOR REPAIRS SHALL BE BORNE BY THE CONTRACTOR.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS INCURRED IN TEMPORARY SUPPORT OF UTILITY POLES NEAR EXCAVATION THAT DO NOT REQUIRE RELOCATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE APPROPRIATE UTILITY COMPANY FOR UTILITY POLE RELOCATION.
12. ALL GAS VALVES, MARKERS, VENTS AND BOXES WITHIN THE CONSTRUCTION LIMITS SHALL BE RESET BY THE RESPECTIVE UTILITY COMPANIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY EACH UTILITY COMPANY AND SCHEDULE THE WORK ACCORDINGLY.
13. FIRE HYDRANTS SHALL BE RELOCATED BY THE CONTRACTOR.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS INCURRED IN TEMPORARY SUPPORT OF UTILITY POLES NEAR EXCAVATION THAT DO NOT REQUIRE RELOCATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE APPROPRIATE UTILITY COMPANY FOR UTILITY POLE RELOCATION.
15. ALL PROPOSED WATER SERVICES SHALL BE LOCATED A MINIMUM SEPARATION DISTANCE OF 10 HORIZONTAL FEET AND 1.5 VERTICAL FEET FROM ALL SANITARY SEWER FACILITIES. A MINIMUM 4 FEET OF COVER SHALL BE PROVIDED OVER ALL WATER.
16. ALL EXCAVATIONS MADE TO REMOVE EXISTING UNDERGROUND UTILITIES/STRUCTURES, INSTALL NEW UNDERGROUND UTILITIES/STRUCTURES, WITHIN FIVE (5) FEET OUTSIDE OF THE BUILDING, OR WITHIN ROADWAYS SHALL BE BACKFILLED IN ACCORDANCE WITH THE PLAN DETAILS AND SPECIFICATIONS AND UNDER THE SUPERVISION OF THE OWNER'S REPRESENTATIVE.
17. UNDERGROUND IMPROVEMENTS IF ANY AND NOT VISIBLE AT THE TIME OF THE SURVEY, HAVE NOT BEEN LOCATED IN THE FIELD OR SHOWN HEREON. TO THE BEST OF OUR BELIEF, UNDERGROUND IMPROVEMENTS FROM AVAILABLE DOCUMENTATION HAVE BEEN SHOWN.

D. PEDESTRIAN AND TRAFFIC FLOW

1. THE CONTRACTOR MUST PROVIDE A MEANS OF SAFE INGRESS AND EGRESS AT ALL TIMES TO THE PUBLIC. THIS SHALL INCLUDE RIGHTS OF WAYS AS WELL AS INDIVIDUAL RESIDENCES AND/OR BUSINESSES WITHIN THE PROJECT AREA.
2. CONTRACTOR IS REQUIRED TO ENSURE THE SAFE, ORDERLY AND EXPEDITIOUS FLOW OF TRAFFIC AT ALL TIMES. SAID TRAFFIC FLOW IS TO BE MAINTAINED IN ACCORDANCE WITH RECOGNIZED TRAFFIC CONTROL STANDARDS AND IS ENSURED, BUT NOT LIMITED TO, THROUGH THE USE OF FLAGMAN, SIGNING, BARRICADES, FLASHING LIGHTS, CONES, BARRELS, ETC. AS APPROVED BY THE CONSTRUCTION MANAGER. A MEETING WITH THE TOWN HIGHWAY SUPERINTENDENT SHALL OCCUR PRIOR TO THE START OF CONSTRUCTION.
3. FLAGMAN SHALL BE EMPLOYED BY THE CONTRACTOR FOR THE PROTECTION OF ANY EQUIPMENT ENTERING, LEAVING OR CROSSING ACTIVE TRAFFIC LANES, OR AS MAY BE REQUIRED FOR THE ROUTING OF ANY TRAFFIC AROUND OR THROUGH THE CONSTRUCTION. FLAGMAN WILL BE EMPLOYED BY THE CONTRACTOR.
4. DURING THE WINTER MONTHS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SNOW REMOVAL AND THE COMPLETE MAINTENANCE OF EXISTING ROADWAYS UTILIZED FOR CONSTRUCTION PURPOSES BY ALL TRADES. THE ROADWAYS SHALL BE KEPT FREE OF ALL OBSTRUCTIONS AND KEPT IN A SMOOTH RIDING CONDITION AT ALL TIMES. ALL POT HOLES, WASHOUTS, CAVE-INS, ETC., DEVELOPING DURING THIS PERIOD SHALL BE PROPERLY FILLED IN WITH MATERIAL BY METHOD APPROVED BY THE OWNERS REPRESENTATIVE. HOWEVER, THE CONTRACTOR SHALL NOT BE REQUIRED TO REMOVE SNOW FROM ROADS OVER WHICH TRAFFIC IS BEING MAINTAINED.
5. BEFORE BEGINNING WORK ON ANY STAGE OF THE PROJECT, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SPECIFIED WARNING SIGNS, BARRICADES, LIGHTS, AND OTHER DEVICES AS SHOWN ON THE CONTRACT PLANS, OR DEEMED NECESSARY, IN THE OPINION OF THE OWNERS REPRESENTATIVE, TO PROTECT THE PUBLIC DURING THAT PHASE OF HIS OPERATIONS.
6. ALL NECESSARY REGULATORY AND WARNING SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA MUTCD (2003) WITH THE NYS SUPPLEMENT, LATEST EDITION, AND STANDARD HIGHWAY SIGNS, 2007 AND SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. WHEN SUCH SIGNS ARE NO LONGER REQUIRED, THE CONTRACTOR SHALL IMMEDIATELY AND CAREFULLY REMOVE AND STORE THEM ON THE PROJECT SITE AT LOCATIONS APPROVED BY THE OWNERS REPRESENTATIVE UNTIL THEY ARE REUSED ON THE PROJECT OR REMOVED BY THE CONTRACTOR.
7. DURING CONSTRUCTION, ALL EXISTING ROADS AND RAMPS SHALL REMAIN OPEN AND BE PROPERLY MAINTAINED TO ACCOMMODATE EMERGENCY VEHICLES AT ALL TIMES.

E. CONSTRUCTION

1. EXISTING ASPHALT PAVEMENT SHALL BE SAWCUT AND REMOVED IN SUCH A MANNER SO AS NOT TO TEAR, BULGE OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL; ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO THE DIRECTION OF TRAFFIC.
2. ALL ADJACENT CONCRETE AND BUILDING SURFACES SHALL BE PROTECTED WHEN TACK COAT AND/OR PRIME COAT IS APPLIED.
3. WHERE UNSTABLE SUBGRADE IS ENCOUNTERED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE COMPLETE EXTENT OF THE FAILED AREA AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL REPLACE THE UNSUITABLE SOILS WITH EMBANKMENT FILL, COMPACT THE AREA IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, AND PROOF ROLL THE AREA TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE.
4. WHERE UNSTABLE OR WEAK AREAS OF PAVEMENT ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE THE COMPLETE EXTENT OF THE FAILED AREA AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL REPLACE THE FAILED PAVEMENT WITH HMA BASE COURSE.
5. ONCE THE CONTRACTOR HAS COMMENCED CONSTRUCTION, THE WORK SHALL CONTINUE ON A DAILY BASIS WITHOUT INTERRUPTION UNTIL ALL OF THE WORK HAS BEEN COMPLETED.
6. MAILBOXES, STREET SIGNS, OR TRAFFIC SIGNS REMOVED FOR CONSTRUCTION PURPOSES MUST BE REPLACED BY THE CONTRACTOR WITHIN 24 HOURS.
7. ALL NEW SURFACE CONCRETE SHALL BE PROTECTED FROM DE-ICING SALTS FOR AT LEAST 60 DAYS AFTER THE POUR DATE.
8. ALL UNUSED SIGNS, SIGN POSTS, STORM SEWER CASTINGS AND GRATES REMOVED DURING CONSTRUCTION AND NOT REPLACED ELSEWHERE ON THIS PROJECT SHALL BECOME THE PROPERTY OF THE OWNER. IF THE OWNER DECLINES OWNERSHIP OF THE MATERIALS, THE CONTRACTOR SHALL REMOVE THE MATERIALS FROM THE SITE AT NO ADDITIONAL COST TO THE OWNER.
9. DEPRESSED CURBING SHALL BE CONSTRUCTED AT ALL WALKWAY CROSSINGS. DEPRESSED CURBS FOR HANDICAP ACCESS SHALL BE FLUSH WITH PAVEMENT. ALL HANDICAP ACCESS FACILITIES SHALL COMPLY WITH CURRENT A.D.A. REGULATIONS AND NEW YORK STATE BUILDING CODE, CHAPTER 11.
10. THE CONTRACTOR SHALL MAINTAIN SUFFICIENT COVER (TEMPORARY AND PERMANENT) OVER ALL PIPES DURING THE CONSTRUCTION OF THE PROJECT IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
11. WHERE CONCRETE PIPE IS PROPOSED, ALL PIPE SHALL BE CLASS III WITH O-RING GASKETS, UNLESS OTHERWISE INDICATED.
12. THE APPLICANT SHALL SECURE ALL APPLICABLE TOWN OF MANLIUS AND VILLAGE OF MANLIUS PERMITS (ROAD OPENING, WATER, SEWER, ETC.) AND SCHEDULE A PRECONSTRUCTION MEETING WITH THE COMMISSIONER OF PUBLIC WORKS AND TOWN ENGINEER PRIOR TO THE START OF CONSTRUCTION.

F. SITE CLEARING AND GRADING

1. SITE CLEARING SHALL INCLUDE, BUT IS NOT LIMITED TO, THE REMOVAL OF ALL DEBRIS, RUBBLE, FENCES, TREES, EXISTING UTILITIES, EXISTING STRUCTURES, FOUNDATIONS, SUBSURFACE STRUCTURES, UNSUITABLE MATERIALS, EXISTING PAVEMENT, THE COORDINATION OF THE RELOCATION OF EXISTING UTILITIES, GRUBBING, ETC. AND ALL OTHER WORK REQUIRED TO COMPLETE THE PROJECT FOR WHICH THERE IS NO SPECIFIC PAY ITEM OR CALLOUT.
2. ALL DEMOLITION ACTIVITIES TO BE IN ACCORDANCE WITH ALL APPLICABLE AUTHORITIES INCLUDING BUT NOT LIMITED TO COUNTY RULES AND REGULATIONS, THE MUNICIPAL ORDINANCE, NYSDEC RULES AND REGULATIONS, AND NEW YORK STATE BUILDING CODE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL UNUSABLE MATERIALS EXCAVATED OF WHATEVER NATURE AT HIS OWN EXPENSE. THE OWNER IS NOT OBLIGATED TO SUPPLY A DISPOSAL SITE. THE CONTRACTOR MUST NOT DEPOSIT THE EXCESS MATERIALS WITHIN THE MUNICIPALITY LIMITS WITHOUT EXPRESS PERMISSION OF THE MUNICIPALITY. MATERIALS MUST BE DISPOSED OF IN ACCORDANCE WITH APPROVED NYSDEC METHODS AND MEANS.
4. ANY EXISTING AND NEW CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND LAWFULLY DISPOSED OF BY THE CONTRACTOR.
5. EXISTING ONSITE SUITABLE SOIL SHALL BE EXCAVATED, TRANSPORTED, SPREAD, GRADED, AND COMPACTED AS REQUIRED BY THE PROPOSED GRADES. ALL EARTHWORK OPERATIONS INVOLVING ONSITE SOILS SHALL BE COMPLETED PRIOR TO IMPORTING ANY OFFSITE MATERIALS. ALL IMPORTED FILL REQUIRED TO ACHIEVE THE PROPOSED GRADES SHALL BE INCLUDED IN THE PROPOSAL. IMPORTED SOIL SHALL BE FREE OF WASTE OR HAZARDOUS MATERIAL AND SHALL COMPLY WITH THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
6. THE CONTRACTOR SHALL NOT REMOVE ANY MATERIALS FROM THE SITE FOR DISPOSAL WITHOUT THE PERMISSION OF THE OWNER.
7. ALL AREAS UNDERGOING REGRADING SHOULD BE SLOPED TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND BUILDINGS.
8. NO TOPSOIL IS TO BE REMOVED FROM THE PROJECT SITE.
9. THE CONTRACTOR SHALL EXERCISE PARTICULAR CARE, ESPECIALLY AT INTERSECTIONS AND GUTTER LINES, IN THE PLACING OF PAVEMENT TO PROVIDE POSITIVE DRAINAGE. ANY AREAS WHERE WATER IS IMPOUNDED SHALL BE CORRECTED BY THE CONTRACTOR.
10. NO MATERIAL SHALL BE PLACED OR ANY DISTURBANCE PERMITTED BEYOND THE PROJECT PROPERTY LINE OR RIGHT OF WAY WITHOUT THE WRITTEN PERMISSION OF THE PROPERTY OWNER DIRECTLY INVOLVED.
11. ALL PRIVATE PROPERTY THAT MAY BE DISTURBED OR DAMAGED BY ANY CONSTRUCTION ACTIVITY SHALL BE RELOCATED, RESTORED, REPAIRED AND/OR REPLACED BY THE CONTRACTOR AT NO COST TO EITHER THE OWNER OR THE OWNER OF THE PROPERTY. THERE WILL BE NO SEPARATE PAYMENT FOR THIS WORK OR MATERIALS.
12. ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR THE PROJECT.
13. PROOF ROLLING OF THE SUBBASE AND SUBGRADE SHALL BE PERFORMED IN THE PRESENCE OF BOTH THE TOWN ENGINEER AND THE OWNER'S REPRESENTATIVE AND FOUND TO BE ACCEPTABLE PRIOR TO PAVING. THE SUBGRADE SHALL BE FIRM AND UNYIELDING PRIOR TO PLACEMENT OF SUBBASE.

ZONING TABLE

ZONE – RESTRICTED AGRICULTURAL DISTRICT (R/A)

TOWN OF MANLIUS 099-1-3 & VILLAGE OF MANLIUS 026-2-6	REQUIRED	EXISTING	PROVIDED
EXISTING CELL TOWER			LOT 1
MINIMUM FRONTAGE (155-12-A.(1)) *	150 FT/200 FT	± 1,777 FT	± 150 FT
MINIMUM LOT AREA (155-12-A.(1)) *	40,000 SF/100,000 SF	± 10,483,110 SF	± 51,949 FT
MINIMUM FRONT YARD SETBACK (155-12-B)	40 FT	± 171 FT	± 171 FT
MINIMUM SIDE YARD SETBACK (ONE SIDE) (155-12-B)	20 FT	± 82 FT	± 82 FT
MINIMUM SIDE YARD SETBACK (BOTH SIDES) (155-12-B)	40 FT	± 2,734 FT	± 184 FT
MIMIMUM REAR YARD SETBACK (155-12-B)	40 FT	± 3,019 FT	± 50 FT

*150 FEET & 40,000 SF WHERE PUBLIC SANITARY SEWERS ARE PROVIDED, 200 FT & 100,000 SF WHERE A SEPTIC SYSTEM IS PROPOSED

ZONE – RESTRICTED AGRICULTURAL DISTRICT (R/A)

TOWN OF MANLIUS 099-1-3 & VILLAGE OF MANLIUS 26-2-6	REQUIRED	PROVIDED		
PROPOSED SPECIAL PERMIT: SOLAR ENERGY SYSTEM ARRAY (LARGE SCALE)		LOT 2	LOT 3	LOT 4
MINIMUM FRONTAGE (155-12-A.(1)) *	150 FT/200 FT	± 734 FT	± 950 FT	± 279 FT
MINIMUM LOT AREA (155-12-A.(1)) *	40,000 SF/100,000 SF	± 2,659,971 SF	± 5,902,579 SF	± 1,911,013 SF
MINIMUM FRONT YARD SETBACK (155-27.2-(3)(A)[2])	50 FT	± 936 FT	± 1,774 FT	± 53 FT
MINIMUM SIDE YARD SETBACK (ONE SIDE) (155-27.2-(3)(A)[2])	50 FT	± 51 FT	± 52 FT	± 58 FT
MINIMUM SIDE YARD SETBACK (BOTH SIDES) (155-27.2-(3)(A)[2])	50 FT	± 71 FT	± 508 FT	± 184 FT
MIMIMUM REAR YARD SETBACK (155-27.2-(3)(A)[2])	50 FT	± 51 FT	± 50 FT	± 52 FT

*150 FEET & 40,000 SF WHERE PUBLIC SANITARY SEWERS ARE PROVIDED, 200 FT & 100,000 SF WHERE A SEPTIC SYSTEM IS PROPOSED

EROSION AND SEDIMENTATION CONTROL NOTES

1. SITE DISTURBANCE SHALL BE LIMITED TO THE MINIMUM NECESSARY GRADING AND VEGETATION REMOVAL REQUIRED FOR CONSTRUCTION.
2. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL FOLLOWING DISTURBANCE TO STABILIZE BARE SOIL AND PROMOTE THE PROMPT ESTABLISHMENT OF VEGETATION.
   A. AN ADEQUATE SEEDBED SHALL BE PREPARED BY SCARIFYING COMPACTED SOIL AND REMOVING SURFACE DEBRIS AND OBSTACLES.
   B. LIME SHALL BE APPLIED SUFFICIENTLY TO ATTAIN A SOIL ACIDITY Ph OF 6.0 TO 7.0.
   C. FERTILIZER (20-0-4 MIXTURE OR EQUIVALENT) SHALL BE APPLIED PER SOIL TEST RESULTS OR AT A RATE OF 160 LBS. PER ACRE.
   D. DISTURBED AREAS WHICH WILL REMAIN TEMPORARILY FALLOW FOR PERIODS GREATER THAN 14 DAYS SHALL BE SEEDED AT THE FOLLOWING RATE TO PRODUCE TEMPORARY GROUND COVER:
      30 LBS. RYEGRASS (ANNUAL) PER ACRE. DURING THE WINTER, USE 100 LBS. CERTIFIED "AROOSTOOK" WINTER RYE CEREAL RYE) PER ACRE.
   E. ALL SEEDING SHALL BE PERFORMED USING THE BROADCAST METHOD OR HYDROSEEDING, UNLESS OTHERWISE APPROVED.
   F. ALL DISTURBED AREAS SHALL BE STABILIZED SUBSEQUENT TO SEEDING BY APPLYING 2 TONS OF STRAW MULCH PER ACRE. STRAW MULCH SHALL BE ANCHORED BY APPLYING 750 LBS OF WOOD FIBER MULCH PER ACRE WITH A HYDROSEEDER, OR TUCKING THE MULCH WITH SMOOTH DISCS OR OTHER MULCH ANCHORING TOOLS TO A DEPTH OF 3". MULCH ANCHORING TOOLS SHALL BE PULLED ACROSS SLOPES ALONG TOPOGRAPHIC CONTOURS.
3. TEMPORARY CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED AND GROUND COVER IS COMPLETELY REESTABLISHED. FOLLOWING STABILIZATION, TEMPORARY MEASURES SHALL BE REMOVED TO AVOID INTERFERENCE WITH DRAINAGE.
4. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN SUFFICIENT QUANTITIES.
5. MULCH NETTING SUCH AS PAPER, JUTE, EXCELSIOR, COTTON OR PLASTIC MAY BE USED. STAPLE IN PLACE OVER HAY OR STRAW MULCH. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
6. PAVING, GRINDING, SAW CUTTING AND REMOVAL OPERATIONS:
   A. AVOID PAVING WHEN RAIN IS IN THE FORECAST.
   B. STORE MATERIALS AWAY FROM STORM DRAINS AND DRAINAGE COURSES TO PREVENT STORM WATER RUN-ON.
   C. PROTECT DRAINAGE COURSES, PARTICULARLY IN AREAS WITH A GRADE, BY EMPLOYING BEST MANAGEMENT PRACTICES TO DIVERT RUNOFF OR TO TRAP AND FILTER SEDIMENT.
   D. DISPOSAL OF PCC AND AC WASTE USING TEMPORARY CONCRETE WASHOUT SYSTEMS AND DUMP TRUCKS ONLY. NO STOCKPILING ON SITE PERMITTED.
   E. SWEEP AND COLLECT ALL GRINDING RESIDUE, BROKEN ASPHALT, CONCRETE AND DEBRIS FROM REMOVAL OPERATIONS.
   F. DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO A STORM DRAIN SYSTEM. COLLECT AND DISPOSE OF PROPERLY.
   G. SHOVEL OR VACUUM SAW CUT SLURRY AND REMOVE FROM SITE.
   H. PLACE DRIP PANS OR ABSORBENT MATERIAL UNDER PAVING EQUIPMENT WHEN NOT IN USE. CLEAN UP ALL SPILLS WITH ABSORBENT MATERIALS.
   I. DO NOT WASH OUT CONCRETE TRUCKS ANYWHERE ON SITE, EXCEPT A DESIGNATED CONCRETE WASHOUT AREA OR APPROVED PORTABLE WASHOUT SYSTEM.
   J. EXCESS CONCRETE SHALL NOT BE DUMPED ON SITE, EXCEPT IN A DESIGNATED CONCRETE WASHOUT AREA OR APPROVED PORTABLE WASHOUT SYSTEM.

EROSION AND SEDIMENTATION CONTROL SCHEDULE

CONSTRUCTION SCHEDULE

1. ALL APPROVALS AND PERMITS SHALL BE SECURED.
2. A PRE-CONSTRUCTION MEETING WITH OWNER, OWNER'S REPRESENTATIVE, MUNICIPAL REPRESENTATIVE AND CONTRACTOR PRESENT WILL BE HELD.
3. CERTIFICATIONS OBTAINED FROM CONTRACTORS, SUBCONTRACTORS AND ANY OTHERS PERFORMING SITE DISTURBANCES INCLUDING UNDERGROUND UTILITY CONTRACTORS BE SIGNED AND MAINTAINED ON SITE.
4. CONSTRUCTION ENTRANCE, SILT FENCE, STRAW BALE DIKE, DIVERSION SWALES/DIKES, SEDIMENTATION TRAPS, SEDIMENTATION BASIN, STORM DRAIN INLET PROTECTION, CONSTRUCTION FENCE AND OTHER TEMPORARY EROSION CONTROL MEASURES WILL BE INSTALLED PRIOR TO ANY CONSTRUCTION INCLUDING CLEARING, GRUBBING, AND DEMOLITION OF THE SITE IN ACCORDANCE WITH NYSDEC STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, LATEST EDITION.
5. INSTALL PROVISIONS FOR PROTECTION OF EXISTING FACILITIES WHERE INDICATED ON THE PLANS AND DETAILS
6. DISTURBANCE SHALL BE LIMITED TO A 5 ACRES MAXIMUM. ALL NON-ACTIVE DISTURBED AREAS SHALL RECEIVE TEMPORARY OR PERMANENT STABILIZATION. NON-ACTIVE DISTURBED AREAS SHALL NOT REMAIN FALLOW FOR LONGER THAN 14 DAYS WITHOUT BEING STABILIZED.
7. INSTALL TEMPORARY ACCESS ROAD, EQUIPMENT PADS AND SOLAR ARRAY SO AS NOT TO DISTURB MORE THAN 5 ACRES AT ANY ONE TIME.
8. INSTALL INTERMEDIATE EROSION CONTROL MEASURES BETWEEN CONSTRUCTION PHASES TO LIMIT DISTURBANCE TO 5 ACRES MAXIMUM.
9. INSTALL FINAL ACCESS ROAD.
10. INSTALL ASPHALT PAVEMENT MAINTAINING POSITIVE DRAINAGE AND FLUSH WITH EXISTING ADJOINING PAVEMENT.
11. ALL LANDSCAPED/GRASSED AREAS WILL BE SEEDED AND MULCHED IN A TWO STEP HYDRAULIC PROCESS TO PROMOTE GROWTH AS SOON AS POSSIBLE.
12. UPON STABILIZATION, ALL TEMPORARY MEASURES WILL BE REMOVED.
13. REMOVE ALL SILT AND SEDIMENT FROM SITE.
14. ALL DEBRIS, SILT, AND OTHER OBSTRUCTIONS ARE TO BE REMOVED FROM THE END OF THE DRAINAGE STRUCTURES AFTER ALL ON SITE WORK IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.

LEGEND

- PROPERTY LINE
- ADJOINING PROPERTY LINE
- EASEMENT LINE
- PROPOSED TOWN EASEMENT
- ZONE BOUNDARY
- MUNICIPAL BOUNDARY
- PROPOSED PROPERTY BOUNDARY
- INDEX CONTOUR
- CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED CONTOUR
- WETLANDS DELINEATION
- 100' WETLANDS BUFFER
- YARD SETBACK
- CURB LINE
- EDGE OF CONCRETE
- EDGE OF GRAVEL
- EDGE OF PAVEMENT
- OHW — OVERHEAD WIRES
- CHAIN LINK FENCE
- PROPOSED CHAIN LINK FENCE
- GUIDE RAIL
- PAINTED TRAFFIC LINES
- STONE WALL
- TREE LINE
- PROPOSED TREE LINE
- PROPOSED CHAIN LINK FENCE
- LIMIT OF DISTURBANCE
- U/G — U/G — UNDERGROUND ELECTRIC



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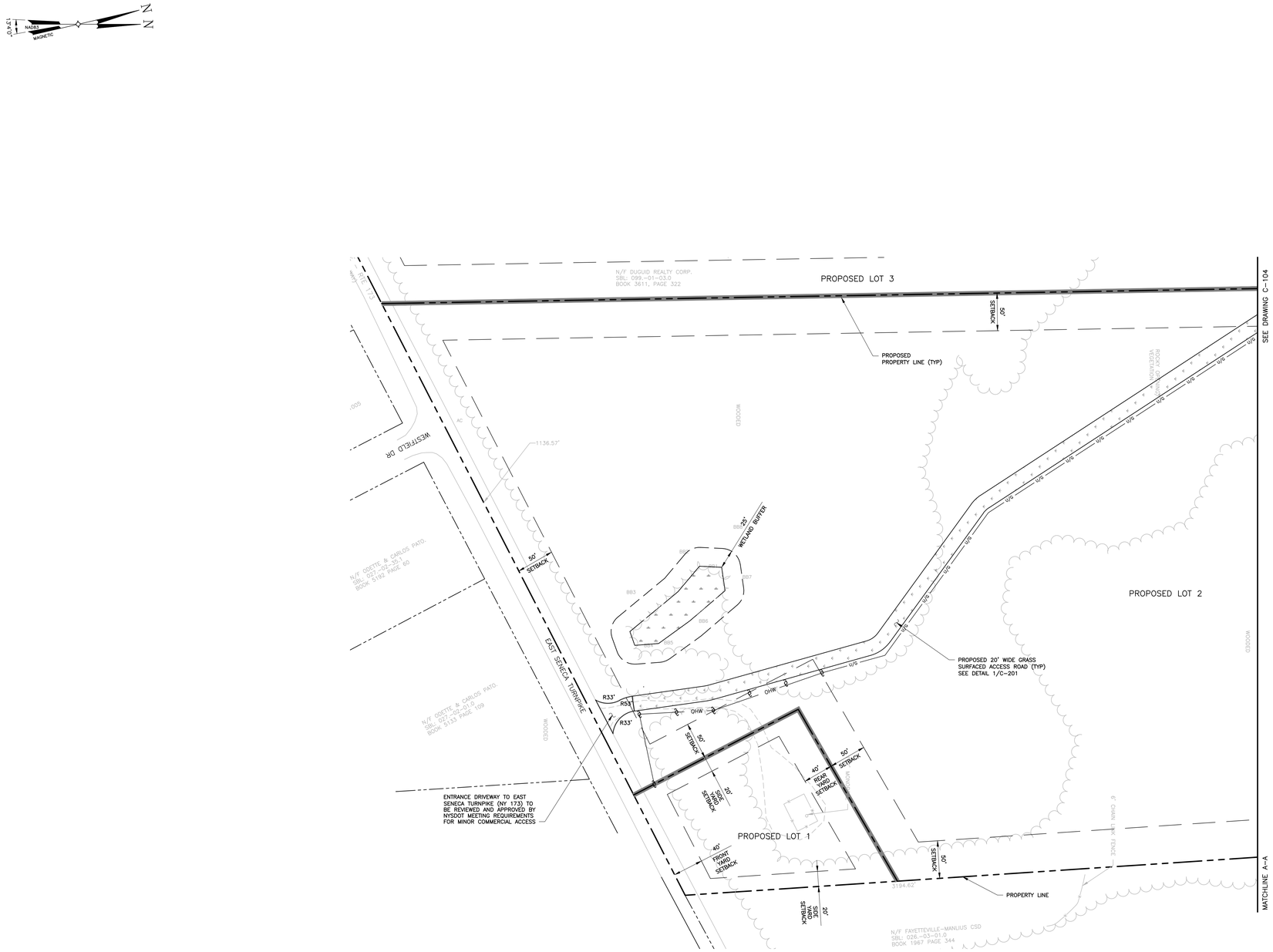
SUBDIVSION PLAN

CVE MANLIUS
8119 E SENECA TURNPIKE
TOWN OF MANLIUS/VILLAGE OF MANLIUS
COUNTY OF ONONDAGA, NEW YORK

Date	Work Order	Drawing No.	Rev
4/23/2021	10519.04	C-102	0
Scale 1" = 150'			



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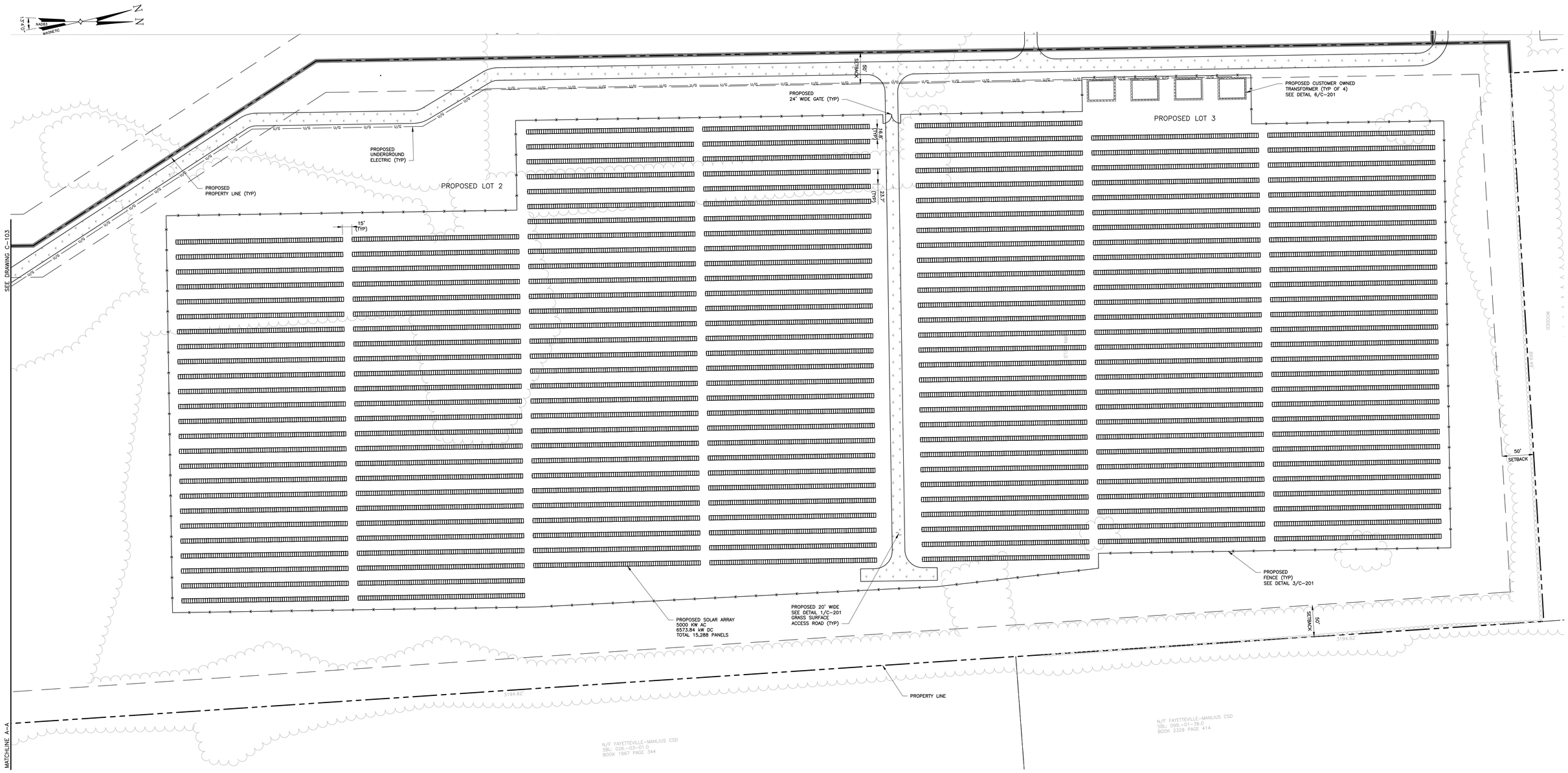
PARTIAL SITE PLAN – PROPOSED LOTS 1 & 2

CVE MANLIUS
8119 E SENECA TURNPIKE
TOWN OF MANLIUS/VILLAGE OF MANLIUS
COUNTY OF ONONDAGA, NEW YORK

Date	Work Order	Drawing No.	Rev
4/23/2021	10519.04	C-103	0
Scale 1" = 60'			



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PARTIAL SITE PLAN – PROPOSED LOT 2

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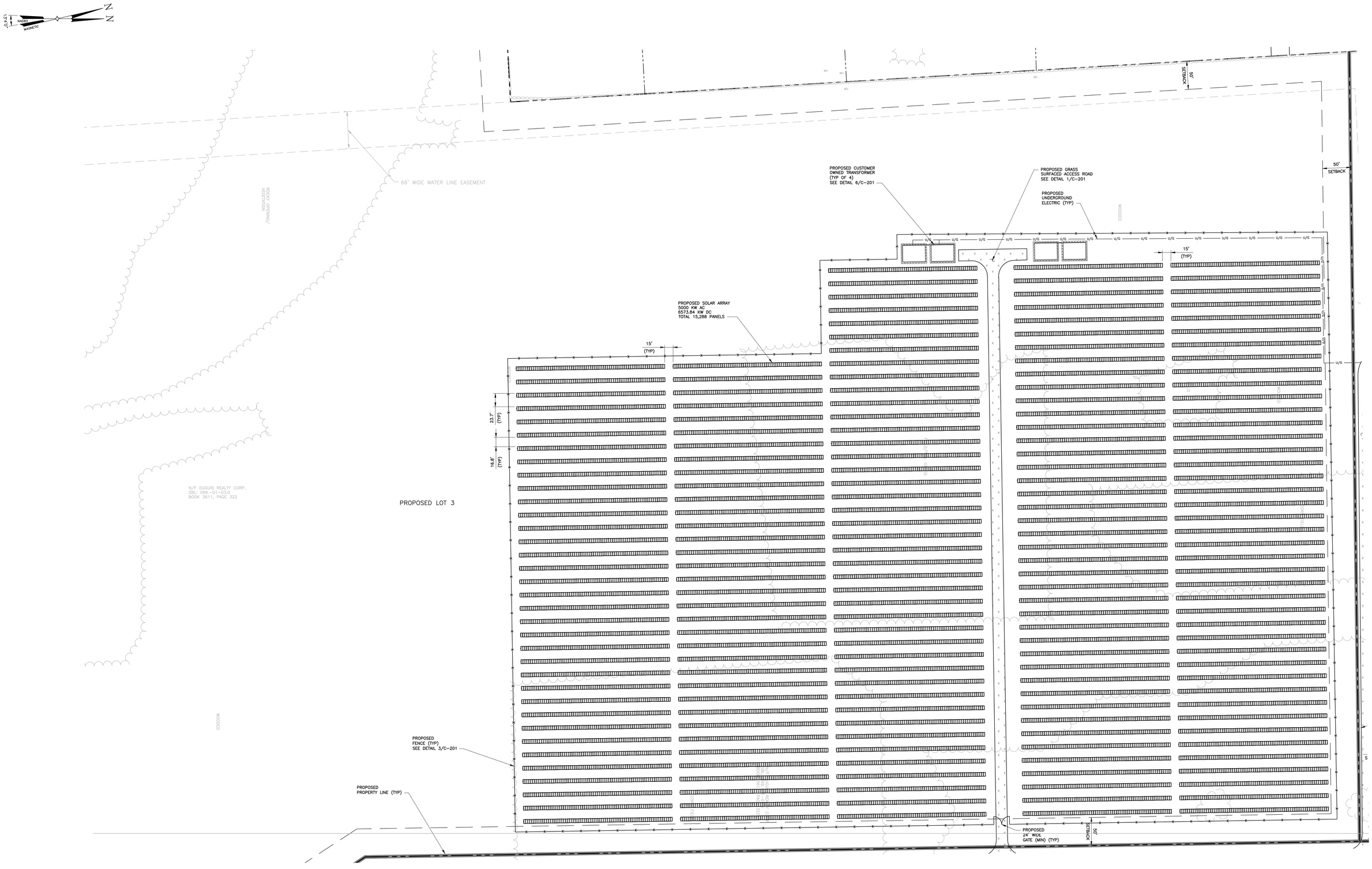
COUNTY OF ONONDAGA, NEW YORK

Date	Work Order	Drawing No.	Rev
4/23/2021	10519.04	C-104	0
Scale 1" = 60'			



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PARTIAL SITE PLAN – PROPOSED LOT 3

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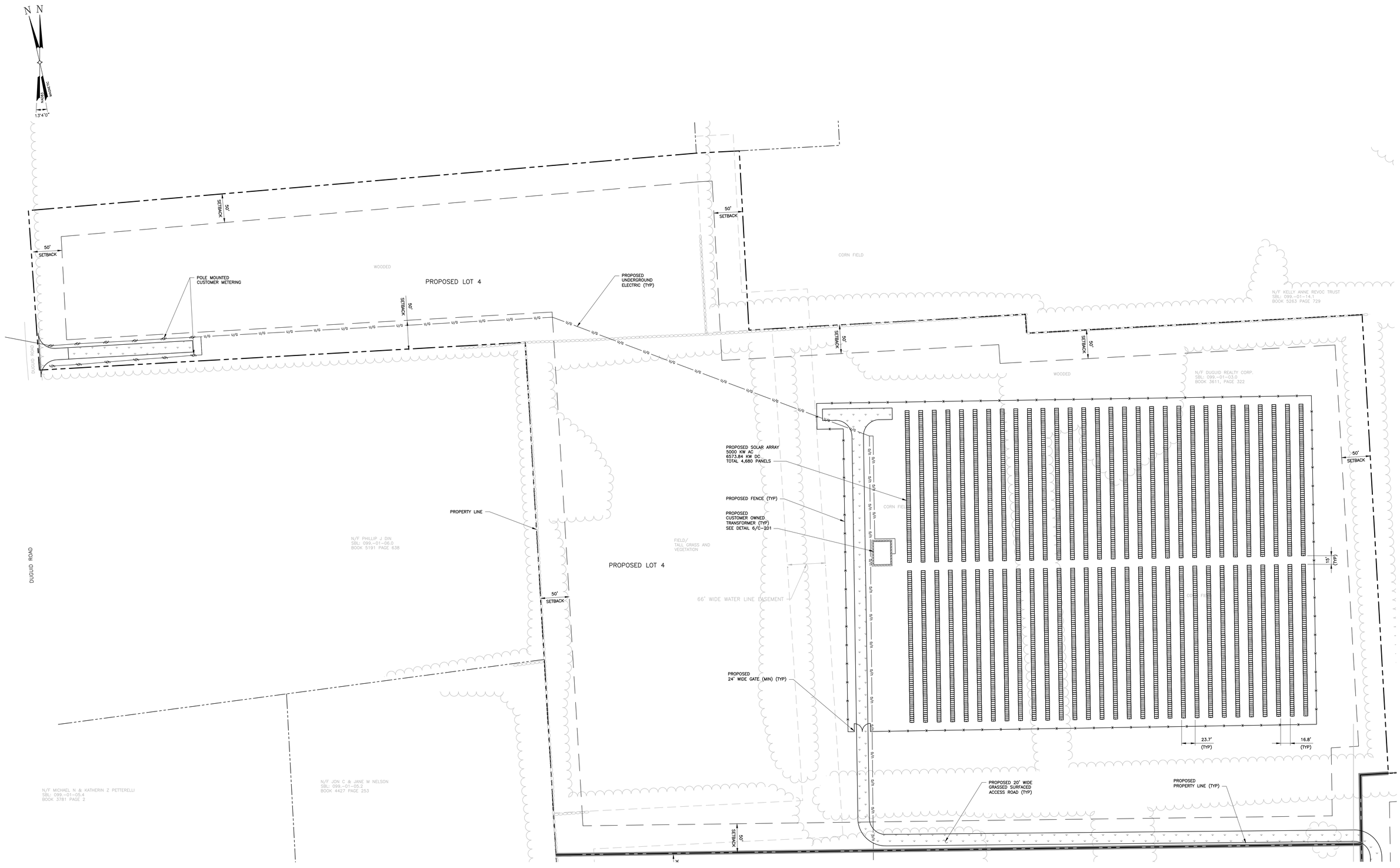
Date	Work Order	Drawing No.	Rev
4/23/2021	10519.04	C-105	0
Scale 1" = 60'			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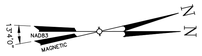
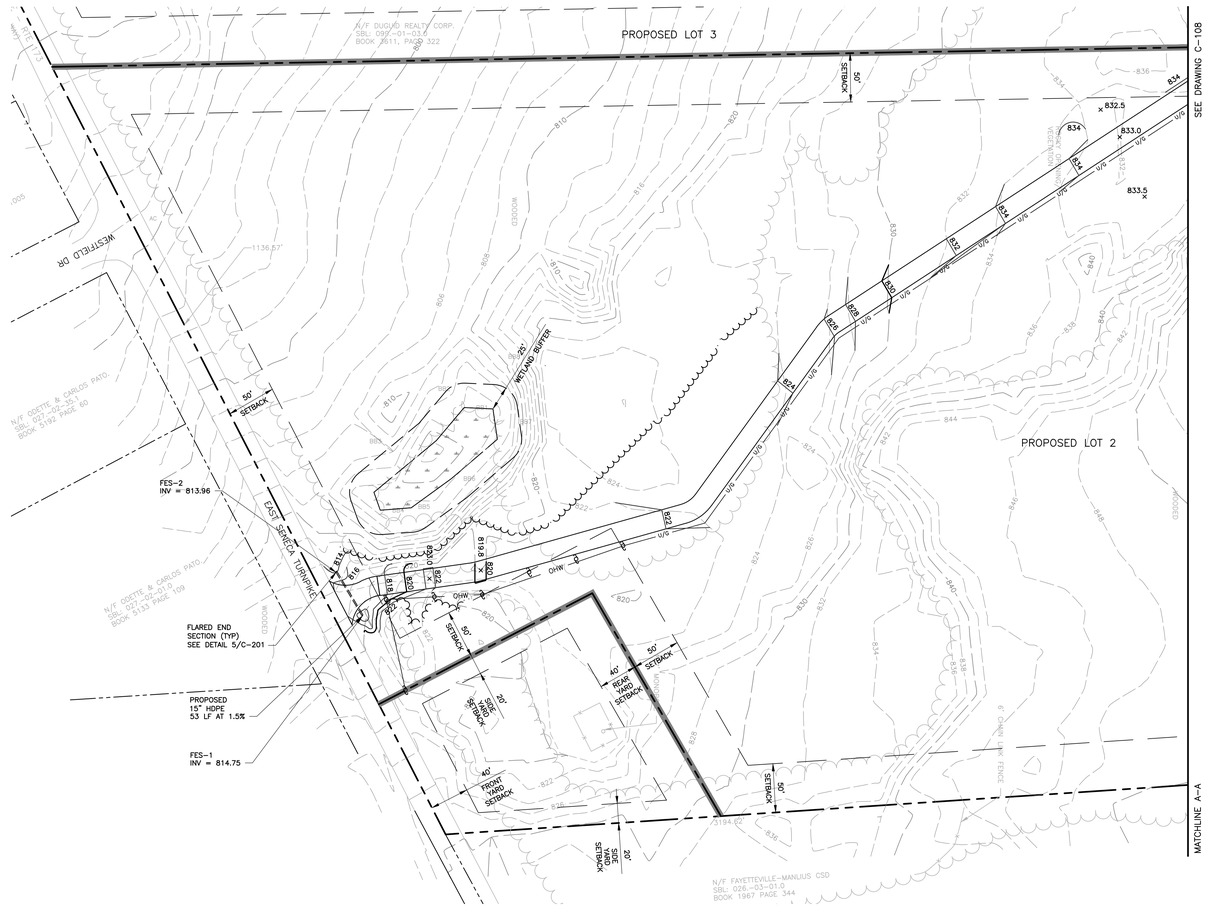
N
SCALE
1"=60'
1"
3"
4"
0"
SETBACK
50'
SETBACK
50'
SETBACK
50'





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GRADING AND DRAINAGE PARTIAL PLAN

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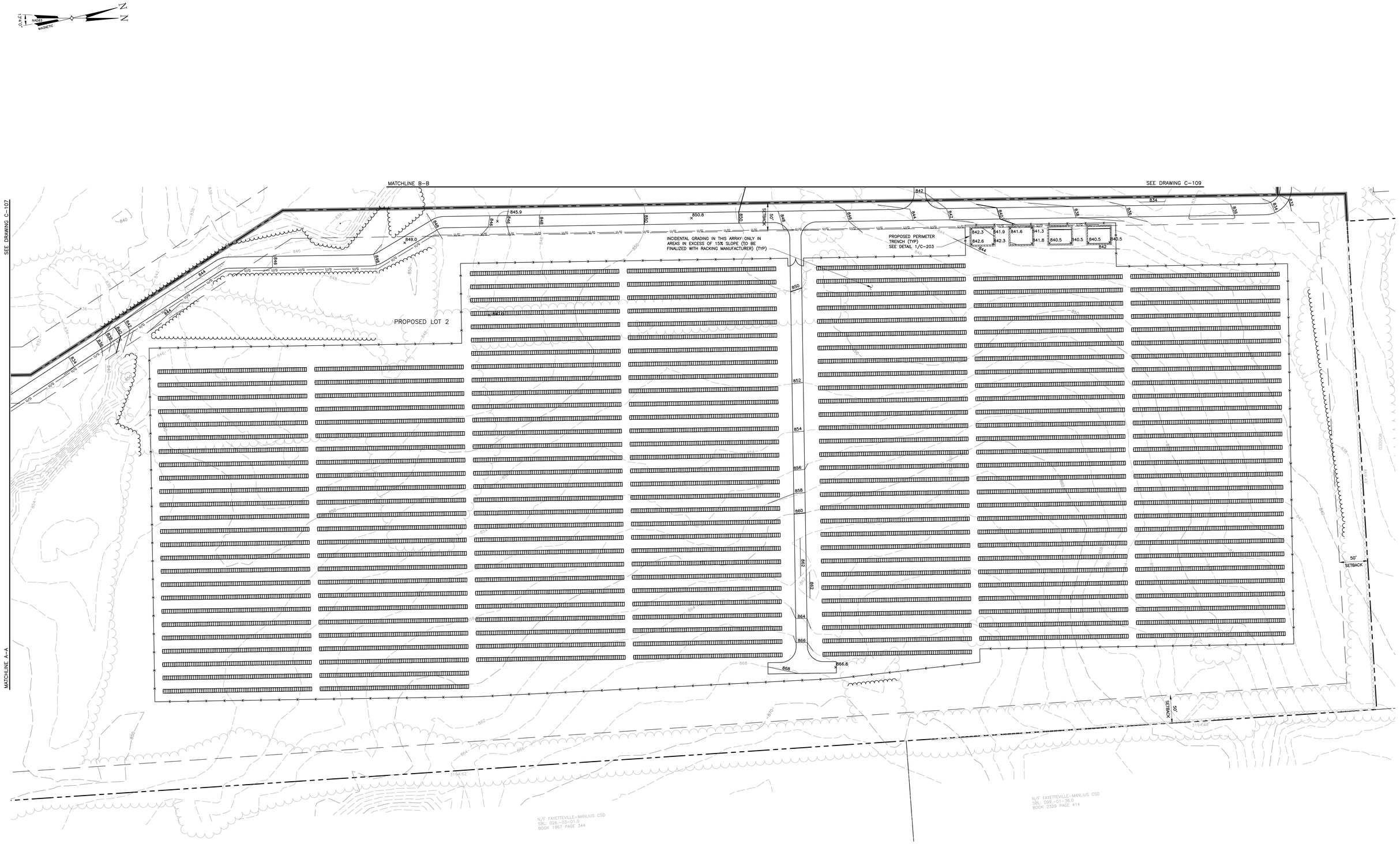
Date	Work Order	Drawing No.	Rev
4/23/2021	10519.04	C-107	0
Scale 1" = 60'			



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Date	Work Order	Drawing No.	Rev
4/23/2021	10519.04	C–108	0
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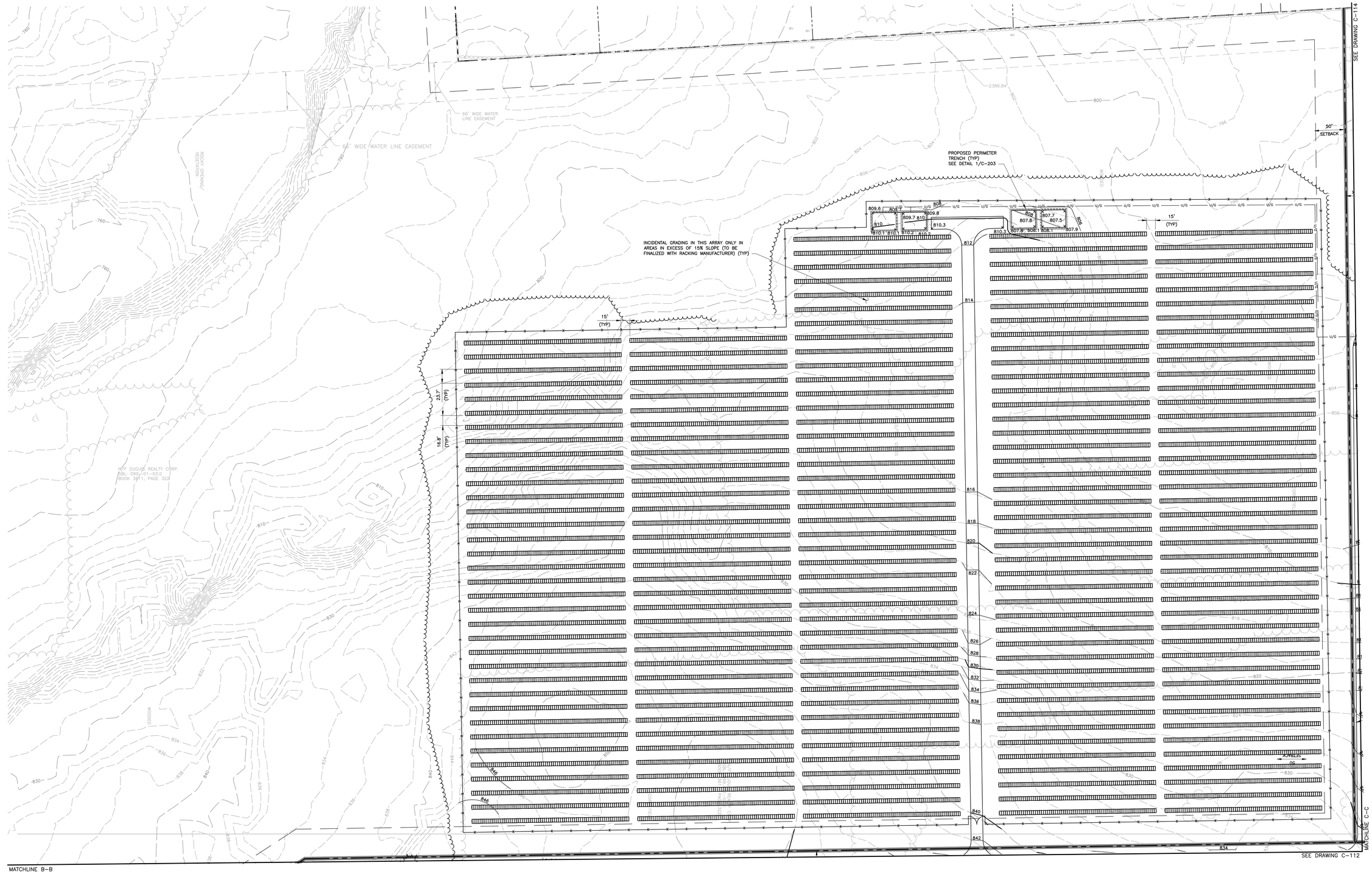

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STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER

GRADING AND DRAINAGE PARTIAL PLAN

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COUNTY OF ONONDAGA, NEW YORK

Date	Work Order	Drawing No.	Rev
4/23/2021	10519.04	C-109	0
Scale 1" = 60'			

N N

1"=40'

PROPOSED LOT 4

50' SETBACK

INCIDENTAL GRADING IN THIS ARRAY ONLY IN AREAS IN EXCESS OF 15% SLOPE (TO BE FINALIZED WITH RACKING MANUFACTURER) (TYP)

WOODED

CORN FIELD

FIELD/ TALL GRASS AND VEGETATION

792 794 796 798 800 802

793.0

PROPOSED PERIMETER TRENCH (TYP) SEE DETAIL 1/C-203

816.9 817.4 816 814 814.2 813.3 813.5

66' WIDE WATER LINE EASEMENT

812 810 808 806 804 803.9

20' REBS

832 834

DUGUID ROAD

N/F KELLY ANNE REVOC TRUST
SBL: 099.-01-14.1
BOOK 5263 PAGE 729

N/F DUGUID REALTY CORP.
SBL: 099.-01-03.0
BOOK 3611, PAGE 322

N/F PHILLIP J DIN
SBL: 099.-01-06.0
BOOK 5191 PAGE 638

N/F MICHAEL N & KATHERIN Z PETTERELLI
SBL: 099.-01-05.4
BOOK 3781 PAGE 2

N/F JON C & JANE M NELSON
SBL: 099.-01-05.2
BOOK 4427 PAGE 253

MATCHLINE C-C

SEE DRAWING C-109

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COUNTY OF ONONDAGA, NEW YORK

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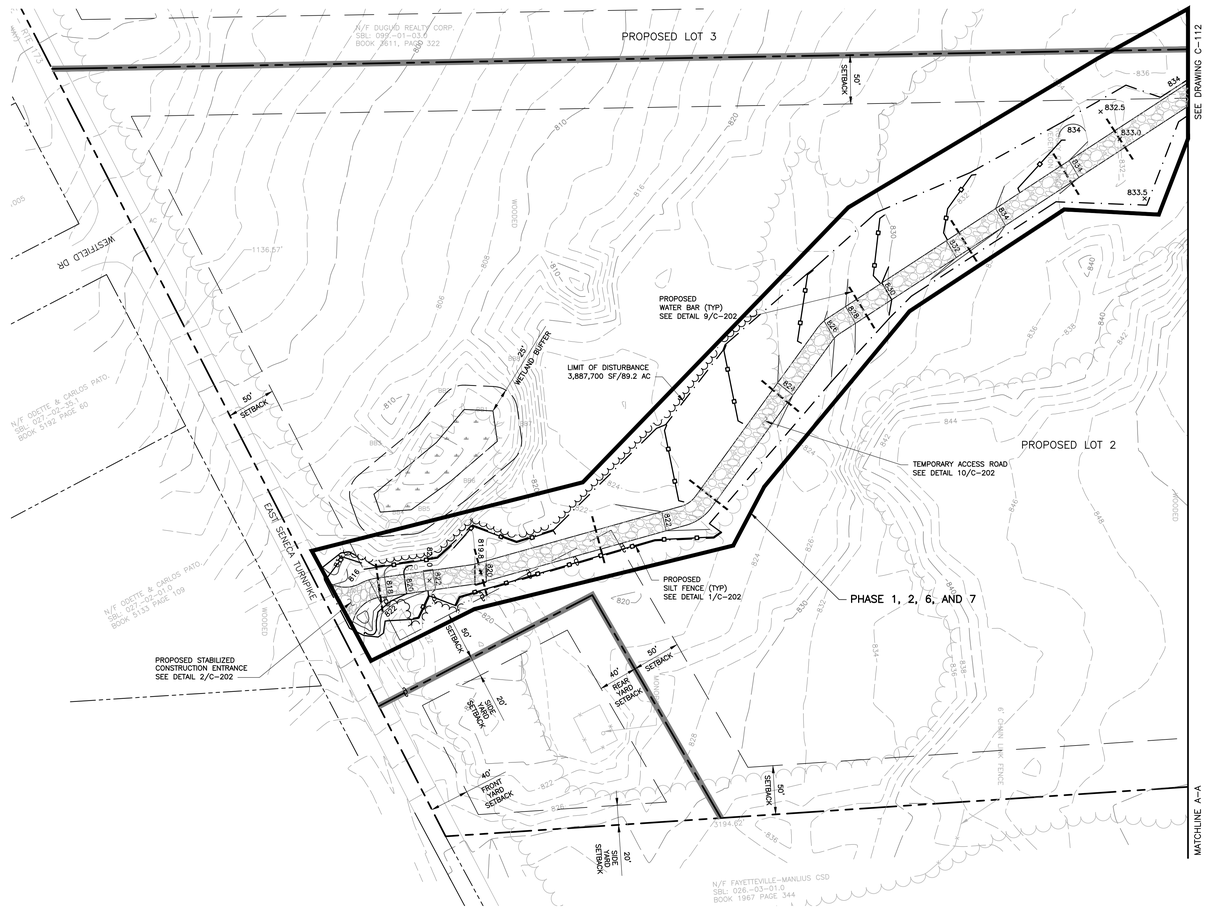
4/23/2021	10519.04	C-110	0

Scale: 1" = 60'





EROSION CONTROL LEGEND

- WATER BAR
- SILT FENCE
- PHASING LIMITS

PROJECT PHASING SEQUENCING

CONSTRUCTION PHASING		PHASE CONSTRUCTION SEQUENCE
PHASE NO.	SUBPHASE	
1*	-	INSTALL PERIMETER CONTROLS AROUND ACCESS ROAD. MAINTAIN UNTIL CONSTRUCTION IS COMPLETE AND FINAL STABILIZATION IS ACHIEVED.
2*	-	CONSTRUCT TEMPORARY ACCESS ROAD WITH WATER BARS WITH PROPOSED GRADES OVER DESIGNATED FINAL ACCESS ROAD. STONE REQUIRED FOR PERMANENT ACCESS ROAD MAY BE USED FOR THE TEMPORARY ROAD. HOWEVER, THIS STONE MAY REQUIRE REPLACEMENT PRIOR TO FINAL INSTALLATION OF GRASS ON PERMANENT ACCESS ROAD IF LOADED WITH SEDIMENT DUE TO CONSTRUCTION OPERATIONS.
3*	A	INSTALL PERIMETER CONTROLS AND CONCRETE WASHOUT IN PROPOSED ARRAY AREA IN LOT 2.
	B**	PERFORM TREE CLEARING OPERATIONS WITHIN LOT 2.
	C	CONSTRUCT SOLAR ARRAY WITHIN LOT 2.
	D***	CONSTRUCT FENCING, GATES, AND CONCRETE PADS IN LOT 2.
	E	APPLY HAY AND SEED IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL NOTES ON SHEET 2.
	F	REMOVE EROSION AND SEDIMENT CONTROLS WITHIN LOT 2 WHEN FINAL STABILIZATION IS ACHIEVED.
4*	-	REPEAT STEPS 3A-3F FOR ARRAYS ON LOT 3.
5*	-	REPEAT STEPS 3A-3F FOR ARRAYS ON LOT 4.
6*	-	INSTALL THE ELECTRICAL CONNECTIONS TO THE PROPERTY FROM EAST SENECA TURNPIKE AND DUGUID ROAD. INSTALL ALL OVERHEAD WIRES AND UNDERGROUND ELECTRIC AS SHOWN ON THE PLANS. INSTALL REMAINING FENCING.
7*	-	CONVERT THE TEMPORARY ACCESS ROAD TO THE PERMANENT ACCESS ROAD. REMOVE WATER BARS. REPLACE ALL STONE FOULED WITH SEDIMENT ON THE ACCESS ROAD AND INSTALL THE PERMANENT ACCESS ROAD IN ACCORDANCE WITH THE SPECIFIED DETAIL.
8*	-	REMOVE ALL EROSION AND SEDIMENT CONTROLS WHEN CONSTRUCTION IS COMPLETE AND SITE HAS REACHED FINAL STABILIZATION.
*AT NO POINT DURING CONSTRUCTION, SHALL THE LIMIT OF DISTURBANCE EXCEED 5 ACRES.		
**TREE CLEARING OPERATIONS MAY BEGIN ON ALL LOTS DURING PHASE 2. DURING THIS PHASE TREE CLEARING SHALL NOT INCLUDE STUMP REMOVAL.		
***MAINTAIN OPENING IN FENCE AT LOCATIONS OF UNDERGROUND ELECTRIC WIRING IN PHASE 3D.		

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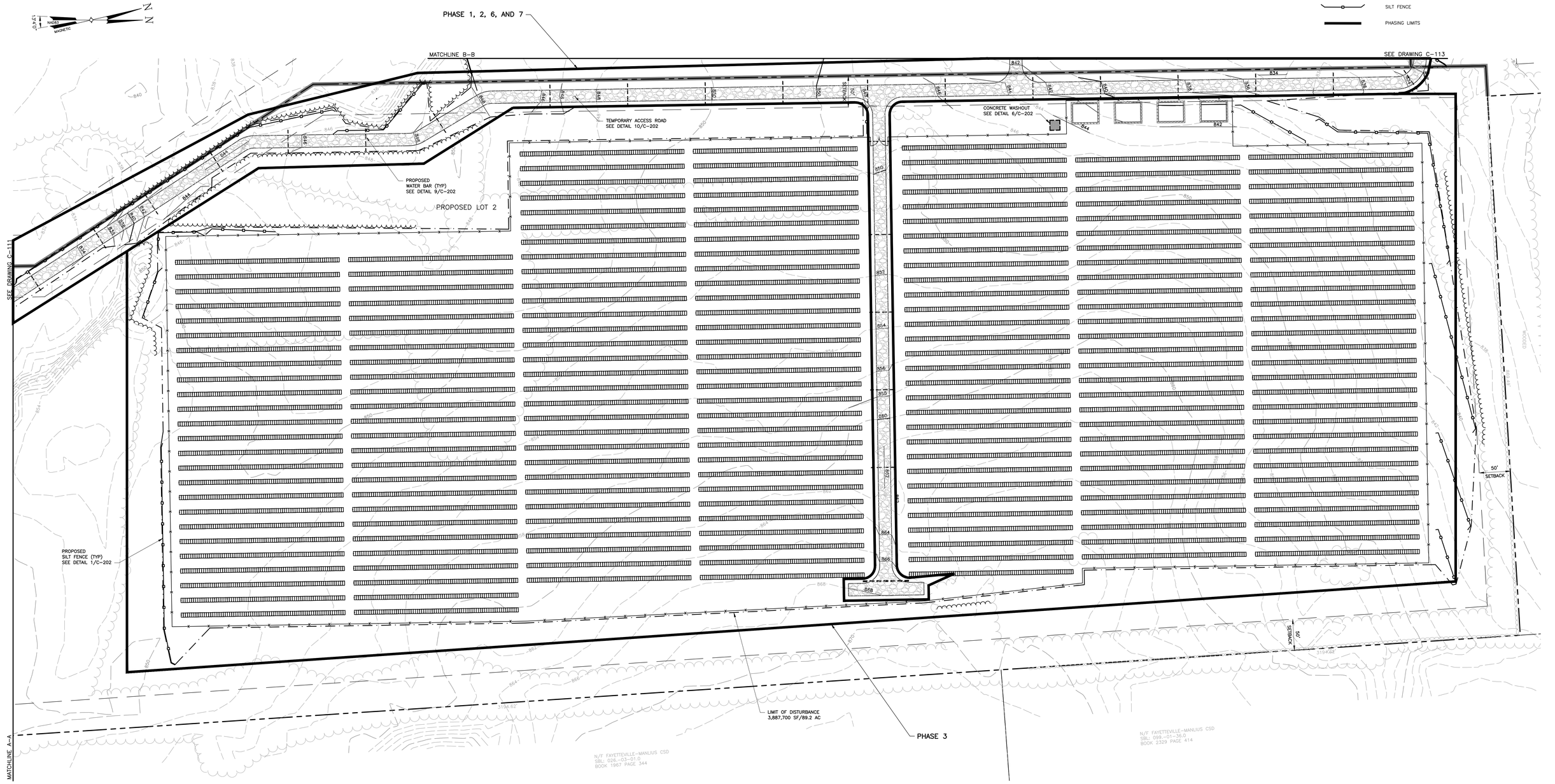
EROSION CONTROL PARTIAL PLAN

CVE MANLIUS
8119 E SENECA TURNPIKE
TOWN OF MANLIUS/VILLAGE OF MANLIUS
COUNTY OF ONONDAGA, NEW YORK

Date	Work Order	Drawing No.	Rev
4/23/2021	10519.04	C-111	0
Scale 1" = 60'			

EROSION CONTROL LEGEND

- WATER BAR
- SILT FENCE
- PHASING LIMITS



PROJECT PHASING SEQUENCING

CONSTRUCTION PHASING		PHASE CONSTRUCTION SEQUENCE
PHASE NO.	SUBPHASE	
1*	-	INSTALL PERIMETER CONTROLS AROUND ACCESS ROAD. MAINTAIN UNTIL CONSTRUCTION IS COMPLETE AND FINAL STABILIZATION IS ACHIEVED.
2*	-	CONSTRUCT TEMPORARY ACCESS ROAD WITH WATER BARS WITH PROPOSED GRADES OVER DESIGNATED FINAL ACCESS ROAD. STONE REQUIRED FOR PERMANENT ACCESS ROAD MAY BE USED FOR THE TEMPORARY ROAD. HOWEVER, THIS STONE MAY REQUIRE REPLACEMENT PRIOR TO FINAL INSTALLATION OF GRASS ON PERMANENT ACCESS ROAD IF LOADED WITH SEDIMENT DUE TO CONSTRUCTION OPERATIONS.
3*	A	INSTALL PERIMETER CONTROLS AND CONCRETE WASHOUT IN PROPOSED ARRAY AREA IN LOT 2.
	B**	PERFORM TREE CLEARING OPERATIONS WITHIN LOT 2.
	C	CONSTRUCT SOLAR ARRAY WITHIN LOT 2.
	D***	CONSTRUCT FENCING, GATES, AND CONCRETE PADS IN LOT 2.
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	F	REMOVE EROSION AND SEDIMENT CONTROLS WITHIN LOT 2 WHEN FINAL STABILIZATION IS ACHIEVED.
4*	-	REPEAT STEPS 3A-3F FOR ARRAYS ON LOT 3.
5*	-	REPEAT STEPS 3A-3F FOR ARRAYS ON LOT 4.
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Scale 1" = 60'			

EROSION CONTROL LEGEND

WATER BAR

SILT FENCE

PHASING LIMITS

PROJECT PHASING SEQUENCING

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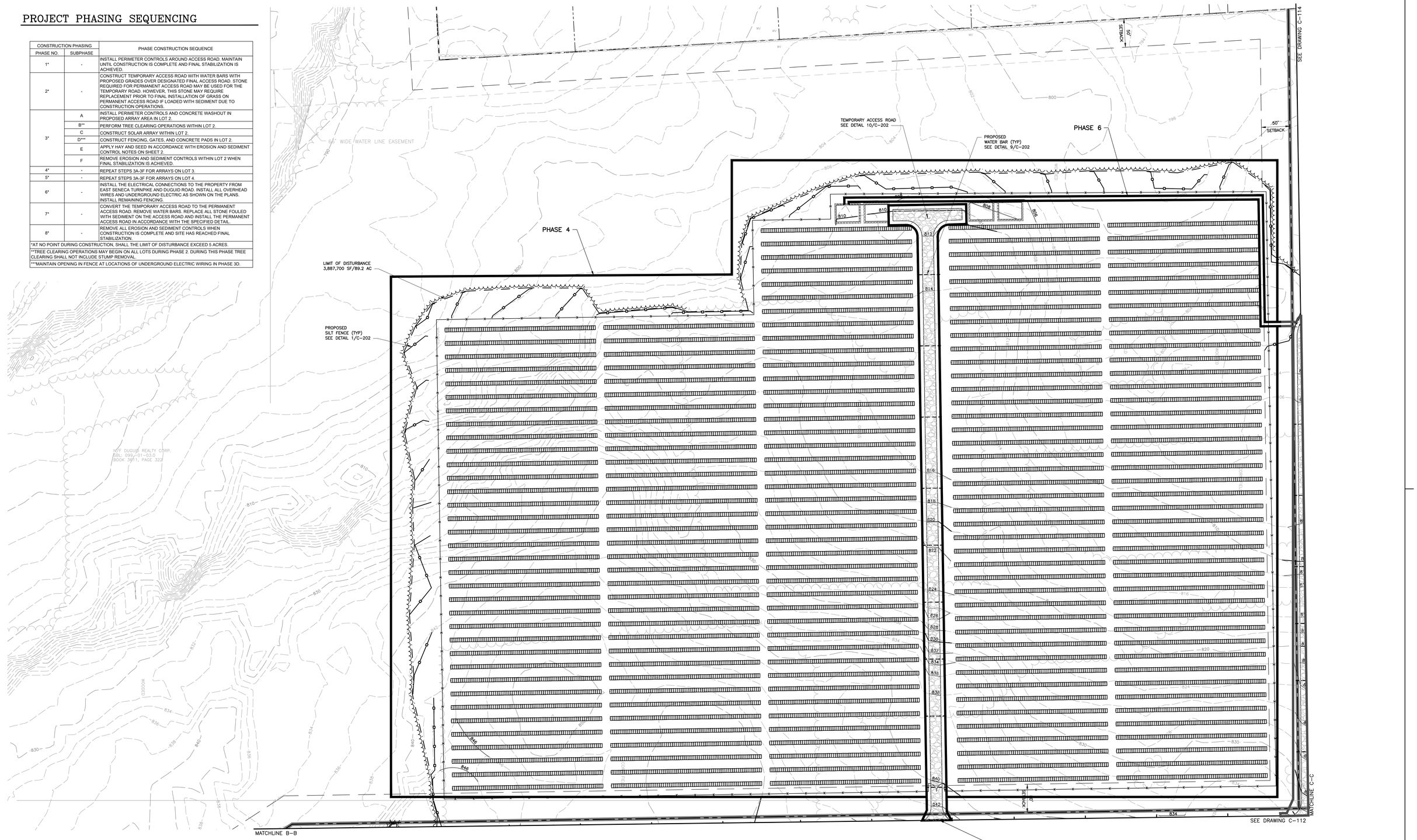

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EROSION CONTROL LEGEND

WATER BAR

SILT FENCE

PHASING LIMITS

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N N

13'4"0"

PHASE 1, 2, 6, AND 7

PHASE 6

PHASE 5

PROPOSED LOT 4

PROPOSED STABILIZED CONSTRUCTION ENTRANCE SEE DETAIL 2/C-202

LIMIT OF DISTURBANCE 3,887,700 SF/89.2 AC

PROPOSED SILT FENCE (TYP) SEE DETAIL 1/C-202

TEMPORARY ACCESS ROAD SEE DETAIL 10/C-202

PROPOSED WATER BAR (TYP) SEE DETAIL 9/C-202

66' WIDE WATER LINE EASEMENT

FIELD/ TALL GRASS AND VEGETATION

WOODED

CORN FIELD

DUGUID ROAD

N/F PHILLIP J DIN
SBL: 099.-01-06.0
BOOK 5191 PAGE 638

N/F KELLY ANNE REVOC TRUST
SBL: 099.-01-14.1
BOOK 5263 PAGE 729

N/F DUGUID REALTY CORP.
SBL: 099.-01-03.0
BOOK 3611, PAGE 322

N/F MICHAEL N & KATHERIN Z PETTERELLI
SBL: 099.-01-05.4
BOOK 3781 PAGE 2

N/F JON C & JANE M NELSON
SBL: 099.-01-05.2
BOOK 4427 PAGE 253

MATCHLINE C-C

SEE DRAWING C-113

PHASE 1, 2, 6, AND 7

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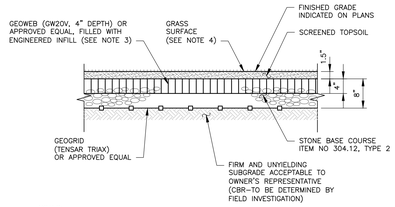
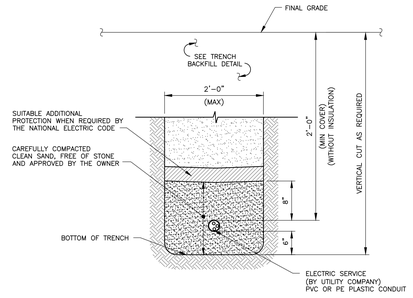


NOTES:
1. ROAD DESIGNED TO SUPPORT A MINIMUM OF 75,000 LBS PER NYS FIRE CODE (OR TOWN APPROVED LOADING IF GREATER THAN 75,000 LBS).
2. PROVIDE FLEXIBLE DELINEATORS (CARSONITE OR APPROVED EQUAL) 2' OFF EDGE OF ROAD AT 150' INTERVALS.
3. ENGINEERED INFILL TO CONSIST OF A MIXTURE OF 67% CRUSHED AGGREGATE (AASHTO NO. 5) WITH 33% SCREENED TOPSOIL TO PROMOTE VEGETATIVE GROWTH AND PROVIDE STRUCTURAL SUPPORT. SEE SPECIFICATIONS FOR MORE DETAIL.
4. GRASS SEED MIX TO BE DROUGHT RESISTANT (ERNST'S COMMERCIAL CONSERVATION MIX OR APPROVED EQUAL).
5. GEOGRID PRODUCT NUMBER TO BE SELECTED AS FOLLOWS FROM FIELD INVESTIGATION RESULTS:

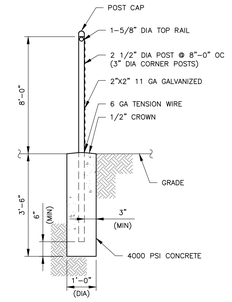
CBR	TENSAR TRIAX #
1.3 < CBR <5	T160
>5%	T130S

1 C-201 GRASS SURFACED FIRE APPARATUS ACCESS ROAD
SCALE: NTS

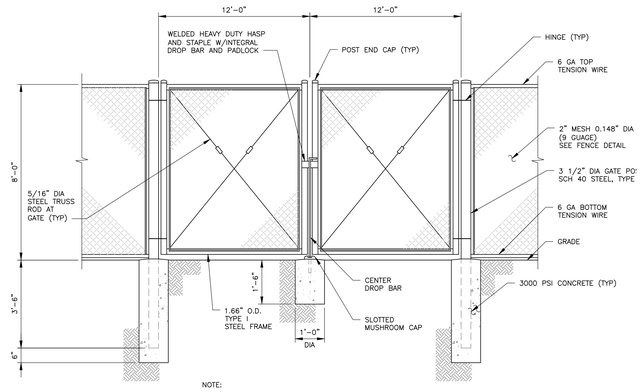


NOTE:
ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE LOCAL UTILITY COMPANIES.

2 C-201 UTILITY TRENCH
SCALE: NTS

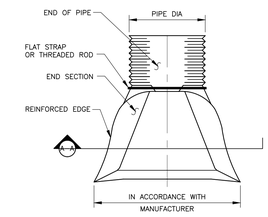


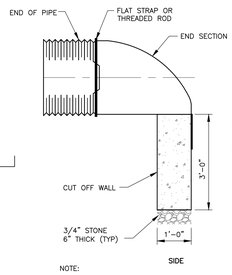
3 C-201 FENCE
SCALE: 1/2" = 1'-0"

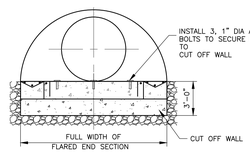


NOTE:
1. ALL STEEL SHALL BE HOT DIPPED GALVANIZED.

4 C-201 DOUBLE GATE
SCALE: NTS

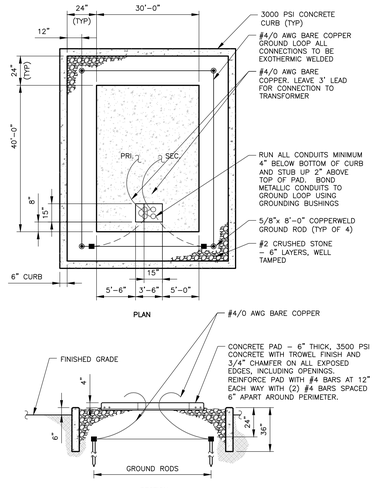




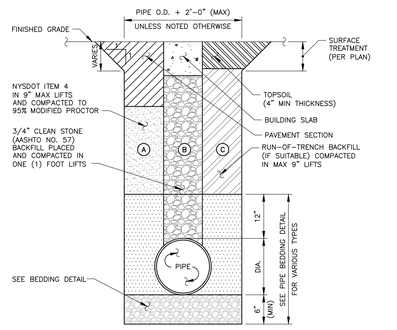


NOTE:
RIP-RAP TO BE PROVIDED AT THE END OF THE FLARED END SECTION AS PER PLANS.

5 C-201 FLARED END SECTION
SCALE: NTS



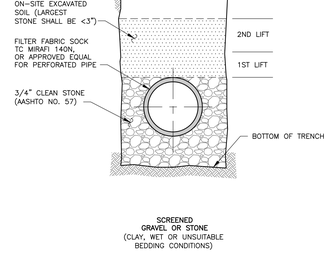
6 C-201 TRANSFORMER PAD
SCALE: 1/4" = 1'-0"



CONSTRUCTION CASES:
A. TRENCH UNDER ROADWAY (EXTEND 5' OUTSIDE CURB/EDGE OF PAVEMENT)
B. TRENCH UNDER BUILDING SLAB/FOOTING (EXTEND 5' OUTSIDE BUILDING LINE)
C. TRENCH UNDER OFF-ROAD AREAS

NOTES:
1. ALL COSTS ASSOCIATED WITH THE PROVISION TRENCH BACKFILL IN ACCORDANCE WITH THIS DETAIL SHALL BE INCLUDED.
2. ALL EXCAVATION AND TRENCHING MEET OSHA REQUIREMENTS.
3. BACKFILL WITH EXCAVATED TRENCH MATERIAL FREE OF DELETERIOUS MATERIAL AND STONES OVER 6" DIAMETER (UNLESS OTHERWISE NOTED). BACKFILL TO BE PLACED IN 8" (MAX) LIFTS AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D1557) (UNLESS OTHERWISE NOTED).

7 C-201 TRENCH BACKFILL
SCALE: NTS



NOTES:
1. SELECT FILL TO BE THOROUGHLY COMPACTED IN 6" LAYERS BY APPROVED TAMPING MACHINE.
2. SELECT FILL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY (ASTM D1557)
3. APPROVED BACKFILL COMPACTED AS PER SPECIFICATIONS.
4. TRENCH WIDTH TO BE THE LESSER OF (O.D.+2*O.D.) OR (O.D.+2*0.5FT)
5. PVC SEWER PIPE AND FITTINGS, NPS 15 AND SMALLER SHALL BE ASTM D 3034, SDR-35, FOR SOLVENT-CEMENTED OR GASKETED JOINTS. IF GASKETS ARE PROVIDED, GASKETS SHALL MEET ASTM F 477 FOR ELASTOMERIC SEALS.
6. HDPE STORM SEWER PIPE AND FITTINGS SHALL COMPLY WITH THE REQUIREMENTS FOR TEST METHODS, DIMENSIONS AND MARKINGS FOUND IN AASHTO DESIGNATIONS M252, AND M294. PIPE AND FITTINGS SHALL BE MADE FROM VIRGIN PE COMPOUNDS WHICH CONFORM TO THE APPLICABLE CURRENT EDITION OF THE AASHTO MATERIAL SPECIFICATIONS FOR CELL CLASSIFICATION AS DEFINED AND DESCRIBED IN ASTM D3350. STORM SEWER PIPING GREATER THAN EIGHT (8) INCHES IN DIAMETER SHALL BE SMOOTH INTERIOR/CORRUGATED EXTERIOR PIPE FITTED WITH WATERTIGHT JOINTS MEETING OR EXCEEDING ASTM 3212 LAB TEST AND ASTM 1417 WATERTIGHT FIELD TEST. N-12 IB WT™PRODUCT AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC. (ADS), COLUMBUS, OH, (614) 457-3051 OR APPROVED EQUAL. STORM SEWER PIPING LESS THAN OR EQUAL TO EIGHT (8) INCHES IN DIAMETER SHALL BE SINGLE WALL, CORRUGATED PIPE FITTED WITH SNAP OR SPLIT COUPLINGS, AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC. (ADS), COLUMBUS, OH, (614) 457-3051 OR APPROVED EQUAL. PERFORATIONS APPLIED BY THE MANUFACTURER TO THE PIPE SHALL BE PROVIDED WERE INDICATED ON THE PROJECT PLANS.
7. FILTER FABRIC SHALL BE AASHTO M288 CLASS 2 NON-WOVEN, TC MIRAFI 170N OR APPROVED EQUAL, UNLESS OTHERWISE INDICATED.
8. BEDDING CONDITION SHALL BE DETERMINED BY OWNER'S REPRESENTATIVE.

8 C-201 STANDARD BEDDING FOR PVC/HDPE PIPE
SCALE: NTS

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Rev	Date	Revision	Approved

DRAWING CONTROL

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DETAILS

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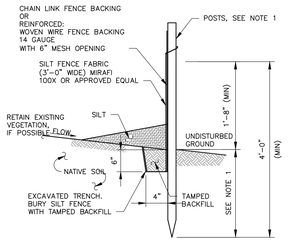
COUNTY OF ONONDAGA, NEW YORK

Date	Work Order	Drawing No.	Rev
4/23/2021	10519.04	C-201	0
Scale: AS NOTED			



SLOPE	STEEPNESS	SLOPE LENGTH/FENCE LENGTH (FEET)		
		STANDARD	REINFORCED	SUPER
<2%	<50:1	300/1500	N/A	N/A
2-10%	50:1 TO 10:1	125/1000	250/2000	300/2500
10-20%	10:1 TO 5:1	100/750	150/1000	200/1000
20-33%	5:1 TO 3:1	60/500	80/750	100/1000
33-50%	3:1 TO 2:1	40/250	70/350	100/500
>50%	>2:1	20/125	30/175	50/250

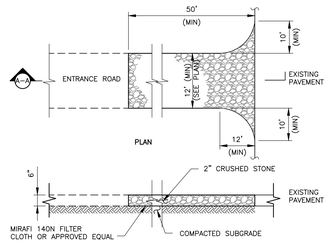
TABLE A

NOTES:

1. POST MATERIAL AND SPACING:
   - A. STANDARD SILT FENCE – POSTS SHALL BE 2"X2" HARDWOOD OR "T" OR "U" SHAPED STEEL NOT LESS THAN 1.00 POUND PER LINEAR FOOT AND SPACED A MAXIMUM OF 4'-0" ON CENTER. POST EMBEDMENT = 1'-4" (MIN).
   - B. REINFORCED SILT FENCE– POSTS SHALL BE 2"X2" HARDWOOD OR "T" OR "U" SHAPED STEEL NOT LESS THAN 1.00 POUND PER LINEAR FOOT AND SPACED A MAXIMUM OF 10'-0" ON CENTER. POST EMBEDMENT = 1'-4" (MIN).
   - C. SUPER SILT FENCE – POSTS SHALL BE 2 ½" DIAMETER STEEL, DIRECT BURY, AND SPACED A MAXIMUM OF 10'-0" ON CENTER. POST EMBEDMENT = 3'-0" (MIN).
2. REINFORCEMENT SHALL BE FASTENED TO THE POSTS DEPENDENT ON THE POST MATERIAL AS FOLLOWS:
   - A. HARDWOOD – WIRE TIES OR STAPLES
   - B. STEEL – WIRE TIES
3. FILTER CLOTH TO BE FASTENED SECURELY TO FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID–SECTION. UNREINFORCED SILT FENCE MUST BE FASTENED SECURELY TO ALL POSTS.
4. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6 INCHES AND FOLDED.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" FORM IN SILT FENCE.
6. SILT FENCE TO BE MAINTAINED IN PLACE DURING CONSTRUCTION AND SOIL STABILIZATION PERIOD.
7. SILT FENCE SHALL BE INSTALLED PARALLEL TO CONTOURS TO ASSURE NO CONCENTRATION OF WATER.
8. PREFABRICATED UNITS TO MEET THE MINIMUM REQUIREMENTS SHOWN.
9. THE TYPE OF SILT FENCE SPECIFIED FOR EACH LOCATION ON THE PLAN SHALL NOT EXCEED THE MAXIMUM SLOPE LENGTH AND MAXIMUM FENCE LENGTH REQUIREMENTS SHOWN IN TABLE A.

1 C–202 SILT FENCE

SCALE: NTS

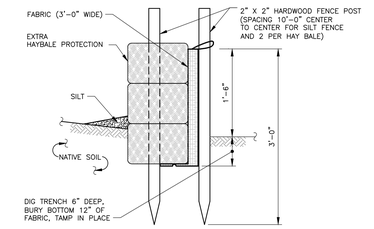


NOTES:

1. STONE SIZE – USE MATRIX 1" TO 4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET.
3. THICKNESS – NOT LESS THAN SIX INCHES.
4. WIDTH – 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24 FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF– WAY. THIS MAY REQUIRED PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS–OF–WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING – WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS–OF–WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTIONS AND NEEDED MAINTENANCE SHALL BE PROVIDED.

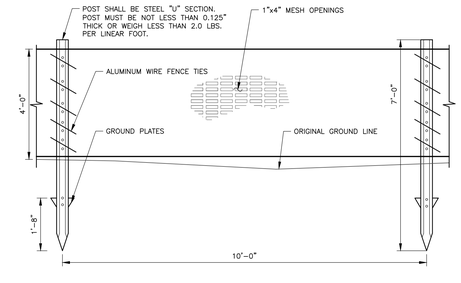
2 C–202 STABILIZED CONSTRUCTION ENTRANCE

SCALE: 3/8" = 1'–0"



3 C–202 SILT FENCE WITH STRAW BALE DIKE

SCALE: 1" = 1'–0"

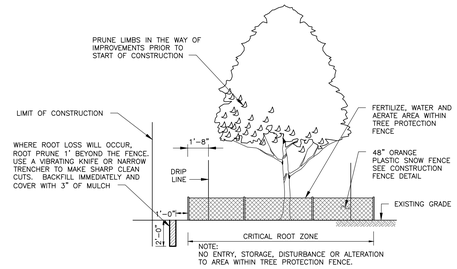


NOTES:

1. FENCING TO BE PLACED LINEARLY ALONG LIMIT OF CLEARING, AND AS SHOWN ON PLAN AND AS REQUIRED BY REFERRING DETAILS.
2. MESH COLOR TO BE BLAZE ORANGE.

4 C–202 CONSTRUCTION FENCE (PLASTIC)

SCALE: NTS



TREE PROTECTION NOTES:

THE TREE PROTECTION AND PRESERVATION GUIDELINES ADOPTED PURSUANT TO THE LAND DEVELOPMENT REGULATIONS OF THE MUNICIPALITY WILL BE IMPLEMENTED IN ORDER TO PROTECT AND PRESERVE BOTH INDIVIDUAL SPECIMEN TREES AND BUFFER AREAS WITH MANY TREES. STEPS THAT WILL BE TAKEN TO RESERVE AND PROTECT EXISTING TREES TO REMAIN ARE AS FOLLOWS:

A. NO CONSTRUCTION EQUIPMENT SHALL BE PARKED UNDER THE TREE CANOPY.

B. THERE WILL BE NO EXCAVATION OR STOCKPILING OF EARTH UNDERNEATH THE TREES.

C. TREES DESIGNATED TO BE PRESERVED SHALL BE MARKED CONSPICUOUSLY ON ALL SIDES AT A 5 TO 10 FOOT HEIGHT.

D. THE TREE PROTECTION ZONE FOR TREES DESIGNATED TO BE PRESERVED WILL BE ESTABLISHED BY ONE OF THE FOLLOWING METHODS:

ONE (1) FOOT RADIUS FROM TRUNK PER INCH DBH

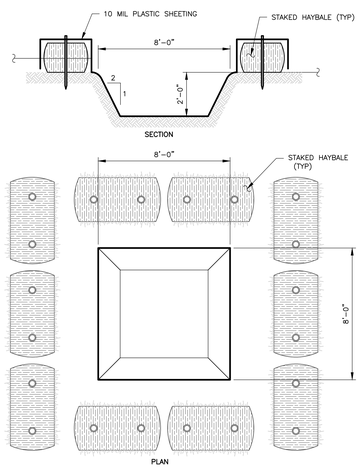
DRIP LINE OF THE TREE CANOPY. THE METHOD CHOSEN SHOULD BE BASED ON PROVIDING THE MAXIMUM PROTECTION ZONE POSSIBLE. A BARRIER OF F. SNOW FENCE OR EQUAL IS TO BE PLACED AND MAINTAINED ONE YARD BEYOND THE ESTABLISHED TREE PROTECTION ZONE. IF IT IS AGREED THAT THE TREE PROTECTION ZONE OF A SELECTED TREE MUST BE VIOLATED, ONE OF THE FOLLOWING METHODS MUST BE EMPLOYED TO MITIGATE THE IMPACT: LIGHT TO HEAVY IMPACTS – MINIMUM OF EIGHT INCHES OF WOOD CHIPS INSTALLED IN THE AREAS TO BE PROTECTED. CHIPS SHALL BE REMOVED UPON COMPLETION OF WORK.

LIGHT IMPACTS ONLY – INSTALLATION OF 3/4 INCH OF PLYWOOD OR BOARDS, OR EQUAL OVER THE AREA TO BE PROTECTED.

E. SEPARATE PAYMENT WILL NOT BE MADE FOR THIS WORK

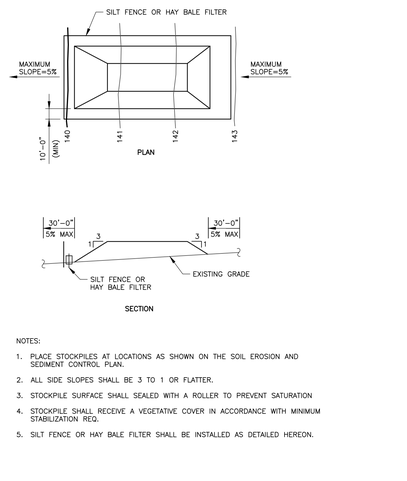
5 C–202 TREE PROTECTION AND PRUNING

SCALE: NTS



6 C–202 TEMPORARY CONCRETE WASH

SCALE: NTS

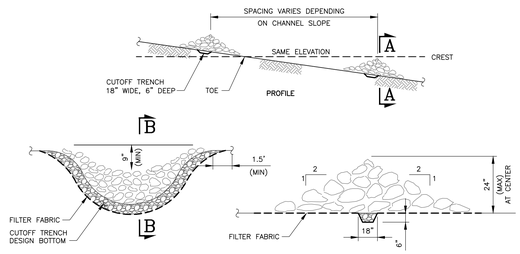


NOTES:

1. PLACE STOCKPILES AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
2. ALL SIDE SLOPES SHALL BE 3 TO 1 OR FLATTER.
3. STOCKPILE SURFACE SHALL SEALED WITH A ROLLER TO PREVENT SATURATION
4. STOCKPILE SHALL RECEIVE A VEGETATIVE COVER IN ACCORDANCE WITH MINIMUM STABILIZATION REQ.
5. SILT FENCE OR HAY BALE FILTER SHALL BE INSTALLED AS DETAILED HEREON.

7 C–202 SOIL STOCKPILE

SCALE: NTS

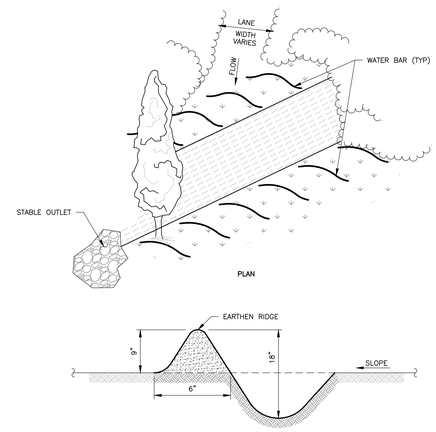


CONSTRUCTION SPECIFICATIONS:

1. STONE SHALL BE MAXIMUM SIZE OF 12" WITH 50 TO 100 PERCENT BY WEIGHT LARGER THAN 6" AND 0 TO 10 PERCENT SMALLER THAN 1/2".
2. FILTER FABRIC SHALL BE POLY–FILTER X CLOTH AS MANUFACTURED BY CARTHAGE MILLS OR APPROVED EQUAL.
3. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION AT LOCATIONS SHOWN ON THE PLAN.
4. SET SPACING OF CHECK DAMS TO ASSURE THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
5. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
6. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
7. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

8 C–202 STONE CHECK DAM

SCALE: NTS

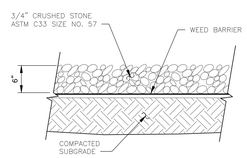


CONSTRUCTION SPECIFICATIONS:

1. INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.
2. DISK OR STRIP THE SOD FROM THE BASE FRO THE CONSTRUCTED RIDGE BEFORE PLACING FILL.
3. TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
4. THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL AREAS ARE NOT ADEQUATE.
5. VEHICLE CROSSING SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE IMMEDIATELY SEEDED AND MULCHED.
6. PERIODICALLY INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.
7. WATER BARS SHALL BE SPACED AT 125 FEET ALONG ACCESS ROAD DUE TO A SLOPE OF LESS THAN 5%.

9 C–202 WATER BARS

SCALE: NTS



10 C–201 GRAVEL SURFACING DETAIL

SCALE: NTS

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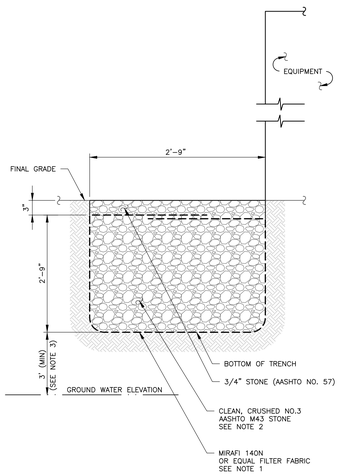


NOTES:

1. FILTER FABRIC SHOULD COMPLETELY ENVELOP GRAVEL TRENCH.
2. DEPTH TO OBSERVED GROUNDWATER TO BE VERIFIED IN FIELD BY PROJECT GEOTECHNICAL ENGINEER.

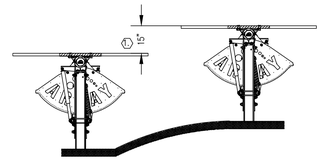
1 / C-203 PERIMETER TRENCH DETAIL

SCALE: NTS

NOTE:

EXTERIOR ROW HEIGHT PARAMETER

① IF HEIGHT DIFFERENCE EXCEEDS THE DISTANCE NOTED, ROW ON HIGHER PLANE IS AN EXTERIOR ROW.

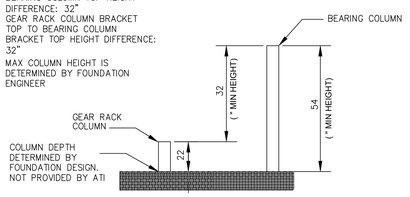


DETAIL A

NOTES:

COLUMN HEIGHT REQUIREMENTS

1. GEAR RACK COLUMN TOP TO BEARING COLUMN TOP HEIGHT DIFFERENCE: 32"
2. GEAR RACK COLUMN BRACKET TOP TO BEARING COLUMN BRACKET TOP HEIGHT DIFFERENCE: 32"
3. MAX COLUMN HEIGHT IS DETERMINED BY FOUNDATION ENGINEER

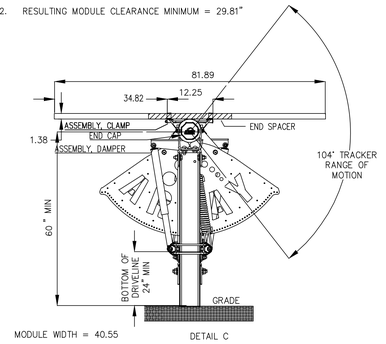


DETAIL B

NOTE:

MINIMUM DISTANCES AND MODULE DATA

1. REFERENCE INDIVIDUAL FIELD ASSEMBLY DRAWINGS FOR DETAILS. INSTALL END CLAMP SPACER ON END CLAMPS. INSTALL END CAP AT END OF TUBE.
2. RESULTING MODULE CLEARANCE MINIMUM = 29.81"



MODULE WIDTH = 40.55

DETAIL C

REV	DESCRIPTION	DATE
A	INITIAL RELEASE	04/09/2021

Manlius
Approx. 15 MWDC
Seneca NY
CVE

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.XX ±0.05 [1.25]
.XXX ±0.015 [0.4]
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X/X ±0.015 [0.4]
ANGULAR:
X ±1.0°
.X ±0.1°

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(505) 881-7567

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Detail Views

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