

Contract Drawings For

SILICON RANCH CORPORATION

Litchfield Solar

Site Civil Design

HDR Project No.
10243351

Litchfield, Connecticut

ISSUED FOR PERMIT

- 9/30/2020 PROGRESS SET (Not for Construction)
- 1/29/2021 REVISION 1 (Not for Construction)
- 6/25/2021 REVISION 2 (Not for Construction)
- 1/28/2022 REVISION 3 (Not for Construction)
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- 6/09/2023 REVISION 11 (Not for Construction)
- 8/16/2023 REVISION 12 (Not for Construction)
- 9/27/2023 REVISION 13 (Not for Construction) (Sheet C002 Only)

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GENERAL DEMOLITION NOTES:

- ALL MATERIAL PRODUCED AS A RESULT OF DEMOLITION TO BE DISPOSED OF OFFSITE IN COMPLIANCE WITH ALL STATE, FEDERAL AND LOCAL ENVIRONMENTAL REGULATIONS.
- CONTRACTOR TO FIELD VERIFY ALL UTILITIES BEFORE START OF DEMOLITION AND PROTECT AS REQUIRED TO COMPLETE DEMOLITION ACTIVITIES.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DEMOLITION OR RELOCATION WITH APPLICABLE UTILITY COMPANIES: GAS, CABLE, POWER, TELEPHONE, WATER, SEWER, ETC.
- CONTRACTOR TO INSTALL ALL PERIMETER EROSION CONTROLS PRIOR TO COMMENCEMENT OF DEMOLITION.
- SAW CUT EXISTING ASPHALT TO CLEAN EDGE.
- DEMOLITION OF FENCING SHALL BE COMPLETED WITH OWNER APPROVAL. TEMPORARY FENCING AND SECURITY FENCING WILL BE REQUIRED. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING TIMING AND REQUIREMENTS OF ALL FENCING ESTABLISHMENT TO ENSURE SITE TEMPORARY WAY FINDING IS UP TO DATE PRIOR TO ACCESS CLOSURES. IF PERIMETER FENCING EXISTS AND IS INTACT, CONTRACTOR TO PRESERVE AS POSSIBLE.
- ALL UTILITIES SHALL BE DEMOLISHED TO NEAREST JOINT WHERE FEASIBLE. CONFIRM PROPER CONNECTIONS WITH ENGINEER IF PIPING MATERIALS ARE TO BE CUT AND JOINED.
- DEMOLITION OR REROUTE OF EXISTING UTILITIES TO REMAIN SHALL ALLOW FOR CONTINUOUS USE OF THE SYSTEM(S). CONTRACTOR SHOULD PRESERVE EXISTING WATER SERVICE (IE. WATER TAP OR WELL), AND INSTALL BURIED HDPE PIPE AND FROST FREE HYDRANT DIRECTLY INSIDE MAIN ENTRY GATE.
- CONTRACTOR, PRIOR TO DEMOLITION, SHALL WALK THE SITE WITH THE OWNER AND SPECIFICALLY NOTE ITEMS THAT SHALL BE REMOVED AND HANDED OVER TO THE OWNER.

SEEDBED PREPARATION NOTES:

- SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN.
- AREAS TO BE SEEDED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL 3" DEEP. TOTAL SEEDBED PREPARED DEPTH SHALL BE 4" TO 6" DEEP. CONTRACTOR SHALL SUBMIT INTENDED SEED MIX INFORMATION TO OWNER AND RECEIVE OWNER APPROVAL PRIOR TO PROCUREMENT.
- LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION AT FINISHED GRADES SHOWN SHALL BE REASONABLY SMOOTH AND UNIFORM.
- SOIL TESTS SHOULD BE TAKEN, AND AMENDMENTS SHOULD BE APPLIED PER SOIL TEST RECOMMENDATIONS.
- LIME AND FERTILIZER SHALL BE APPLIED UNIFORMLY AND MIXED WITH THE SOIL DURING SEEDBED PREPARATION.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS.
- MULCH TO BE TACKED OR MECHANICALLY TIED DOWN WITHIN TWO DAYS AFTER MULCH IS SPREAD.
- ALL SLOPES GREATER THAN 2.5:1 SHALL BE STABILIZED WITH JUTE MESH.

EROSION CONTROL NOTES:

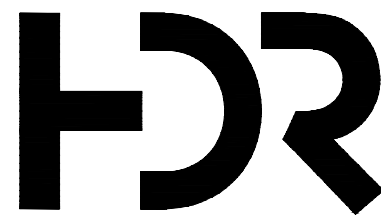
- ALL EROSION CONTROL MEASURES SHALL BE IN STRICT ACCORDANCE WITH CONNECTICUT EROSION AND SEDIMENT CONTROL STANDARDS.
- NO ON-SITE BURIAL PITS ARE ALLOWED.
- ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF CONNECTICUT EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- GRADING MORE THAN HALF ACRE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE STATE.
- STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE SHOWN ON THE PLAN.
- ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED DUE TO FIELD CONDITIONS OR AS DIRECTED BY THE CT DEEP INSPECTOR.
- APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
- THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES.
- ALL MATERIALS REQUIRED FOR CONSTRUCTION OF SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE AVAILABLE ON SITE BEFORE ANY LAND-DISTURBING ACTIVITY IS BEGUN.
- LINEAR TREE PROTECTION SHALL BE ORANGE SAFETY FENCE 3' HIGH. TO PROVIDE ADDITIONAL WORKING ROOM, CONTRACTOR MAY COORDINATE WITH THE INSPECTOR TO UTILIZE COMBINATION SILT FENCE WITH ORANGE STRIP ON TOP.
- IF THE GROUND IS SEMI-FROZEN, PUNCH SEED DISTURBED AREAS (SEED APPLIED INTO THE SOIL), ALLOWING THE SEED TO REMAIN WET AND GERMINATE DURING FAVORABLE WEATHER CONDITIONS.

GENERAL NOTES:

- PROVIDE SILT FENCE AROUND PERIMETER OF ALL STOCKPILES. STABILIZE IMMEDIATELY UPON ESTABLISHMENT OF PILE.
- GRADING CONTRACTOR SHALL CHECK/ IDENTIFY FOR ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING THE CLEARING / GRADING.
- ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED DAILY. ALL TEMPORARY SEDIMENT BASINS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER. THE TEMPORARY SEDIMENT BASINS SHALL BE CLEANED OUT WHEN THE SEDIMENT REACHES 1/2 OF THE SEDIMENT STORAGE CAPACITY. SILT FENCE SHALL BE CLEANED FROM SEDIMENT WHEN THE SEDIMENT LEVEL IS HALF WAY UP THE SILT FENCE FABRIC.
- THE CONSTRUCTION ENTRANCE MAY REQUIRE ADDITIONAL STONE TO PREVENT TRACKING.
- THE GRADING CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING ANY TRACKING OF SEDIMENT ONTO PAVED ROAD AS SOON AS POSSIBLE, BUT BEFORE THE END OF THE WORK DAY.
- ALL DEBRIS STOCK PILES SHALL BE REMOVED AND PROPERLY DISPOSED OF IN A LEGAL LANDFILL (I.E. MULCH AND LOG PILES). CONTRACTOR SHALL COMPLY WITH ALL LOCAL ORDINANCES, SURROUNDING PROPERTIES AND COMMUNICATE WITH LOCAL FIRE DEPARTMENTS FOR THE BURNING OF ANY CLEARING DEBRIS.
- SITE SURVEY DATA IS BASED ON THE FOLLOWING BOUNDARY SURVEYS:
 - WILSON ROAD ALTA PREPARED BY PROVOST & ROVERO, INC. DATED 5/18/2018
 - FOLLERT ALTA PREPARED BY PROVOST & ROVERO, INC. DATED 4/30/18
 - HELD ALTA (ROMANELLA PARCELS) PREPARED BY JAMES ROMANELLA & SONS INC. DATED 7/3/2018
 - LIPPINCOTT ALTA, PREPARED BY PROVOST & ROVERO, INC. DATED 4/30/2018
- CONTROL BASED ON CT STATE PLANE COORDINATES, NAD-83 (2011), US SURVEY FEET.

LITCHFIELD CIVIL QUANTITIES		
ITEM	UNIT	QUANTITY
LIMITS OF DISTURBANCE	ACRES	72.6
PROPERTY AREA	ACRES	281
ROADS	LF	7,792
PERIMETER FENCE	LF	20,294
TREE REMOVAL	ACRES	23.6
CUT VOLUME	CY	73,660
FILL VOLUME	CY	23,108

UTILITY/CIVIL LINE SYMBOLOGY	
	EXISTING WATER
	EXISTING SANITARY SEWER
	EXISTING ELECTRICAL
	EXISTING GAS LINE
	PIPELINE
	LARGE PIPELINE
	UTILITY OVERHEAD LINE
	PROPERTY LINE
	ADJOINING PROPERTY LINE
	EASEMENT
	RIGHT OF WAY
	EXISTING CONTOUR (MINOR)
	PROPOSED CONTOUR (MINOR)
	EXISTING CONTOUR W/ELEVATION (MAJOR)
	PROPOSED CONTOUR (MAJOR)
	EXISTING TREE LINE
	EXISTING FENCE
	PROPOSED SECURITY FENCE
	FLOOD LIMIT (100 YEAR)
	STREAM/CREEK
	100' GULF STREAM BUFFER
	VEGETATIVE BUFFER
	WETLANDS
	LIMITS OF DISTURBANCE
	OUTLET PROTECTION, EMERGENCY SPILLWAY, SKIMMER OUTLET PAD
	SILT FENCE
	GRAVEL TRENCH
	TREE CLEARING
	ALIGNMENT
	25' WETLAND BUFFER
	VERNAL POOL ENVELOPE
	LANDSCAPING
	50' WETLAND SETBACK
	100' WETLAND SETBACK
	DRAINAGE AREA DELINEATION



NOT FOR
CONSTRUCTION

LITCHFIELD
SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

13	REVISION FOR CLARITY	09/26/23
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

CIVIL NOTES AND
ABBREVIATIONS

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 09/27/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: NTS
DRAWING NO.		

C002

ENVIRONMENTAL NOTES - RESOURCES PROTECTION MEASURES

WETLAND, VERNAL POOL, AND RARE SPECIES PROTECTION PROGRAM

THE PROPOSED SOLAR FACILITY IS LOCATED PROXIMATE TO SENSITIVE HABITATS INCLUDING GULF STREAM, A DEEP-DESIGNATED COLD-WATER HABITAT STREAM, WETLAND RESOURCE AREAS, VERNAL POOLS, AND RARE SPECIES. AS A RESULT, THE FOLLOWING PROTECTIVE MEASURES SHALL BE FOLLOWED TO HELP AVOID DEGRADATION OF NEARBY GULF STREAM, WETLANDS, WATERCOURSES, AVOID INCIDENTAL IMPACT TO VERNAL POOL INDICATOR SPECIES, AND RARE SPECIES.

IN ADDITION, WOOD TURTLE (*GLYPTEMYS INSCULPTA*), BOBOLINK (*DOLICHONYX ORYZIVORUS*), SAVANNAH SPARROW (*PASSERCULUS SANDWICHENSIS*), AMERICAN KESTREL (*FALCO SPARVERIUS*), RED BAT (*LASIURUS BOREALIS*), AND HOARY BAT (*LASIURUS CINEREUS*), ALL STATE SPECIAL CONCERN SPECIES AFFORDED PROTECTION UNDER THE CONNECTICUT ENDANGERED SPECIES ACT, ARE KNOWN TO OCCUR ON OR PROXIMITY TO THE PROPOSED FACILITY. THESE RARE SPECIES PROTECTION MEASURES ARE SIMILAR TO PROTECTION MEASURES PREVIOUSLY APPROVED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION ("DEEP") WILDLIFE DIVISION ON OTHER SIMILAR PROJECTS.

IN AREA 1 OF THE SOLAR FACILITY, A 12-FOOT WIDE ACCESS DRIVE WOULD EXTEND FROM HIGHLAND AVENUE THROUGH A FORESTED WETLAND TO THE SOLAR ARRAY. THIS ACCESS ROAD WOULD FOLLOW THE ROUTE OF EXISTING FARM ROAD THROUGH THE WETLAND. APPROXIMATELY 866 SQUARE FEET OF FORESTED WETLAND WOULD BE PERMANENTLY IMPACTED IN THIS AREA. IN THE EASTERN PORTION OF AREA 1, AN EXISTING FARM CROSSING OF A WETLAND WOULD BE UPGRADED TO A 16-FOOT WIDE ACCESS ROAD WITH AN OPEN-BOTTOM ARCH CULVERT CROSSING (CULVERT C-1) THAT WOULD REQUIRE A PERMANENT WETLAND IMPACT OF APPROXIMATELY 587 SQUARE FEET. IN THE EASTERN PORTION OF AREA 3, AN ACCESS ROAD AND AN ASSOCIATED CULVERT WOULD BE INSTALLED AT THE HEAD OF AN INTERMITTENT STREAM THAT DRAINS TO GULF STREAM.

IN ORDER TO CONNECT THE AREA 1 ARRAY TO THE SWITCHGEAR LOCATION IN AREA 3 OF THE SOLAR FACILITY, AN OVERHEAD UTILITY LINE WOULD BE INSTALLED TO CROSS THE GULF STREAM RIPARIAN CORRIDOR. THE CROSSING LOCATION WOULD UTILIZE THE ROUTE OF EXISTING FARM ROAD THROUGH THE RIPARIAN CORRIDOR TO MINIMIZE THE CLEARING OF VEGETATION. TWO OTHER OVERHEAD WETLAND UTILITY CROSSINGS WOULD BE DEVELOPED; ONE EXTENDING FROM AREA 1 TO AREA 2 AND ONE OVER A TRIBUTARY TO GULF STREAM ADJACENT TO ROSSI ROAD. TO FACILITATE THESE CROSSINGS THE PETITIONER WOULD USE BUCKET TRUCKS, SKID STEERS, LINE TRUCKS, REEL TRUCKS AND HAND TOOLS. CONSTRUCTION WOULD BE CONDUCTED IN ACCORDANCE WITH US ARMY CORPS OF ENGINEERS BEST MANAGEMENT PRACTICES.

IT IS OF THE UTMOST IMPORTANCE THAT THE CONTRACTOR COMPLIES WITH THE REQUIREMENT FOR IMPLEMENTATION OF THESE PROTECTIVE MEASURES AND THE EDUCATION OF ITS EMPLOYEES AND SUBCONTRACTORS PERFORMING WORK ON THE PROJECT SITE. THE WETLAND PROTECTION MEASURES SHALL BE IMPLEMENTED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES UNTIL PERMANENT STABILIZATION OF SITE SOILS HAS OCCURRED. VERNAL POOL PROTECTION MEASURES SHOULD BE IMPLEMENTED DURING PEAK AMPHIBIAN MOVEMENT PERIODS (EARLY SPRING BREEDING [MARCH 1ST TO MAY 15TH] AND LATE SUMMER DISPERSAL [JULY 15TH TO SEPTEMBER 15TH]) IF CONSTRUCTION CANNOT BE AVOIDED DURING THESE PERIODS.

DETAILS OF IMPLEMENTATION MEASURES TO PROTECT THESE VARIOUS SENSITIVE RESOURCES DURING CONSTRUCTION AND MAINTENANCE OF THE SOLAR FACILITY ARE PROVIDED BELOW. THE RARE SPECIES PROTECTION MEASURES WITHIN THIS PLAN SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE PLAN DETAILS BELOW FOR INDIVIDUAL SPECIES.

ALL-POINTS TECHNOLOGY CORPORATION, P.C., ("APT") WILL SERVE AS THE ENVIRONMENTAL MONITOR FOR THIS PROJECT TO ENSURE THAT THESE PROTECTION MEASURES ARE IMPLEMENTED PROPERLY. APT WILL PROVIDE AN EDUCATION SESSION FOR THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION ACTIVITIES ON NEARBY SENSITIVE WETLAND RESOURCES/VERNAL POOLS RESOURCES AND RARE SPECIES THAT MAY BE ENCOUNTERED. THE CONTRACTOR SHALL CONTACT DEAN GUSTAFSON, SENIOR BIOLOGIST AT APT, AT LEAST 5 BUSINESS DAYS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES TO SCHEDULE A PRE-CONSTRUCTION MEETING. MR. GUSTAFSON CAN BE REACHED BY PHONE AT (860) 552-2033 OR VIA EMAIL AT DGUSTAFSON@ALLPOINTSTECH.COM.

THIS PROTECTION PROGRAM CONSISTS OF SEVERAL COMPONENTS: EDUCATION OF ALL CONTRACTORS AND SUB-CONTRACTORS PRIOR TO INITIATION OF WORK ON THE SITE; PROTECTIVE MEASURES; PERIODIC INSPECTION OF THE CONSTRUCTION PROJECT; AND, REPORTING.

1. CONTRACTOR EDUCATION

- a. PRIOR TO WORK ON SITE AND INITIAL DEPLOYMENT/MOBILIZATION OF EQUIPMENT AND MATERIALS, THE CONTRACTOR SHALL ATTEND AN EDUCATIONAL SESSION AT THE PRE-CONSTRUCTION MEETING WITH APT. THIS ORIENTATION AND EDUCATIONAL SESSION WILL CONSIST OF AN INTRODUCTORY MEETING WITH APT TO EMPHASIZE THE ENVIRONMENTALLY SENSITIVE NATURE OF THE PROJECT, GULF STREAM AND THE VARIOUS WETLAND, VERNAL POOL AND RARE SPECIES RESOURCES, AND THE REQUIREMENT TO DILIGENTLY FOLLOW THE PROTECTIVE MEASURES AS DESCRIBED IN SECTIONS BELOW. WORKERS WILL ALSO BE PROVIDED INFORMATION REGARDING THE IDENTIFICATION OF OTHER TURTLES, SNAKES, COMMON HERPETOFAUNA (E.G., AMPHIBIANS AND REPTILES), AND RARE GRASSLAND BIRD SPECIES THAT COULD BE ENCOUNTERED. THE MEETING WILL FURTHER EMPHASIZE THE NON-AGGRESSIVE NATURE OF THESE SPECIES, THE ABSENCE OF NEED TO DESTROY SUCH ANIMALS AND THE NEED TO FOLLOW PROTECTIVE MEASURES AS DESCRIBED IN FOLLOWING SECTIONS.
- b. THE EDUCATION SESSION WILL ALSO FOCUS ON MEANS TO DISCRIMINATE BETWEEN THE SPECIES OF CONCERN AND OTHER NATIVE SPECIES TO AVOID UNNECESSARY "FALSE ALARMS". ENCOUNTERS WITH ANY SPECIES OF TURTLES, SNAKES AND AMPHIBIANS WILL BE DOCUMENTED.
- c. THE CONTRACTOR WILL DESIGNATE A MEMBER OF ITS CREW AS THE PROJECT MONITOR TO BE RESPONSIBLE FOR THE PERIODIC "SWEEPS" FOR HERPETOFAUNA WITHIN THE CONSTRUCTION ZONE EACH MORNING AND FOR ANY GROUND DISTURBANCE WORK. THIS INDIVIDUAL WILL RECEIVE MORE INTENSE TRAINING FROM APT ON THE IDENTIFICATION AND PROTECTION OF HERPETOFAUNA IN ORDER TO PERFORM SWEEPS. ANY HERPETOFAUNA DISCOVERED WOULD BE TRANSLOCATED OUTSIDE THE WORK ZONE IN THE GENERAL DIRECTION THE ANIMAL WAS ORIENTED.
- d. THE CONTRACTOR WILL BE PROVIDED WITH CELL PHONE AND EMAIL CONTACTS FOR APT PERSONNEL TO IMMEDIATELY REPORT ANY ENCOUNTERS WITH ANY RARE SPECIES. EDUCATIONAL POSTER MATERIALS WILL BE PROVIDED BY APT AND DISPLAYED ON THE JOB SITE TO MAINTAIN WORKER AWARENESS AS THE PROJECT PROGRESSES.
- e. APT WILL ALSO POST CAUTION SIGNS THROUGHOUT THE PROJECT SITE FOR THE DURATION OF THE CONSTRUCTION PROJECT PROVIDING NOTICE OF THE ENVIRONMENTALLY SENSITIVE NATURE OF THE WORK AREA, THE POTENTIAL FOR ENCOUNTERING VARIOUS AMPHIBIANS AND REPTILES AND PRECAUTIONS TO BE TAKEN TO AVOID INJURY TO OR MORTALITY OF THESE ANIMALS.
- f. IF ANY RARE SPECIES ARE ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY CEASE ALL WORK, AVOID ANY DISTURBANCE TO THE SPECIES, AND CONTACT APT.

2. ISOLATION MEASURES & SEDIMENTATION AND EROSION CONTROLS

- a. PLASTIC NETTING USED IN A VARIETY OF EROSION CONTROL PRODUCTS (I.E., EROSION CONTROL BLANKETS, FIBER ROLLS [WATTLES], REINFORCED SILT FENCE) HAS BEEN FOUND TO ENTANGLE WILDLIFE, INCLUDING REPTILES, AMPHIBIANS, BIRDS, AND SMALL MAMMALS, BUT PARTICULARLY SNAKES. NO PERMANENT EROSION CONTROL PRODUCTS OR REINFORCED SILT FENCE WILL BE USED ON THE PROJECT. TEMPORARY EROSION CONTROL PRODUCTS WILL USE EITHER EROSION CONTROL BLANKETS AND FIBER ROLLS COMPOSED OF PROCESSED FIBERS MECHANICALLY BOUND TOGETHER TO FORM A CONTINUOUS MATRIX (NETLESS) OR NETTING COMPOSED OF PLANAR WOVEN NATURAL BIODEGRADABLE FIBER TO AVOID/MINIMIZE WILDLIFE ENTANGLEMENT.
- b. INSTALLATION OF SEDIMENTATION AND EROSION CONTROLS, REQUIRED FOR EROSION CONTROL COMPLIANCE AND CREATION OF A BARRIER TO POSSIBLE MIGRATING/DISPERSING TURTLES, SHALL BE PERFORMED BY THE CONTRACTOR FOLLOWING CLEARING ACTIVITIES AND PRIOR TO ANY EARTHWORK. THE ENVIRONMENTAL MONITOR WILL INSPECT THE WORK ZONE AREA PRIOR TO AND FOLLOWING EROSION CONTROL BARRIER INSTALLATION TO ENSURE THE AREA IS FREE OF WOOD TURTLE (ALONG WITH OTHER AMPHIBIANS AND REPTILES THAT MAY BE ENCOUNTERED) AND DOCUMENT BARRIERS HAVE BEEN SATISFACTORILY INSTALLED. THE

INTENT OF THE BARRIER IS TO SEGREGATE THE MAJORITY OF THE WORK ZONE AND ISOLATE IT FROM NESTING/FORAGING/MIGRATING/DISPERSING TURTLES, SNAKES AND OTHER HERPETOFAUNA. OFTENTIMES COMPLETE ISOLATION OF A WORK ZONE IS NOT FEASIBLE DUE TO ACCESSIBILITY NEEDS AND LOCATIONS OF STAGING/MATERIAL STORAGE AREAS, ETC. ALTHOUGH THE BARRIERS MAY NOT COMPLETELY ISOLATE THE WORK ZONE, THEY WILL BE POSITIONED TO DEFLECT MIGRATING/DISPERSAL ROUTES AWAY FROM THE WORK ZONE TO MINIMIZE POTENTIAL ENCOUNTERS WITH TURTLES, SNAKES AND OTHER HERPETOFAUNA.

- c. EXCLUSIONARY FENCING SHALL BE AT LEAST 20 INCHES TALL AND MUST BE SECURED TO AND REMAIN IN CONTACT WITH THE GROUND AND BE REGULARLY MAINTAINED BY THE CONTRACTOR (AT LEAST BI-WEEKLY AND AFTER MAJOR WEATHER EVENTS) TO SECURE ANY GAPS OR OPENINGS AT GROUND LEVEL THAT MAY LET ANIMAL PASS THROUGH.
- d. THE CONTRACTOR IS RESPONSIBLE FOR DAILY INSPECTIONS OF THE SEDIMENTATION AND EROSION CONTROLS FOR TEARS OR BREECES AND ACCUMULATION LEVELS OF SEDIMENT, PARTICULARLY FOLLOWING STORM EVENTS THAT GENERATE A DISCHARGE. AS DEFINED BY AND IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS, THE CONTRACTOR SHALL NOTIFY THE ENVIRONMENTAL MONITOR WITHIN 24 HOURS OF ANY BREECES OF THE SEDIMENTATION AND EROSION CONTROLS AND ANY SEDIMENT RELEASES BEYOND THE PERIMETER CONTROLS THAT IMPACT WETLANDS, WATERCOURSES OR WITHIN 100 FEET OF WETLANDS AND WATERCOURSES. THE ENVIRONMENTAL MONITOR WILL PROVIDE PERIODIC INSPECTIONS OF THE SEDIMENTATION AND EROSION CONTROLS THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES ONLY AS IT PERTAINS TO THEIR FUNCTION AS ISOLATION MEASURES FOR THE PROTECTION OF RARE SPECIES. SUCH INSPECTIONS WILL GENERALLY OCCUR ONCE PER MONTH. THE FREQUENCY OF MONITORING MAY INCREASE DEPENDING UPON SITE CONDITIONS, LEVEL OF CONSTRUCTION ACTIVITIES IN PROXIMITY TO SENSITIVE RECEPTORS, OR AT THE REQUEST OF SILICON RANCH OR REGULATORY AGENCIES. IF THE COMPLIANCE MONITOR IS NOTIFIED BY THE CONTRACTOR OF A SEDIMENT RELEASE, AN INSPECTION WILL BE SCHEDULED SPECIFICALLY TO INVESTIGATE AND EVALUATE POSSIBLE IMPACTS TO WETLAND AND/OR WATERCOURSE RESOURCES.
- e. THIRD PARTY MONITORING OF SEDIMENTATION AND EROSION CONTROLS WILL BE PERFORMED BY OTHER PARTIES, AS NECESSARY, UNDER APPLICABLE LOCAL, STATE AND/OR FEDERAL REGULATIONS AND PERMIT CONDITIONS.
- f. THE EXTENT OF THE SEDIMENTATION AND EROSION CONTROLS WILL BE AS SHOWN ON THE SITE PLANS. THE CONTRACTOR SHALL HAVE ADDITIONAL SEDIMENTATION AND EROSION CONTROLS STOCKPILED ON SITE SHOULD FIELD OR CONSTRUCTION CONDITIONS WARRANT EXTENDING THE CONTROLS AS DIRECTED BY APT OR OTHER REGULATORY AGENCIES.
- g. NO EQUIPMENT, VEHICLES OR CONSTRUCTION MATERIALS SHALL BE STORED OUTSIDE OF THE SEDIMENTATION AND EROSION CONTROLS WITHIN 100 FEET OF WETLANDS OR WATERCOURSES.
- h. CONSTRUCTION EQUIPMENT WASHOUT AREAS SHALL BE ESTABLISHED A MINIMUM OF 50 FEET FROM WETLANDS OR WATERCOURSES. THE WASHOUT STATIONS SHALL BE SELF-CONTAINED AND NO SURFACE DISCHARGE OF WASHOUT WASTEWATERS SHALL OCCUR.
- i. ALL SEDIMENTATION AND EROSION CONTROLS SHALL BE REMOVED WITHIN 30 DAYS OF COMPLETION OF WORK AND PERMANENT STABILIZATION OF SITE SOILS SO THAT REPTILE AND AMPHIBIAN MOVEMENT BETWEEN UPLANDS AND WETLANDS IS NOT RESTRICTED. IF FIBER ROLLS/WATTLES, STRAW BALES, OR OTHER NATURAL MATERIAL EROSION CONTROL PRODUCTS ARE USED, SUCH DEVICES WILL NOT BE LEFT IN PLACE TO BIODEGRADE AND SHALL BE PROMPTLY REMOVED AFTER SOILS ARE STABLE SO AS NOT TO CREATE A BARRIER TO WILDLIFE MOVEMENT. SEED FROM SEEDING OF SOILS SHOULD NOT SPREAD OVER FIBER ROLLS/WATTLES AS IT MAKES THEM HARDER TO REMOVE ONCE SOILS ARE STABILIZED BY VEGETATION.

3. PETROLEUM MATERIALS STORAGE AND SPILL PREVENTION

- a. CERTAIN PRECAUTIONS ARE NECESSARY TO STORE PETROLEUM MATERIALS, REFUEL AND CONTAIN AND PROPERLY CLEAN UP ANY INADVERTENT FUEL OR PETROLEUM (I.E., OIL, HYDRAULIC FLUID, ETC.) SPILL TO AVOID POSSIBLE IMPACT TO NEARBY RESOURCES.
- b. SILICON RANCH CORPORATION HAS DEVELOPED AND WILL ADHERE TO A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN FOR THIS PROJECT AS PER THE REQUIREMENTS OF 40 CFR 112. PLEASE REFER TO THE SPCC FOR SPECIFIC REQUIREMENTS. BASIC REQUIREMENTS FOR PETROLEUM MATERIALS STORAGE AND SPILL PREVENTION ARE PROVIDED BELOW. IN THE EVENT THESE BASIC REQUIREMENTS CONTRADICT THE SPCC, THE CONTRACTOR SHALL RELY ON REQUIREMENTS PROVIDED IN THE SPCC.
- c. A SPILL CONTAINMENT KIT CONSISTING OF A SUFFICIENT SUPPLY OF ABSORBENT PADS AND ABSORBENT MATERIAL WILL BE MAINTAINED BY THE CONTRACTOR AT THE CONSTRUCTION SITE THROUGHOUT THE DURATION OF THE PROJECT. IN ADDITION, A WASTE DRUM WILL BE KEPT ON SITE TO CONTAIN ANY USED ABSORBENT PADS/MATERIAL FOR PROPER AND TIMELY DISPOSAL OFF SITE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
- d. THE FOLLOWING PETROLEUM AND HAZARDOUS MATERIALS STORAGE AND REFUELING RESTRICTIONS AND SPILL RESPONSE PROCEDURES WILL BE ADHERED TO BY THE CONTRACTOR.
- i. PETROLEUM AND HAZARDOUS MATERIALS STORAGE AND REFUELING
 - 1. REFUELING OF VEHICLES OR MACHINERY SHALL OCCUR A MINIMUM OF 100 FEET FROM WETLANDS OR WATERCOURSES AND SHALL TAKE PLACE ON AN IMPERVIOUS PAD WITH SECONDARY CONTAINMENT DESIGNED TO CONTAIN FUELS.
 - 2. ANY FUEL OR HAZARDOUS MATERIALS THAT MUST BE KEPT ON SITE SHALL BE STORED ON AN IMPERVIOUS SURFACE UTILIZING SECONDARY CONTAINMENT A MINIMUM OF 100 FEET FROM WETLANDS OR WATERCOURSES.
 - 3. THE CONTRACTOR SHALL INSPECT ALL EQUIPMENT AT THE BEGINNING AND END OF EACH DAY FOR ANY FUEL OR HYDRAULIC LEAKS AND IF DISCOVERED SHALL TAKE IMMEDIATE STEPS TO MAKE REPAIRS AND CLEAN UP ANY DISCHARGES AS DETAILED IN THE FOLLOWING SECTIONS.
 - 6. ENSURE THAT FELLOW WORKERS ARE NOTIFIED OF THE SPILL.

ii. INITIAL SPILL RESPONSE PROCEDURES

- 1. STOP OPERATIONS AND SHUT OFF EQUIPMENT.
- 2. REMOVE ANY SOURCES OF SPARK OR FLAME.
- 3. CONTAIN THE SOURCE OF THE SPILL.
- 4. DETERMINE THE APPROXIMATE VOLUME OF THE SPILL.
- 5. IDENTIFY THE LOCATION OF NATURAL FLOW PATHS TO PREVENT THE RELEASE OF THE SPILL TO SENSITIVE NEARBY WATERWAYS OR WETLANDS.
- 6. ENSURE THAT FELLOW WORKERS ARE NOTIFIED OF THE SPILL.

iii. SPILL CLEAN UP & CONTAINMENT

- 1. OBTAIN SPILL RESPONSE MATERIALS FROM THE ON-SITE SPILL RESPONSE KIT. PLACE ABSORBENT MATERIALS DIRECTLY ON THE RELEASE AREA.
- 2. LIMIT THE SPREAD OF THE SPILL BY PLACING ABSORBENT MATERIALS AROUND THE PERIMETER OF THE SPILL.
- 3. ISOLATE AND ELIMINATE THE SPILL SOURCE.
- 4. CONTACT THE APPROPRIATE LOCAL, STATE AND/OR FEDERAL AGENCIES, AS NECESSARY.
- 5. CONTACT A DISPOSAL COMPANY TO PROPERLY DISPOSE OF CONTAMINATED MATERIALS IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

iv. REPORTING

- 1. COMPLETE AN INCIDENT REPORT.
- 2. SUBMIT A COMPLETED INCIDENT REPORT TO THE CONNECTICUT SITING COUNCIL, AND OTHER APPLICABLE LOCAL, STATE, AND FEDERAL OFFICIALS.
- 4. **WETLAND CROSSINGS, CULVERT C-1 INSTALLATION & RESTORATION**
 - a. THE CONTRACTOR SHALL CONTACT APT A MINIMUM OF 5 BUSINESS DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE WETLAND CROSSINGS (BOTH ACCESS AND OVERHEAD UTILITY CROSSINGS) IN ORDER TO MONITOR CONSTRUCTION ACTIVITIES IN AND ADJACENT TO WETLANDS AND WATERCOURSES AND IN PARTICULAR THE PROJECT'S TWO DIRECT WETLAND IMPACT AREAS (E.G., IMPROVING THE EXISTING

ACCESS OFF HIGHLAND AVENUE AND INSTALLATION OF CULVERT C-1).

- b. INSTALLATION OF THE OPEN-BOTTOM ARCH CULVERT (CULVERT C-1) SHALL CONFORM TO THE PROJECT SITE PLANS AND ASSOCIATED DETAILS ALLOWING FOR SLIGHT FIELD ADJUSTMENTS BASED ON EXISTING ELEVATIONS WITHIN THE WETLAND SYSTEM TO ENSURE THAT THE CROSSING AND CULVERT WILL NOT IMPEDED OR ADVERSELY IMPACT CONVEYANCE OF EXISTING SURFACE FLOWS THROUGH THE WETLAND SYSTEM.
- c. CULVERT C-1 SHALL MATCH EXISTING WETLAND GRADIENT (SLOPE) AND CHANNEL PROFILES.
- d. THE EXISTING WETLAND SUBSTRATE AT CULVERT C-1 SHALL BE PRESERVED AND RESTORED AS NECESSARY WITH THIS OPEN-BOTTOM CULVERT INSTALLATION.
- e. ANY EXPOSED/DISTURBED WETLAND SOILS RESULTING FROM ANY OF THE WETLAND CROSSING ACTIVITIES SHALL BE SEEDDED WITH A NEW ENGLAND WET SEED MIX (NEW ENGLAND WETLAND PLANTS, INC., OR APPROVED EQUIVALENT) AT THE MANUFACTURERS RECOMMENDED SEED RATE. SIDE SLOPES AT THE WETLAND CROSSING SHALL BE SEEDDED WITH A NEW ENGLAND CONSERVATION/WILDLIFE SEED MIX (NEW ENGLAND WETLAND PLANTS, INC., OR APPROVED EQUIVALENT) AT THE MANUFACTURERS RECOMMENDED SEED RATE. MULCH SEEDDED AREAS WITH NON-WOVEN NATURAL FIBER EROSION CONTROL BLANKET OR 2 TO 3 INCHES OF CLEAN STRAW MULCH, AS APPROPRIATE.

5. GULF STREAM UTILITY CROSSING

- a. THE CONTRACTOR SHALL CONTACT APT A MINIMUM OF 5 BUSINESS DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE OVERHEAD UTILITY CROSSING OF GULF STREAM.
- b. MATS SHALL BE USED DURING THE INSTALLATION OF THE UTILITY INTERCONNECTION LINE WITHIN 100 FEET OF GULF STREAM TO MINIMIZE SOIL DISTURBANCE/COMPACTION. THESE DEVICES SHALL BE KEPT FREE OF TRACKED SEDIMENTS.
- c. NO CROSSING OF GULF STREAM WITH EQUIPMENT OR MATS IS ALLOWED FOR THE UTILITY INTERCONNECTION LINE WORK.
- d. TREES CLEARED TO FACILITATE THE INSTALLATION OF THE UTILITY INTERCONNECTION SHALL HAVE THE STUMPS LEFT IN PLACE (NO GRUBBING OR STUMP REMOVAL SHALL OCCUR) TO MINIMIZE SOIL DISTURBANCE AND ALLOW FOR NATURAL REVEGETATION POST REMOVAL OF THE MATTING.
- e. TREE CLEARING EQUIPMENT SHALL BE SUPPORTED BY MATTING TO AVOID SOIL DISTURBANCE AND COMPACTION. EROSION CONTROL MATERIALS SHALL BE AVAILABLE FOR USE AS NEEDED TO AVOID RUNOFF OR SEDIMENT IMPACTS TO GULF STREAM.
- f. TREES IN PROXIMITY TO THE BANKS OF GULF STREAM WILL BE GRAPPLED WITH THE FELLER BUNCHER DURING CUTTING TO PREVENT TREES FROM FALLING INTO THE STREAM AND DISTURBING THE STREAM BANK. CUTTING OF THE SHRUB UNDERSTORY WILL BE LIMITED TO WHAT IS NECESSARY TO MAINTAIN REQUIRED WIRE CLEARANCES.
- g. ANY SOIL EXCAVATED FROM THE UTILITY POLE INSTALLATIONS WITHIN 100 FEET OF GULF STREAM SHALL BE PLACED ON THE MATTING AND REMOVED AND SPREAD/STABILIZED WITHIN UPLAND AREAS AT LEAST 100 FEET FROM GULF STREAM OR REMOVED OFF SITE.
- h. MATTING USED TO ACCESS THE UTILITY INTERCONNECTION WORK SHALL BE REMOVED IMMEDIATELY AFTER COMPLETION OF ALL WORK.
- i. ANY EXPOSED/DISTURBED WETLAND SOILS RESULTING FROM ANY OF THE UTILITY CROSSING ACTIVITIES SHALL BE SEEDDED WITH A NEW ENGLAND WET SEED MIX (NEW ENGLAND WETLAND PLANTS, INC., OR APPROVED EQUIVALENT) AT THE MANUFACTURERS RECOMMENDED SEED RATE. ANY EXPOSED/DISTURBED UPLAND SOILS RESULTING FROM ANY OF THE UTILITY CROSSING ACTIVITIES SHALL BE SEEDDED WITH A NEW ENGLAND CONSERVATION/WILDLIFE SEED MIX (NEW ENGLAND WETLAND PLANTS, INC., OR APPROVED EQUIVALENT) AT THE MANUFACTURERS RECOMMENDED SEED RATE. MULCH SEEDDED AREAS WITH NON-WOVEN NATURAL FIBER EROSION CONTROL BLANKET OR 2 TO 3 INCHES OF CLEAN STRAW MULCH, AS APPROPRIATE.

6. VERNAL POOL PROTECTION MEASURES

- a. A THOROUGH COVER SEARCH OF THE CONSTRUCTION AREAS WILL BE PERFORMED BY APT'S ENVIRONMENTAL MONITOR FOR HERPETOFAUNA (AMPHIBIANS AND REPTILES) PRIOR TO AND FOLLOWING INSTALLATION OF THE SILT FENCING BARRIER TO REMOVE ANY SPECIES FROM THE WORK ZONE PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES. ANY HERPETOFAUNA DISCOVERED WOULD BE CAREFULLY TRANSLOCATED OUTSIDE THE WORK ZONE IN THE GENERAL DIRECTION THE ANIMAL WAS ORIENTED. PERIODIC INSPECTIONS WILL BE PERFORMED BY APT'S ENVIRONMENTAL MONITOR THROUGHOUT THE DURATION OF THE CONSTRUCTION.
- b. ANY STORMWATER MANAGEMENT FEATURES, RUTS OR ARTIFICIAL DEPRESSIONS THAT COULD HOLD WATER CREATED INTENTIONALLY OR UNINTENTIONALLY BY SITE CLEARING/CONSTRUCTION ACTIVITIES WILL BE PROPERLY FILLED IN AND PERMANENTLY STABILIZED WITH VEGETATION TO AVOID THE CREATION OF VERNAL POOL "DECOY POOLS" THAT COULD INTERCEPT AMPHIBIANS MOVING TOWARD THE VERNAL POOLS. STORMWATER MANAGEMENT FEATURES SUCH AS LEVEL SPREADERS WILL BE CAREFULLY REVIEWED IN THE FIELD TO ENSURE THAT STANDING WATER DOES NOT ENDURE FOR MORE THAN A 24-HOUR PERIOD TO AVOID CREATION OF DECOY POOLS AND MAY BE SUBJECT TO FIELD DESIGN CHANGES. ANY SUCH PROPOSED DESIGN CHANGES WILL BE REVIEWED BY THE DESIGN ENGINEER TO ENSURE STORMWATER MANAGEMENT FUNCTIONS ARE MAINTAINED.
- c. EROSION CONTROL MEASURES WILL BE REMOVED NO LATER THAN 30 DAYS FOLLOWING FINAL SITE STABILIZATION SO AS NOT TO IMPEDE MIGRATION OF HERPETOFAUNA OR OTHER WILDLIFE.

7. HERBICIDE, PESTICIDE AND SALT RESTRICTIONS

- a. THE USE OF HERBICIDES AND PESTICIDES AT THE FACILITY SHALL BE RESTRICTED. IN THE EVENT HERBICIDES AND/OR PESTICIDES ARE REQUIRED AT THE FACILITY, THEIR USE WILL BE USED IN ACCORDANCE WITH INTEGRATED PEST MANAGEMENT ("IPM") PRINCIPLES WITH PARTICULAR ATTENTION TO MINIMIZE APPLICATIONS WITHIN 100 FEET OF WETLAND OR WATERCOURSE RESOURCES. NO APPLICATIONS OF HERBICIDES OR PESTICIDES ARE ALLOWED WITHIN ACTUAL WETLAND OR WATERCOURSE RESOURCES.
- b. MAINTENANCE OF THE FACILITY DURING THE WINTER MONTHS SHALL NOT INCLUDE THE APPLICATION OF SALT OR SIMILAR PRODUCTS FOR MELTING SNOW OR ICE.
- 8. **TURTLE PROTECTION MEASURES - CONSTRUCTION PHASE**
 - a. PRIOR TO CONSTRUCTION AND FOLLOWING INSTALLATION OF ISOLATION BARRIERS, THE CONSTRUCTION AREA WILL BE SWEEP BY APT AND ANY TURTLES OCCURRING WITHIN THE WORK AREA WILL BE RELOCATED TO SUITABLE HABITAT OUTSIDE OF THE ISOLATION BARRIERS.
 - b. PRIOR TO THE START OF CONSTRUCTION EACH DAY, THE CONTRACTOR SHALL SEARCH THE ENTIRE WORK AREA FOR TURTLES.
 - c. IF A TURTLE IS FOUND DURING THE ACTIVE PERIOD, IT SHALL BE IMMEDIATELY MOVED, UNHARMED, BY BEING CAREFULLY GRASPED IN BOTH HANDS, ONE ON EACH SIDE OF THE SHELL, BETWEEN THE TURTLE'S FORELIMBS AND THE HIND LIMBS, AND PLACED JUST OUTSIDE OF THE ISOLATION BARRIER IN THE SAME APPROXIMATE DIRECTION IT WAS HEADING. THESE ANIMALS ARE PROTECTED BY LAW AND NO TURTLES SHOULD BE RELOCATED FROM THE PROPERTY.
 - d. SPECIAL CARE SHALL BE TAKEN BY THE CONTRACTOR DURING EARLY MORNING AND EVENING HOURS SO THAT POSSIBLE BASKING OR FORAGING TURTLES ARE NOT HARMED BY CONSTRUCTION ACTIVITIES.
 - e. THE CONTRACTOR SHALL BE PARTICULARLY DILIGENT DURING THE MONTHS OF MAY AND JUNE WHEN TURTLES ARE ACTIVELY SELECTING NESTING SITES WHICH RESULTS IN AN INCREASE IN TURTLE MOVEMENT ACTIVITY.
 - f. NO HEAVY MACHINERY OR VEHICLES MAY BE PARKED IN ANY TURTLE HABITAT.
 - g. AVOID AND LIMIT ANY EQUIPMENT USE WITHIN 100 FEET OF WETLANDS AND NO HEAVY MACHINERY OR VEHICLES MAY BE PARKED IN ANY TURTLE HABITAT OR WITHIN 100 FEET OF WETLANDS.
 - h. SPECIAL PRECAUTIONS MUST BE TAKEN TO AVOID DEGRADATION OF WETLAND HABITATS, PARTICULARLY ALONG GULF STREAM AND OTHER PERENNIAL STREAM RIPARIAN CORRIDORS.

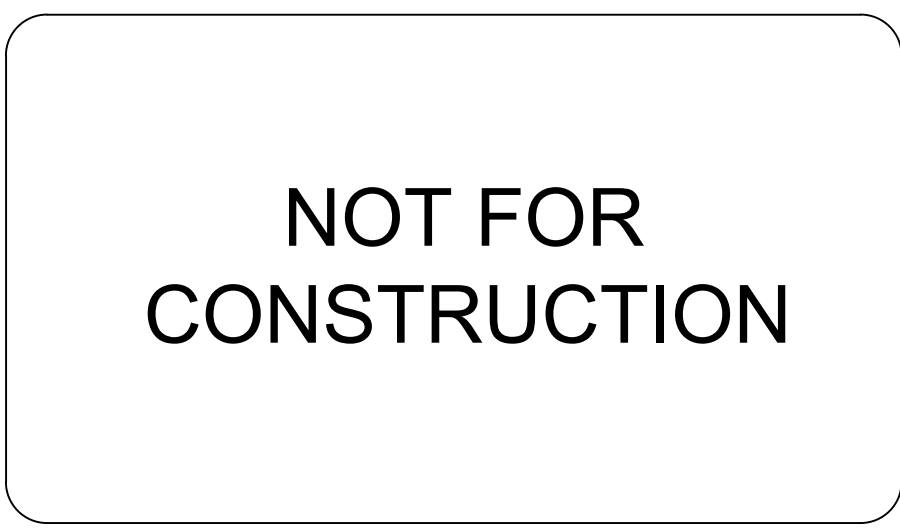
- 9. **TURTLE PROTECTION MEASURES - FACILITY MAINTENANCE (MOWING RECOMMENDATIONS)**
 - a. PERFORM MOWING DURING THE TURTLE DORMANT PERIOD - NOVEMBER 1ST THROUGH

MARCH 31ST WHEN POSSIBLE.

- b. IF MOWING IS REQUIRED OUTSIDE OF THE TURTLE DORMANT PERIOD, AVOID MOWING DURING MAY 15TH THROUGH AUGUST 30TH WHEN TURTLES MAY BE LOCATED WITHIN THE FACILITY (AND AWAY FROM FORESTED HABITAT), IF POSSIBLE, UNDERSTANDING THAT SOME VEGETATION MAINTENANCE IS NECESSARY FOR OPERATIONAL AND ELECTRICAL SAFETY PURPOSES.
- c. VEGETATION MAINTENANCE WITHIN THE FENCED SOLAR FACILITY MAY BE ACCOMPLISHED THROUGH SHEEP GRAZING. SHOULD THAT TECHNIQUE BE USED, MOWING RESTRICTIONS WOULD NOT APPLY; MOWING RECOMMENDATIONS OUTSIDE OF THE FENCED FACILITY WOULD STILL APPLY.
- d. IF MOWING IS REQUIRED DURING THE TURTLE ACTIVE SEASON (APRIL 1ST THROUGH OCTOBER 31ST), MOWING SHOULD BE PERFORMED AS FOLLOWS.
- i. MOWING STYLE: AVOID FLAIL MOWER HEADS WITH GUIDE BARS THAT RIDE ALONG THE GROUND. SICKLE BAR MOWERS WILL HAVE THE LEAST IMPACT IF MOWING EVERY 1-5 YEARS. IN AREAS WITH MORE WOODY VEGETATION >1-2" DIAMETER BRONTOSAURUS-STYLE MOWER WILL LIKELY HAVE THE LEAST IMPACT ON TURTLES.
- ii. MOWING HEIGHT: IF MOWING DURING ACTIVE SEASON, RETENTION OF MOWING STUBBLE TO 7-12 INCHES WILL REDUCE MORTALITY, REDUCE BLADE WEAR, AND WILL LEAVE IMPORTANT COVER FOR ANIMALS.
- iii. DIRECTIONALITY: IF MOWING DURING THE ACTIVE SEASON IS NECESSARY, START MOWING FROM THE CENTER OF THE FIELD AND USE A BACK-AND-FORTH APPROACH, OR LARGE CIRCULAR PATTERN, TO AVOID CONCENTRATING FLEEING ANIMALS WHERE THEY MAY BE KILLED OR STRANDED. IN ADDITION, LEAVE AN UN-MOWED 30 FT STRIP AROUND THE PERIMETER OF THE FIELD AND MOW THIS AREA LAST. MOST TURTLES ARE FOUND IN THESE AREAS AND THIS PROVIDES TIME FOR THEM TO REACT TO THE MOWING ACTIVITY AND MOVE OUT OF THE AREA.
- iv. MOWER SPEED: MOWING IN LOW GEAR OR AT SLOW SPEEDS WILL ALLOW TURTLES TO REACT AND MOVE OUT OF THE FIELD.
- v. UN-MOWED EDGE: LEAVING AN UN-MOWED FIELD EDGE IN HIGH TURTLE USE AREAS UNTL AFTER SEPTEMBER 15TH. WOOD TURTLES ARE OFTEN IN FIELD EDGES CLOSEST TO NEARBY STREAMS.
- 10. **RARE GRASSLAND BIRDS PROTECTION MEASURES - CONSTRUCTION-PHASE**
 - a. IDEALLY, CONSTRUCTION SHOULD BE PERFORMED OUTSIDE OF THE SENSITIVE BREEDING SEASON (APRIL 1 THROUGH AUGUST 30).
 - b. HOWEVER, IF CONSTRUCTION ACTIVITIES ARE TO OCCUR DURING THE ACTIVE PEAK BREEDING SEASON FOR RARE GRASSLAND BIRD SPECIES (MAY 20 TO AUGUST 20), THESE BIRDS SHOULD BE DETERRED FROM NESTING WITHIN THE PROJECT LIMITS BY IMPLEMENTING THE FOLLOWING MEASURES.
 - c. THE PROJECT AREA SHOULD BE MOWED CONTINUOUSLY TWICE PER WEEK STARTING ON MAY 1ST AND CONTINUING UNTIL CONSTRUCTION BEGINS.
 - d. VEGETATION SHOULD NOT BE ALLOWED TO EXCEED THREE INCHES IN HEIGHT DURING THIS PERIOD.
 - e. THE TWICE PER WEEK MOWING SCHEDULE SHOULD BE MAINTAINED REGARDLESS OF VEGETATION HEIGHT (I.E., EVEN IF VEGETATION HEIGHT REMAINS BELOW THREE INCHES), TO SERVE AS AN ADDITIONAL DETERRENT TO NEST ESTABLISHMENT.
 - f. FIELD SURVEYS BY QUALIFIED BIOLOGISTS SHOULD OCCUR DURING THIS MOWING PERIOD AND THROUGH THE MONTH OF MAY UNTIL CONSTRUCTION BEGINS TO ENSURE THAT THE MEASURES ARE EFFECTIVELY DETERREING NEST ESTABLISHMENT. IF THIS PROVES UNSUCCESSFUL, REMEDIAL MEASURES WILL BE RECOMMENDED.
 - g. FOR MAINTENANCE OF THE FACILITY ONCE CONSTRUCTION HAS BEEN COMPLETED, MOWING ACTIVITIES SHOULD BE RESTRICTED AS OUTLINED IN THE FOLLOWING SECTION 10: RARE GRASSLAND BIRDS SITE MANAGEMENT PROTECTION MEASURES (MOWING).
- 11. **RARE GRASSLAND BIRDS SITE MANAGEMENT PROTECTION MEASURES - MAINTENANCE MOWING**
 - a. THE FOLLOWING MEASURES ARE INTENDED FOR IMPLEMENTATION WITHIN THE FENCED SOLAR-POWERED GENERATION FACILITY FOR MAINTENANCE MOWING ONCE THE FACILITY IS OPERATIONAL. THE LIKELIHOOD OF NESTING OCCURRING WITHIN THE FENCED COMPOUND, AND AMONGST THE ARRAYS THEMSELVES, IS LOW. HOWEVER, THESE BIRDS MAY BREED IN THE CONTIGUOUS GRASSLAND HABITAT ADJACENT TO THE FACILITY AND THEREFORE WOULD BE SUBJECT TO SECONDARY IMPACTS SUCH AS NOISE OR VISUAL DISTURBANCE THAT MAY AFFECT NESTING. ADDITIONALLY, THERE IS THE POTENTIAL FOR ADULTS AND FLEDGLINGS TO FEED WITHIN THE FENCED COMPOUND.
 - b. VEGETATION MAINTENANCE WITHIN THE FENCED SOLAR FACILITY MAY BE ACCOMPLISHED THROUGH SHEEP GRAZING. SHOULD THAT TECHNIQUE BE USED, MOWING RESTRICTIONS WOULD NOT APPLY.
 - c. TIMING OF MOWING/VEGETATION MAINTENANCE: IF POSSIBLE, MOWING SHOULD BE AVOIDED FROM MAY 20TH THROUGH AUGUST 20TH TO MINIMIZE IMPACTS TO NESTING BIRDS. FOR THE BENEFIT OF BIRDS AS WELL AS TERRESTRIAL WILDLIFE, MOWING CONDUCTED ONCE PER SEASON IS OPTIMAL, AFTER OCTOBER 15TH WHEN MOST SPECIES HAVE ENTERED FALL/WINTER DORMANCY.
 - d. **MOWING TYPE/METHOD:**
 - 1. MOWER SPEED: MOWING AT SLOW SPEEDS WILL ALLOW ANIMALS TO REACT AND MOVE OUT OF THE FIELD.
 - 2. MOWING STYLE: AVOID FLAIL MOWER HEADS WITH GUIDE BARS THAT RIDE ALONG THE GROUND. SICKLE BAR MOWERS WILL HAVE THE LEAST IMPACT IF MOWING EVERY 1-5 YEARS.
 - 3. MOWING HEIGHT: IF MOWING DURING THE BREEDING SEASON, RETENTION OF MOWING STUBBLE AT A MINIMUM HEIGHT OF 7 INCHES WILL REDUCE MORTALITY AND WILL LEAVE IMPORTANT COVER FOR WILDLIFE.
 - 4. DIRECTIONALITY: IF MOWING DURING THE BREEDING SEASON IS NECESSARY, START MOWING CLOSEST TO THE ARRAYS AND MOVE OUTWARD TOWARD THE EDGE OF THE ARRAY FIELD.
 - e. **PRE-MOWING NEST SURVEYS:** IF MOWING OUTSIDE OF THE NESTING SEASON IS NOT POSSIBLE, A PRE-MOWING INSPECTION BY AN ORNITHOLOGIST IS RECOMMENDED TO CONFIRM THAT NO NESTS ARE PRESENT WITHIN THE MOWING LIMITS. THAT SURVEY SHOULD OCCUR NO MORE THAN ONE WEEK PRIOR TO THE START OF MOWING. ANY ACTIVITY BY TARGET SPECIES SHOULD BE FIELD FLAGGED AND/OR CONVEYED TO THE CONTRACTOR. IF A NEST SITE IS OBSERVED WITHIN THE MOWING LIMITS, NO MOWING SHOULD OCCUR WITHIN 100 FEET OF THE NEST SITE UNTIL IT IS INACTIVE AND THE FLEDGLINGS ARE FULLY MOBILE.

12. RARE BATS SITE MANAGEMENT MEASURES (TREE CLEARING)

- a. TREE CLEARING IS RESTRICTED TO OCCUR ONLY BETWEEN AUGUST 15TH THROUGH APRIL 30TH. DURING THE BAT'S NON-ROOSTING PERIOD, WHEN BATS WOULD NOT BE PRESENT ON THE SITE.
- 13. **REPORTING**
 - a. A COMPLIANCE MONITORING REPORT (BRIEF NARRATIVE AND APPLICABLE PHOTOS) DOCUMENTING EACH APT INSPECTION WILL BE SUBMITTED BY APT TO THE CONTRACTOR AND PERMITTEE FOR COMPLIANCE VERIFICATION. ANY OBSERVATIONS OF RARE SPECIES, VERNAL POOL INDICATOR SPECIES, WETLAND/WATERCOURSE IMPACTS, OR CORRECTIVE ACTIONS WILL BE INCLUDED IN THE REPORTS.
 - b. FOLLOWING COMPLETION OF THE CONSTRUCTION PROJECT, APT WILL PROVIDE A FINAL COMPLIANCE MONITORING REPORT TO SILICON RANCH DOCUMENTING IMPLEMENTATION OF THIS RESOURCES PROTECTION PROGRAM AND MONITORING OBSERVATIONS. INCLUDING ANY OBSERVATIONS OF RARE SPECIES. SILICON RANCH SHALL PROVIDE A COPY OF THE FINAL COMPLIANCE MONITORING REPORT TO THE CONNECTICUT SITING COUNCIL FOR COMPLIANCE VERIFICATION.
 - c. ANY OBSERVATIONS OF RARE SPECIES WILL BE REPORTED TO DEEP BY APT ON THE APPROPRIATE SPECIAL ANIMAL REPORTING FORM, WITH PHOTO-DOCUMENTATION (IF POSSIBLE) AND SPECIFIC INFORMATION ON THE LOCATION AND DISPOSITION OF THE ANIMAL.



LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA

LAT: 41.794157°N
LON: 73.168028°W

LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

ENVIRONMENTAL NOTES

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: NTS

DRAWING NO.

C003



1. SOLAR PANEL LAYOUT PROVIDED BY OWNER.



NOT FOR
CONSTRUCTION

LITCHFIELD
SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



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REV. NO	DESCRIPTION	DATE

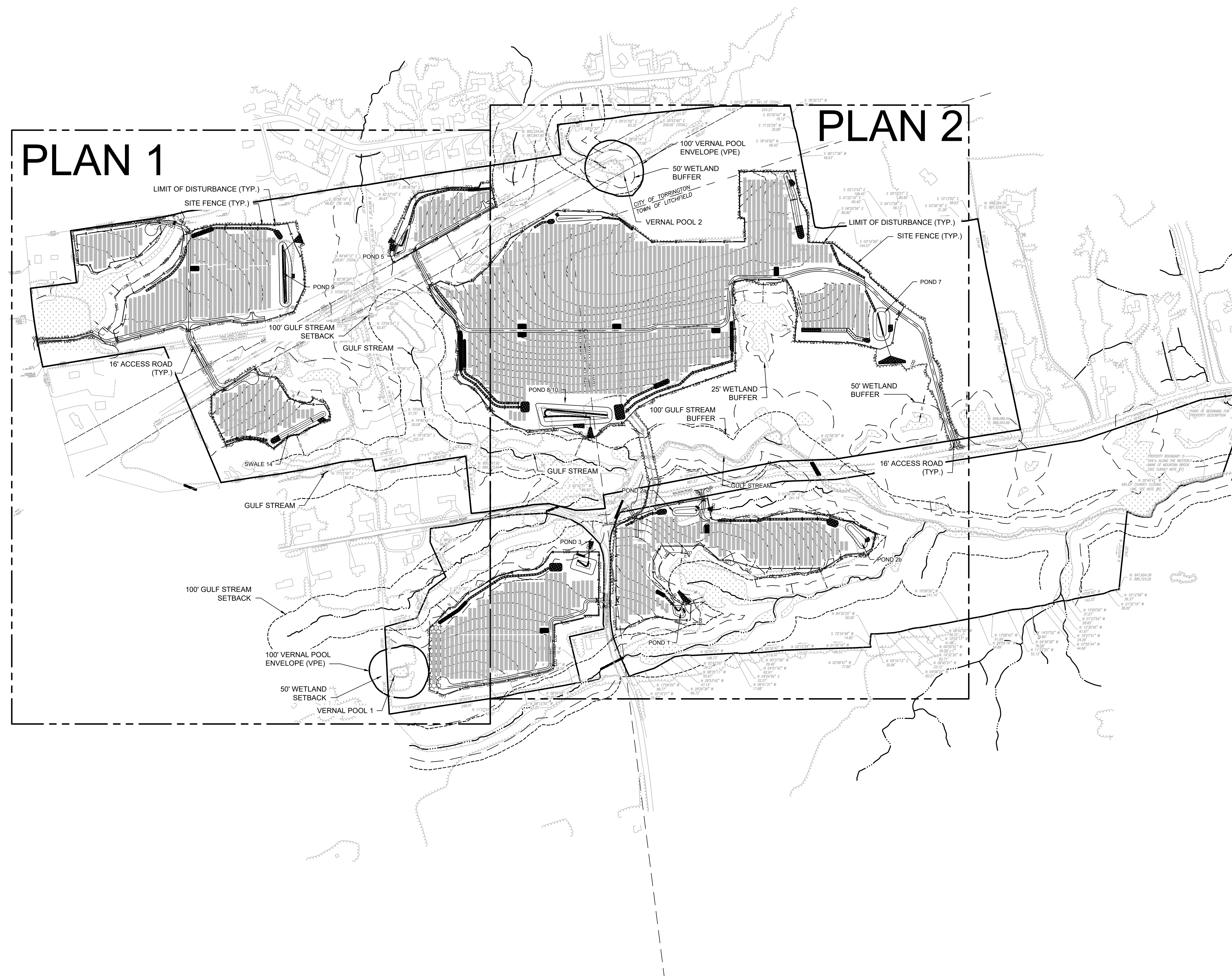
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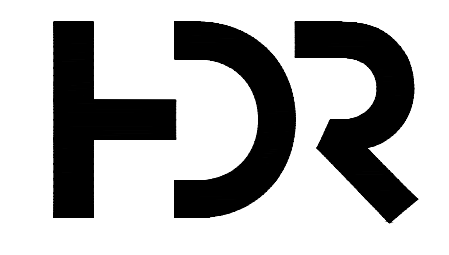
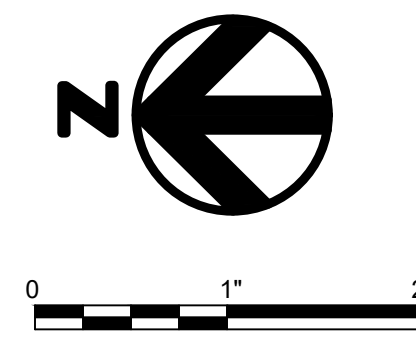
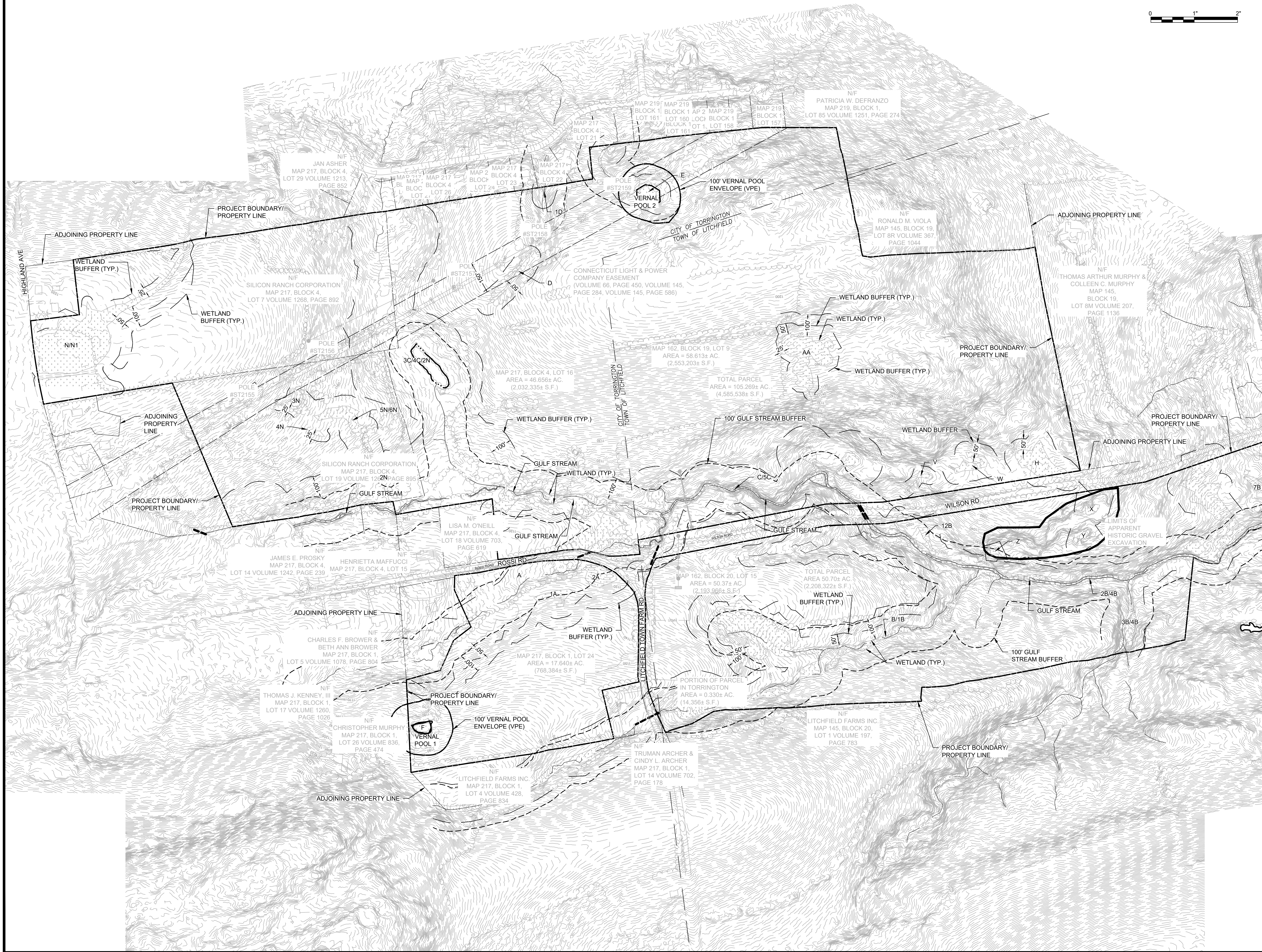
OVERALL SITE PLAN

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=250'
DRAWING NO.		

51	DRAWING NO.
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C101





NOT FOR
CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

EXISTING SITE CONDITIONS AND TOPOGRAPHY

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=200'

DRAWING NO.

C102



1. SOLAR PANEL LAYOUT PROVIDED BY OWNER.

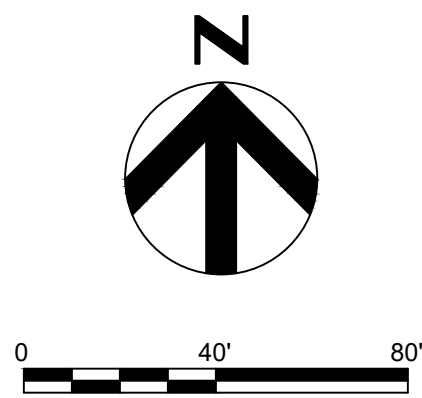


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11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=250'
DRAWING NO.		

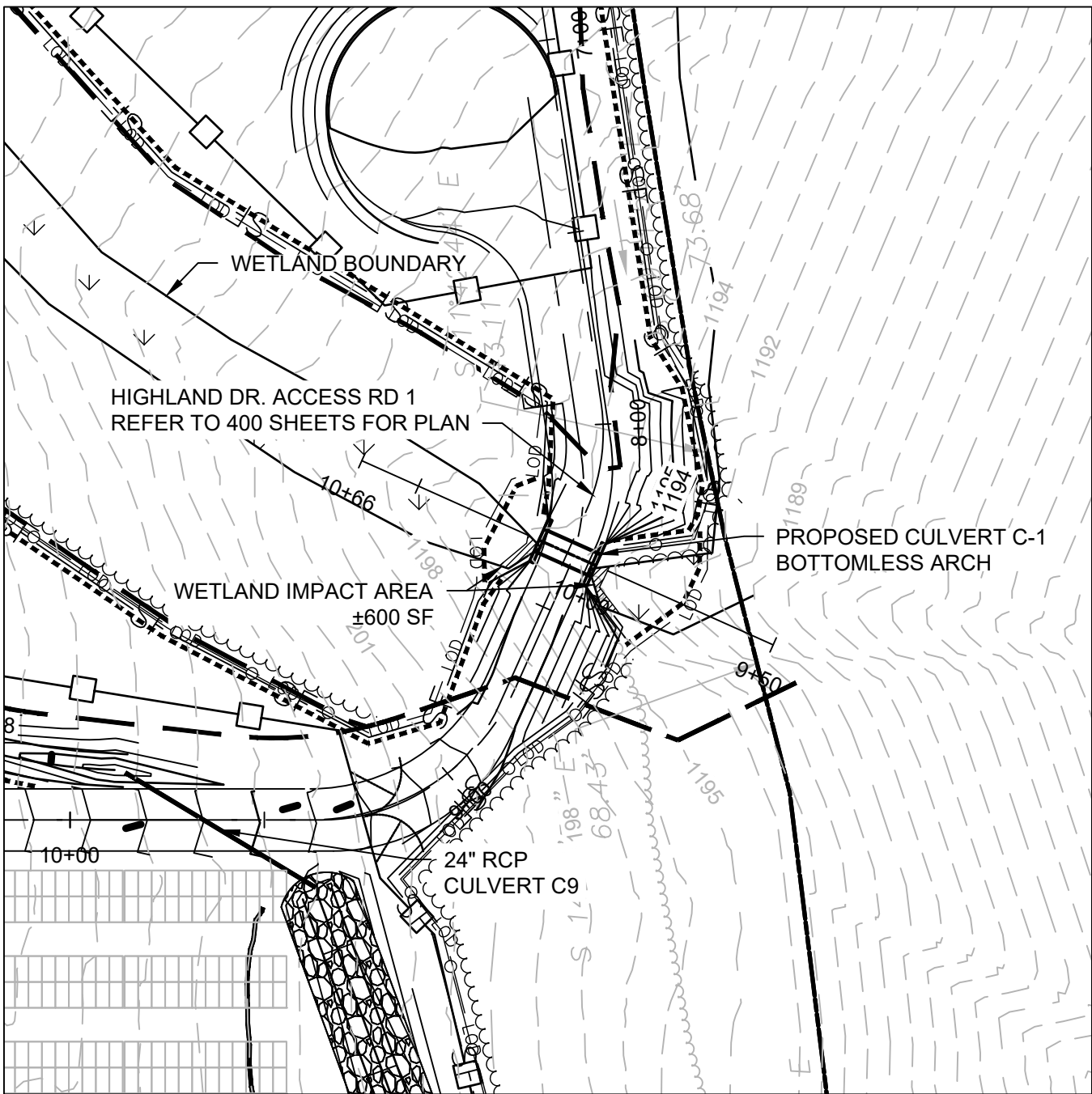
C103





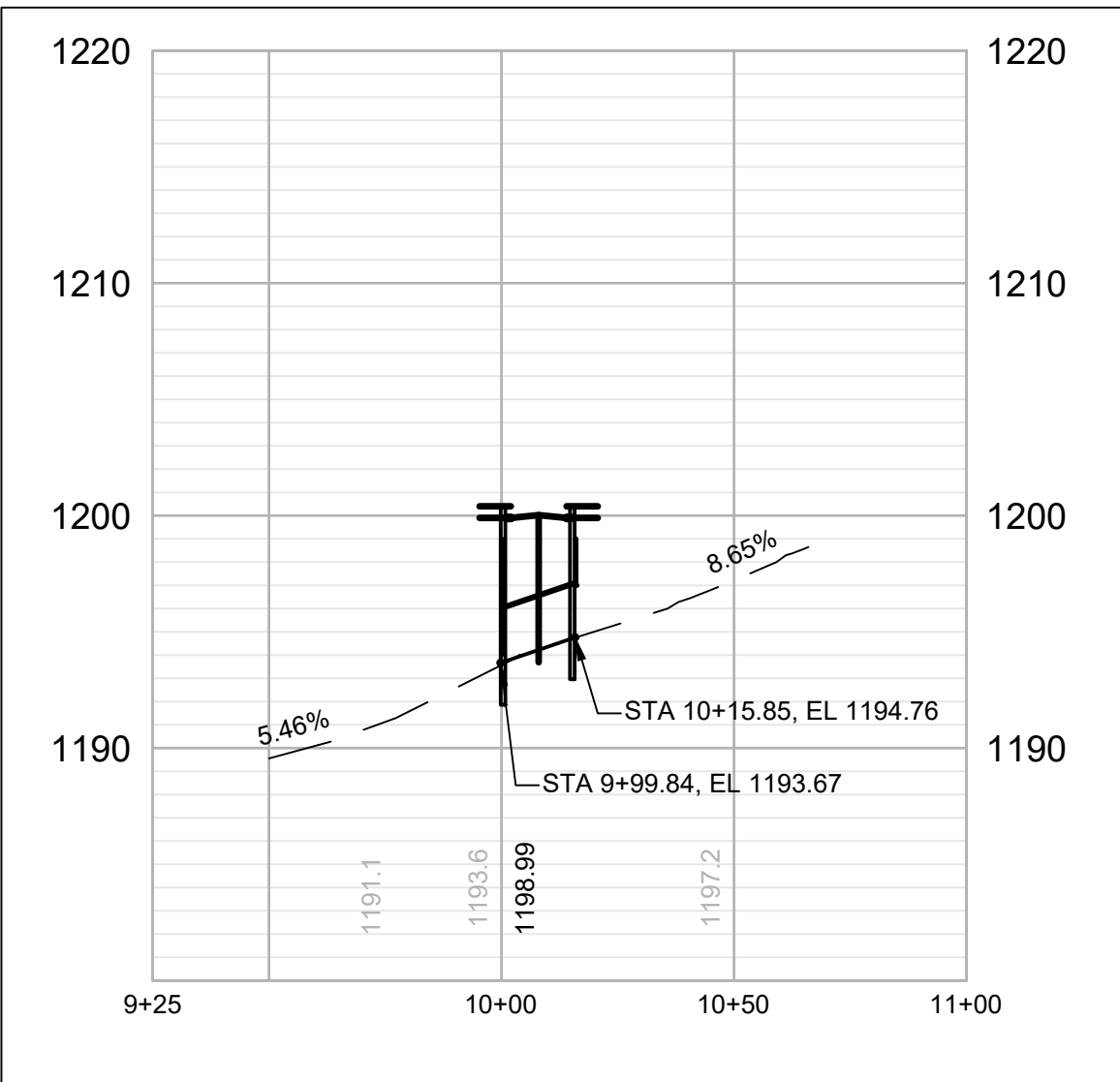
GENERAL NOTES :

- 1. SEE SHEET C101 FOR OVERALL PLAN.
- 2. ALL TIE-IN GRADING SLOPES ARE 3H:1V.

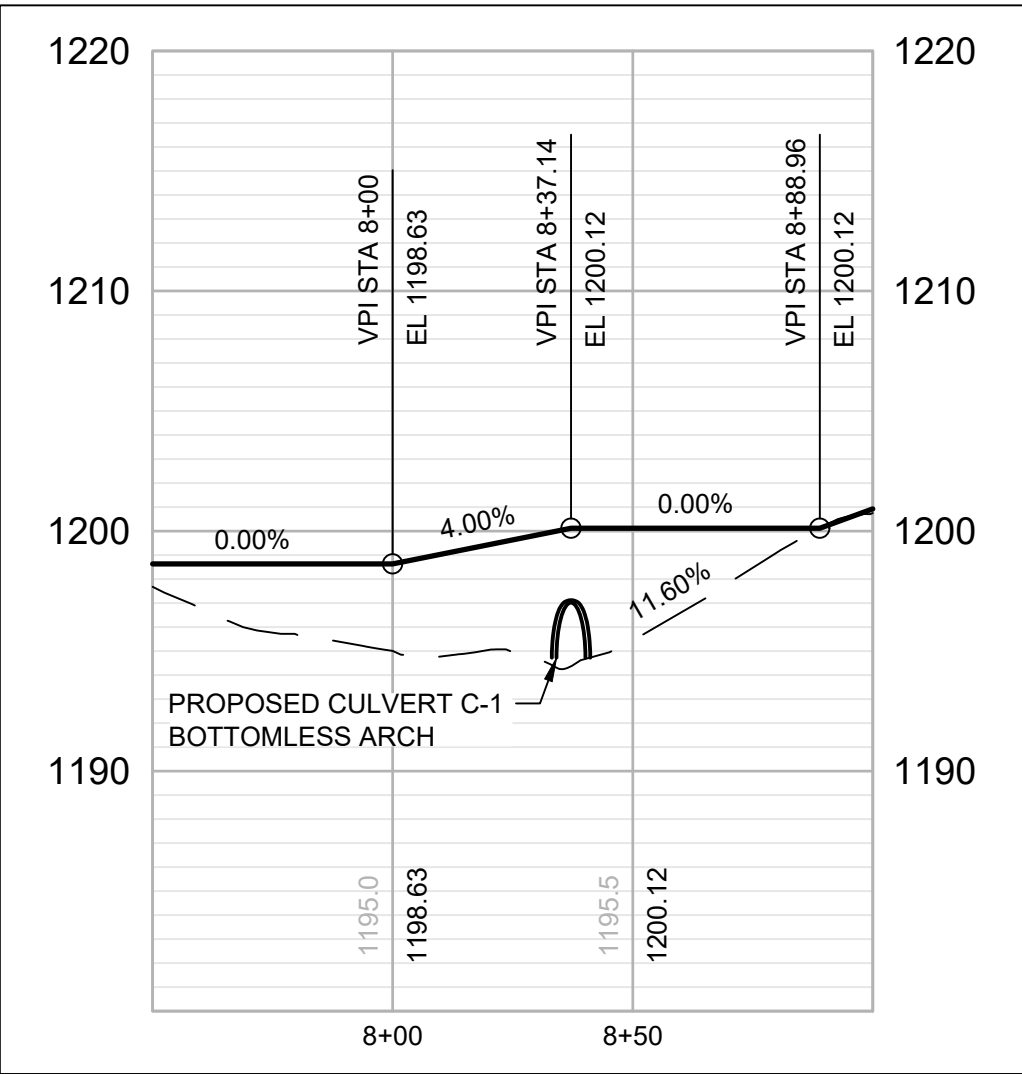


CULVERT C-1

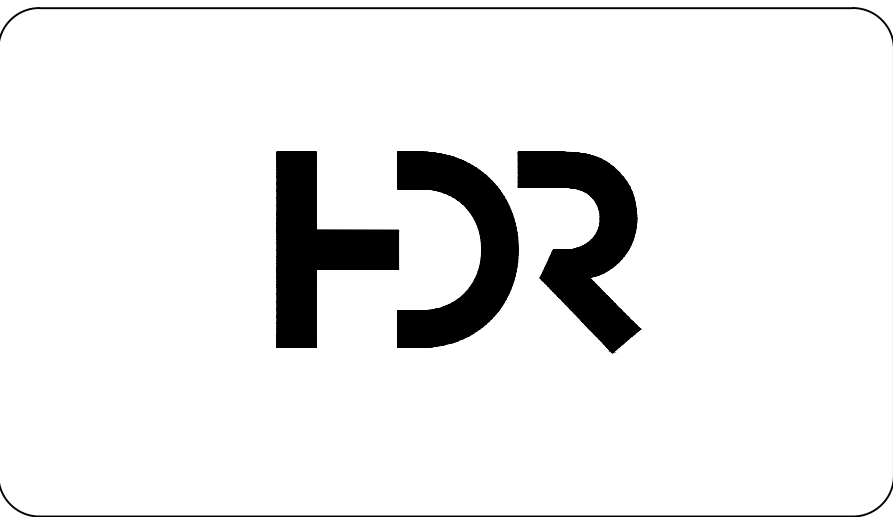
Culvert	Est. Peak Flow Q 50-yr (cfs)	Length (ft)	Shape	Span (ft)	Rise (ft)	Area (sf)	Open Area (sf)	OR (Open Area) / Length
C-1	34.03	16	Arch (Bottomless)	6	2' - 4"	14	14.00	0.88



CULVERT C-1 PROFILE VIEW



ROADWAY PROFILE VIEW



NOT FOR
CONSTRUCTION

LITCHFIELD
SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

WETLAND CROSSING

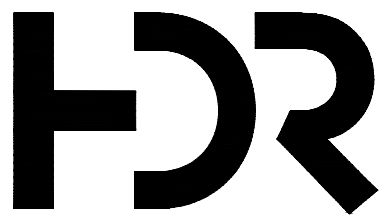
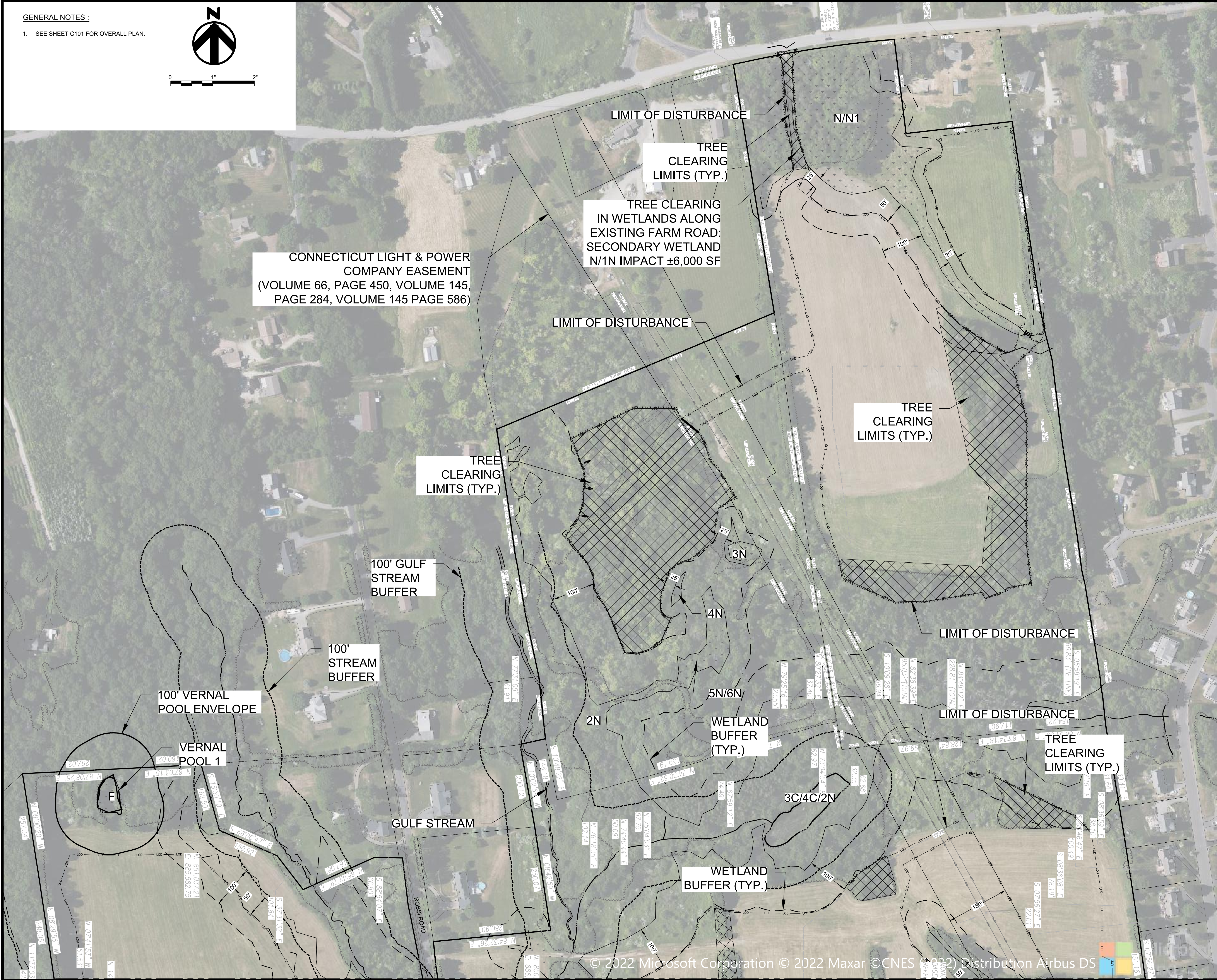
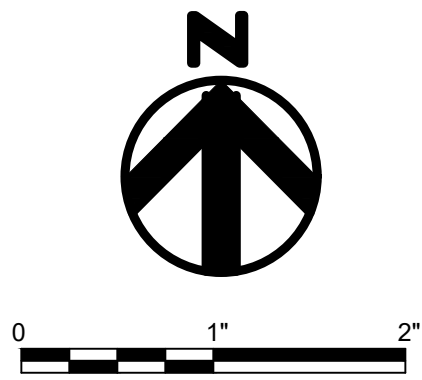
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=40'

DRAWING NO.

C200

GENERAL NOTES :

1. SEE SHEET C101 FOR OVERALL PLAN.



NOT FOR
CONSTRUCTION

LITCHFIELD
SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
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LON: 73.168028°W



LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

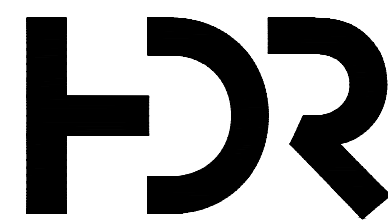
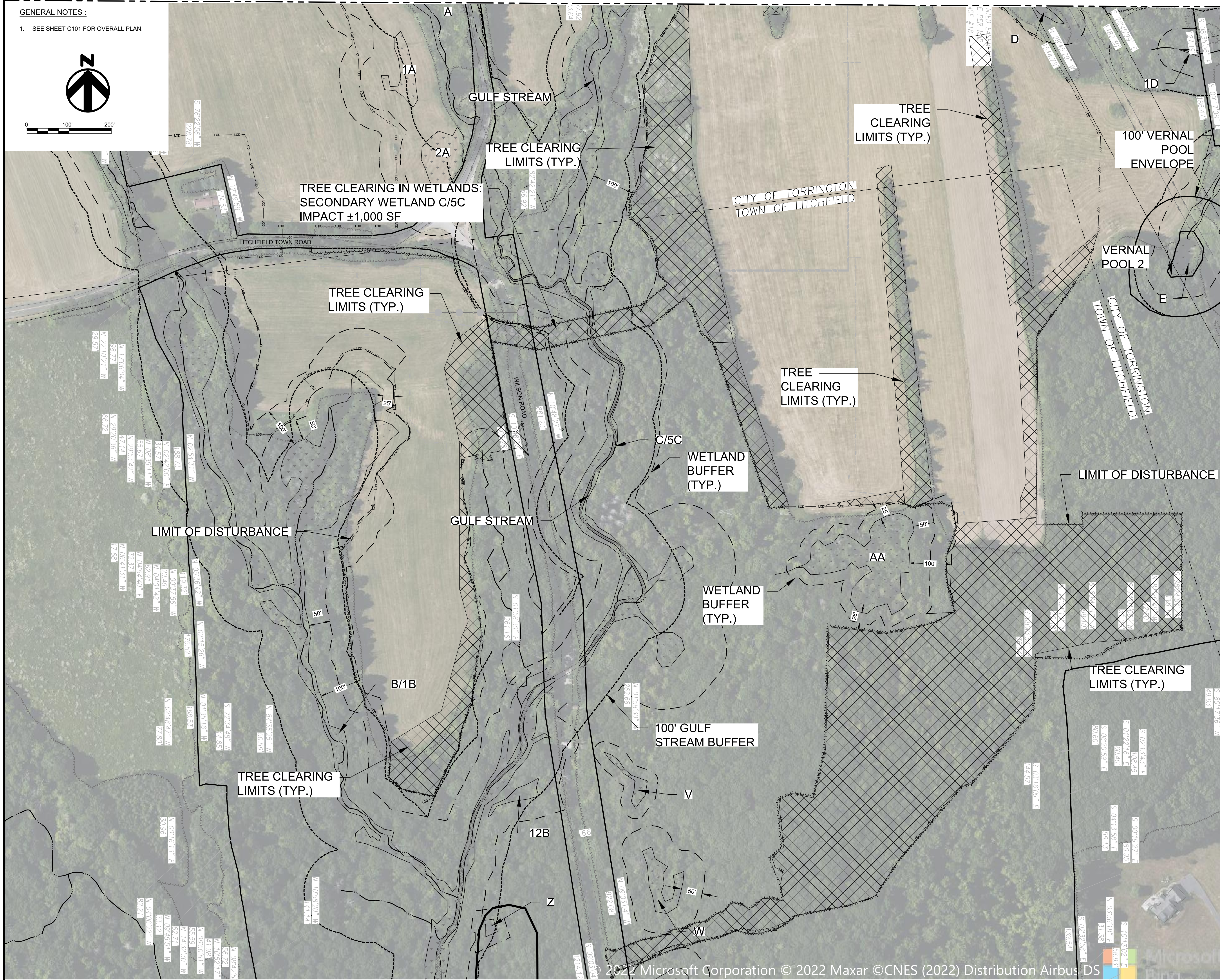
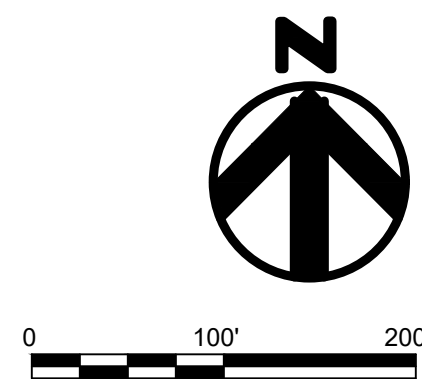
SHEET TITLE:

TREE CLEARING
PLAN 1

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'
DRAWING NO.		

C301

GENERAL NOTES :
1. SEE SHEET C101 FOR OVERALL PLAN.



NOT FOR
CONSTRUCTION

LITCHFIELD
SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

**TREE CLEARING
PLAN 2**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'

DRAWING NO.

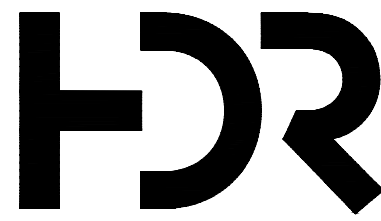
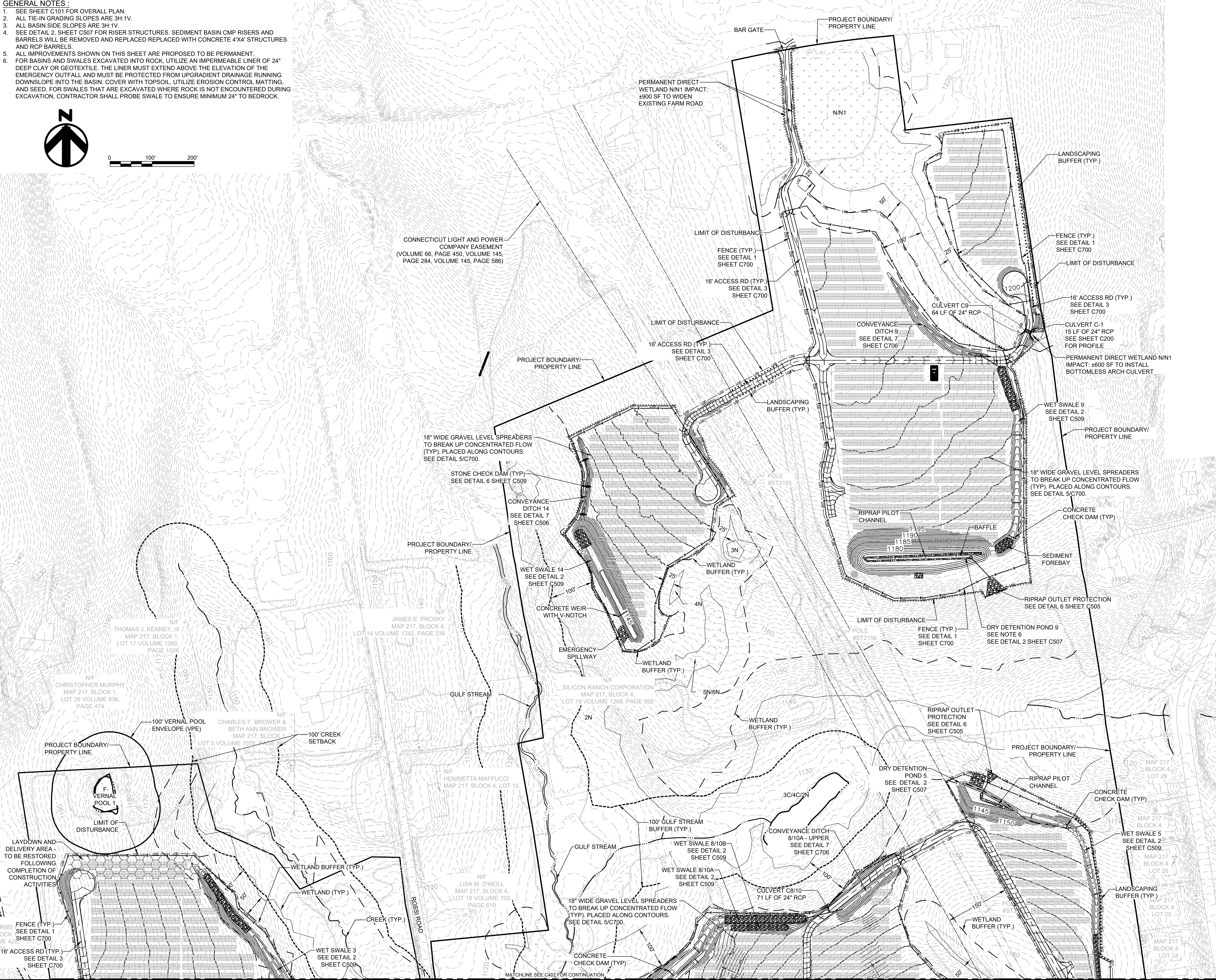
C302

GENERAL NOTES :

1. SEE SHEET C101 FOR OVERALL PLAN.
2. ALL TIE-IN GRADING SLOPES ARE 3H:1V.
3. ALL BASIN SIDE SLOPES ARE 3H:1V.
4. SEE DETAIL 2, SHEET C507 FOR RISER STRUCTURES. SEDIMENT BASIN CMP RISERS AND BARRELS WILL BE REMOVED AND REPLACED REPLACED WITH CONCRETE 4'X4' STRUCTURES AND RCP BARRELS.
5. ALL IMPROVEMENTS SHOWN ON THIS SHEET ARE PROPOSED TO BE PERMANENT.
6. FOR BASINS AND SWALES EXCAVATED INTO ROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRAIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.



0 100' 200'



NOT FOR
CONSTRUCTION

LITCHFIELD
SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

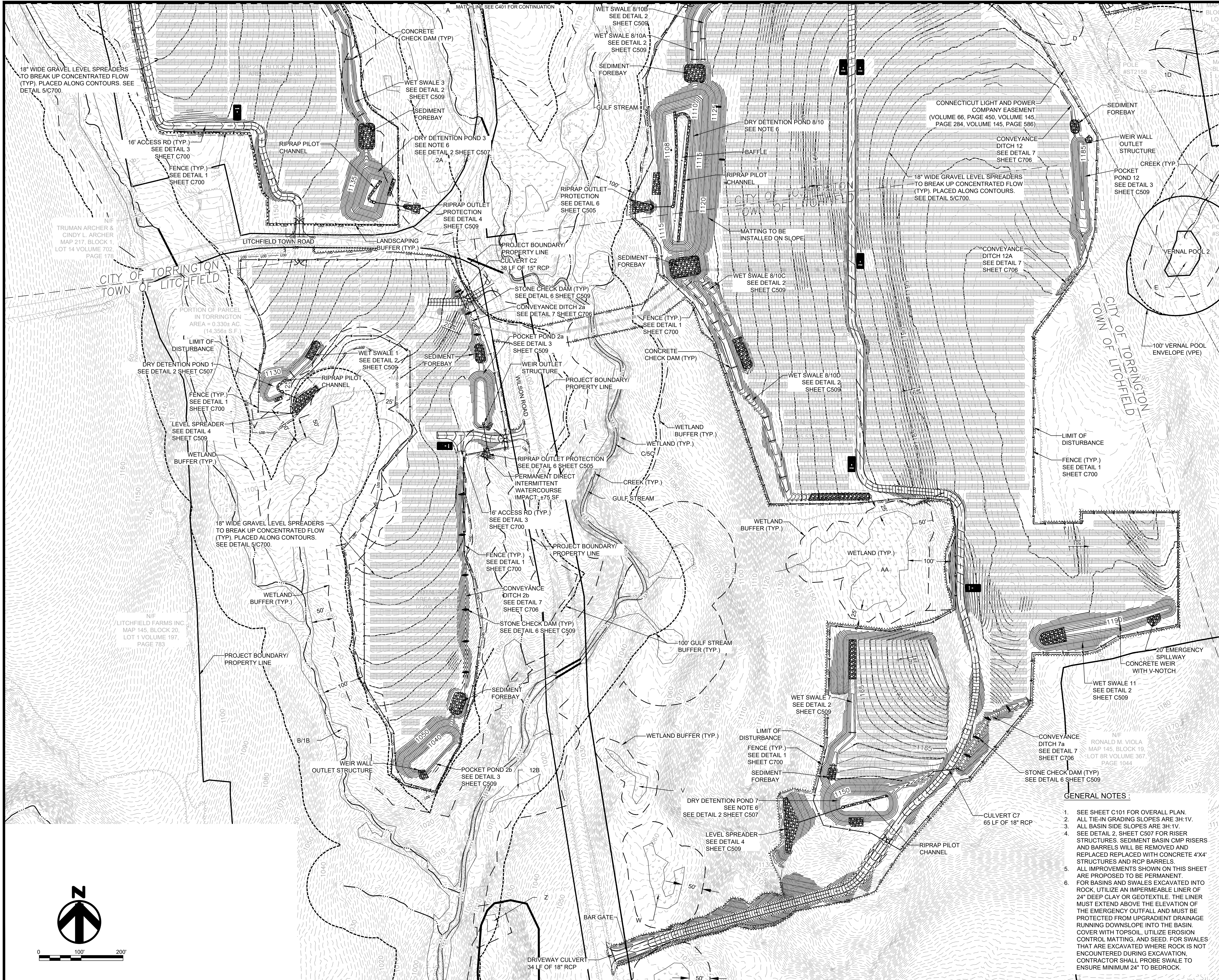
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

ARRAY GRADING AND
DRAINAGE PLAN 1

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'
DRAWING NO.		

C401



NOT FOR
CONSTRUCTION

LITCHFIELD
SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W

LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

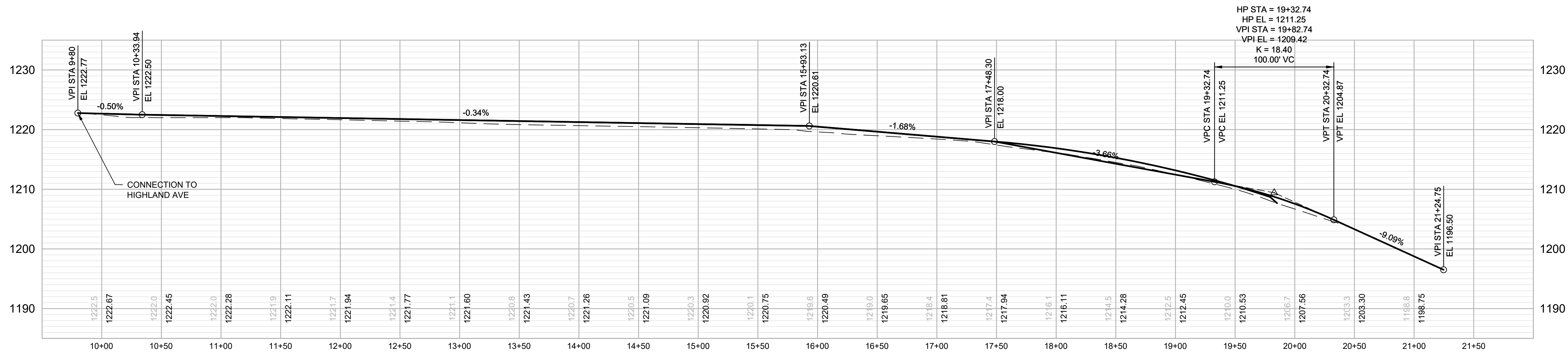
ARRAY GRADING AND
DRAINAGE PLAN 2

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'

DRAWING NO.

C402

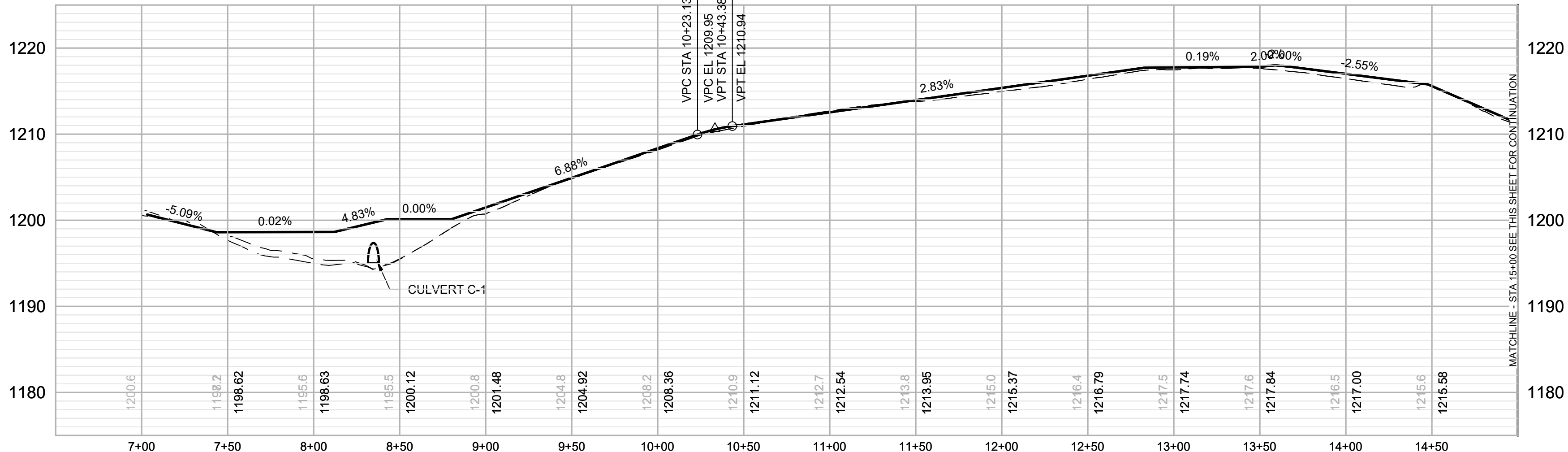
- GENERAL NOTES :
- SEE SHEET C101 FOR OVERALL PLAN.
 - ALL TIE-IN GRADING SLOPES ARE 3H:1V.
 - ALL BASIN SIDE SLOPES ARE 3H:1V.
 - SEE DETAIL 2, SHEET C507 FOR RISER STRUCTURES. SEDIMENT BASIN CMP RISERS AND BARRELS WILL BE REMOVED AND REPLACED REPLACED WITH CONCRETE 4'X4' STRUCTURES AND RCP BARRELS.
 - ALL IMPROVEMENTS SHOWN ON THIS SHEET ARE PROPOSED TO BE PERMANENT.
 - FOR BASINS AND SWALES EXCAVATED INTO ROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.



PROFILE VIEW
HIGHLAND DR. ACCESS ROAD 1

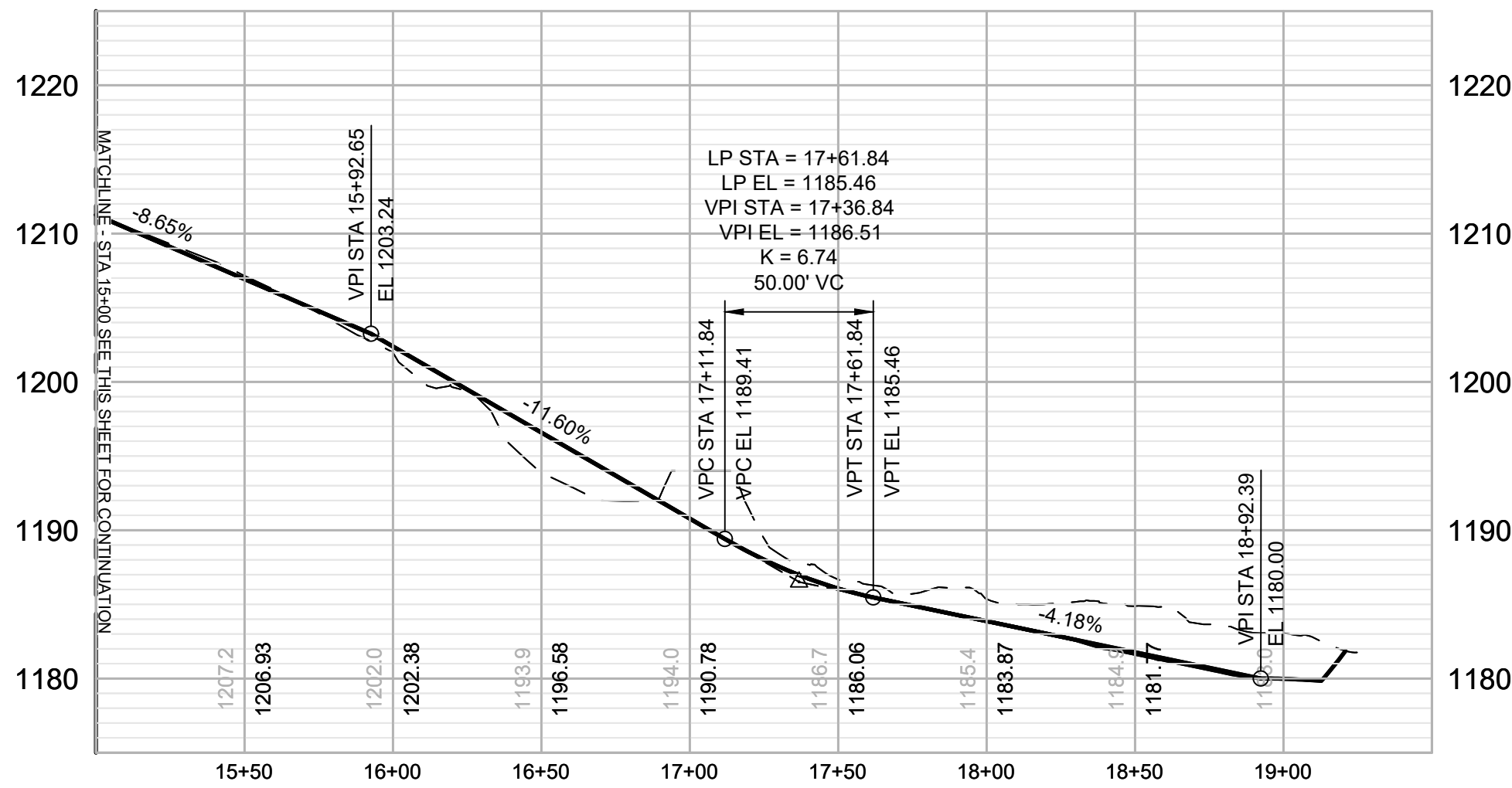
STATION 9+80 TO 21+96.09
H: 1"=50', V: 1"=10'

HP STA = 10+43.38
HP EL = 1210.94
VPI STA = 10+33.25
VPI EL = 1210.65
K = 5.00
20.24' VC



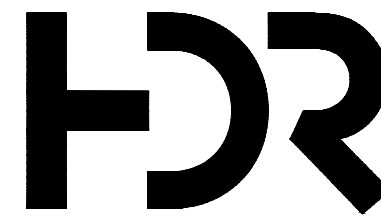
PROFILE VIEW
HIGHLAND DR. ACCESS ROAD 1.1

STATION 7+00 TO 15+00
H: 1"=50', V: 1"=10'



PROFILE VIEW
HIGHLAND DR. ACCESS ROAD 1.1

STATION 15+00 TO 18+92.39
H: 1"=50', V: 1"=10'



NOT FOR
CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

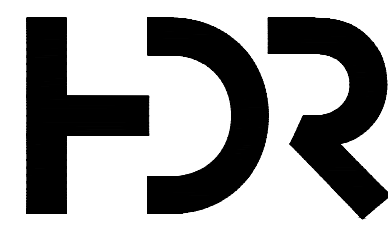
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

ACCESS ROAD PROFILES 1

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'
DRAWING NO.		

C403



NOT FOR
CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

ACCESS ROAD PROFILES 2

PROJ. MGR.
CM

PROJ. ENGR.
MB

DATE:
08/16/23

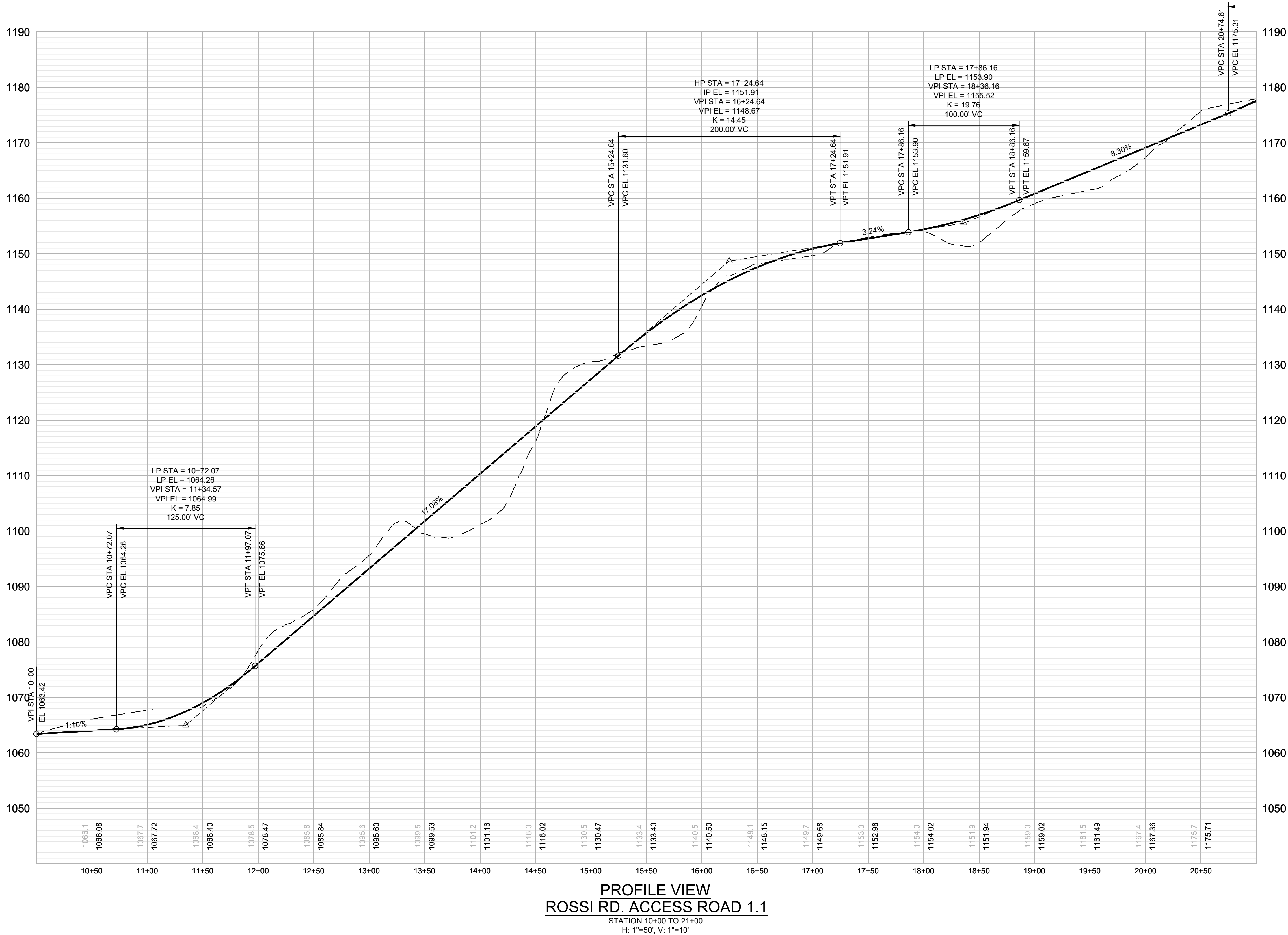
DRAWN BY:
JP

CHECKED BY:
CP

SCALE:
1"=100'

DRAWING NO.

C404





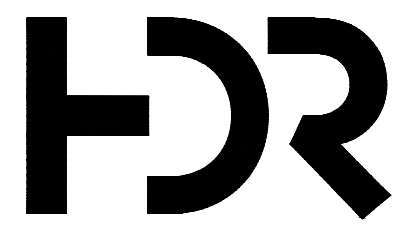
LITCHFIELD SOLAR

A circular professional engineer seal for the State of Connecticut. The outer ring contains the text "STATE OF CONNECTICUT" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring, the name "MATTHEW BRAWLEY" is written in a curved path. In the center is the Seal of the State of Connecticut, featuring a shield with a ship, a star, and a banner below it that reads "QUI PRO DOMINA JUSTITIA SEQUITUR". Below the seal, the license number "PEN 0035159" is printed. The entire seal is surrounded by a dashed circular border.

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

ACCESS ROAD PROFILES 3

C405



NOT FOR
CONSTRUCTION

LITCHFIELD SOLAR

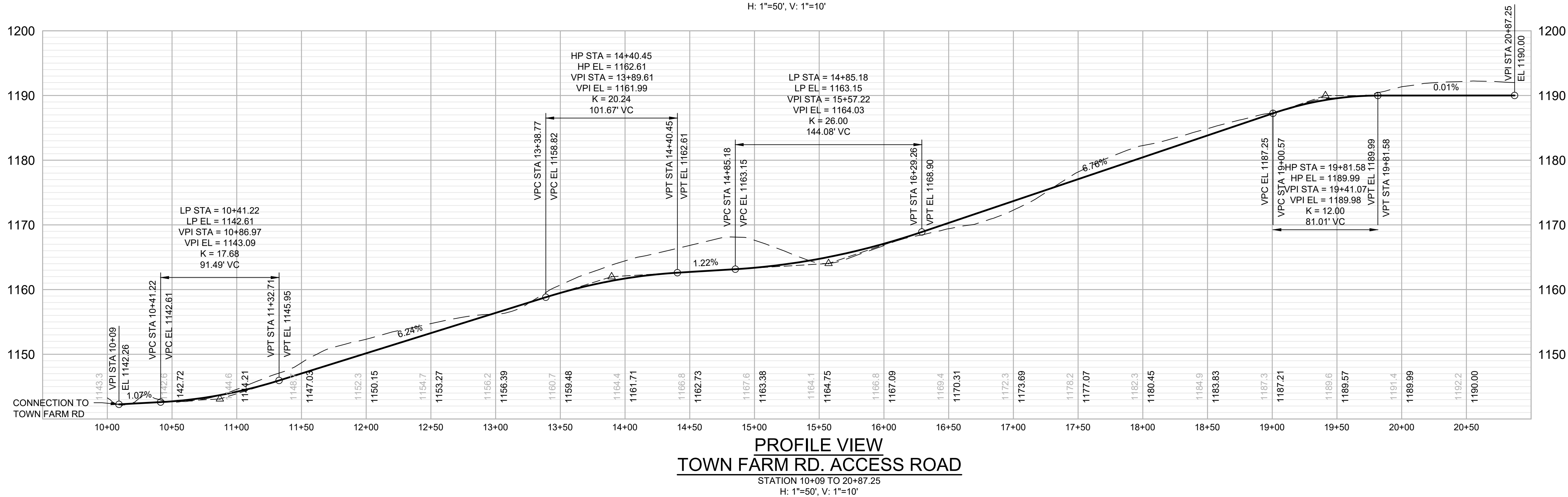
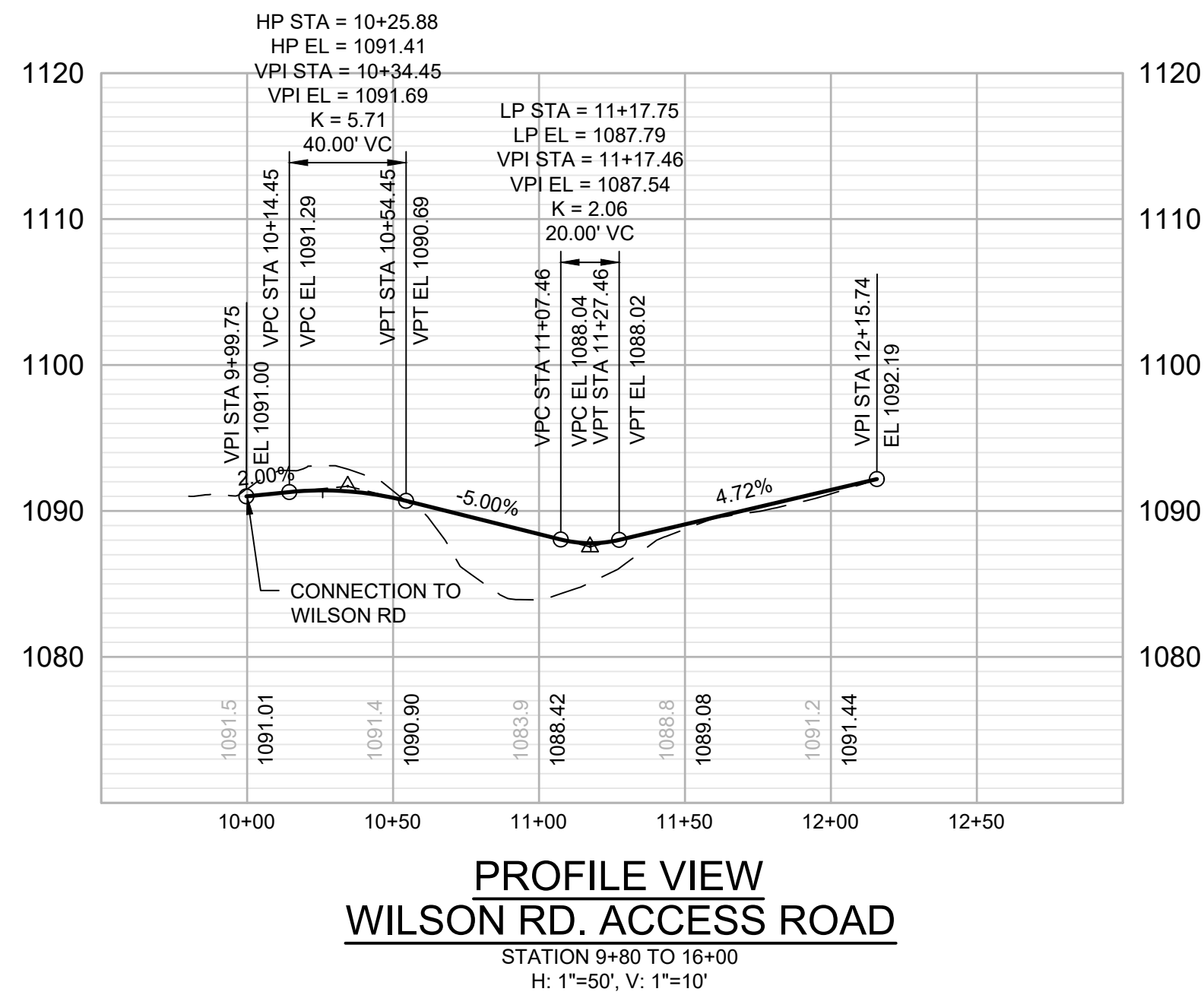
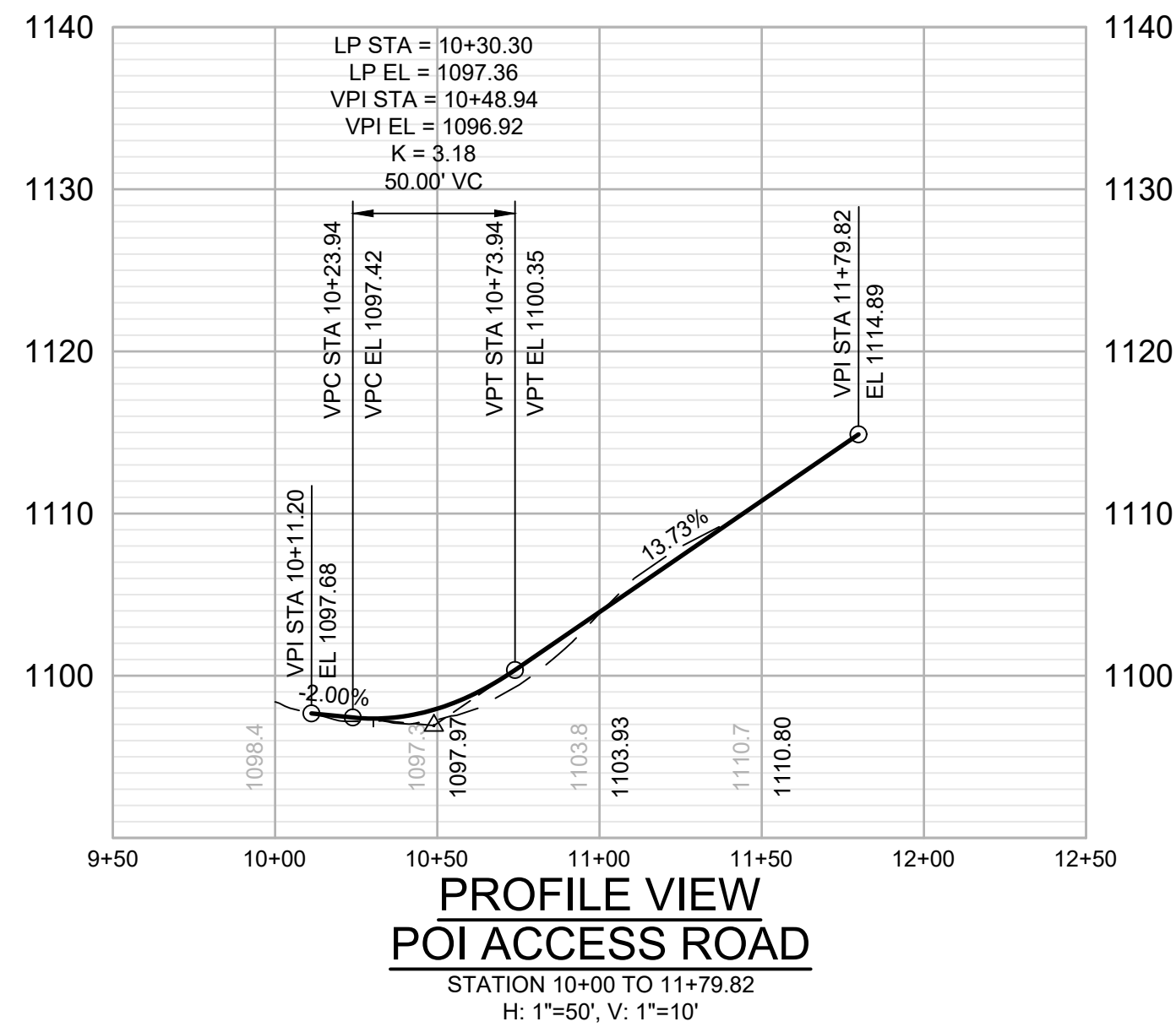
2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W

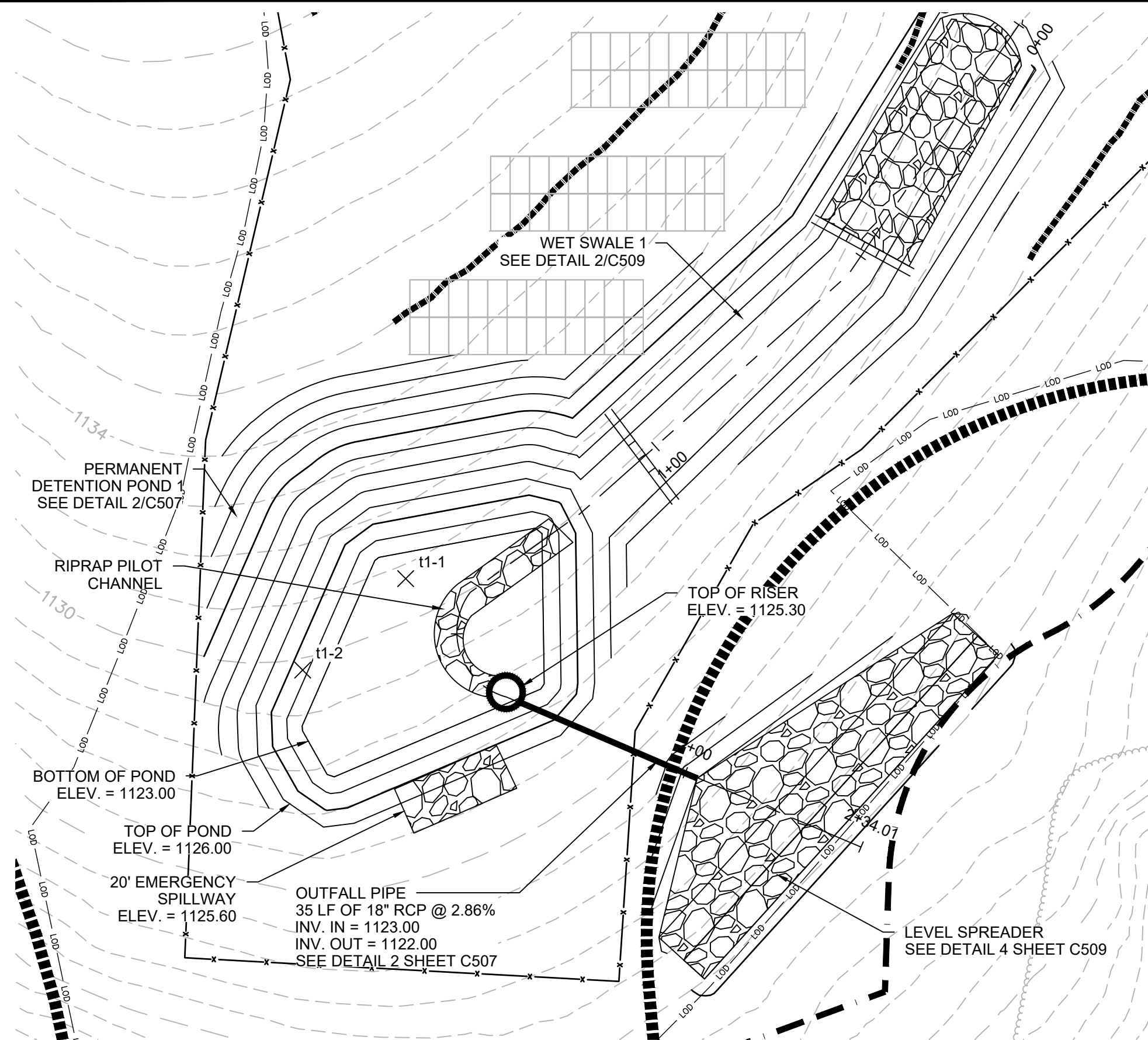


LITCHFIELD, CT

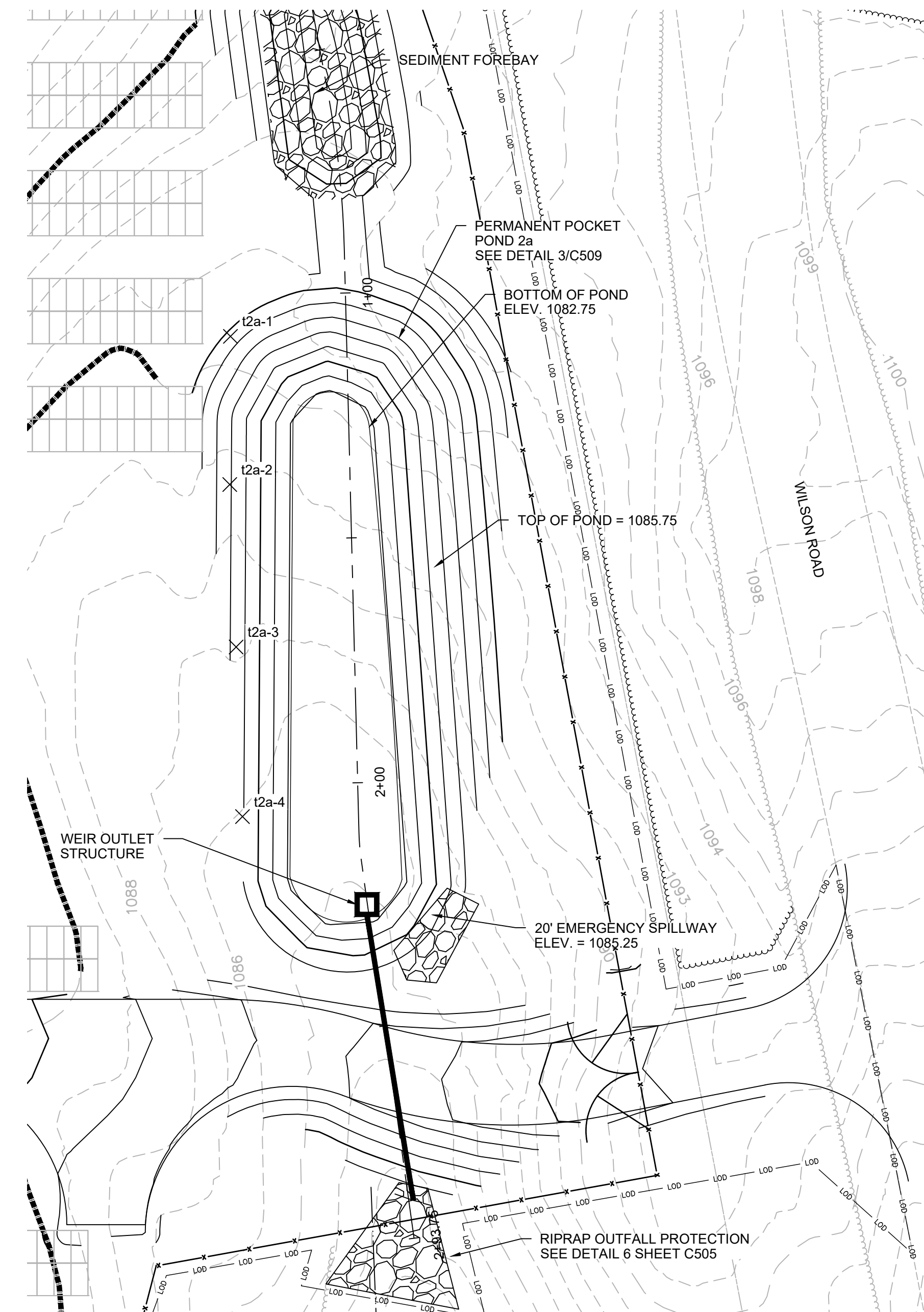
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:		
ACCESS ROAD PROFILES 4		
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'
DRAWING NO.		
C406		

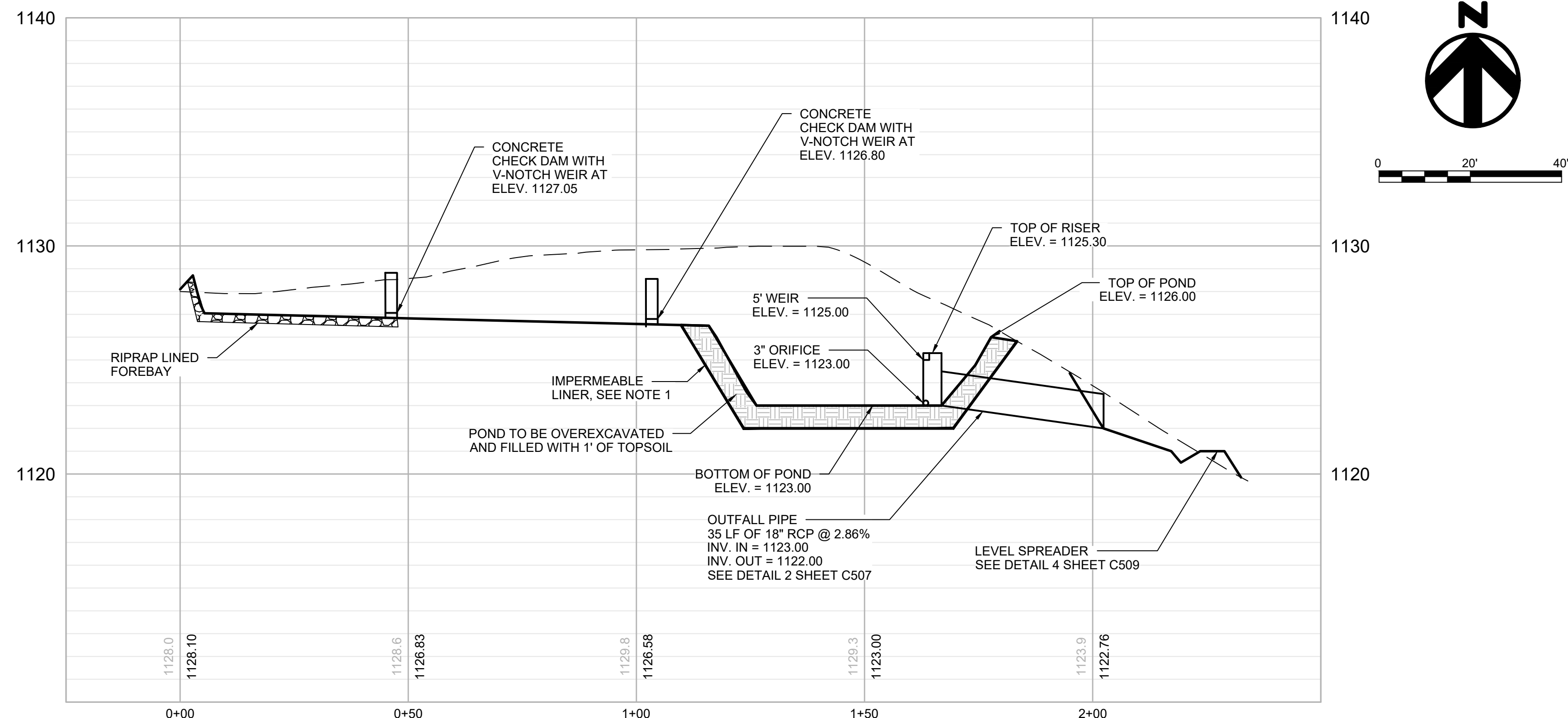




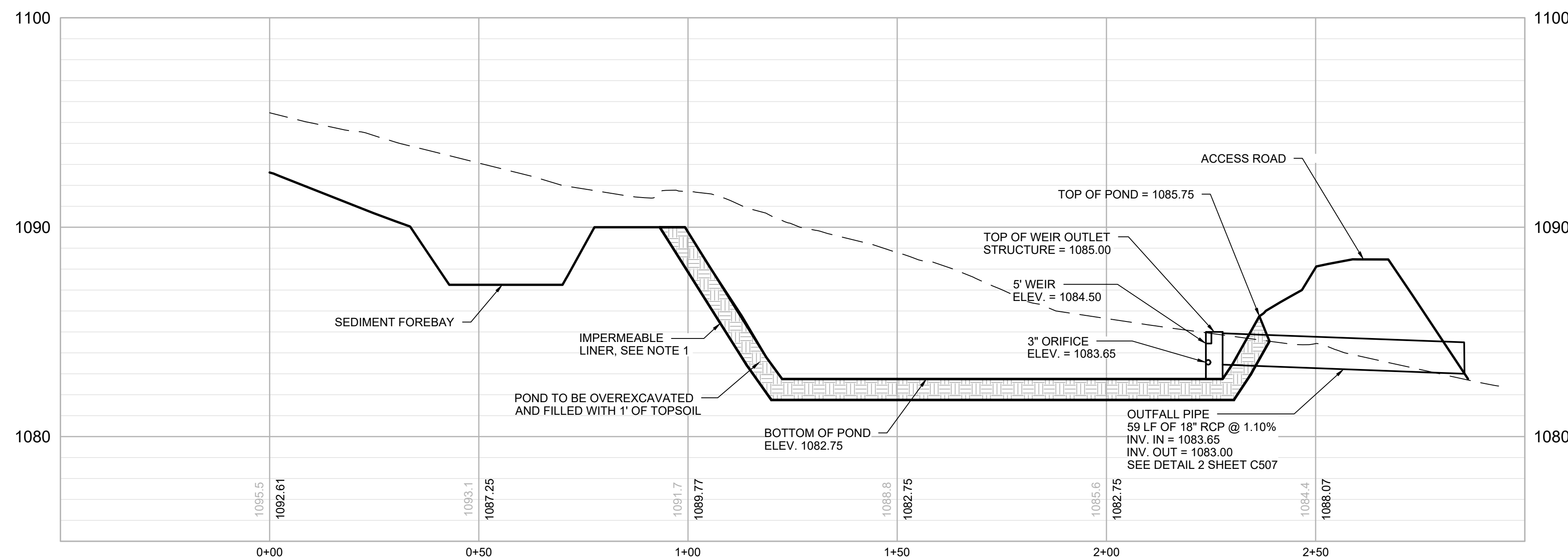
PERMANENT DRY DETENTION POND 1



PERMANENT POCKET POND 2A



PERMANENT DRY DETENTION POND 1
AND WET SWALE 1
H: 1" = 20'; V: 1" = 4'



PERMANENT POCKET POND 2A
H: 1" = 20'; V: 1" = 4'

NOTE:

- FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRAIDENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL. UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



NOT FOR
CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
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LITCHFIELD, CT

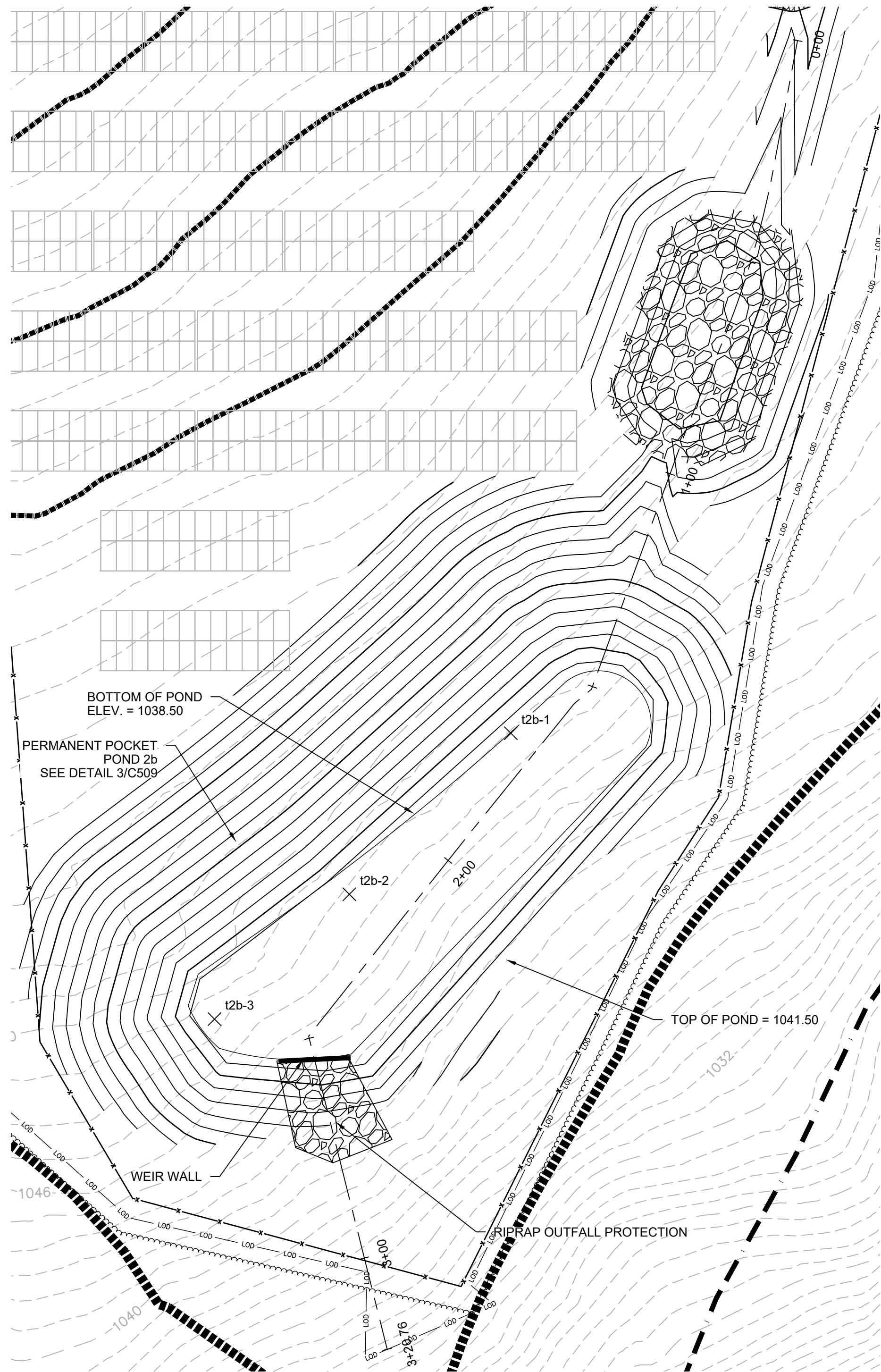
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

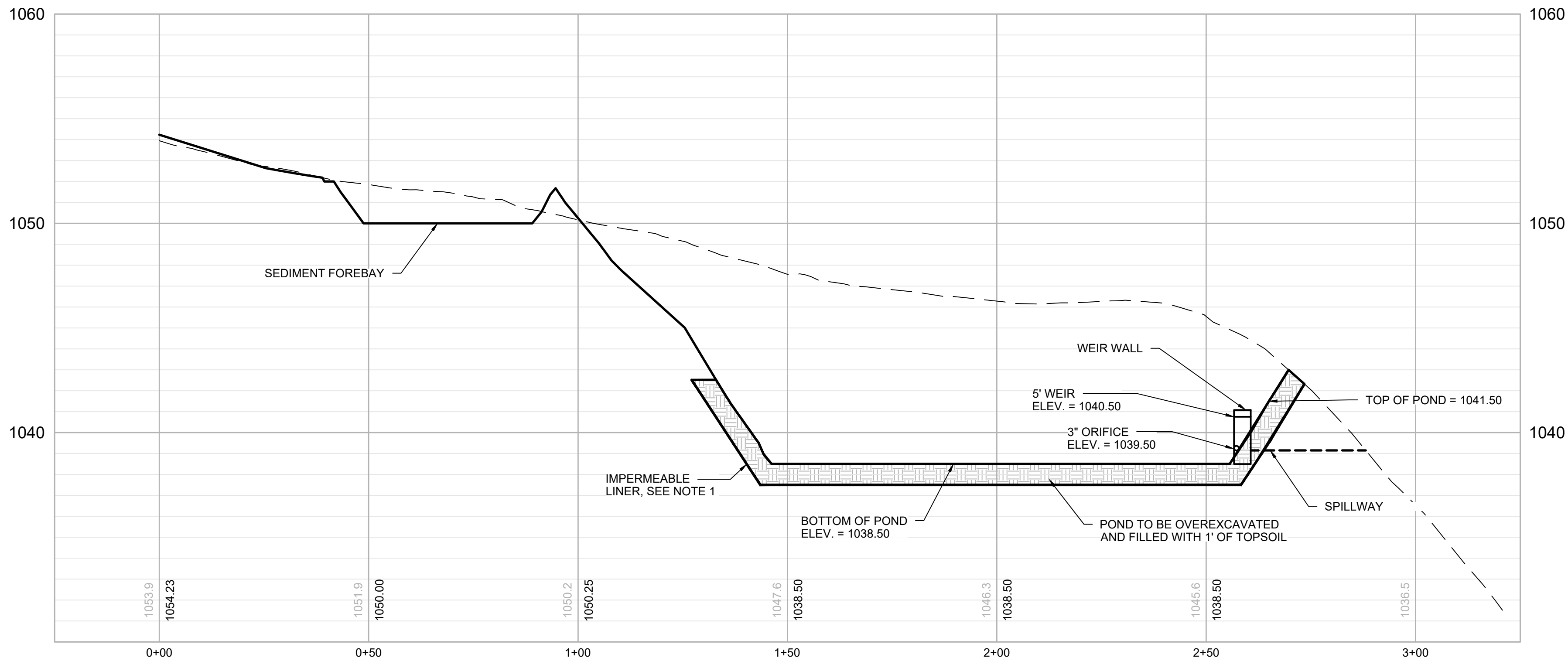
PERMANENT POND DETAILS AND CROSS SECTIONS

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'
DRAWING NO.		

C420



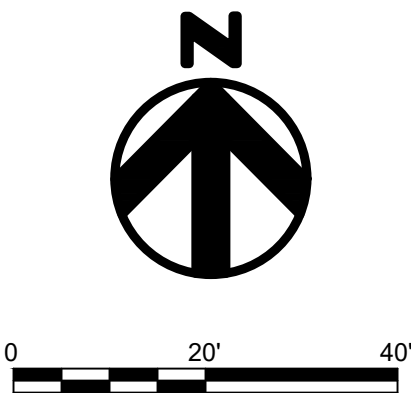
PERMANENT POCKET
POND 2B



PERMANENT POCKET
POND 2B

H: 1" = 20'; V: 1" = 4'

NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



NOT FOR
CONSTRUCTION

LITCHFIELD
SOLAR

2-298 ROSSI RD
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LITCHFIELD, CT

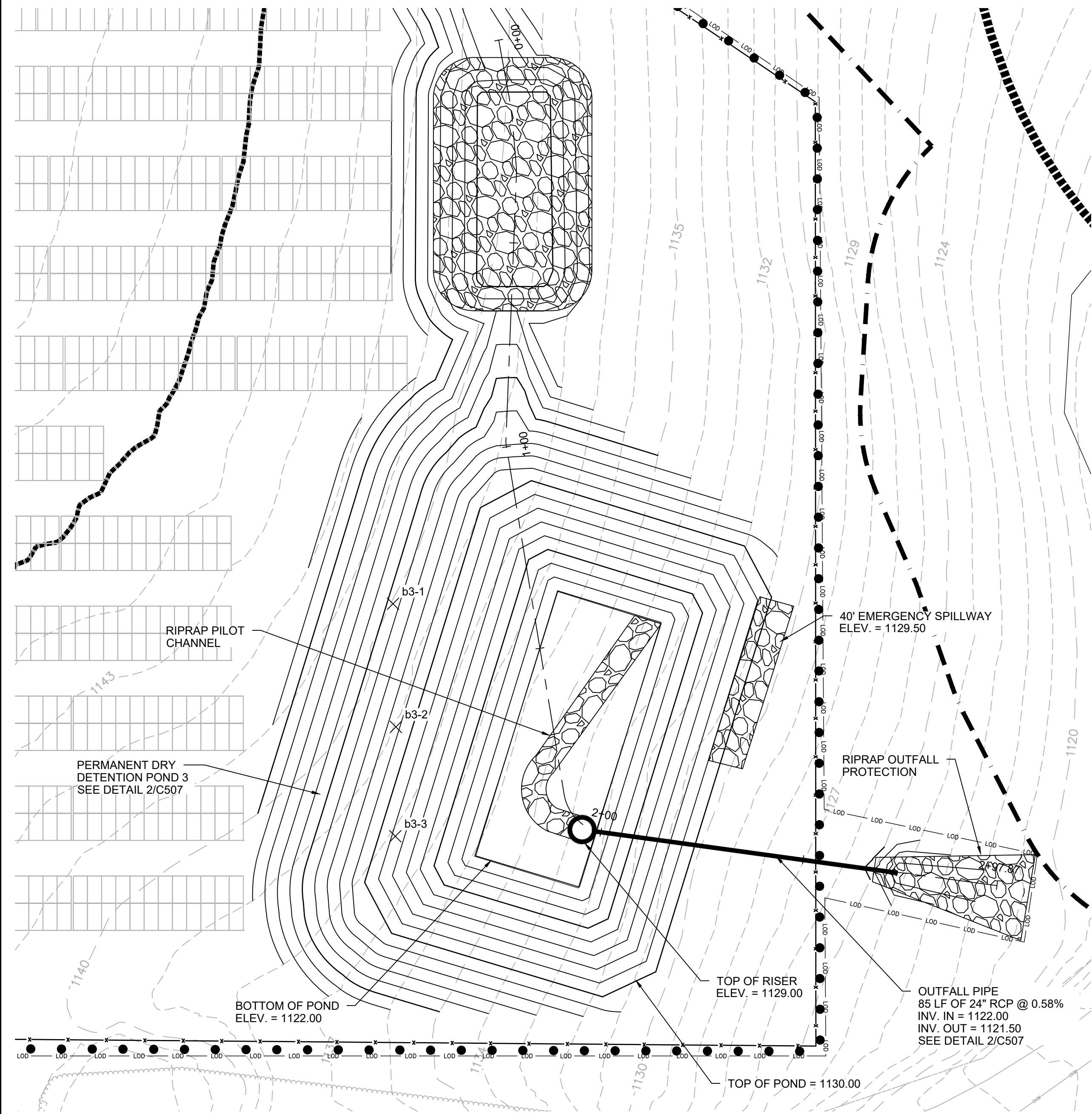
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

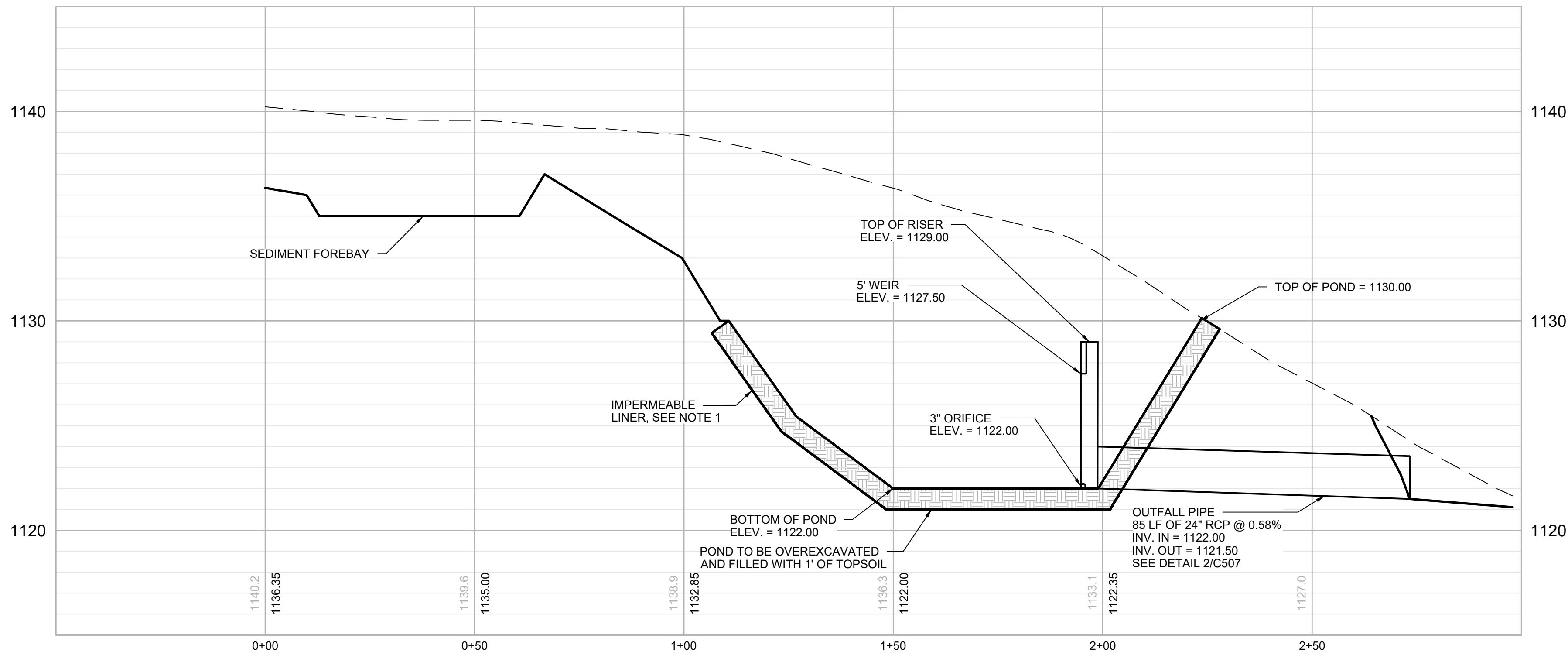
PERMANENT POND DETAILS
AND CROSS SECTIONS

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'
DRAWING NO.		

C421



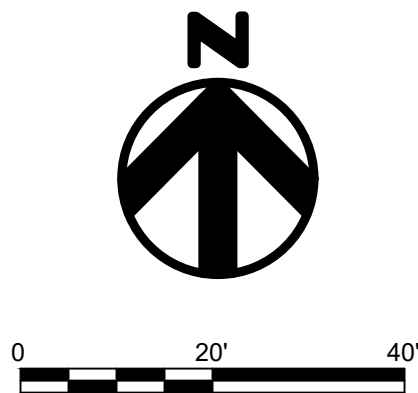
PERMANENT DRY
DETENTION POND 3



PERMANENT DRY
DETENTION POND 3

H: 1" = 20'; V: 1" = 4'

NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



NOT FOR
CONSTRUCTION

LITCHFIELD
SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
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LITCHFIELD, CT

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9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

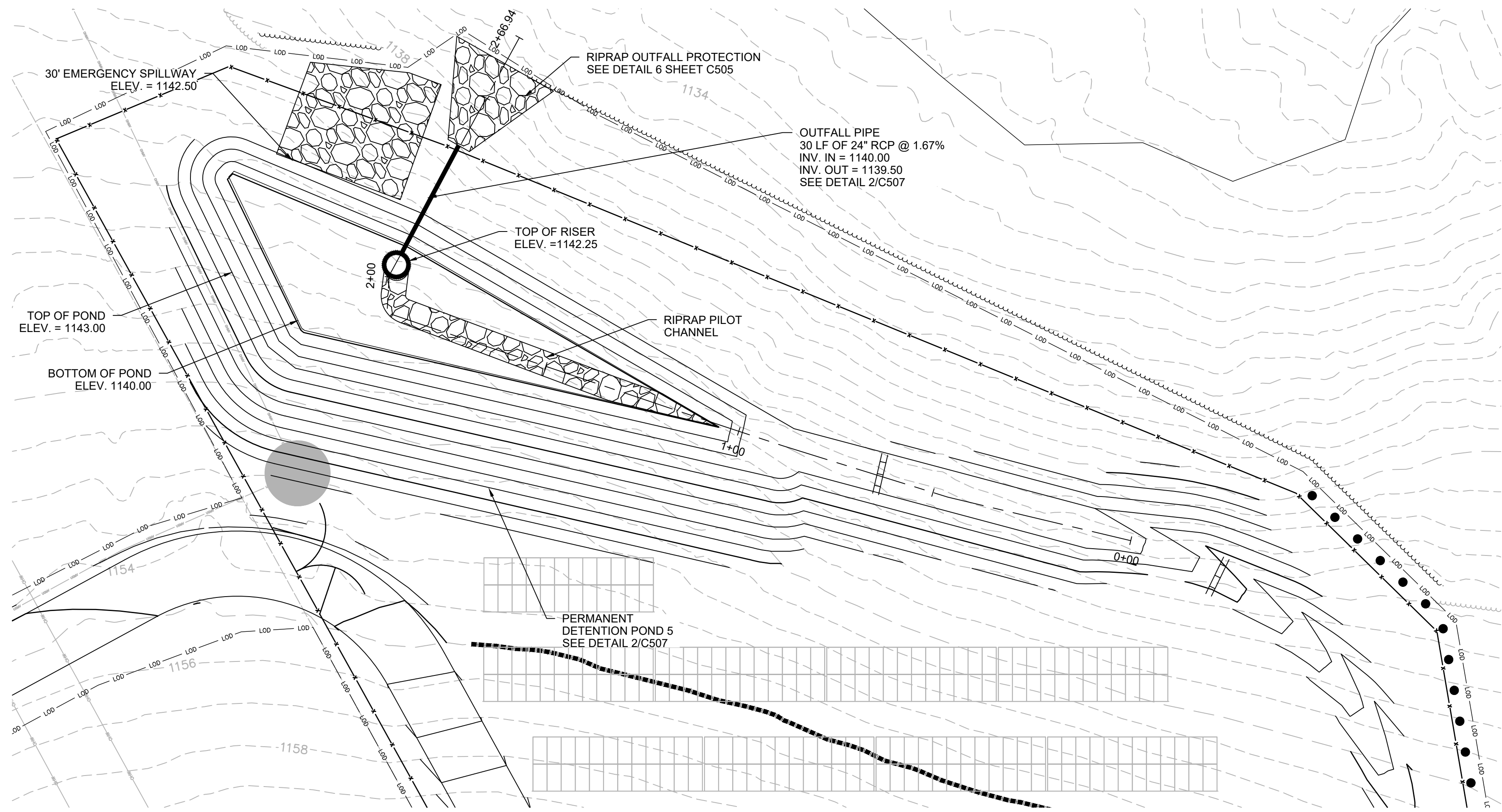
**PERMANENT POND DETAILS
AND CROSS SECTIONS**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'

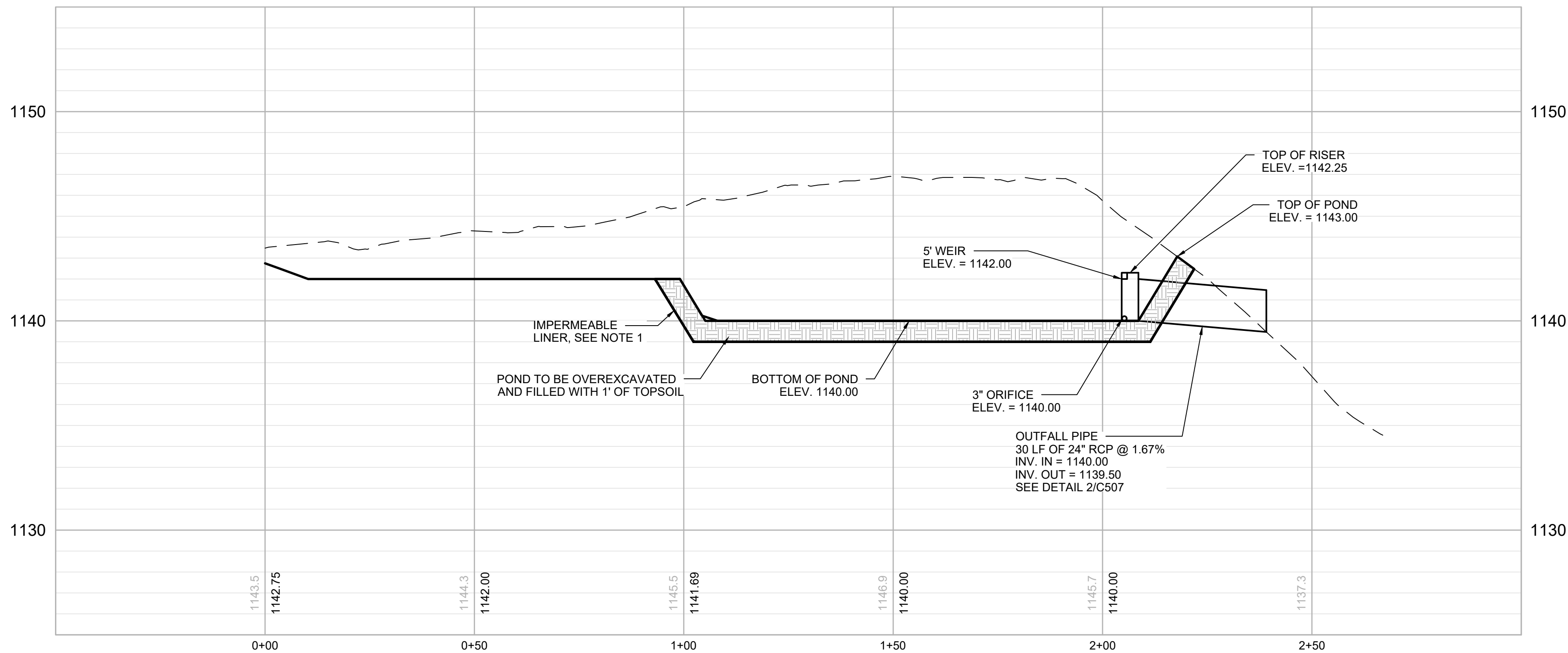
DRAWING NO.

C422

- NOTE:
- FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADE DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.



PERMANENT DRY
DETENTION POND 5

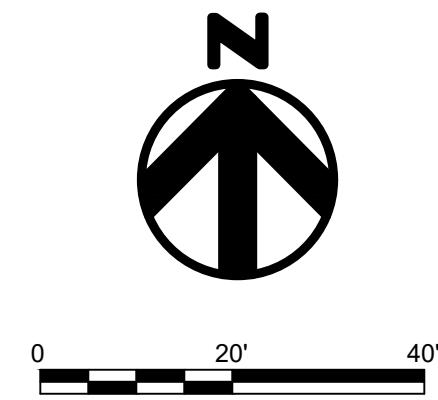


PERMANENT DRY
DETENTION POND 5

H: 1" = 20'; V: 1" = 4'

NOTE:

- FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADE DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.



HR



NOT FOR
CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
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10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

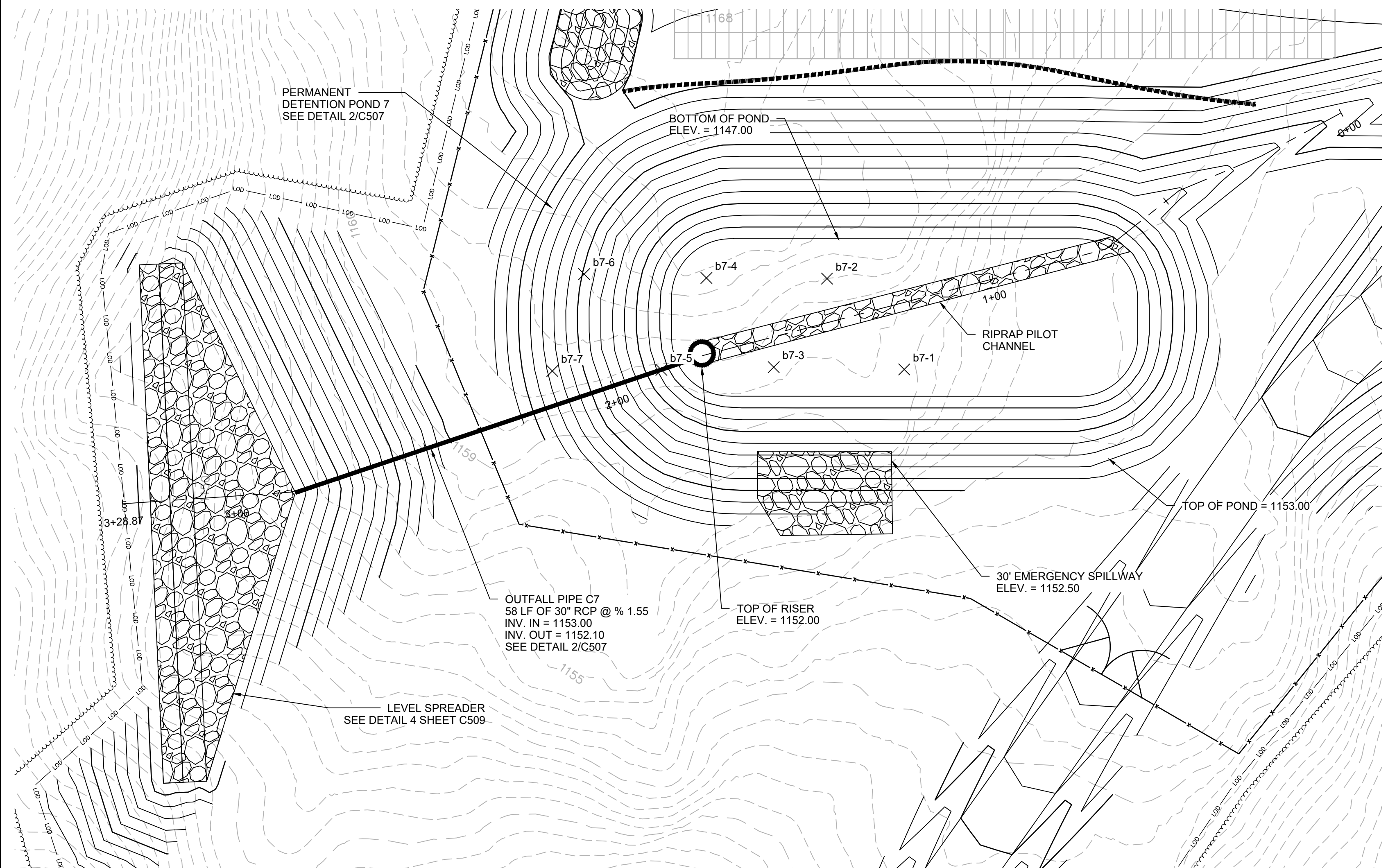
SHEET TITLE:

PERMANENT POND DETAILS AND CROSS SECTIONS

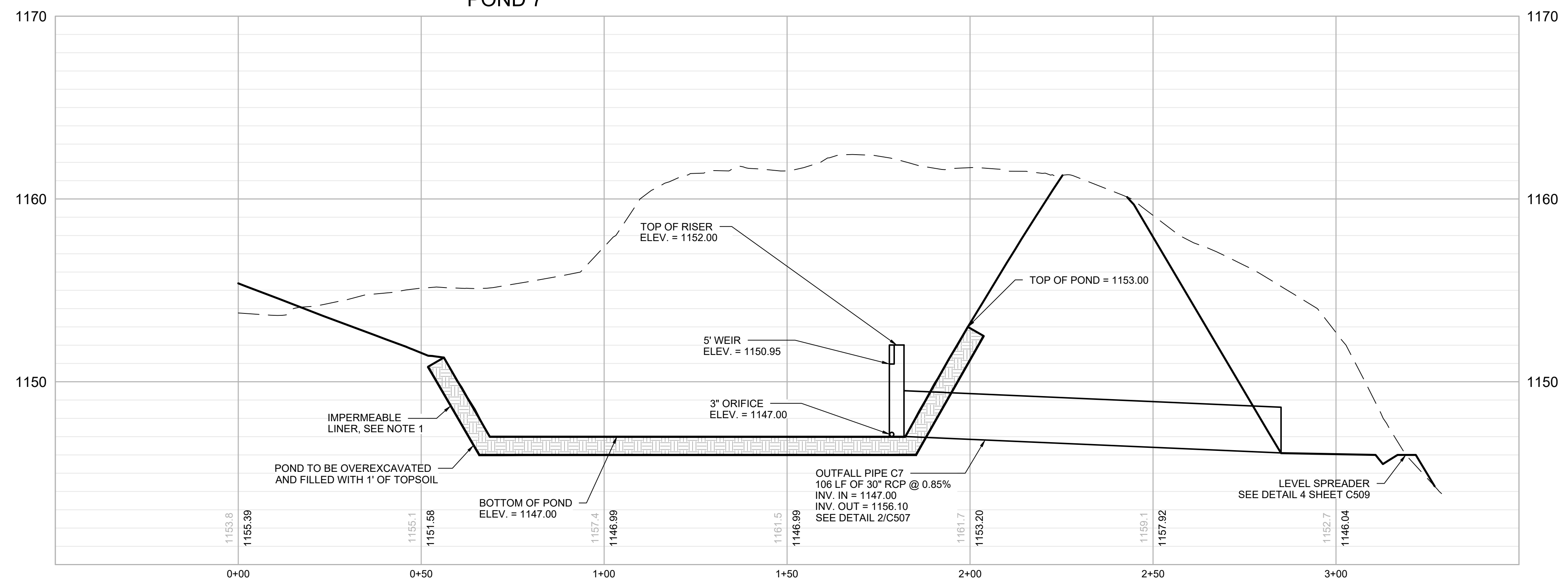
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'
DRAWING NO.		

C423

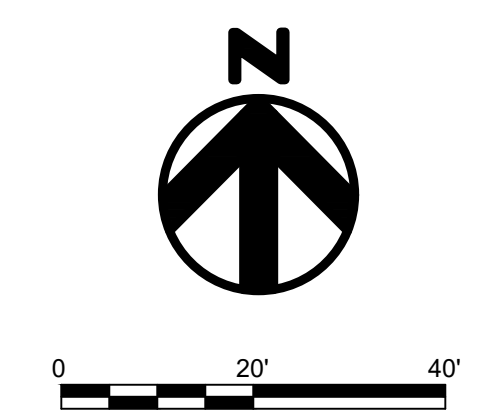
NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



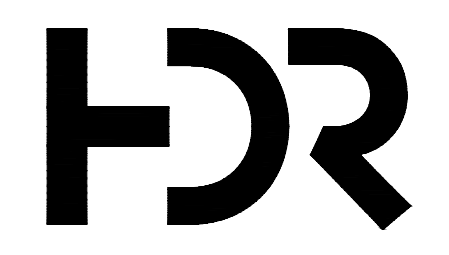
PERMANENT DRY DETENTION
POND 7



PERMANENT DRY DETENTION POND 7
H: 1" = 20'; V: 1" = 4'



NOTE:
1. FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.



NOT FOR
CONSTRUCTION

LITCHFIELD
SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

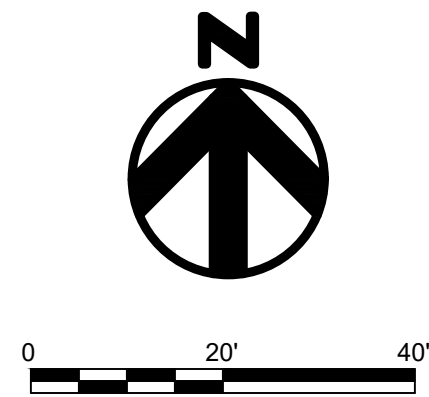
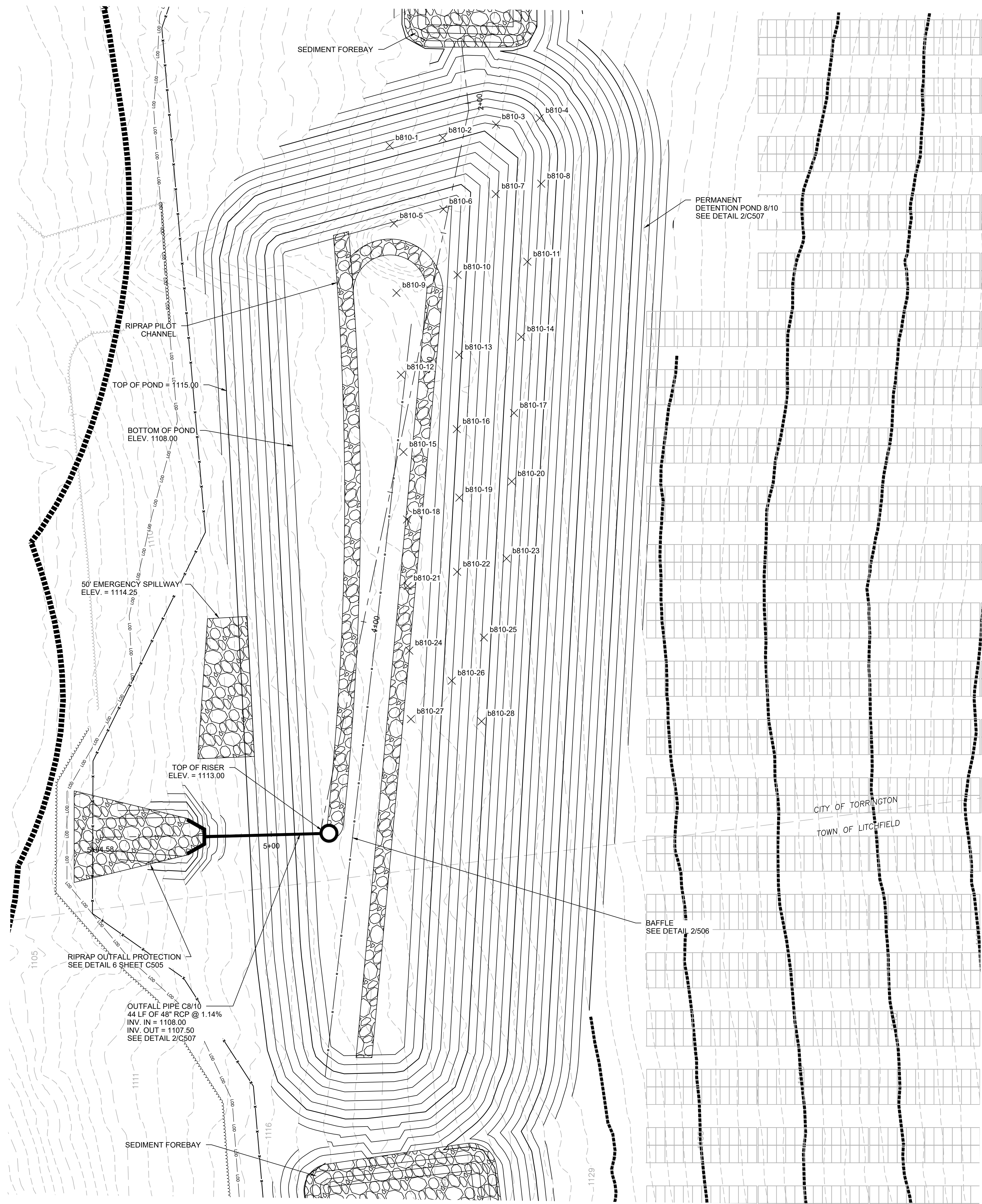
**PERMANENT POND DETAILS
AND CROSS SECTIONS**

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'

DRAWING NO.

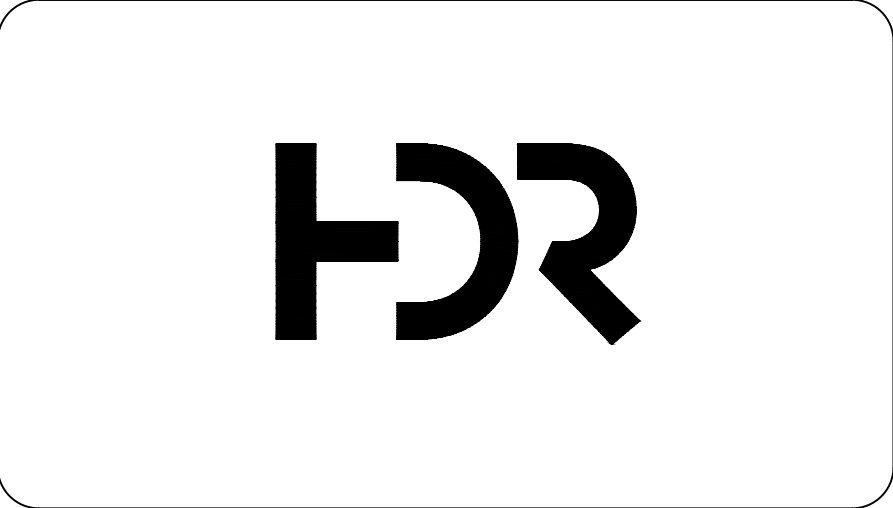
C424

NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



NOTE:

1. FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.



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LITCHFIELD
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LITCHFIELD, CT

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9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

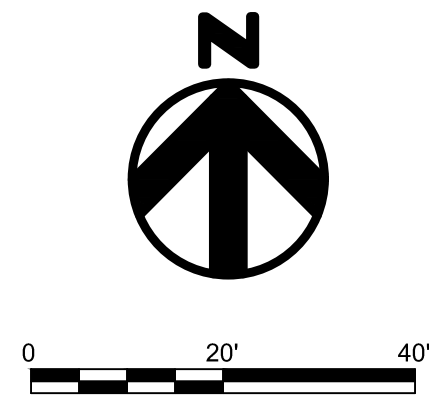
PERMANENT POND DETAILS
AND CROSS SECTIONS

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'

DRAWING NO.

C425

NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



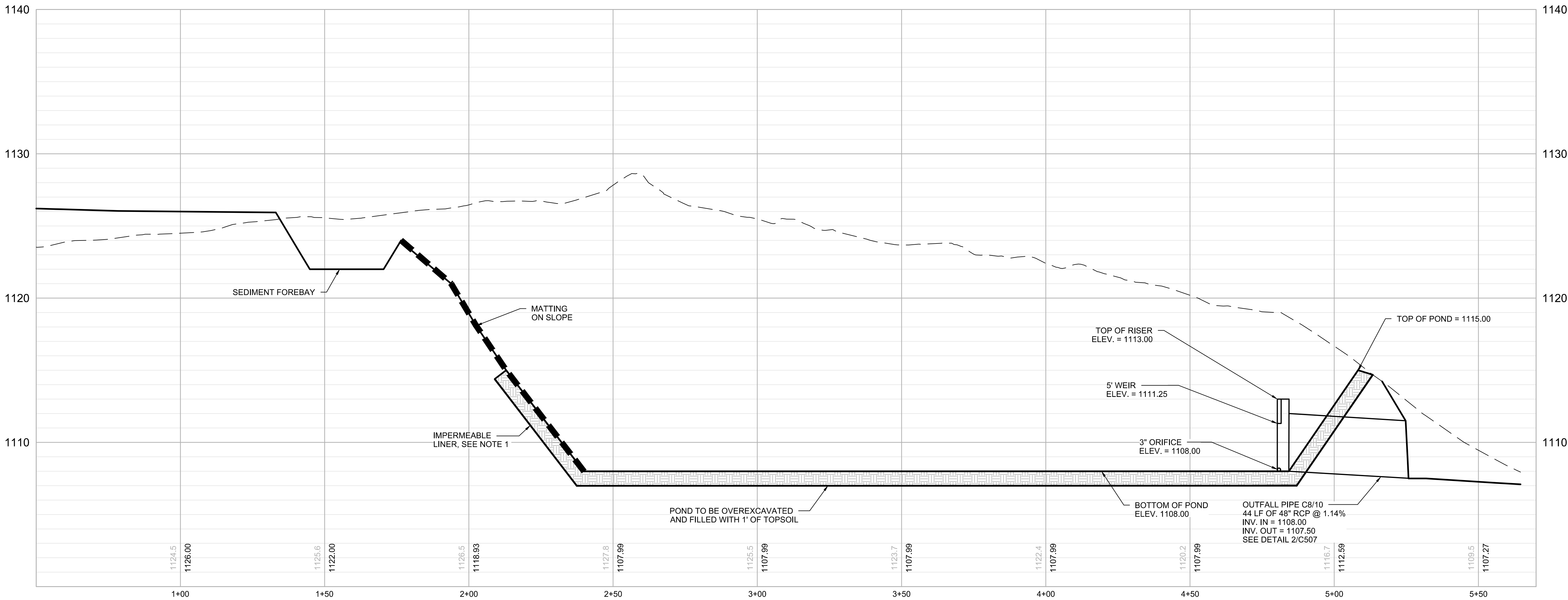
NOT FOR
CONSTRUCTION

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TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT



PERMANENT DRY
DETENTION POND 8/10
H: 1" = 20'; V: 1" = 4'

- NOTE:
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9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

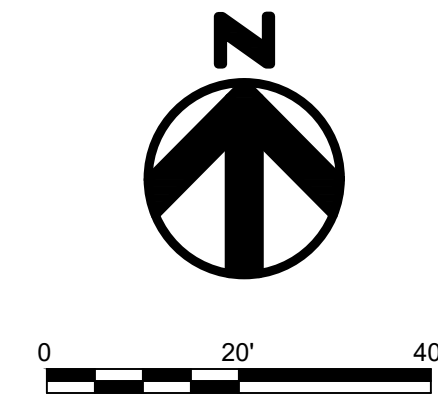
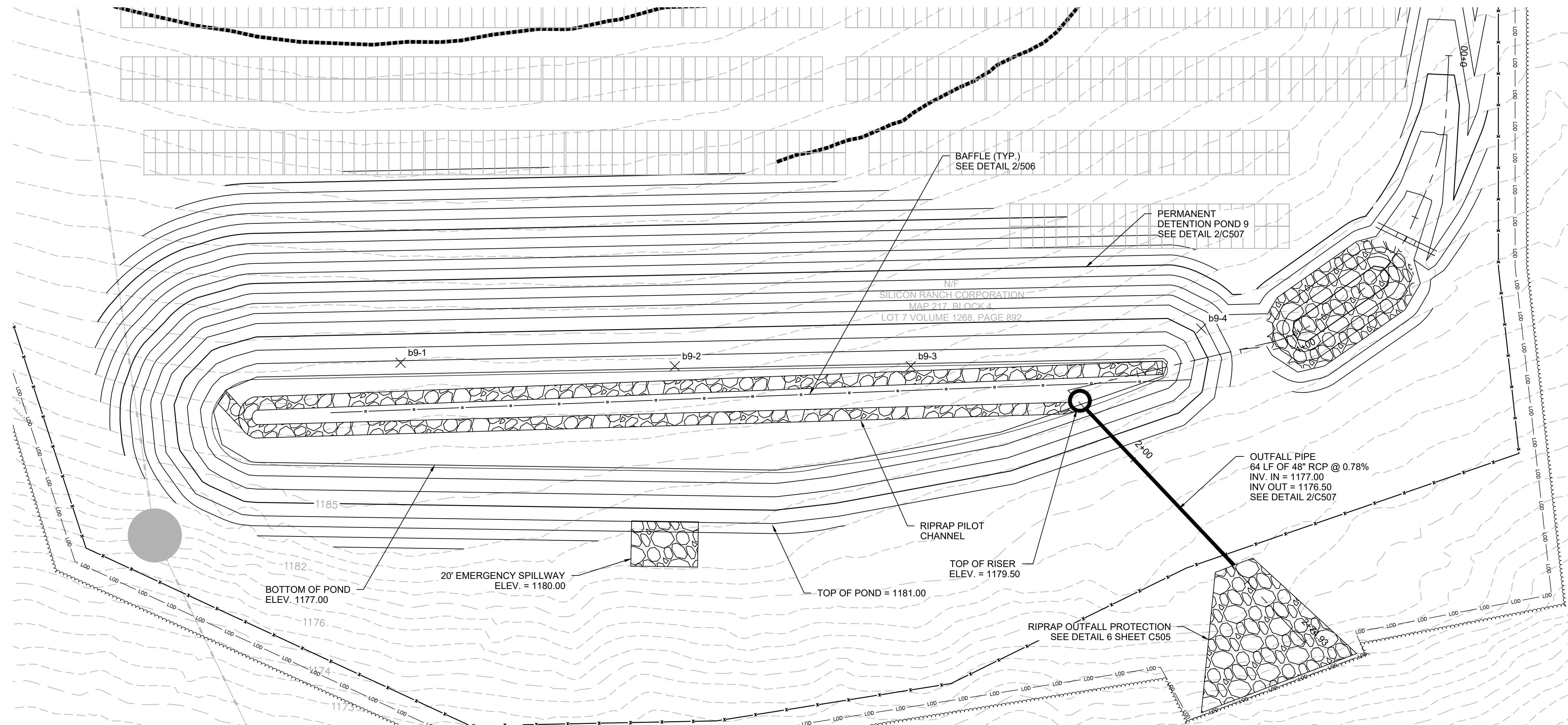
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PERMANENT POND DETAILS
AND CROSS SECTIONS

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'
DRAWING NO.		

C426

NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



NOT FOR
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LITCHFIELD SOLAR

2-298 ROSSI RD
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LITCHFIELD, CT

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8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

PERMANENT POND DETAILS AND CROSS SECTIONS

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'
DRAWING NO.		

C427

PERMANENT DRY DETENTION POND 9

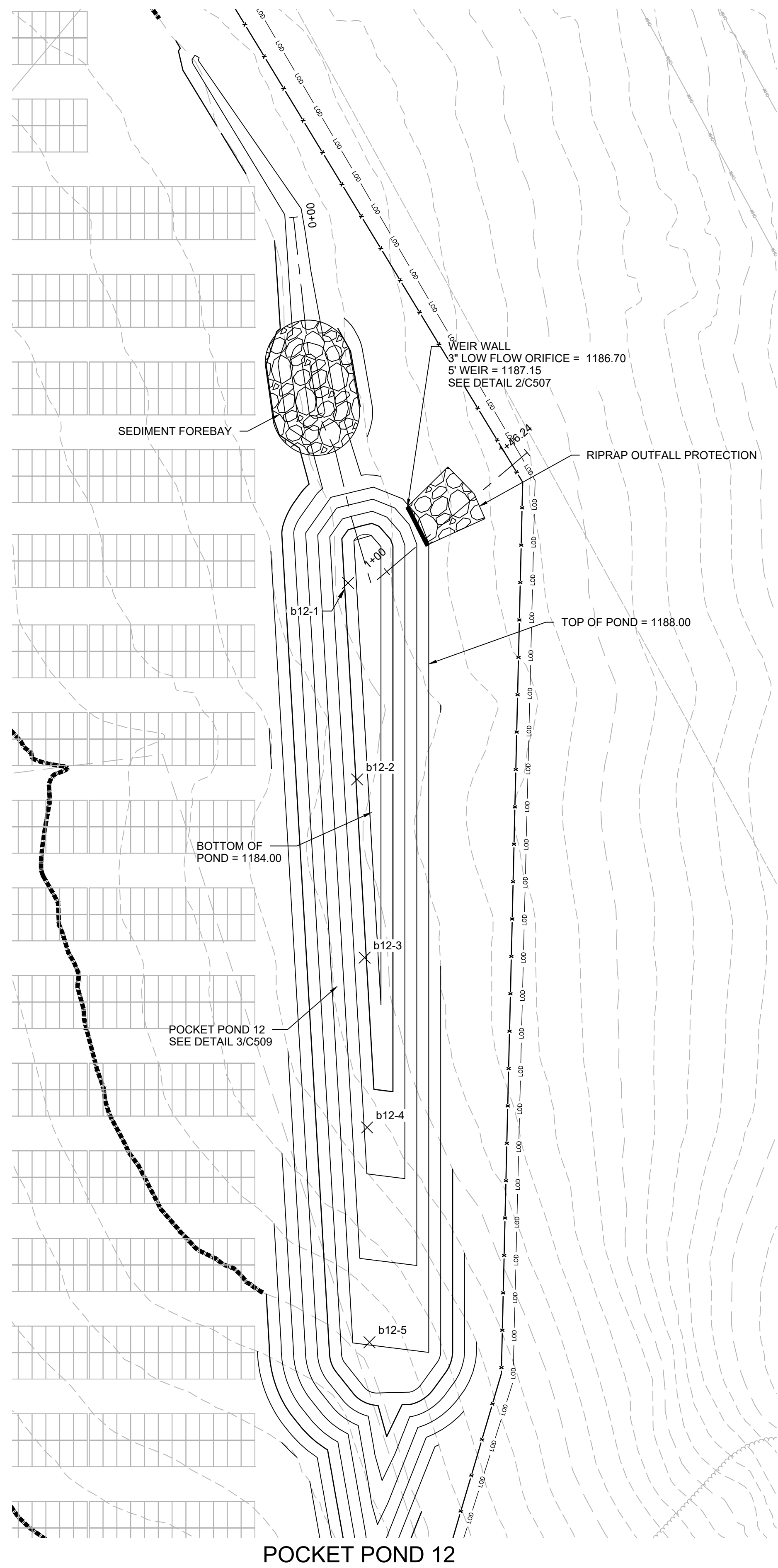
PERMANENT DRY DETENTION POND 9

H: 1" = 20'; V: 1" = 4'

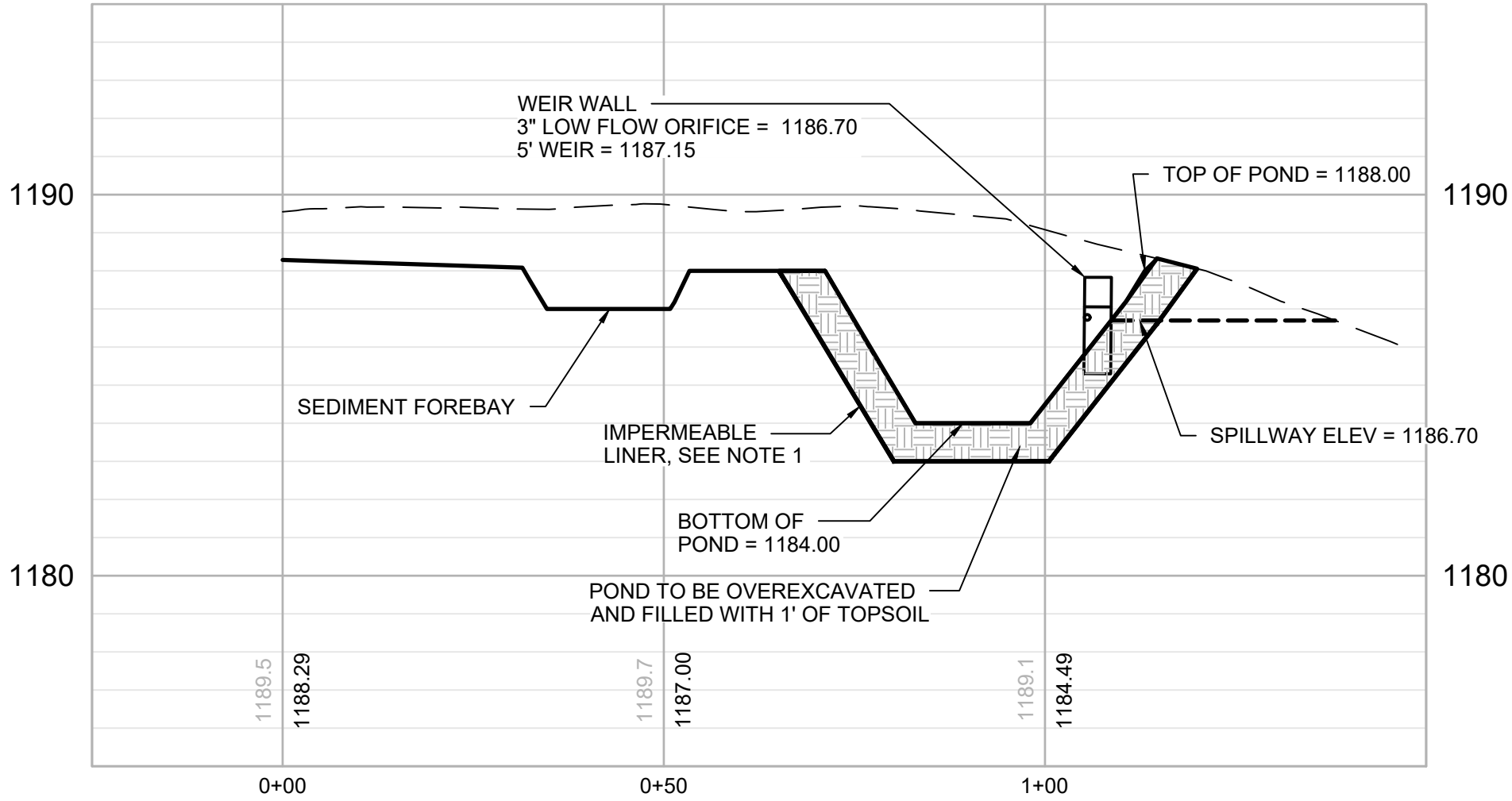
NOTE:

- FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

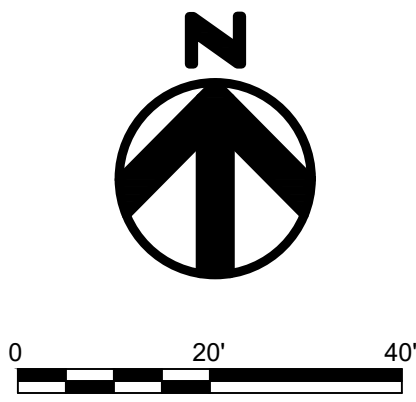
NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



POCKET POND 12



POCKET POND 12
H: 1" = 20'; V: 1" = 4'



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8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

PERMANENT POND DETAILS
AND CROSS SECTIONS

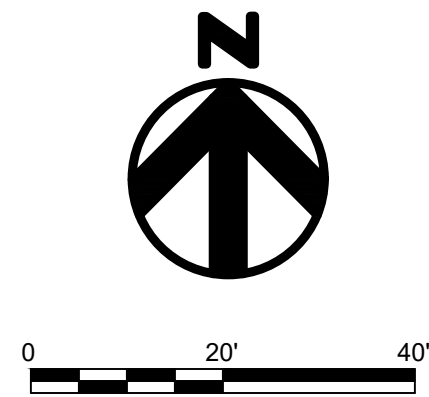
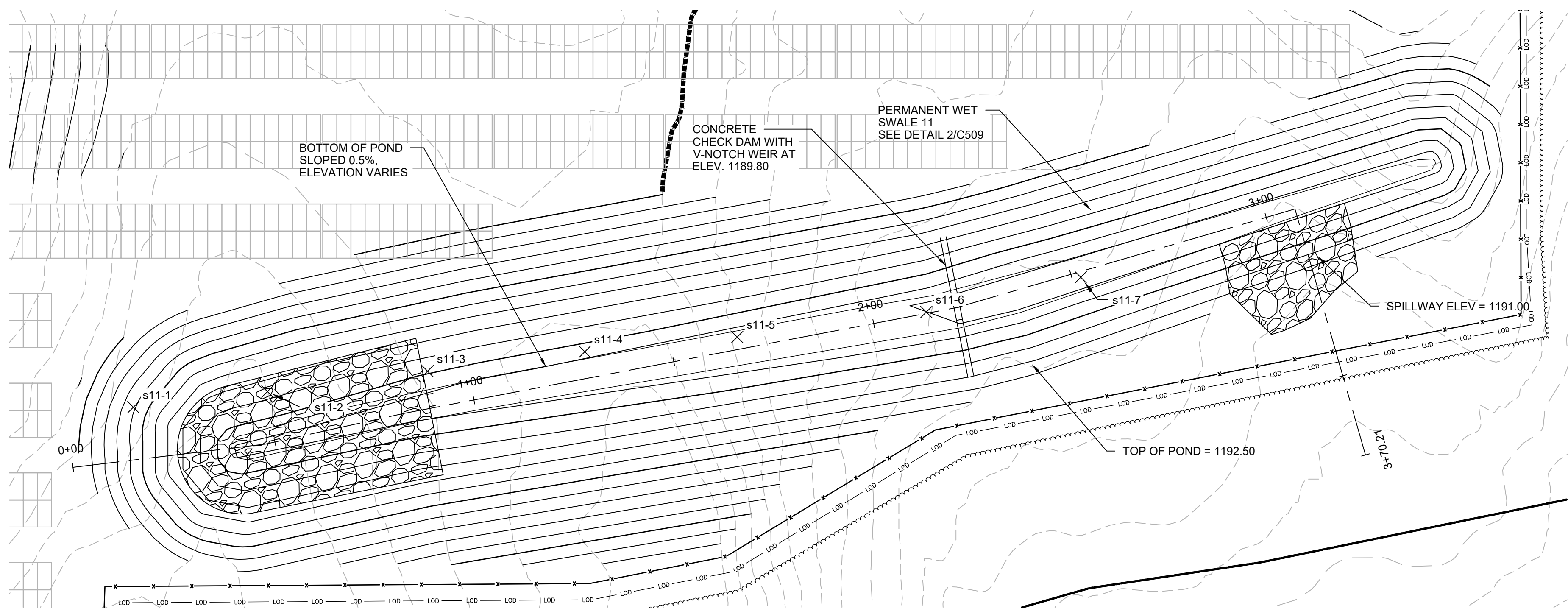
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'

DRAWING NO.

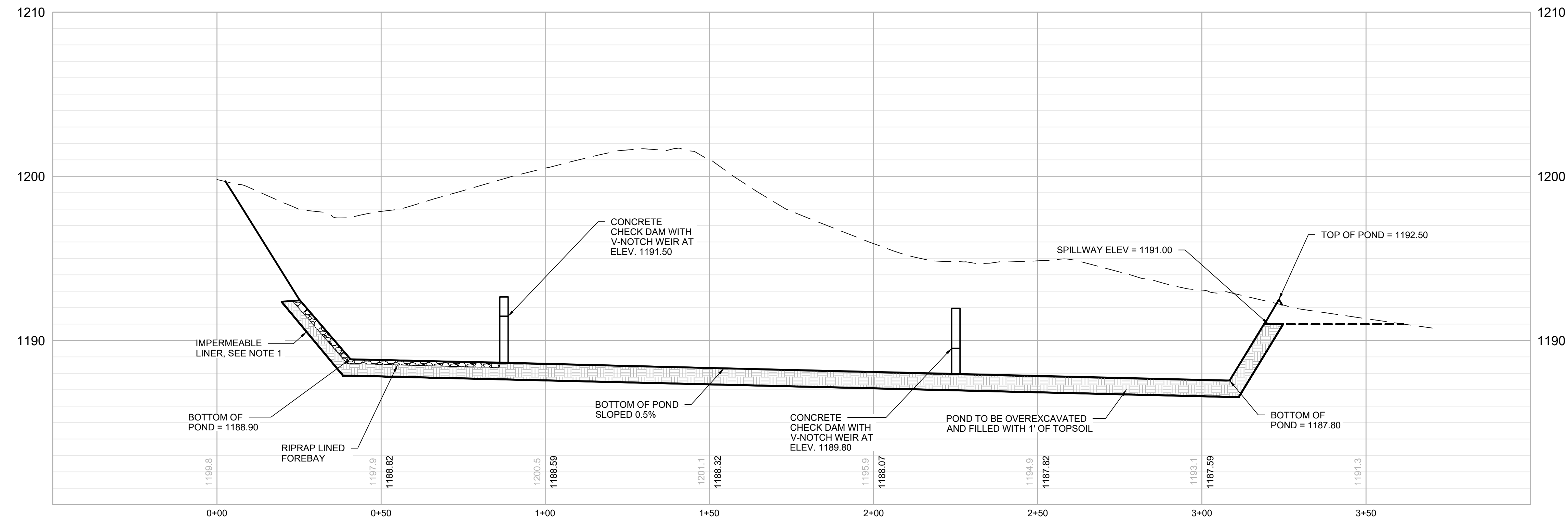
C428

NOTE:
1. FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



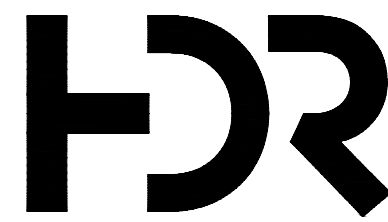
WET SWALE 11



WET SWALE 11
H: 1" = 20'; V: 1" = 4'

NOTE:
1. FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



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LITCHFIELD
SOLAR

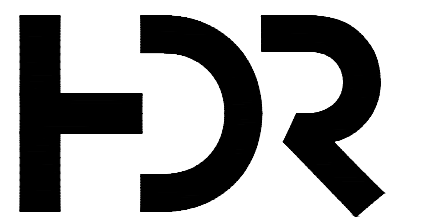
2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
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8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:		
PERMANENT POND DETAILS AND CROSS SECTIONS		
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'
DRAWING NO.		
C429		



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2-298 ROSSI RD
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LAT: 41.794157°N
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LITCHFIELD, CT

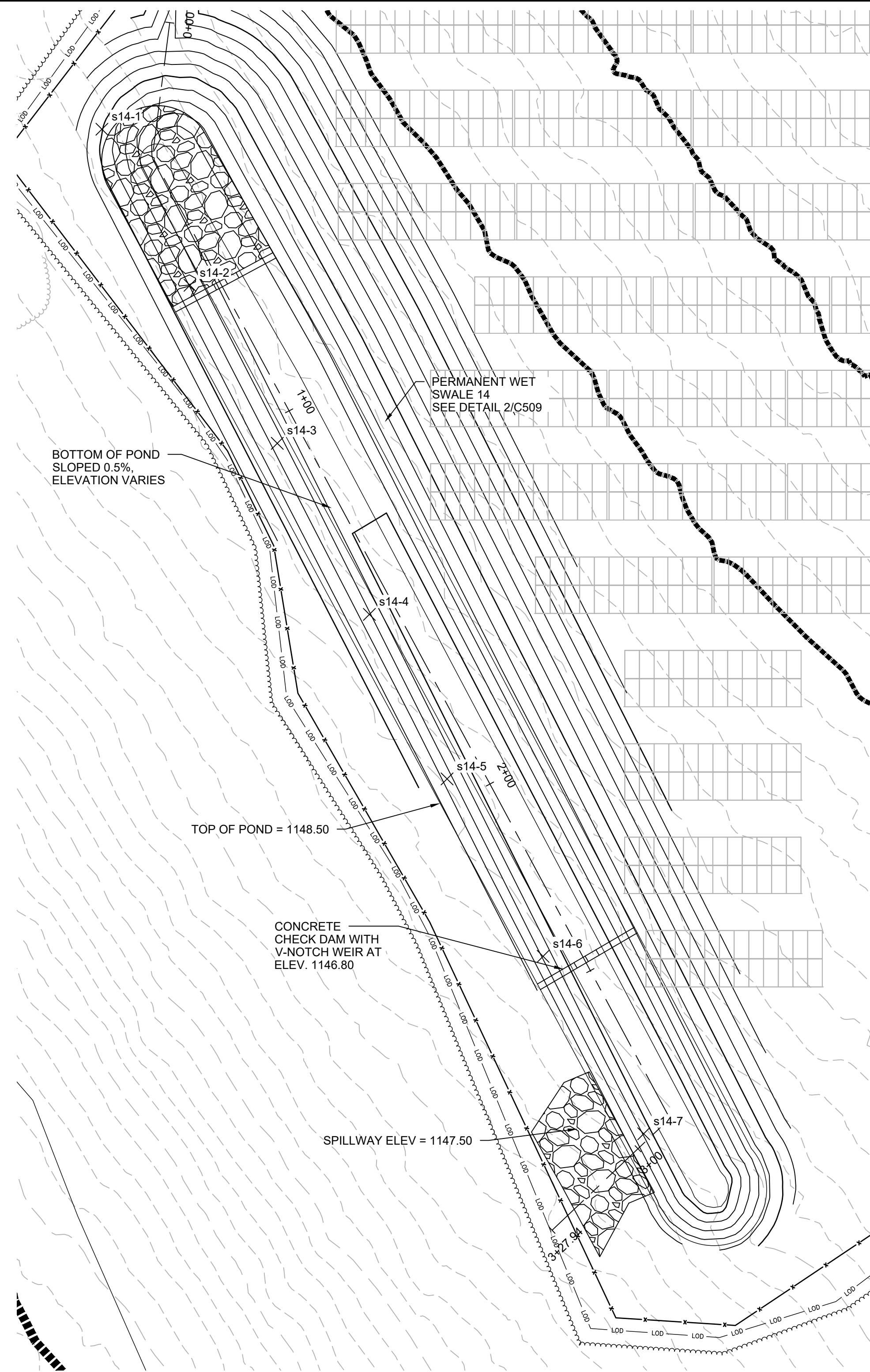
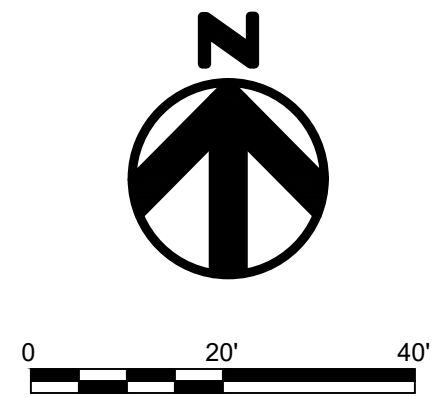
12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
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8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

PERMANENT POND DETAILS AND CROSS SECTIONS

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=20'
DRAWING NO.		

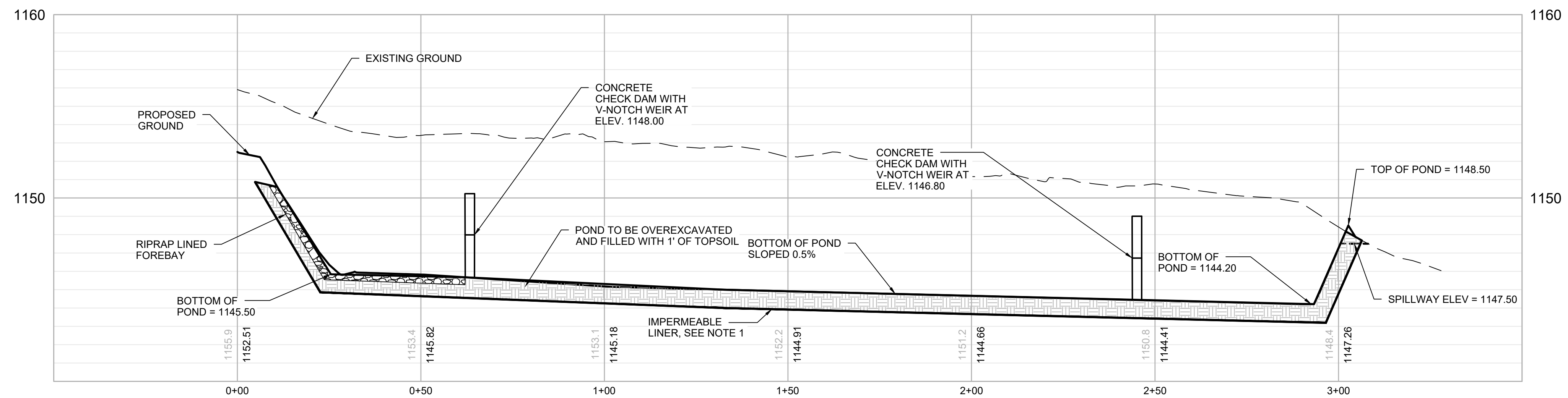
C430



NOTE:

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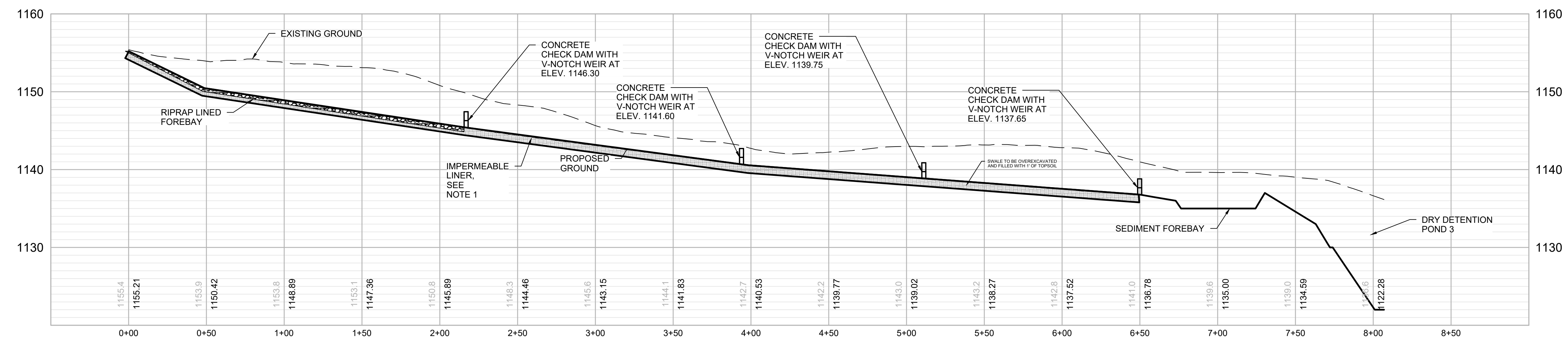
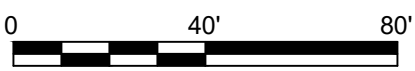
WET SWALE 14



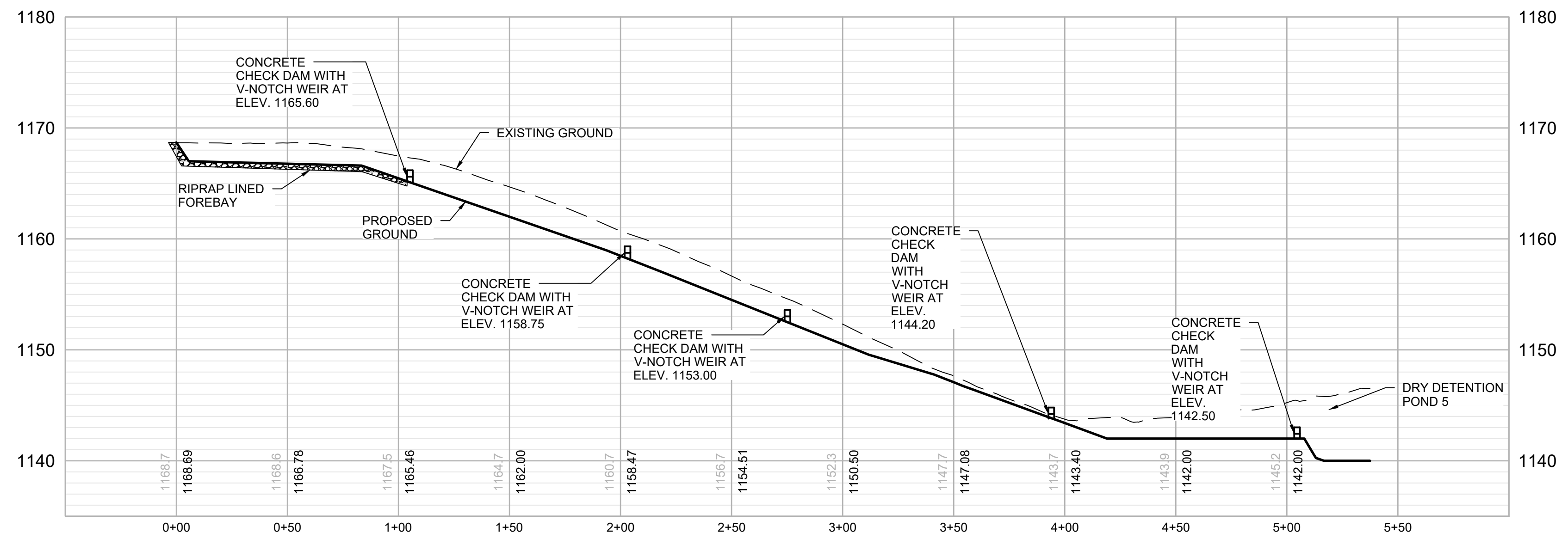
WET SWALE 14

H: 1" = 20'; V: 1" = 4'

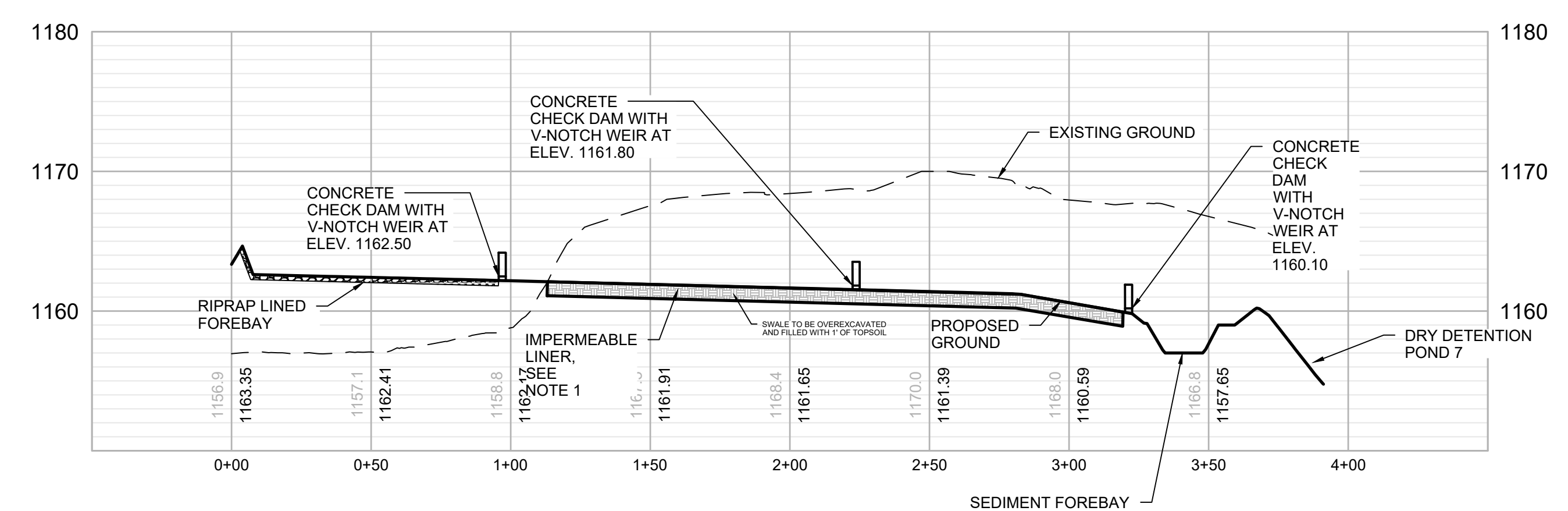
NOTE: ALL BASIN SIDE/TIE-IN SLOPES ARE 3H:1V



WET SWALE 3
H: 1" = 40'; V: 1" = 8'

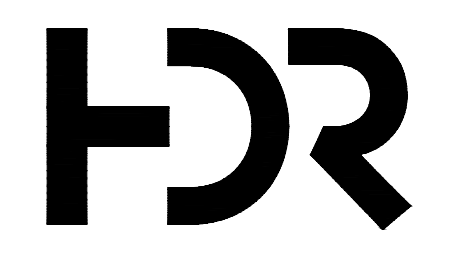


WET SWALE 5
H: 1" = 40'; V: 1" = 8'



WET SWALE 7
H: 1" = 40'; V: 1" = 8'

NOTE:
1. FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.



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LITCHFIELD SOLAR

2-298 ROSSI RD
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LITCHFIELD, CT

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REV. NO	DESCRIPTION	DATE

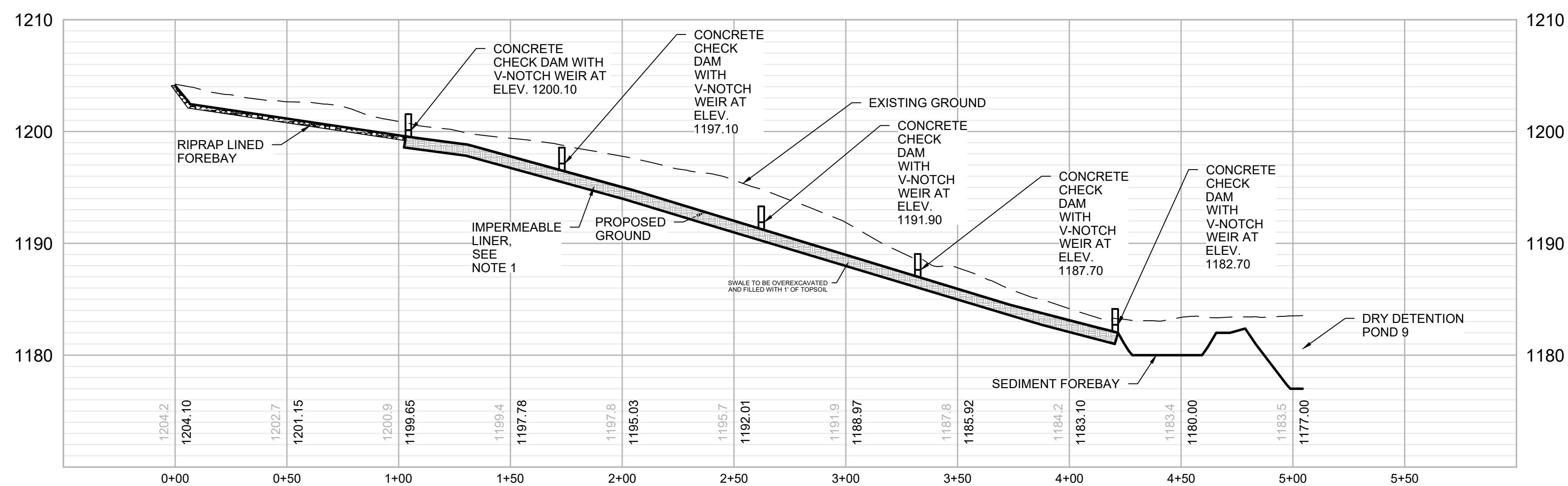
SHEET TITLE:

WET SWALE PROFILES

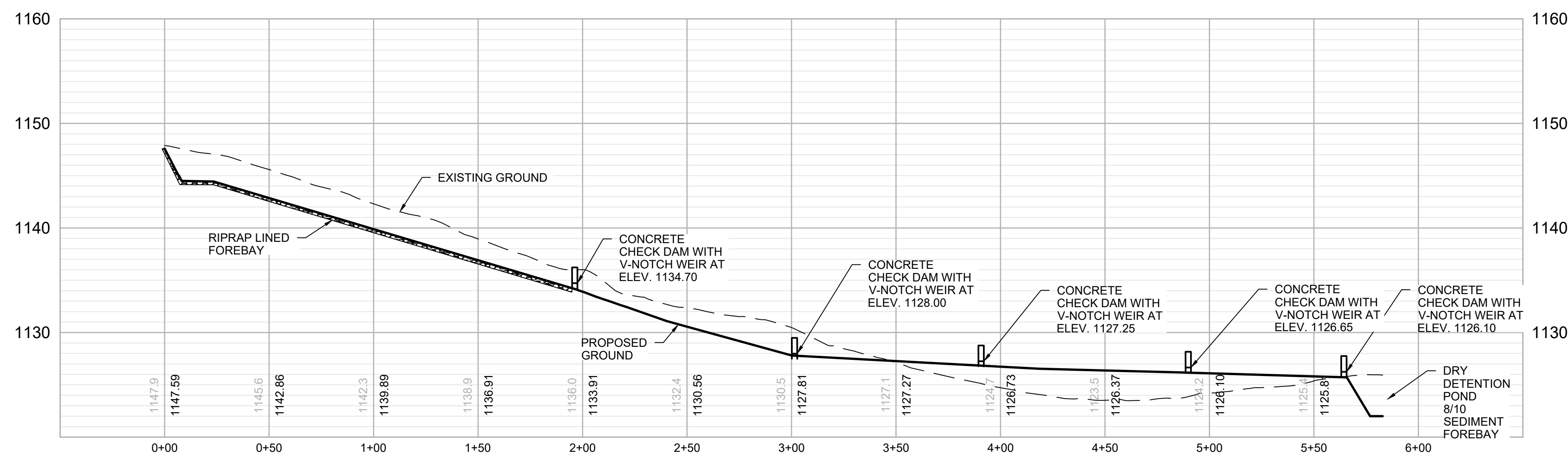
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=40'

DRAWING NO.

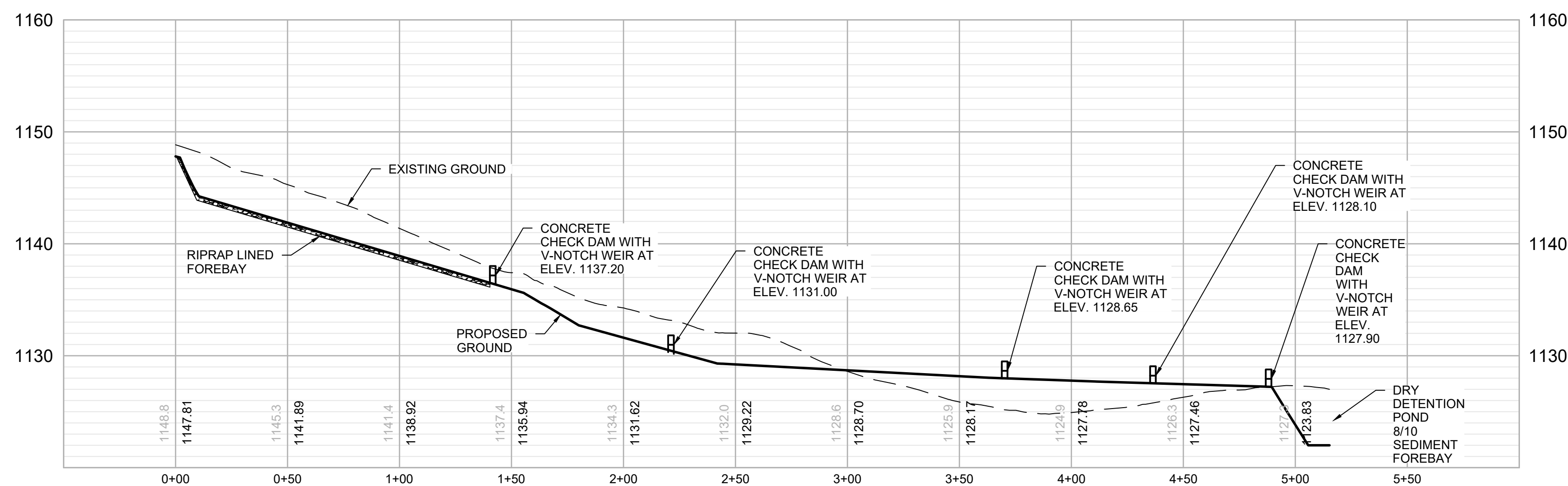
C431



WET SWALE 9
H: 1" = 40'; V: 1" = 8'



WET SWALE 8/10a
H: 1" = 40'; V: 1" = 8'



WET SWALE 8/10b
H: 1" = 40'; V: 1" = 8'

NOTE:

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LITCHFIELD, CT

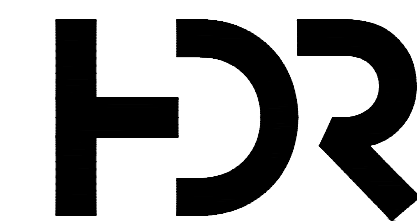
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11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

WET SWALE PROFILES

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=40'
DRAWING NO.		

C432



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CONSTRUCTION

LITCHFIELD SOLAR

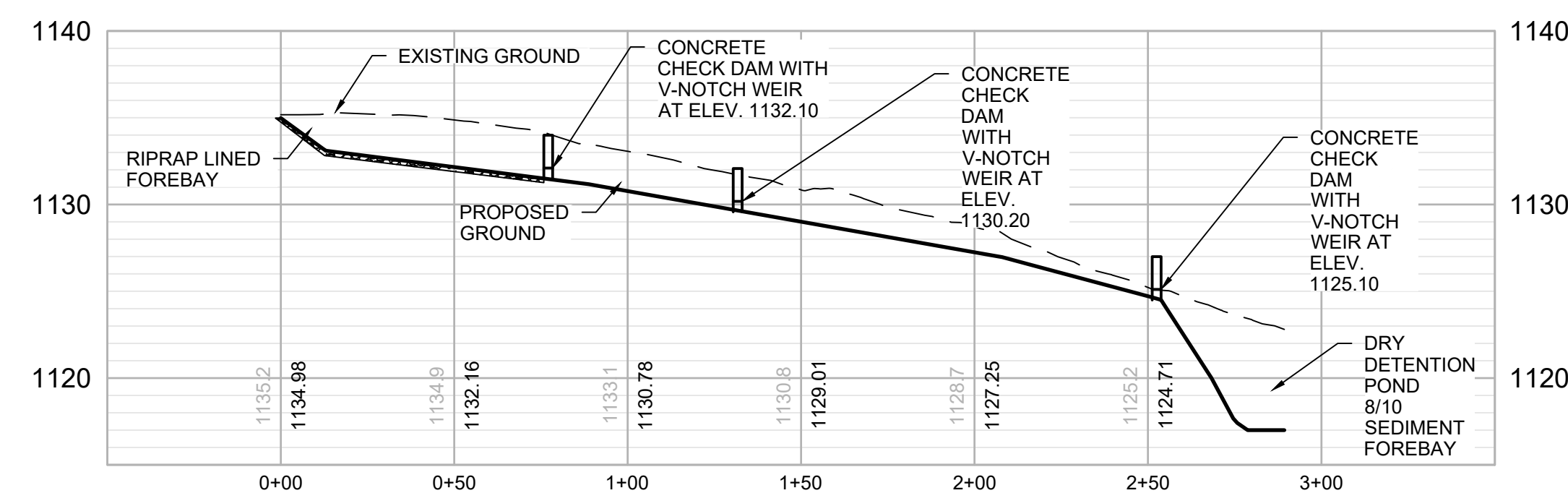
2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



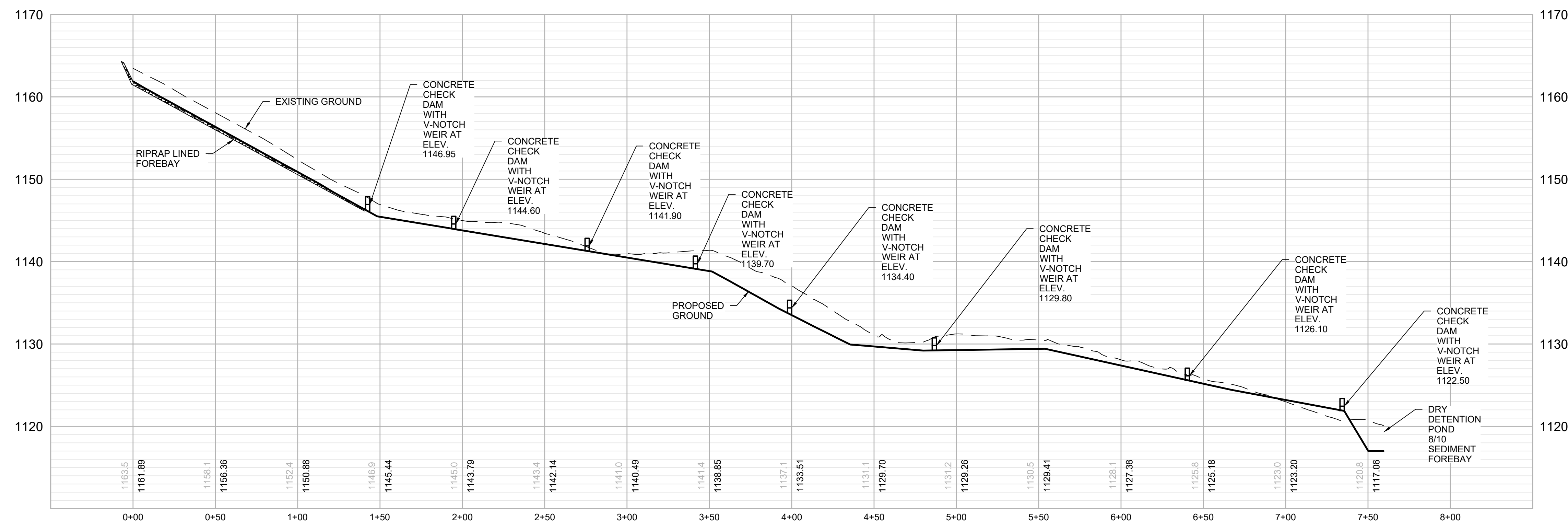
LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
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10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE: WET SWALE PROFILES		
PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=40'
DRAWING NO. C433		



WET SWALE 8/10c
H: 1" = 40'; V: 1" = 8'



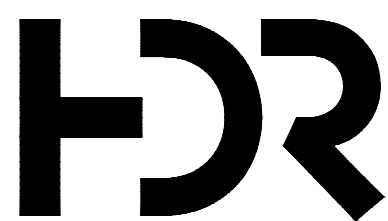
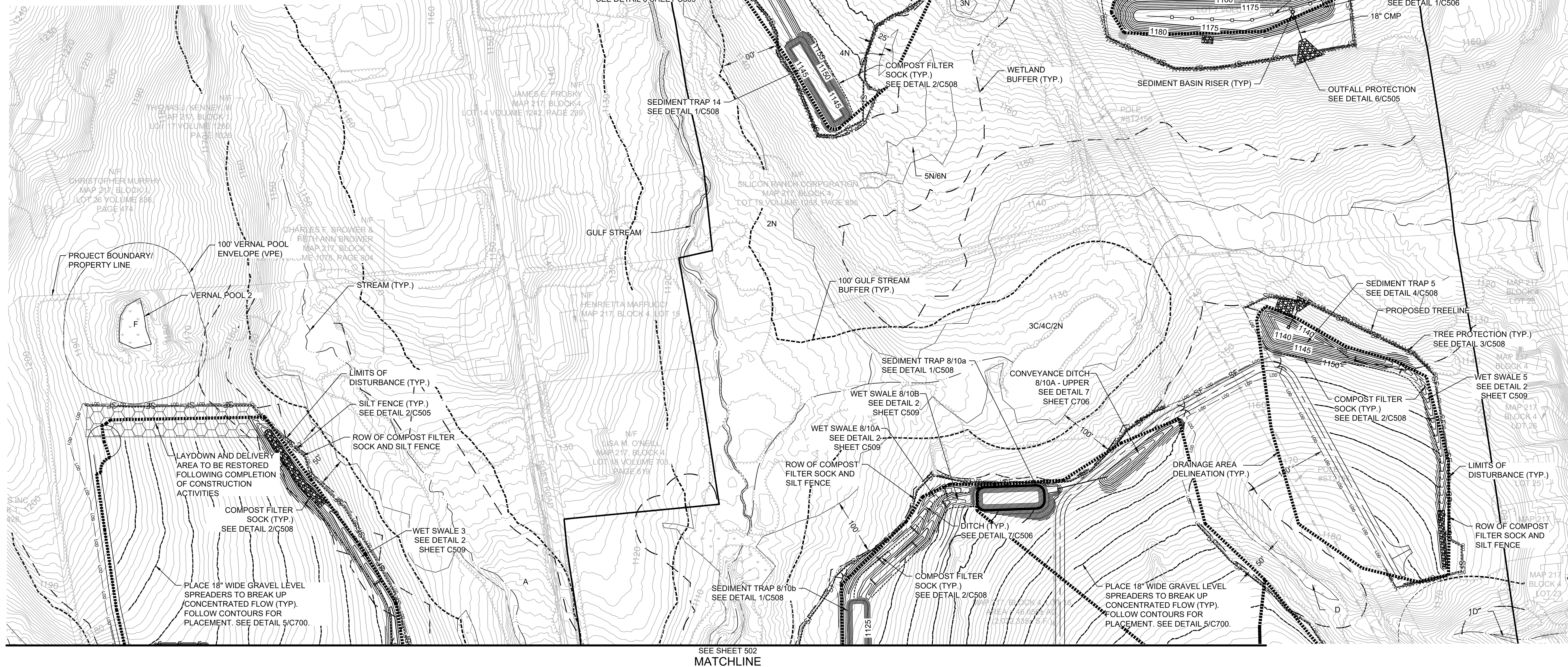
WET SWALE 8/10d
H: 1" = 40'; V: 1" = 8'

NOTE:

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1. SEE SHEET C101 FOR OVERALL PLAN.
2. ALL RISERS AND BARRELS IN SEDIMENT BASINS ARE CMP.
3. LEVEL SPREADER TRENCHES MUST BE STAKED BY A SURVEYOR TO ENSURE THEY ARE BUILT LEVEL.
4. SEE SHEET C550 FOR CONSTRUCTION PHASING AREAS.
5. FOR BASINS AND SWALES EXCAVATED INTO ROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM ACCIDENT DRAINAGE RUNNING DOWN-SLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

1. CONTACT THE CT DEEP INSPECTOR TO SCHEDULE AN ON-SITE PRE-CONSTRUCTION CONFERENCE TO DISCUSS EROSION CONTROL MEASURES.
2. INSTALL THE CONSTRUCTION ENTRANCE, TRAP PROTECTION FENCE, SILT FENCE AND SILT FENCE STONE OUTLETS AS SHOWN ON PLANS. PRIOR TO ANY SITE DISTURBANCE ACTIVITIES (CLEARING, GRUBBING, OR GRADING), PERFORM CLEARING FOR SILT FENCE INSTALLATION - REMOVE ALL GRASS AND WEEDS, AND/OR INSTALLATION OF DITCHES AND BASINS AS NECESSARY TO FACILITATE CONSTRUCTION.
3. DEVIATIONS FROM THE APPROVED PLAN MUST BE SUBMITTED TO AND APPROVED BY CT DEEP. CONTACT THE INSPECTOR FOR AN ON-SITE INSPECTION OF THE INSTALLED TREE PROTECTION FENCE.
4. ALL FIELD NON-WOODED AREAS THAT ARE NOT TO BE GRADED (E.G. FIELDS) SHALL BE MOVED TO FACILITATE PLAN INSTALLATION BUT SHALL BE OTHERWISE LEFT UNDISTURBED TO MAINTAIN EXISTING DRAINAGE PATTERNS WHERE STABLE. ANY SEVERELY ERODED DRAINAGEWAYS SHALL BE GRADED BACK, ROUGHENED, MATTED AND SEEDED.
5. INSTALL BASINS AND TRAPS. FOR BASINS AND TRAPS EXCAVATED INTO BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE NOTE AND/OR DITCH BROW AND MUST BE PROTECTED FROM UPSTREAM DRAINAGE RUNNING DOWNWARDS INTO THE BASIN. COVER WITH TOPSOIL. UTILIZE EROSION CONTROL MATTING, AND SEED. UPON INSTALLATION OF THE BASINS, INSTALL DIVERSION STRUCTURES TO THE DITCHES TO PREVENT FLOODING OF THE BASINS. SEED SHALL BE LINED IN THE SAME MANNER. STABILIZE IMMEDIATELY UPON REACHING FINAL GRADE. PROVIDE TEMPORARY CULVERT FOR CROSSING EXISTING DRAINAGE AREAS.
6. INSTALL REMAINING EROSION CONTROL MEASURES AS INDICATED ON CONSTRUCTION DOCUMENTS TO FACILITATE SEDIMENT CONTROL PRIOR TO GRADING, CLEARING ONLY AS NECESSARY TO INSTALL THESE BEST MANAGEMENT PRACTICES (BMPs).
7. INSPECT ALL EROSION CONTROL DEVICES EVERY CALENDAR WEEK AND AFTER EVERY RAINFALL PRODUCING RUNOFF TO VERIFY THAT THEY ARE FUNCTIONING PROPERLY. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED AND PLACED IN A DESIGNATED SPOIL DISPOSAL AREA APPROVED BY THE INSPECTOR.
8. CONDUCT PERIODIC INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS AND MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO ASSURE CONTINUED EFFECTIVE OPERATION OF EACH DEVICE. LEVEL SPREADERS ARE TO BE OBSERVED DAILY FOR COMPACTION BY EQUIPMENT TRAFFIC CAUSING LOW POINTS AND CONCENTRATED FLOWS. TRENCHES ARE TO BE MAINTAINED AND REPAIRED AT MINIMUM ON A WEEKLY BASIS OR MORE FREQUENTLY IF NECESSARY.
9. STABILIZE ALL GRADED AREAS WITH TEMPORARY SEEDING PER THE REQUIRED CT DEEP EROSION CONTROL MEASURES. TEMPORARY SEEDING AS GRADED AREAS ARE FINALIZED. PROVIDE 100% NORTH AMERICAN GRASS S150 OR APPROVED EQUIV MATTING ON ALL FILL SLOPES.
10. BEGIN CLEARING, GRUBBING, DEMOLITION, AND GRADING OF SITE. STABILIZE SITE PER EROSION CONTROL MEASURES. CLEARING, GRUBBING, AND GRADING SHALL BE SEPARATE AND GRUBBING CAN COMMENCE IN STAGES OF NO MORE THAN 5 ACRES AT ONCE. ONCE A 5 ACRE DISTURBANCE IS CLEARED, GRUBBED, AND GRADED, IT MUST BE SEEDER OR OTHERWISE REVEGETATED BEFORE THE NEXT STAGE OF GRUBBING. THE LEVEL SPREADER TRENCHES SHOULD BE INSTALLED DURING THIS PROCESS.



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CONSTRUCTION

LITCHFIELD
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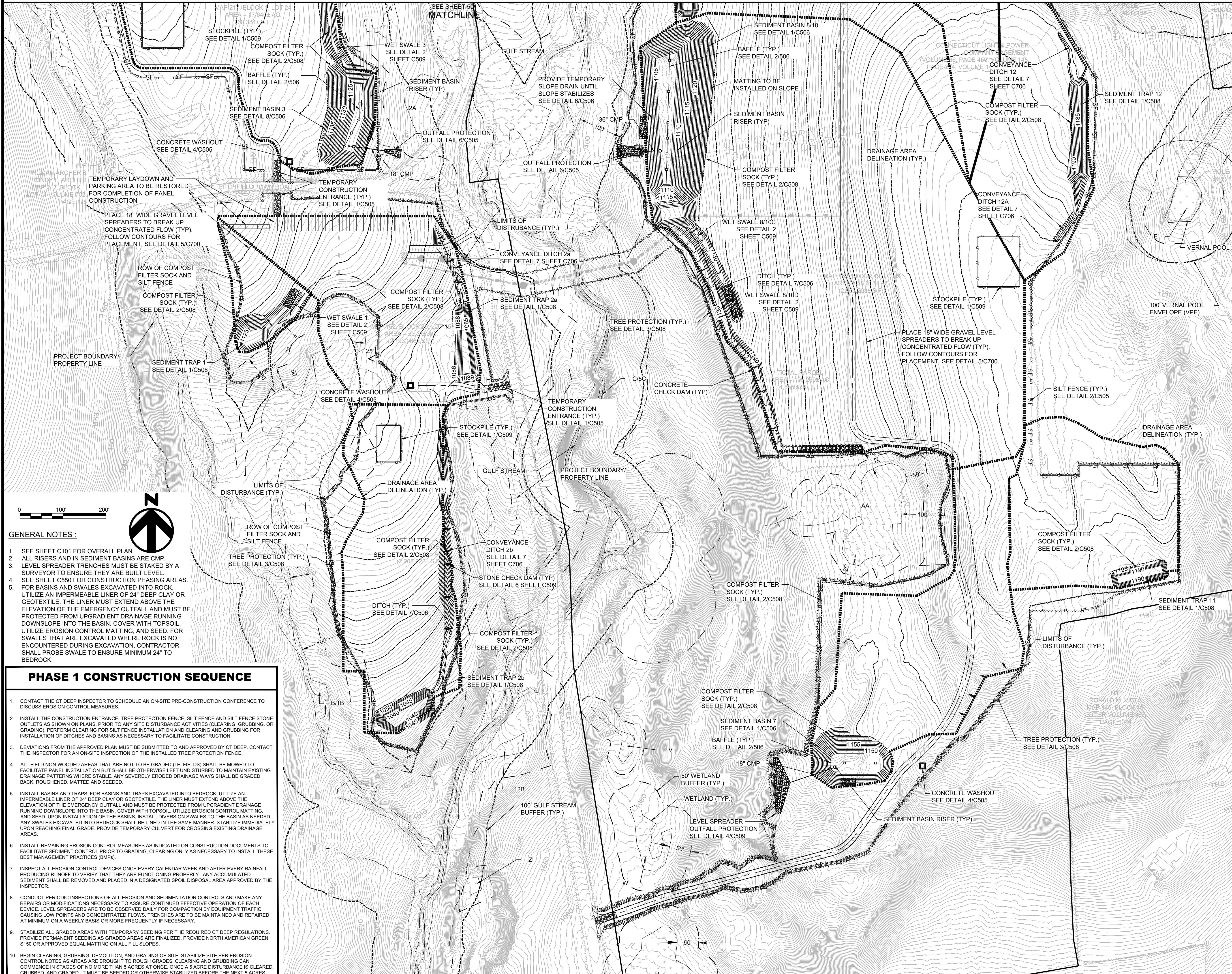
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10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

EROSION AND
SEDIMENTATION CONTROL
PHASE 1 - SHEET 1

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'
DRAWING NO.		

C501



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CONSTRUCTION

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LON: 73.168028°W

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REV. NO	DESCRIPTION	DATE

SHEET TITLE:

EROSION AND
SEDIMENTATION CONTROL
PHASE 1 - SHEET 2

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=100'

DRAWING NO.

C502



0 100' 200'

GENERAL NOTES :

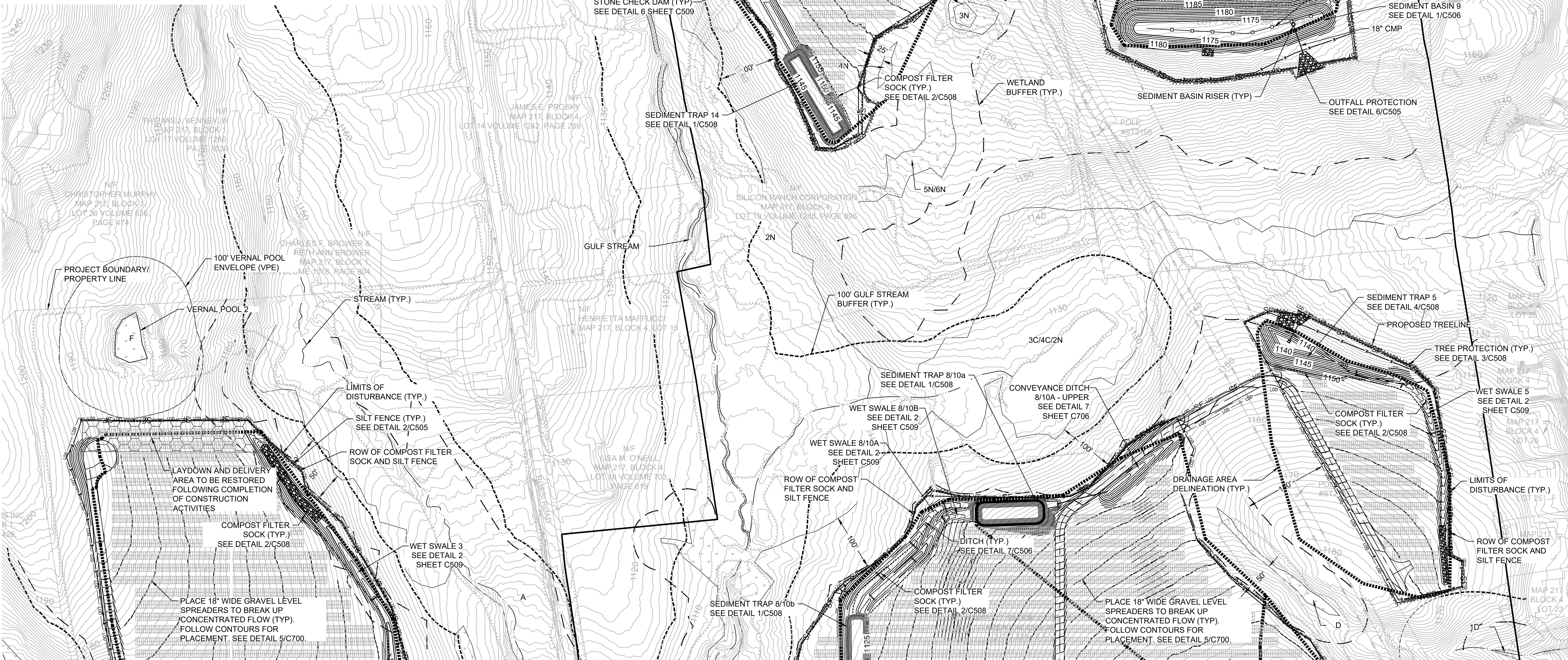
1. SEE SHEET C101 FOR OVERALL PLAN.
2. FOR SLOPES EQUAL TO OR GREATER THAN 8%, EROSION CONTROL BLANKETS, STUMP GRINDINGS, EROSION CONTROL MIX MULCH, OR HYDROSEED WITH TACKIFIER SHALL BE APPLIED WITHIN 72 HOURS OF FINAL GRADING, OR WHEN A RAINFALL OF 0.5 INCHES OR GREATER IS PREDICTED WITHIN 24 HOURS OF FINAL GRADING, WHICHEVER TIME PERIOD IS LESS.
3. SEE SHEET C550 FOR CONSTRUCTION PHASING AREAS.
4. FOR BASINS AND SWALES EXCAVATED INTO ROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

PHASE 2 CONSTRUCTION SEQUENCE

10. CLEAR AND GRUB REMAINDER OF AREA AS REQUIRED. CLEARING AND GRUBBING CAN COMMENCE IN STAGES OF NO MORE THAN 5 ACRES AT ONCE. ONCE A 5 ACRE DISTURBANCE IS CLEARED, GRUBBED, AND GRADED, IT MUST BE SEED OR OTHERWISE STABILIZED BEFORE THE NEXT 5 ACRES DISTURBED. THE LEVEL SPREADER TRENCHES SHOULD BE INSTALLED DURING THIS PROCESS.
11. GRADE THE CONTRACTOR LAYDOWN AREA AND AREAS INDICATED TO ACHIEVE REQUIRED PANEL AREA SLOPES.
12. AS GRADED AREAS ARE BROUGHT TO GRADE, ROUGHEN AND IMMEDIATELY SEED WITH PERMANENT SEEDING TO ESTABLISH COVER. APPLY EROSION CONTROL MATTING AS DETAILED WITHIN THE PLANS CONSISTING OF NORTH AMERICAN GREEN (OR APPROVED EQUAL) ON ALL FILL SLOPES.
13. INSTALL CULVERTS AS ACCESS ROADS ARE CONSTRUCTED TO FACILITATE DRAINAGE ACROSS DRIVES. NOTE THAT SOME CULVERTS MAY NEED TO BE BLOCKED TO MAINTAIN DIVERSION OF STORMWATER TO BASINS. COORDINATE WITH INSPECTOR WHEN AREAS OF THE SITE ARE STABILIZED AND BASINS CAN BE TRANSITIONED TO PERMANENT PONDS TO FACILITATE SITE STABILIZATION AND INSTALLATION OF FINAL PANELS IN PROXIMITY TO BASINS (SEE PHASE 3 BELOW).
14. PROVIDE INLET & OUTLET PROTECTION FOR EACH CULVERT AND BASIN OUTFALLS AS THEY ARE INSTALLED.
15. MAINTAIN EROSION CONTROL MEASURES DURING CONSTRUCTION ACCORDING TO CT DEEP REQUIREMENTS. LEVEL SPREADERS ARE TO BE OBSERVED DAILY FOR COMPACTION BY EQUIPMENT TRAFFIC CAUSING LOW POINTS AND CONCENTRATED FLOWS. TRENCHES ARE TO BE MAINTAINED AND REPAIRED AT MINIMUM ON A WEEKLY BASIS OR MORE FREQUENTLY IF NECESSARY.
16. COMPLETE ANY FINAL, FINE GRADING.
17. SEEDING IS TO BE PERFORMED IMMEDIATELY FOLLOWING THE COMPLETION OF MASS EARTHWORK. NO ELECTRICAL INSTALLATION IS TO BEGIN UNTIL THE CONSERVATION DISTRICT AND/OR SWPCP INSPECTORS AGREE THAT VEGETATION GROWTH IS SUFFICIENT.

PHASE 3 CONSTRUCTION SEQUENCE

1. AT PROJECT END, CONTACT CT DEEP COUNTY FOR REVIEW AND WITH APPROVAL REMOVE THE SKIMMER, CLEAN OUT ACCUMULATED SEDIMENT, AND CONVERT TEMP. SEDIMENT BASINS TO PERMANENT STORMWATER PONDS, INFILTRATION TRENCHES, AND TREATMENT SWALES AS SHOWN IN THE PLANS.
2. TEMPORARY SEDIMENT BASINS AND TRAPS MAY BE REMOVED AND CONVERTED INTO THEIR FINAL CONFIGURATION ONCE THE SITE HAS ACHIEVED 80% STABILIZATION. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED, AND ADDITIONAL GRADING SHALL OCCUR TO MATCH FINAL POND AND SWALE DESIGN. IMPERMEABLE LINERS MUST BE INSPECTED AND ADJUSTED AROUND ANY ADDITIONAL EXCAVATION INTO BEDROCK.
3. FORMER BASIN AND TRAP AREAS TO BE SEEDDED AND STABILIZED. SILT FENCE TO REMAIN AROUND THE LOWER SIDE OF THE FORMER BASIN AREAS UNTIL VEGETATIVE STABILIZATION IS IN PLACE.



SEE SHEET 502
MATCHLINE



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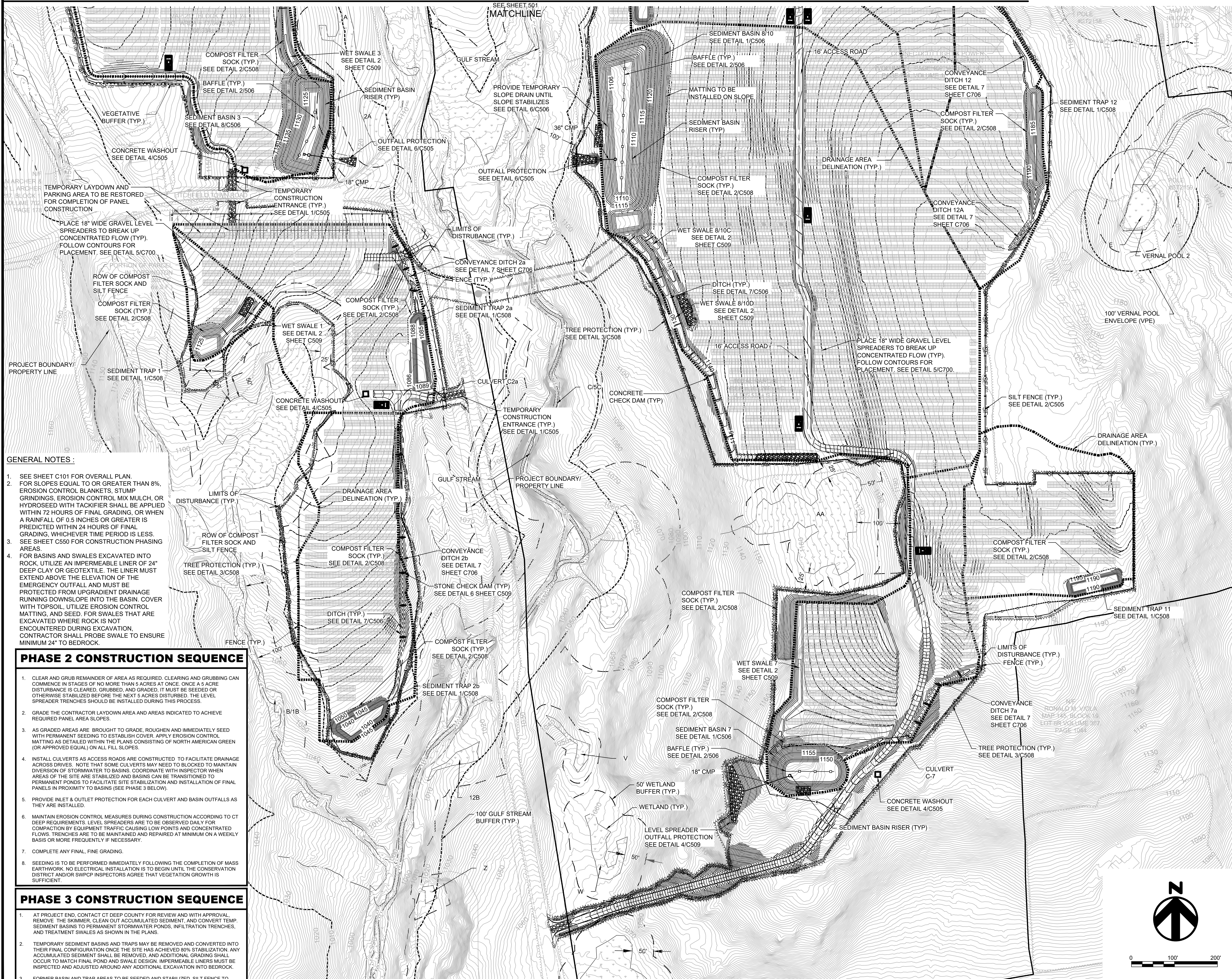
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REV. NO	DESCRIPTION	DATE

SHEET TITLE:

EROSION AND SEDIMENTATION CONTROL PHASE 2- SHEET 1

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1:100
DRAWING NO.		

C503



- GENERAL NOTES :
- SEE SHEET C101 FOR OVERALL PLAN. FOR SLOPES EQUAL TO OR GREATER THAN 8%, EROSION CONTROL BLANKETS, STUMP GRINDINGS, EROSION CONTROL MIX MULCH, OR HYDROSEED WITH TACKIFIER SHALL BE APPLIED WITHIN 72 HOURS OF FINAL GRADING, OR WHEN A RAINFALL OF 0.5 INCHES OR GREATER IS PREDICTED WITHIN 24 HOURS OF FINAL GRADING, WHICHEVER TIME PERIOD IS LESS.
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PHASE 2 CONSTRUCTION SEQUENCE

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- TEMPORARY SEDIMENT BASINS AND TRAPS MAY BE REMOVED AND CONVERTED INTO THEIR FINAL CONFIGURATION ONCE THE SITE HAS ACHIEVED 80% STABILIZATION. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED, AND ADDITIONAL GRADING SHALL OCCUR TO MATCH FINAL POND AND SWALE DESIGN. IMPERMEABLE LINERS MUST BE INSPECTED AND ADJUSTED AROUND ANY ADDITIONAL EXCAVATION INTO BEDROCK.
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LITCHFIELD, CT

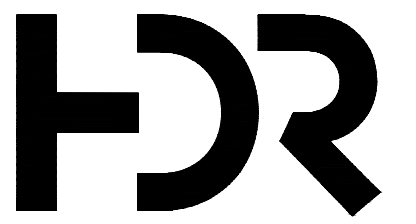
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8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

EROSION AND
SEDIMENTATION CONTROL
PHASE 2 - SHEET 2

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1:100
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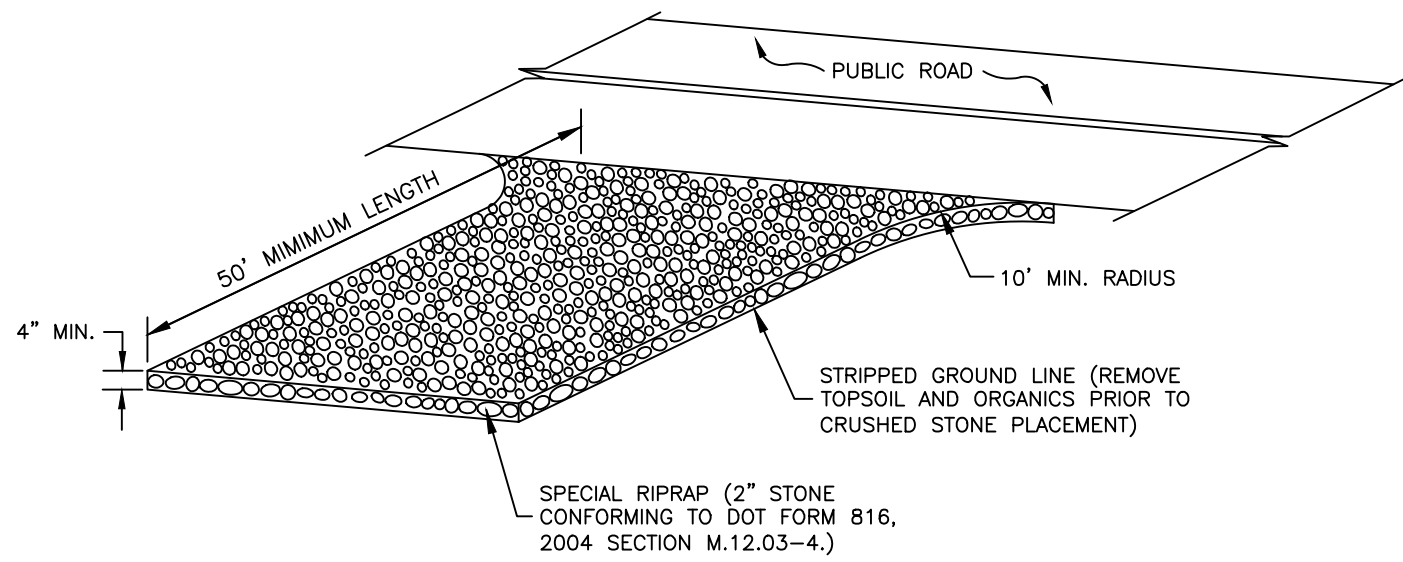
SHEET TITLE:

EROSION AND SEDIMENT
CONTROL DETAILS 1

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: AS NOTED

DRAWING NO.

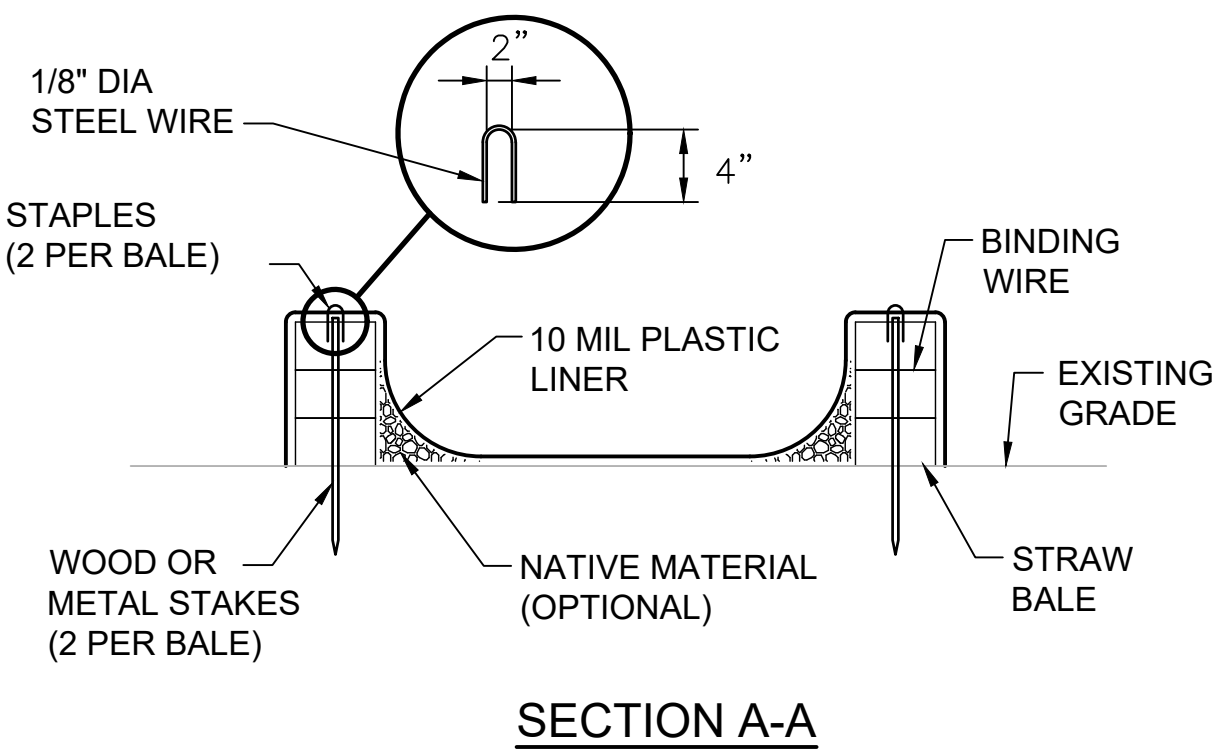
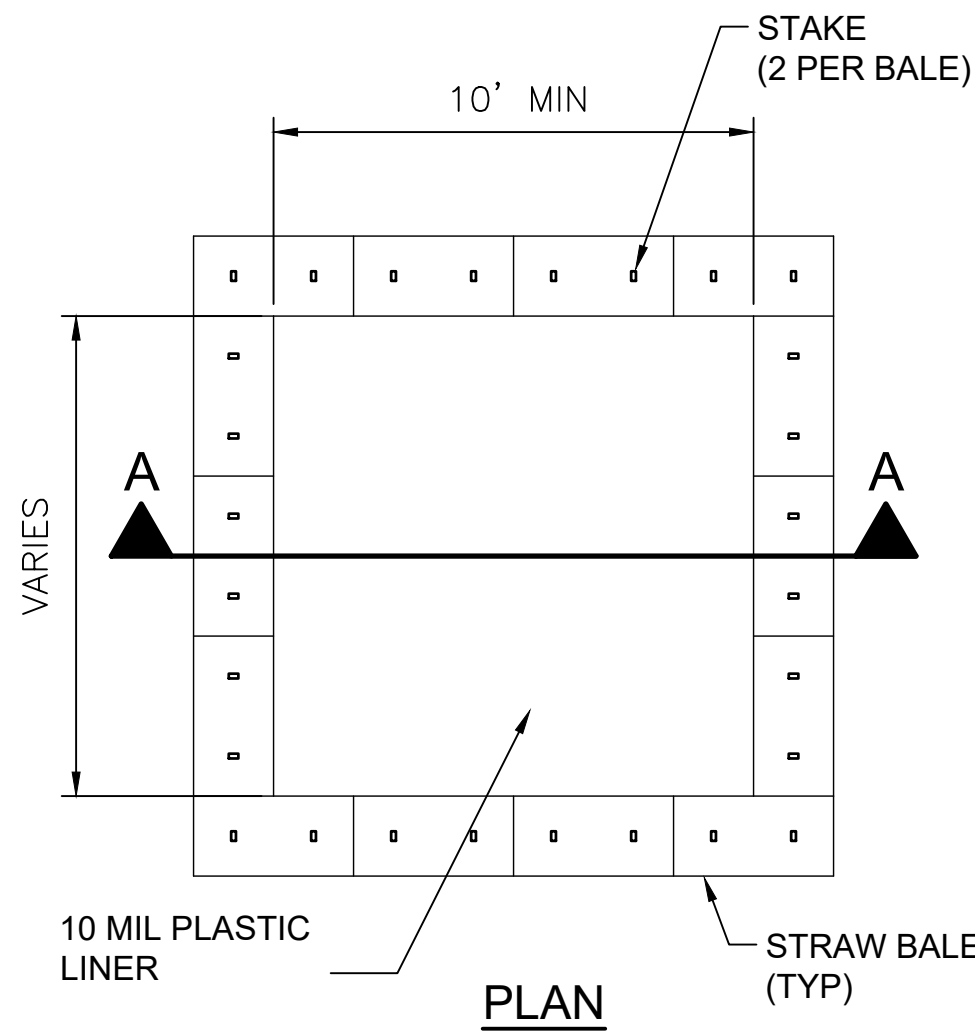
C505



TOWN OF STONINGTON TECHNICAL STANDARDS	ANTI-TRACKING PAD	DATE: REVISED: DETAIL NUMBER:
		ES-2

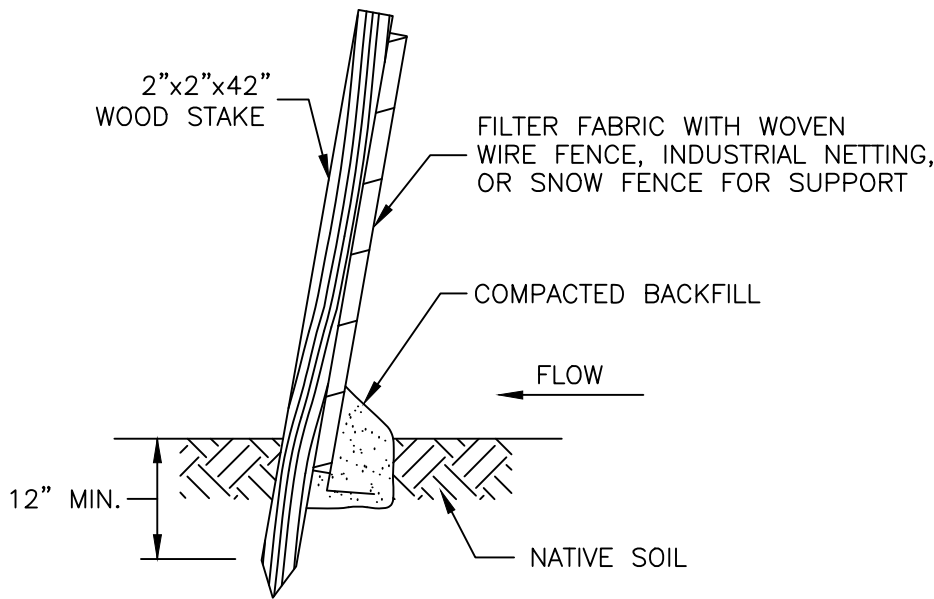
TEMPORARY CONSTRUCTION ENTRANCE

NOT TO SCALE



TEMPORARY CONCRETE WASHOUT

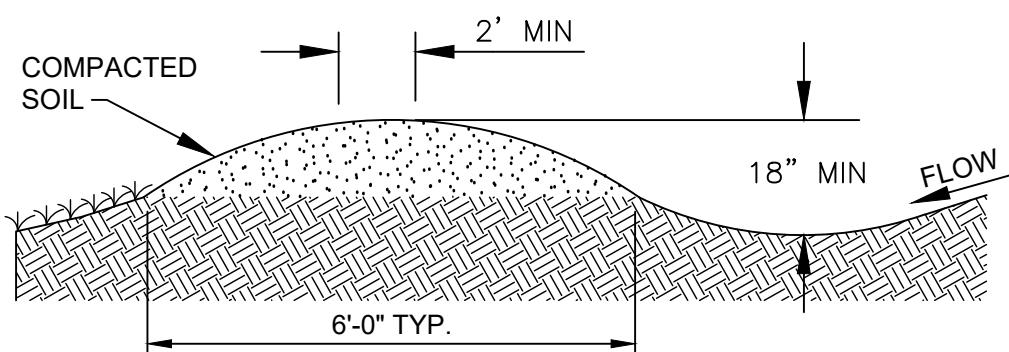
NOT TO SCALE



TOWN OF STONINGTON TECHNICAL STANDARDS	SILT FENCE	DATE: REVISED: DETAIL NUMBER:
		ES-1

TEMPORARY SILT FENCE

NOT TO SCALE



NOTES

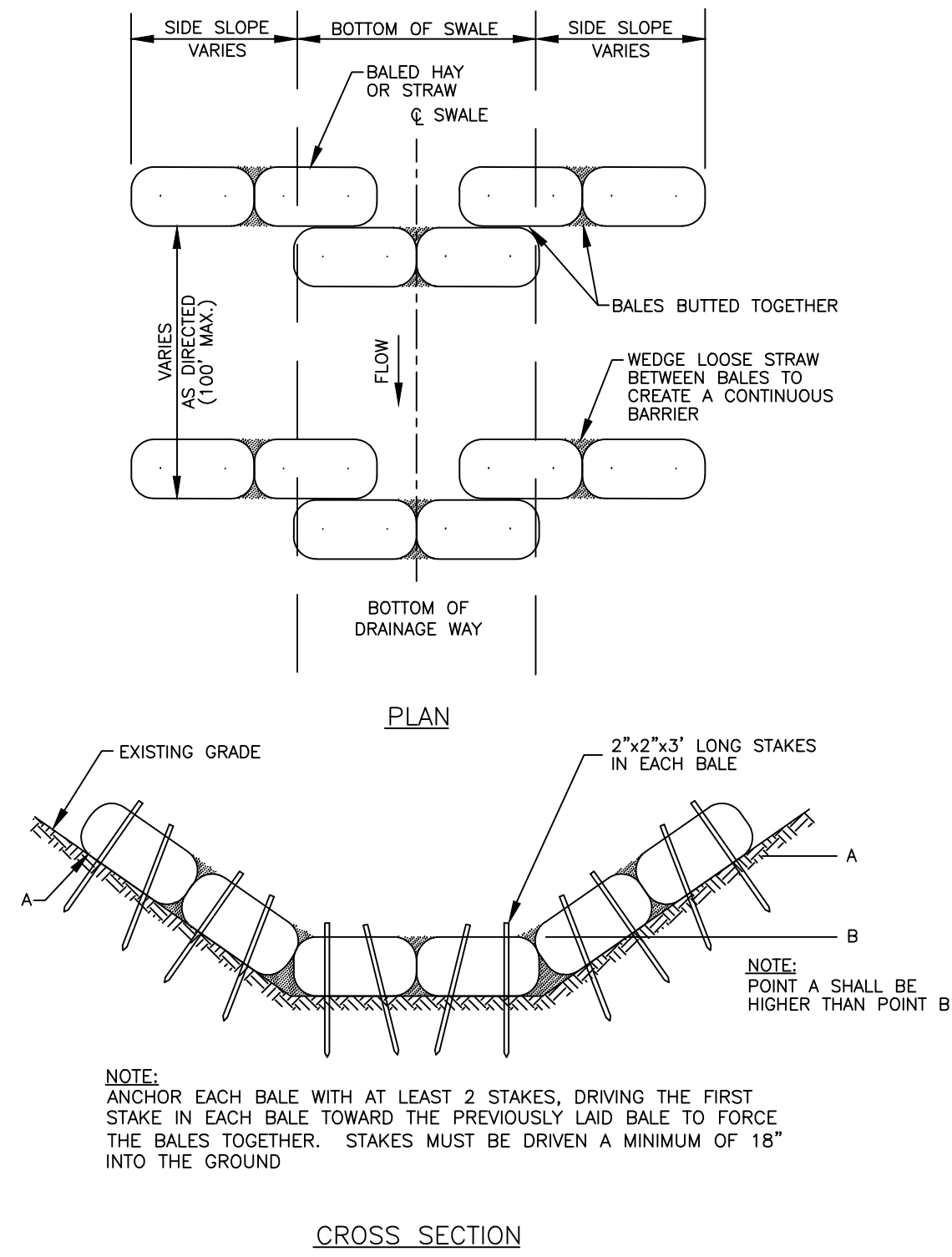
1. CONSTRUCT TEMPORARY DIVERSION CHANNELS AT A MINIMUM OF 1.0% SLOPE TOWARD OUTLET.
2. SIDE SLOPES SHALL NOT EXCEED A 5:1 (H:V) SLOPE IN AREAS WHERE VEHICLES MUST CROSS, 3:1 SLOPE (MAX.) IN ALL OTHER AREAS.

MAINTENANCE: TEMPORARY DIVERSION SWALE

1. SWALES SHOULD BE INSPECTED, EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24-HOURS AFTERA EACH RAINFALL EVENT THAT PRODUCES 1/2-INCHES OR MORE OF PRECIPITATION AND REPAIRS MADE AS NECESSARY.
2. DAMAGE CAUSED BY CONSTRUCTION TRAFFIC OR OTHER ACTIVITY MUST BE REPAIRED BEFORE THE END OF EACH WORKING DAY.

TEMPORARY DIVERSION DITCH DETAIL

NOT TO SCALE



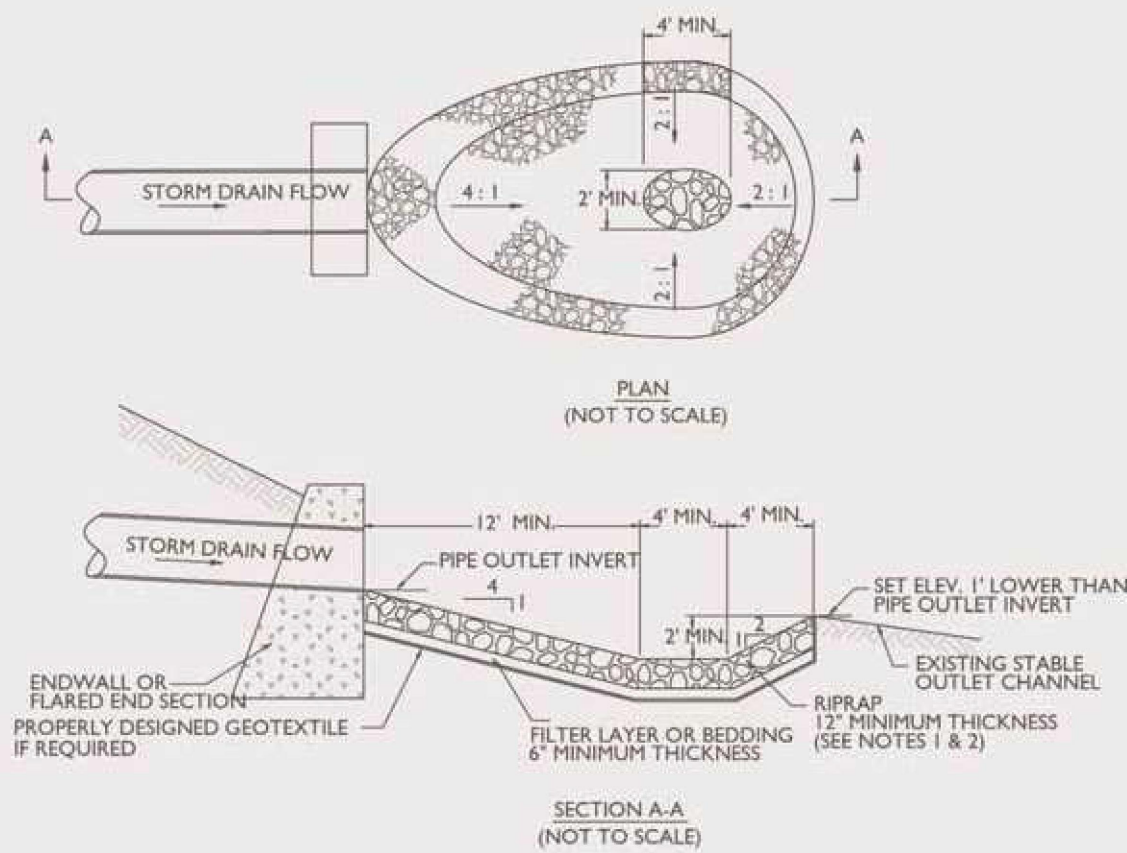
TOWN OF STONINGTON TECHNICAL STANDARDS	HAYBALE CHECK DAM	DATE: REVISED: DETAIL NUMBER:
		ES-5

TEMPORARY CHECK DAM

NOT TO SCALE

Culvert #	Q (cfs)	D _o (ft)	TW (ft)	L _a (ft)	W (ft)	d ₅₀ (ft)
POND-3	37.03	2	1.69	38.3	21.3	0.58
POND-5	8.53	2	0.52	21.1	27.1	0.27
POND-8/10	113.15	4	2.31	56.0	34.4	0.75
POND-9	21.23	4	0.74	36.5	48.5	0.25

Figure OP-3 Configuration of Outlet Protection using a Riprap Stilling Basin



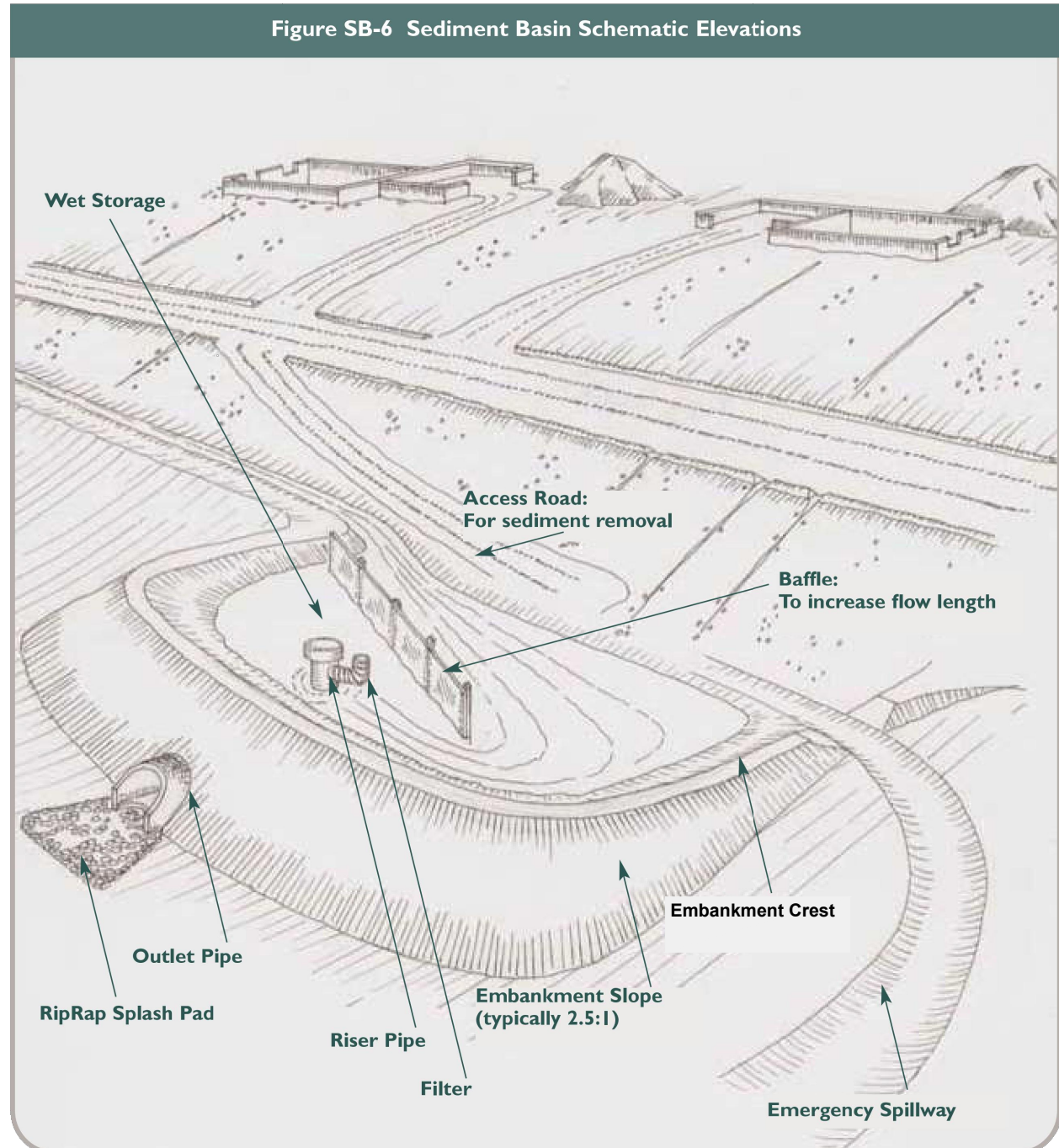
NOTES:

1. RIPRAP SIZE AND THICKNESS SHALL BE ADJUSTED UPWARD AS THE STORM DRAIN SIZE AND OUTLET VELOCITY INCREASE. SEE PLANNING CONSIDERATIONS SECTION FOR DESIGN REFERENCES.
2. CONSIDER THE APPLICATION OF CEMENTIOUS GROUT IN THE RIPRAP TO PREVENT VANDALISM AND FACILITATE SEDIMENT AND DEBRIS CLEANOUT.

Source: USDA-NRCS

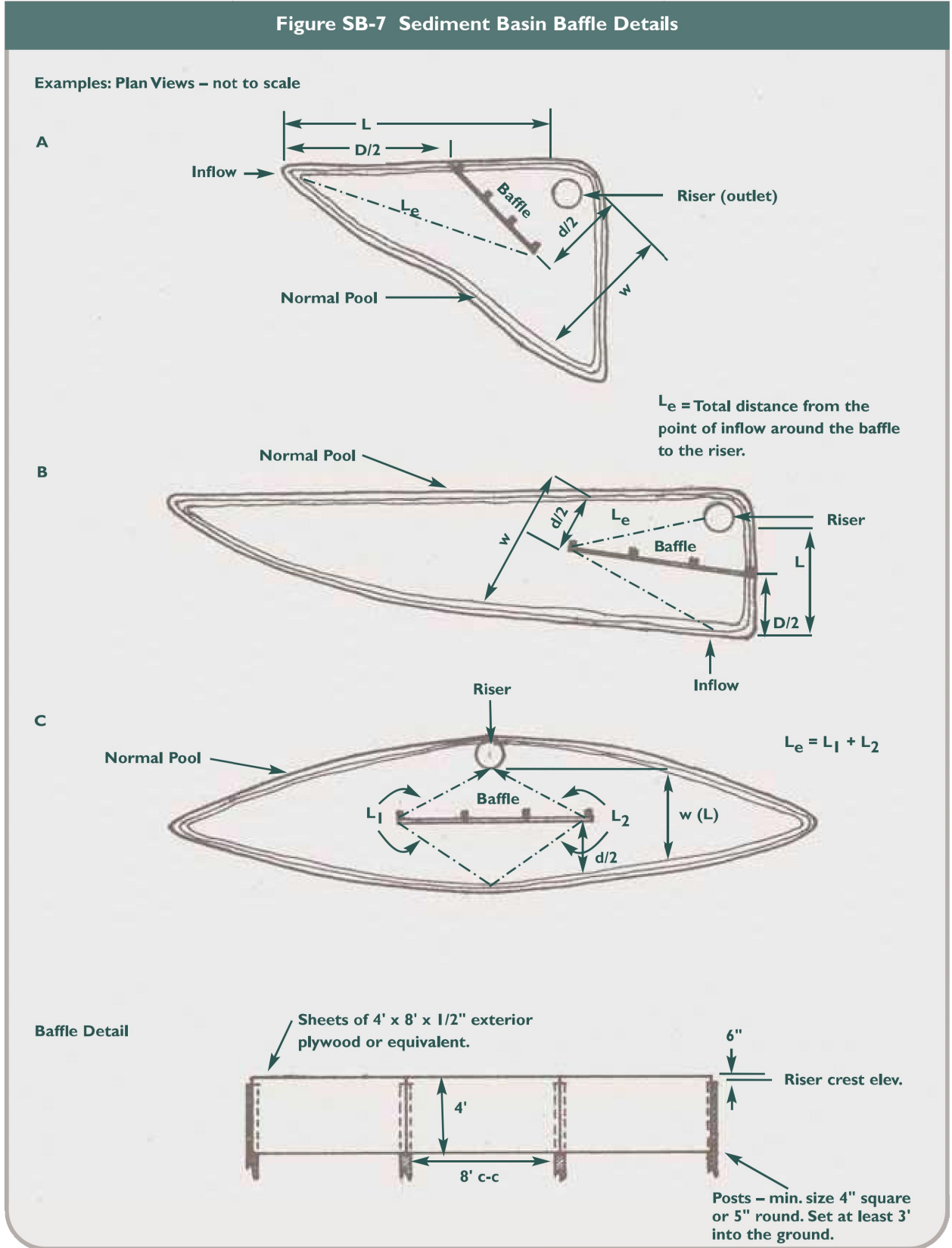
PERMANENT OUTFALL PROTECTION

NOT TO SCALE



TEMP. SEDIMENT BASINS 7, 8-10, 9

NOT TO SCALE



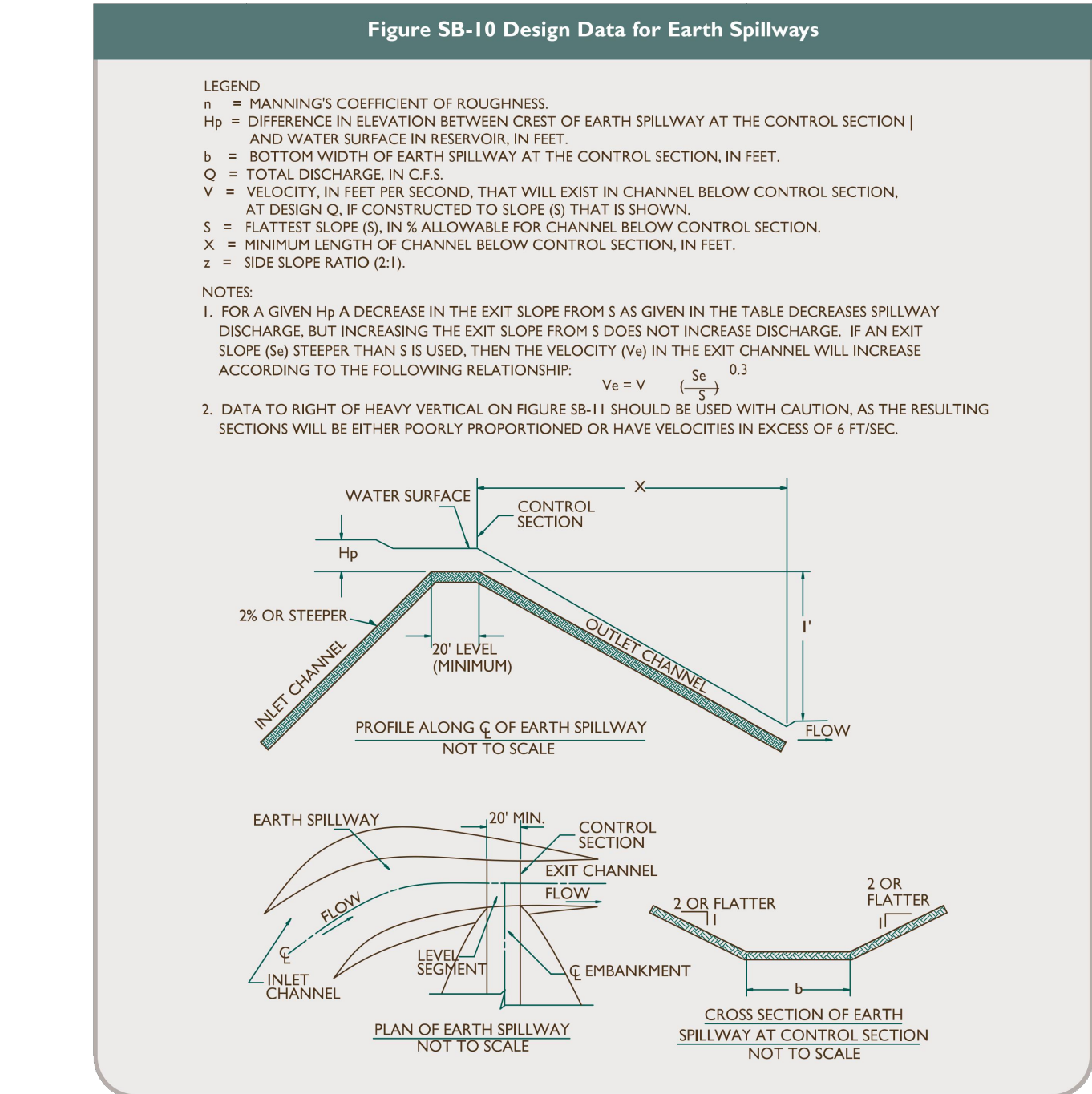
BAFFLES

NOT TO SCALE

BASIN #	TOTAL DRAINAGE AREA (AC)	DEPTH OF DRY STORAGE VOLUME (FT)	DEPTH OF WET STORAGE VOLUME (FT)	10YR PEAK FLOW (CFS)	RETENTION TIME REQUIRED (MIN)	RETENTION TIME PROVIDED (MIN)	BOTTOM ELEVATION (FT)	RISER CREST ELEVATION (FT)	FILTER ORIFICE ELEVATION (FT)	EMERGENCY SPILLWAY ELEVATION (FT)	TOP OF BERM ELEVATION (FT)	HIGHWATER ELEVATION (10–YR) (FT)	RISER PIPE SIZE (INCH)	OUTLET PIPE SIZE (INCH)	OUTLET PIPE INVERT IN (FT)	OUTLET PIPE INVERT OUT (FT)	FILTER ORIFICE SIZE (INCH)	SKIMMER SIZE (INCH)	SKIMMER ORIFICE SIZE (INCH)
3	7.33	0.50	5.70	21.63	600	920	1122.00	1127.70	1122.00	1128.70	1130.00	1127.89	24.00	15.00	1122.00	1121.50	—	3	2.25
7	4.35	0.50	3.50	6.65	600	647	1148.00	1151.50	1148.50	1152.50	1154.00	1150.87	24.00	18.00	1148.00	1146.10	3.00	—	—
8–10	15.65	0.50	7.00	53.25	600	862	1106.00	1113.00	1108.50	1114.00	1115.00	1113.26	60.00	48.00	1108.00	1107.50	4.50	—	—
9	6.83	0.50	4.00	21.54	600	961	1175.00	1179.00	1175.00	1180.00	1181.00	1179.19	24.00	18.00	1175.00	1174.50	2.50	—	—

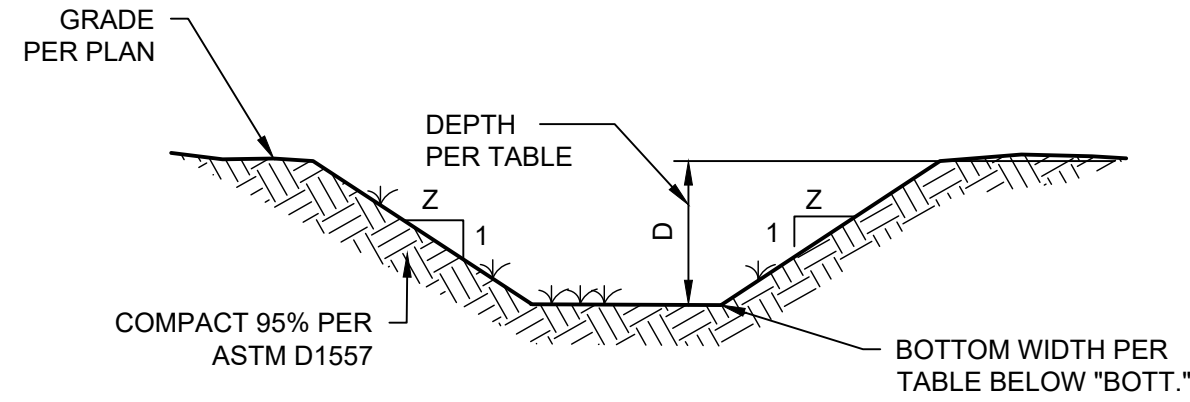
TEMP. SEDIMENT BASIN SPECIFICATIONS

NOT TO SCALE



EARTH SPILLWAY

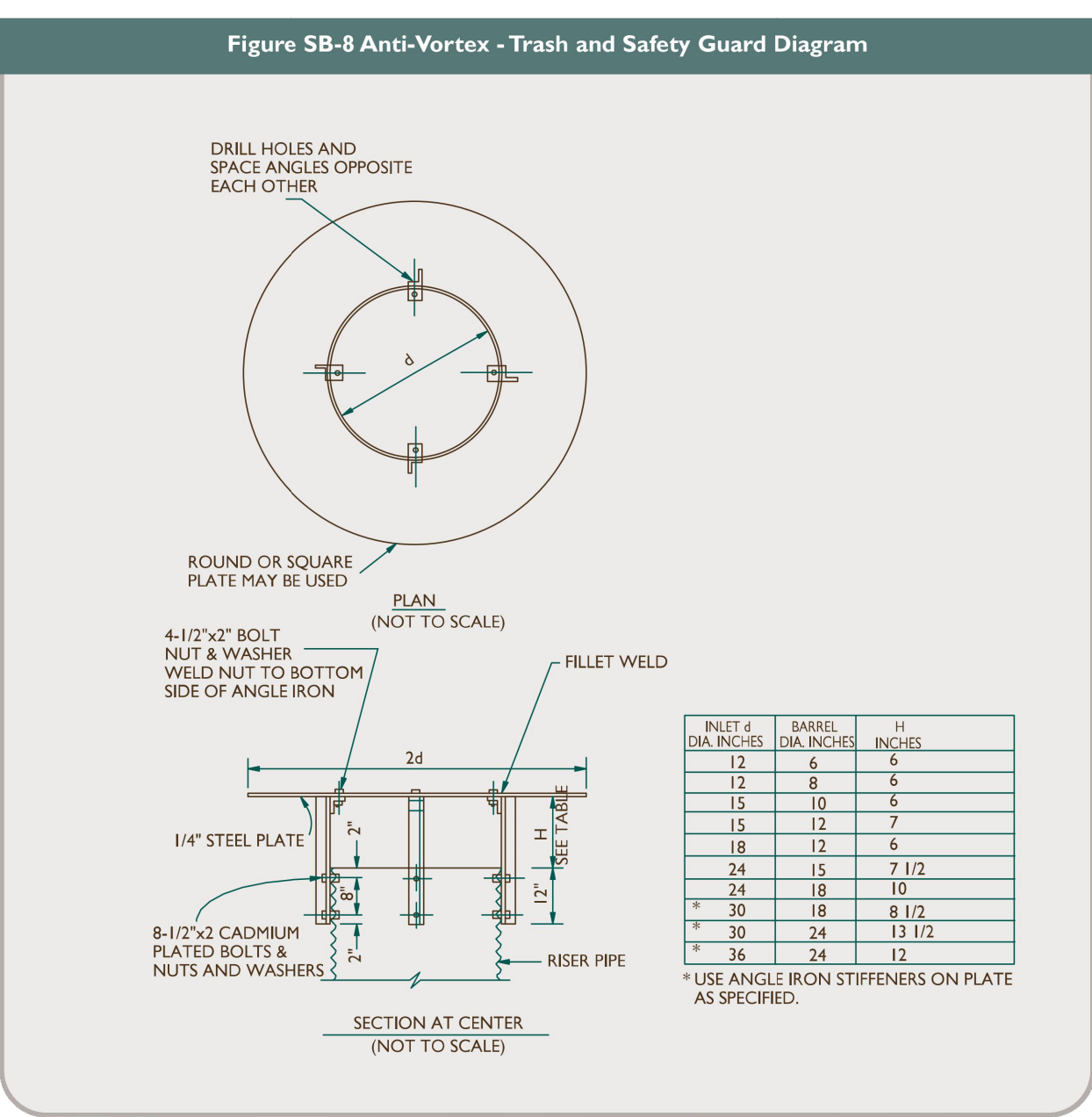
NOT TO SCALE



Ditch	Weighted Peak Runoff 10-yr Event (cfs)	Avg. Slope (%)	Shape	Side Slope z:1	Bott. (ft)	Depth (ft)	Top Width (ft)
2a	14.33	10.78%	Tri.	3	0	1.75	9.0
2b	11.47	6.47%	Tri.	3	0	1.50	9.0
7a	2.36	11.23%	Trap.	3	4	2.00	16.0
8/10a-upper	17.57	3.01%	Trap.	3	4	1.50	13.0
12	1.98	0.90%	Tri.	3	0	1.25	7.5
12a	1.22	8.54%	Tri.	3	0	1.00	6.0
14	15.99	4.75%	Tri.	3	0	2.00	8.0

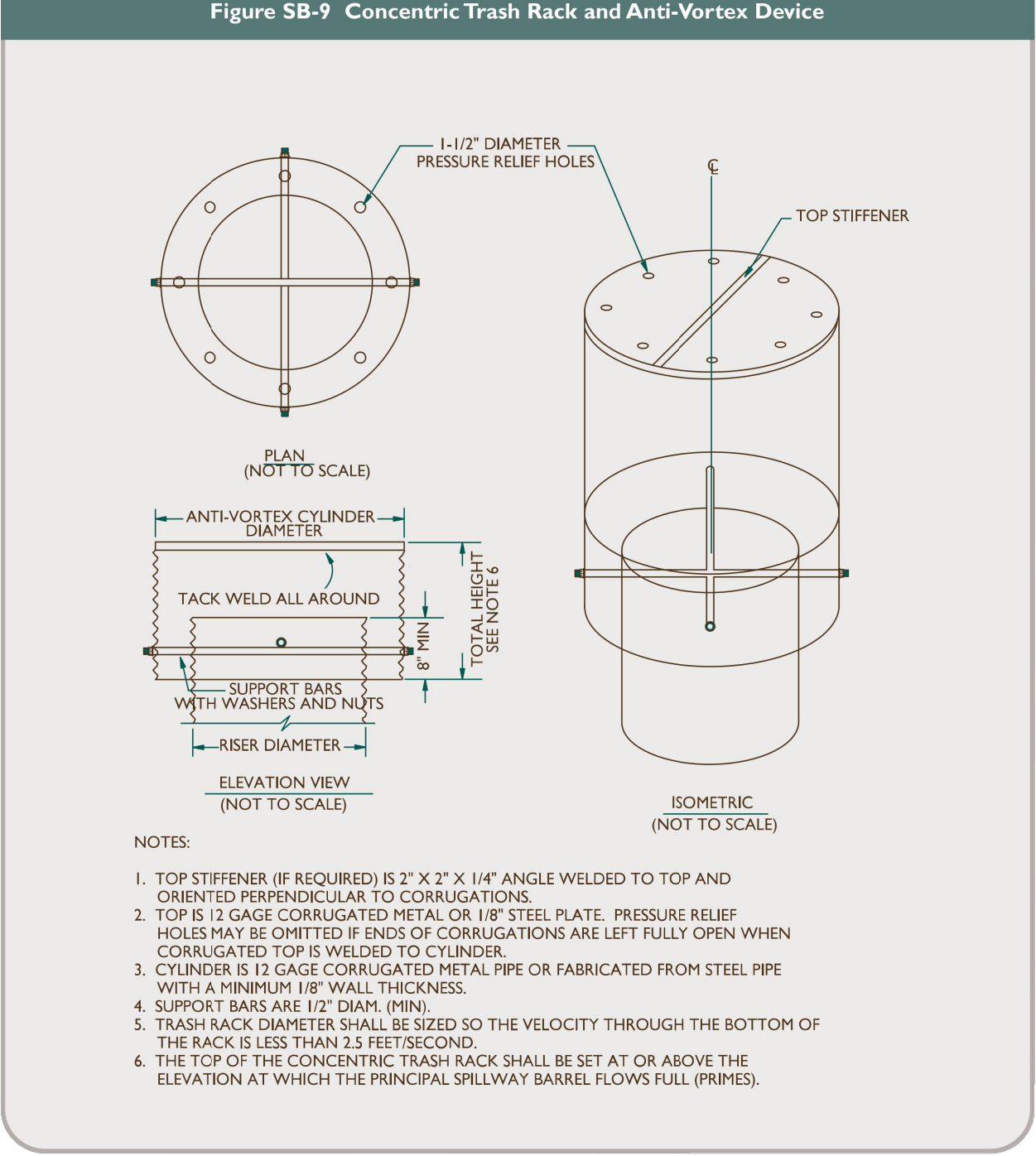
PERMANENT CONVEYANCE DITCH DETAIL

NOT TO SCALE



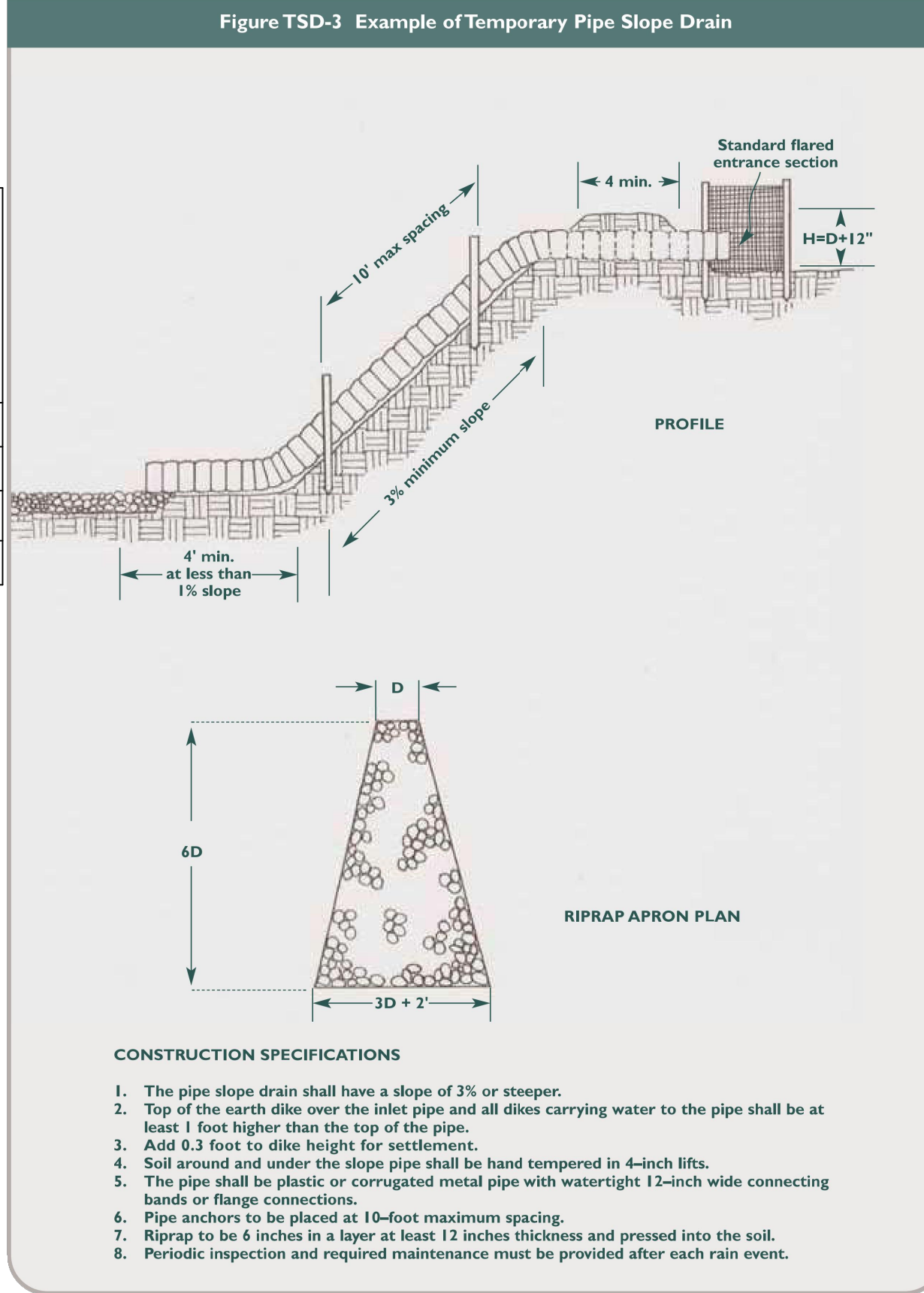
ANTI-VORTEX TRASH GUARD

NOT TO SCALE



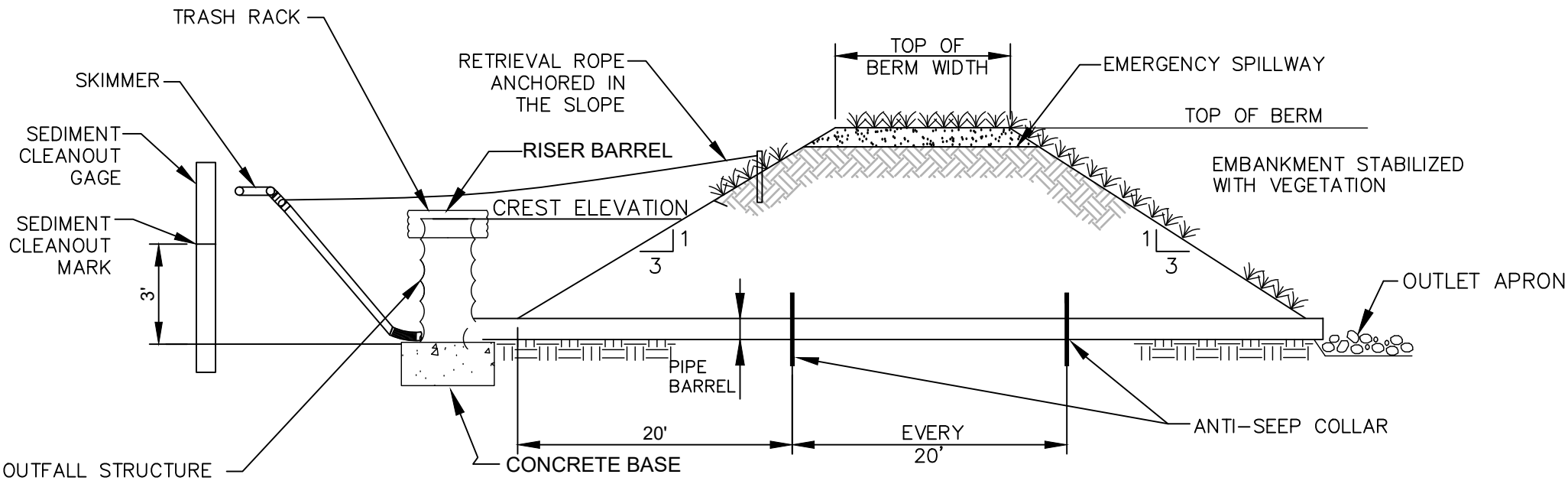
CONCENTRIC TRASH RACK

NOT TO SCALE



TEMPORARY SLOPE DRAIN

NOT TO SCALE



TEMPORARY SEDIMENT BASIN 3

NOT TO SCALE

HR

SILICON RANCH

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SHEET TITLE:

EROSION AND SEDIMENT CONTROL DETAILS 2

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: AS NOTED
DRAWING NO.		

C506

4-Short Term Non-living Soil Protection

Temporary Erosion Control Blanket (ECB)

Definition

A manufactured blanket composed of biodegradable / photodegradable natural or polymer fibers and/or filaments that have been mechanically, structurally or chemically bound together to form a continuous matrix.

Purpose

To provide temporary surface protection to newly seeded and/or disturbed soils to absorb raindrop impact and to reduce sheet and rill erosion and to enhance the establishment of vegetation.

Applicability

- On disturbed soils where slopes are 2:1 or flatter.
- Where wind and traffic generated air flow may dislodge standard, unarmored mulches.
- May be used as a substitute for **Temporary Soil Protection**.
- May be used as a substitute for **Mulch for Seed**.

Planning Considerations

When considering the use of ECB keep in mind the blanket's capability to conform to ground surface irregularities. If the blanket is not capable of developing a continuous contact with the soil then it must be applied to a fine graded surface. Some blankets will soften and when wetted conform to the ground. Also, when the ground is frozen, proper anchoring can be difficult, if not impossible.

Care must be taken to choose the type of blanket which is most appropriate for the specific need of the project. With the abundance of erosion control blankets available, it is impossible to cover all of the advantages, disadvantages and specifications of all manufactured blankets. There is no substitute for a thorough understanding of the manufacturer's instructions and recommendations in conjunction with a site visit by the erosion and sedimentation plan designer prior to and during installation to verify a product's appropriateness.

The success of temporary erosion control blankets is dependent upon strict adherence to the manufacturer's installation recommendations. As such, a final inspection should be planned to ensure that the lap joints are secure, all edges are properly anchored and all staking/stapling patterns follow the manufacturer's recommendations.

Specifications

Materials

Temporary erosion control blankets shall be composed of fibers and/or filaments that:

- are biodegradable or photodegradable within two years but without substantial degradation over the period of intended usage (five months maximum);
- are mechanically, structurally or chemically bound together to form a continuous matrix of even thickness and distribution that resist raindrop splash and when used with seedlings allows vegetation to penetrate the blanket;
- are of sufficient structural strength to withstand stretching or movement by wind or water when installed in accordance with the manufacturer's recommendations;
- are free of any substance toxic to plant growth and unprotected human skin or which interferes with seed germination;
- contain no contaminants that pollute the air or waters of the State when properly applied; and

5-4-10

2002 Connecticut Guidelines for Soil Erosion and Sediment Control

- provide either 80%-95% soil coverage when used as a substitute for **Mulch for Seed** or 100% initial soil coverage when used as a substitute for **Temporary Soil Protection** measure.

Materials shall be selected as appropriate for the specific site conditions in accordance with manufacturer's recommendations. Use of any particular temporary erosion control blanket should be supported by manufacturer's test data that confirms the blanket meets these material specifications and will provide the short term erosion control capabilities necessary for the specific project.

Site Preparation and Installation

See **Figure ECB-1**.

Prepare the surface, remove protruding objects and install temporary erosion control blankets in accordance with the manufacturer's recommendations. Ensure that the orientation and anchoring of the blanket is appropriate for the site.

The blanket can be laid over areas where sprigged grass seedlings have been inserted into the soil. Where landscape plantings are planned, lay the blanket first and then plant through the blanket in accordance with Landscape Planning measure.

Inspect the installation to insure that all lap joints are secure, all edges are properly anchored and all staking or stapling patterns follow manufacturer's recommendations.

Maintenance

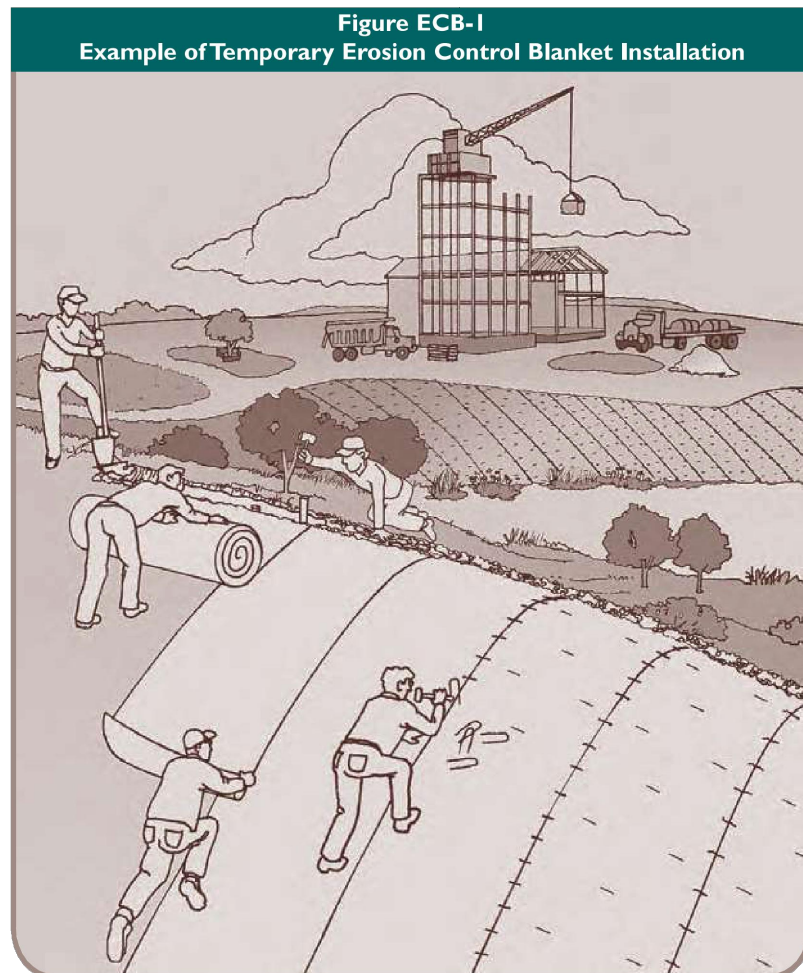
Inspect temporary erosion control blankets at least once a week and within 24 hours of the end of a storm with a rainfall amount of 0.5 inch or greater for failures. Blanket failure has occurred when (1) soils and/or seed have washed away from beneath the blanket and the soil surface can be expected to continue to erode at an accelerated rate, and/or (2) the blanket has become dislodged from the soil surface or is torn.

If washouts or breakouts occur, re-install the blanket after regrading and re-seeding, ensuring that blanket installation still meets design specifications. When repetitive failures occur at the same location, review conditions and limitations for use and determine if diversions, stone check dams or other measures are needed to reduce failure rate.

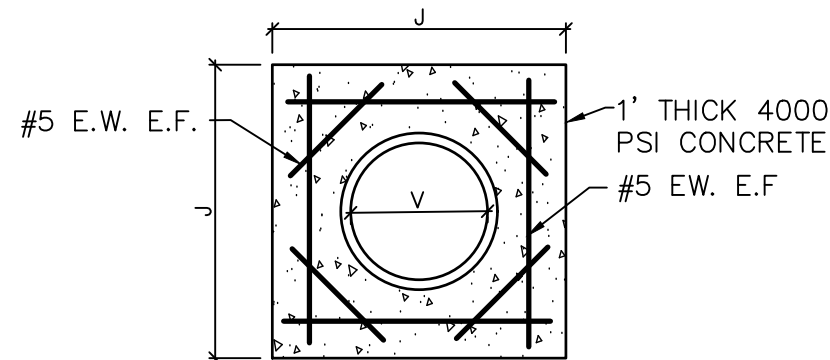
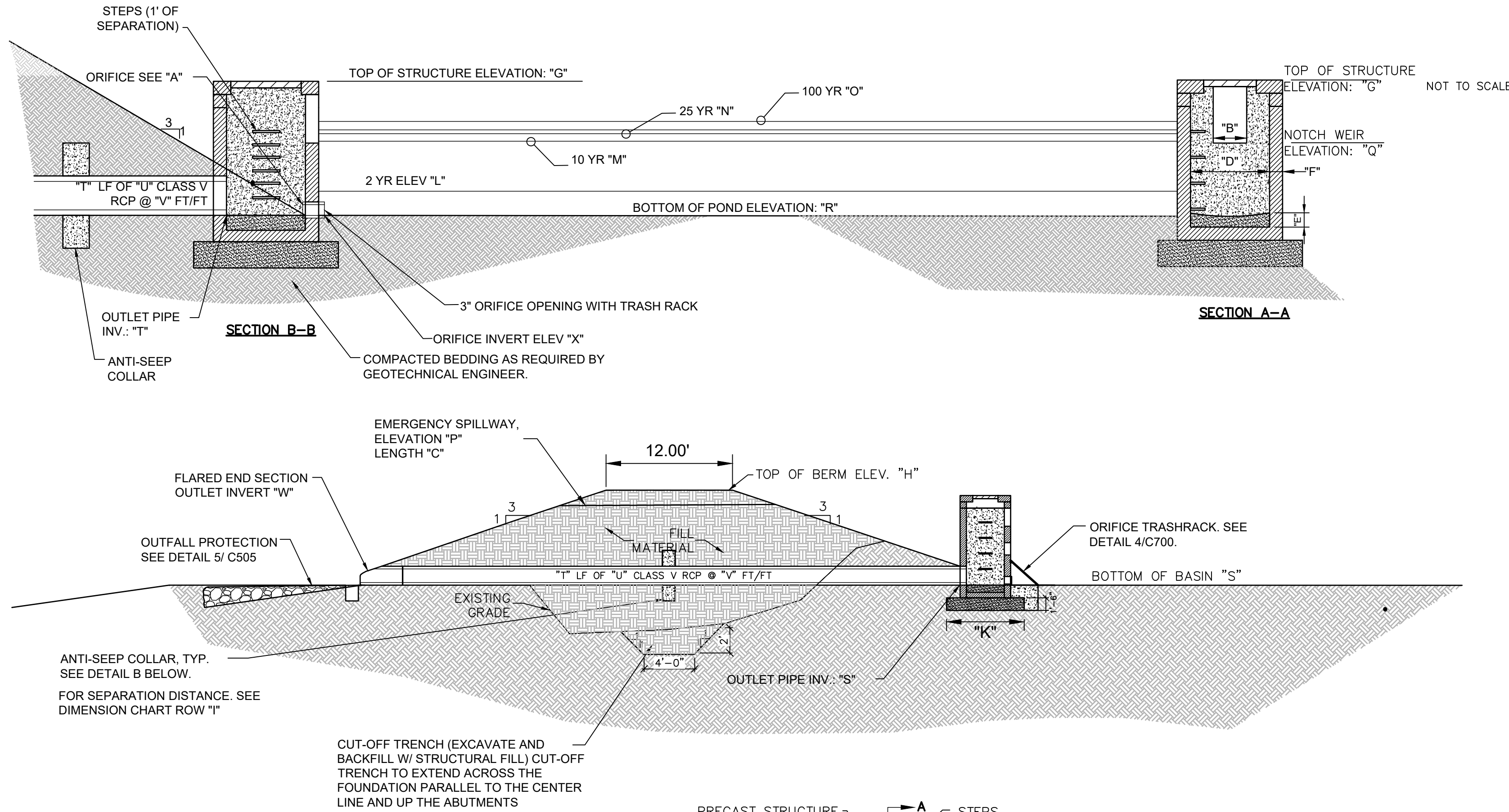
Repair any dislodged or failed blankets immediately.

When used as a substitute for **Mulch for Seed**, continue to inspect as required by the seeding measure. When used as a substitute for **Temporary Soil Protection**, continue to inspect until it is replaced by other erosion control measures or until work resumes.

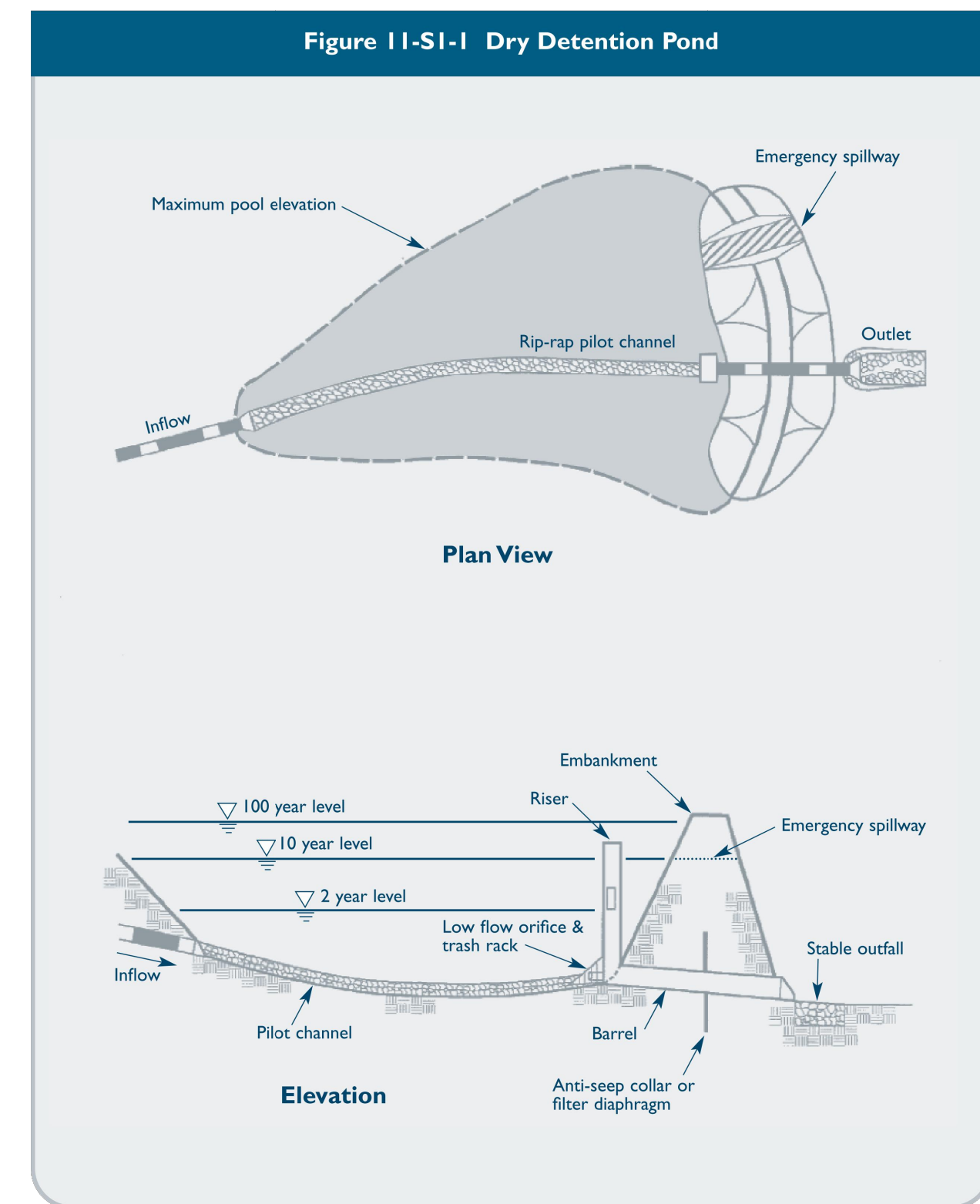
Figure ECB-1
Example of Temporary Erosion Control Blanket Installation



Temporary Erosion Control Blanket (ECB)



DETAIL - B - ANTI-SEEP COLLAR



GENERAL NOTES:

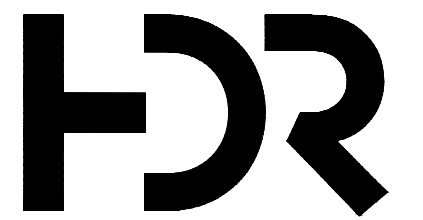
- PRECAST STRUCTURES SHALL CONFORM TO LATEST ASTM C-913 SPECIFICATIONS FOR "REINFORCED CONCRETE WATER AND WASTEWATER STRUCTURES".
- ALL EXPOSED CONCRETE TO BE CHAMFERED 1".
- CONCRETE COMPRESSIVE STRENGTH 4000 PSI MINIMUM.
- SECTION JOINTS TO BE SEALED WITH BUTYL RUBBER SEALANT SUPPLIED BY VENDOR AND INSTALLED BY CONTRACTOR. BARREL CONNECTIONS TO BE SEALED WITH LINK SEAL CONNECTORS SUPPLIED BY VENDOR AND INSTALLED BY CONTRACTOR.
- CONCRETE PIPE SHALL HAVE "O" RING SEALS OR WATER TIGHT JOINTS.
- SHOP DRAWINGS MUST BE SUBMITTED AND APPROVED BY THE ENGINEER BEFORE CONSTRUCTION.
- GEOTECHNICAL ENGINEER SHALL MONITOR DAM AND OUTLET STRUCTURE INSTALLATION. ALL FILL AREAS SHALL BE COMPACTED TO 100% OF THE MATERIALS MAXIMUM DRY DENSITY UNLESS OTHERWISE DICTATED BY THE GEOTECHNICAL ENGINEER.
- PROVIDED STEPS 1' ON CENTERS. STEPS SHALL BE EPOXY COATED. MANHOLE OPENING TO ALIGN WITH STEPS.
- ALL PIPE IN STORM DRAIN STRUCTURE TO BE STRUCK EVEN WITH THE INSIDE WALL, GROUTED AND BRUSHED SMOOTH.
- FOR BASINS EXCAVATED INTO BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADE DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED.

DIMENSION CHART

	BASIN	POND 1	POND 3	POND 5	POND 7	POND 8/10	POND 9
A	Orifice Diameter (in)	3	3	3	3	3	3
B	25YR Detention Weir Length (ft)	5	5	5	5	5	5
C	Emergency Spillway Length (ft)	20	40	30	30	50	20
D	Inside Dimension of Outlet Structure (ft) (Square Box)	4	4	4	4	6	6
E	Concrete Ballast Depth (in)	8	8	8	8	8	8
F	Width of Outlet Structure Walls (in)	6	6	6	6	6	6
G	Top of Riser	1126.30	1134.00	1146.25	1157.00	1127.00	1182.50
H	Top of Berm	1127.00	1135.00	1147.00	1158.00	1129.00	1184.00
I	Anti-seep Collar Separation (ft)	20	20	20	20	20	20
J	Anti-seep Collar Length and Width (ft)	4	4	4	4	4	4
K	Outlet Structure Base Dimension (ft) (Depth is 18")	6	6	6	6	6	6
L	2 Year Water Elevation	1125.05	1127.90	1141.80	1149.61	1112.14	1179.25
M	10 Year Water Elevation	1125.35	1128.70	1142.33	1151.21	1113.30	1179.72
N	25 Year Water Elevation	1125.42	1128.99	1142.44	1151.53	1113.61	1180.03
O	100 Year Water Elevation	1125.48	1129.69	1142.52	1151.88	1114.44	1180.33
P	Emergency Spillway Elevation	1125.60	1129.50	1142.50	1152.50	1114.25	1180.00
Q	Weir Elevation	1125.00	1127.50	1142.00	1150.95	1111.25	1179.00
R	Bottom of Pond Elevation	1123.00	1122.00	1140.00	1147.00	1108.00	1177.00
S	Outlet Pipe Invert	1123.00	1122.00	1140.00	1147.00	1108.00	1177.00
T	Linear Feet of Outlet Pipe	35	60	30	106	44	64
U	Diameter of Outlet Pipe	18	24	24	30	48	24
V	Outlet Pipe Slope (Ft/Ft)	0.0286	0.0083	0.0167	0.0085	0.0114	0.0078
W	Outlet Pipe FES Invert	1122.00	1121.50	1139.50	1145.10	1107.50	1176.50
X	Orifice Invert	1121.00	1121.50	1137.00	1146.10	1100.00	1174.00

PERMANENT DRY DETENTION POND

NOT TO SCALE



NOT FOR
CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA

LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

EROSION AND SEDIMENT CONTROL DETAILS 3

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: AS NOTED

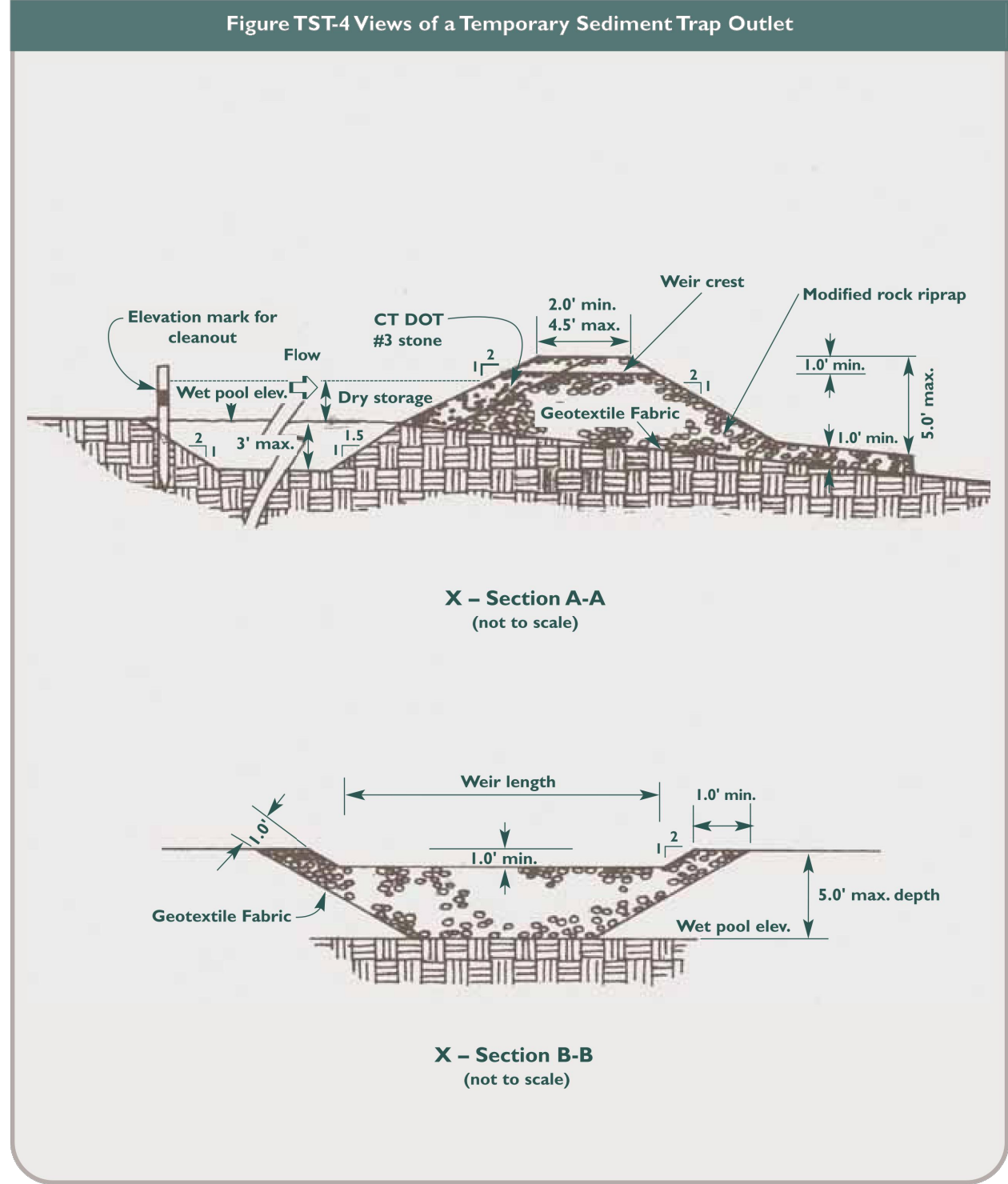
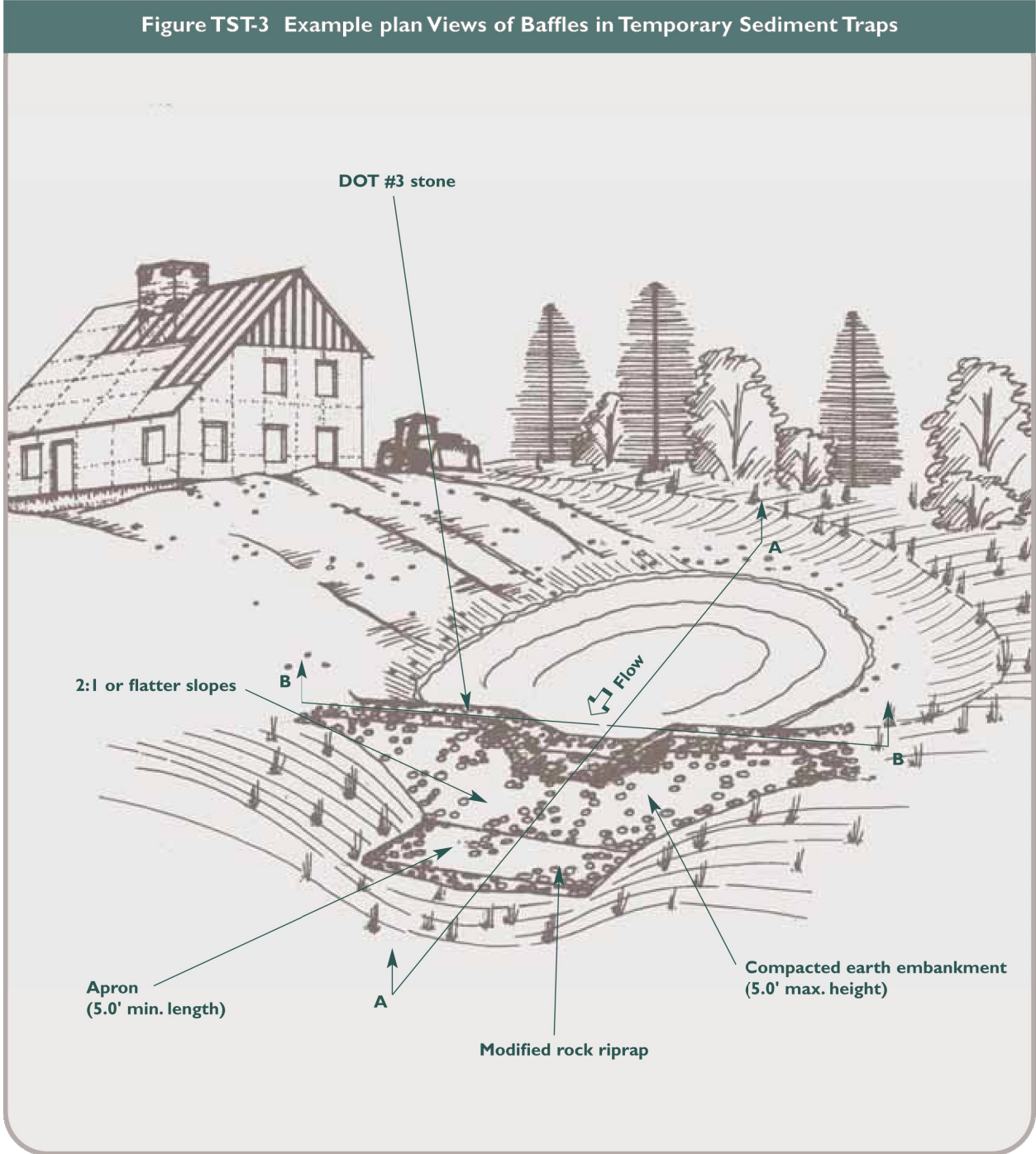
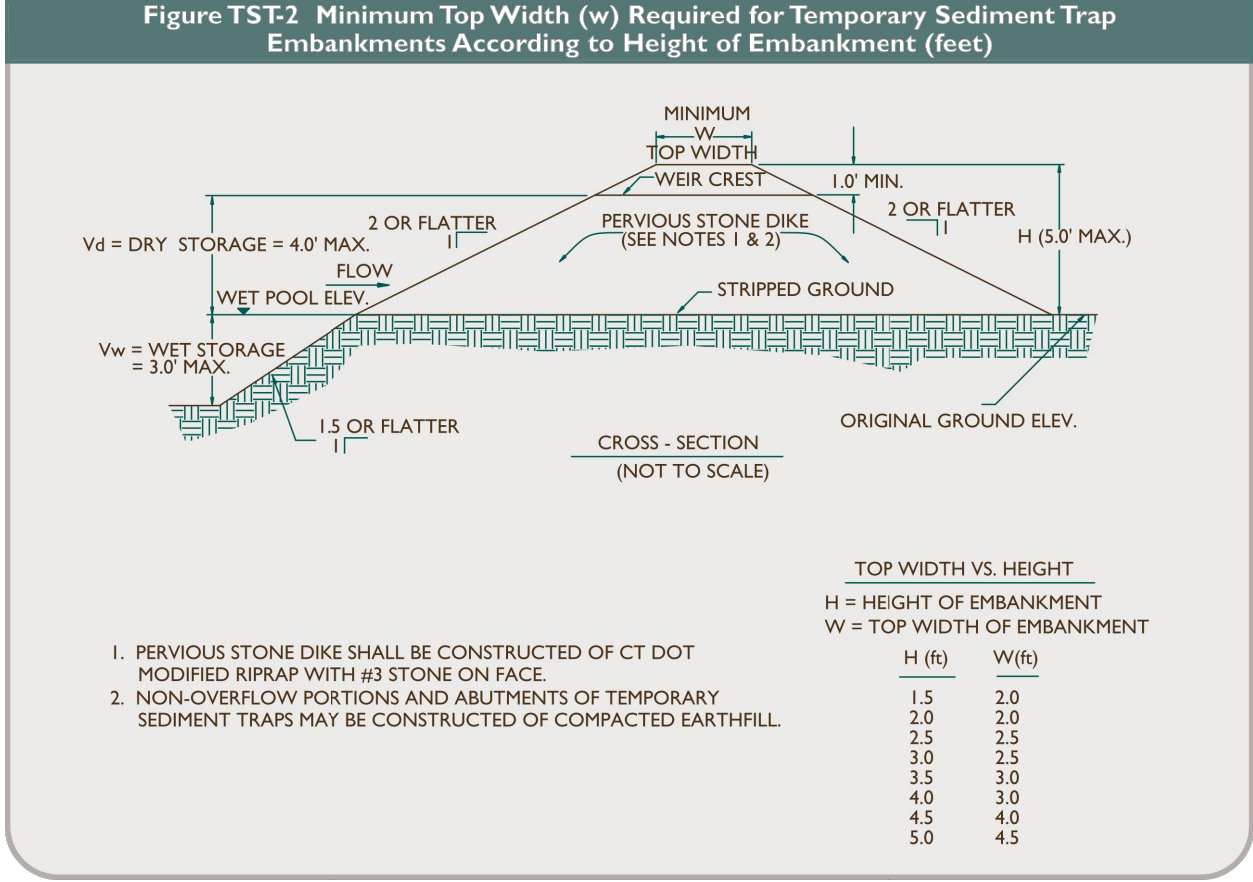
DRAWING NO.

C507

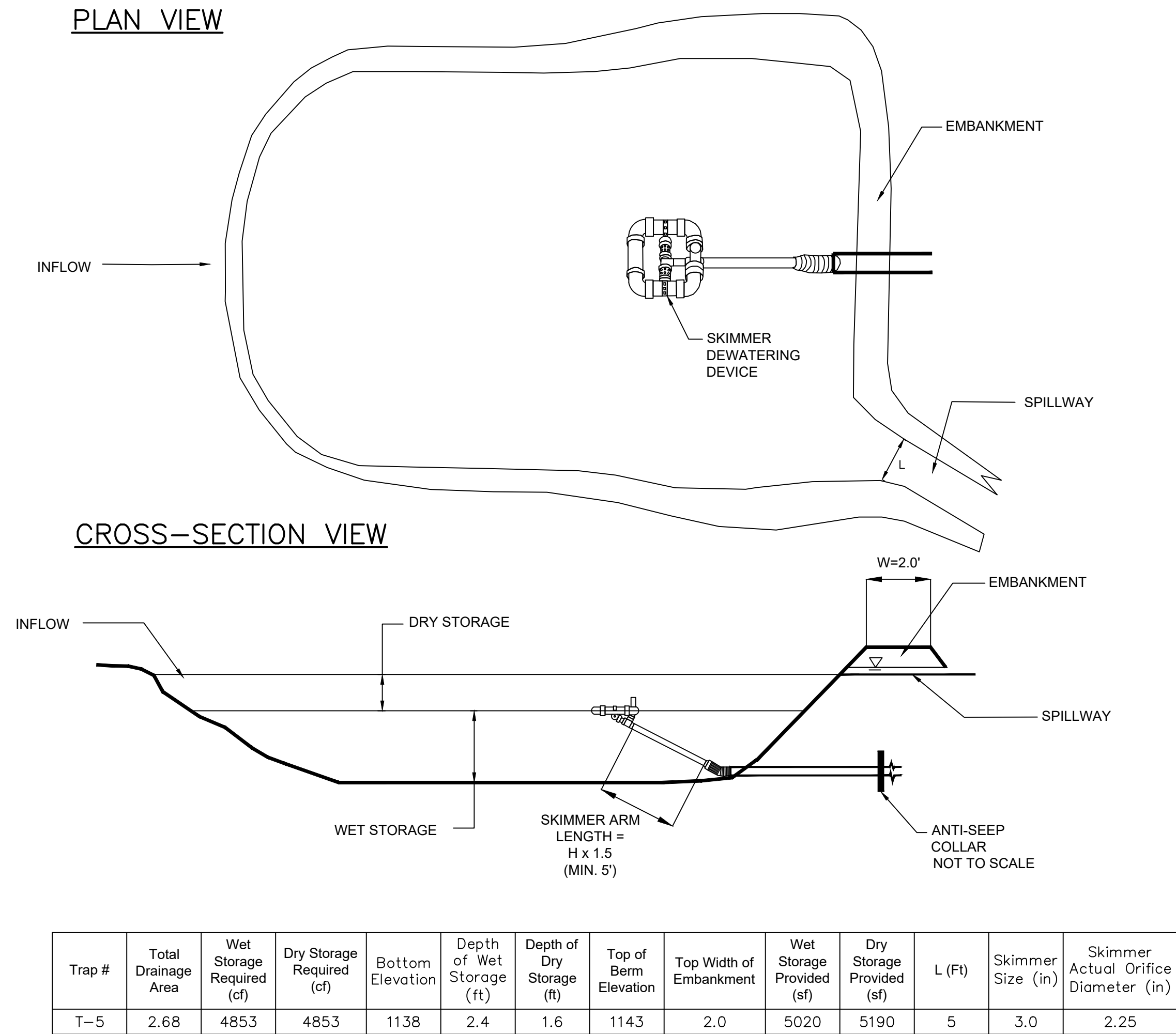
TEMPORARY EROSION CONTROL MATTING

NOT TO SCALE

1



TRAP #	TOTAL DRAINAGE AREA (AC)	WET STORAGE REQUIRED (CF)	DRY STORAGE REQUIRED (CF)	BOTTOM ELEVATION (FT)	DEPTH OF WET STORAGE (FT)	DEPTH OF DRY STORAGE (FT)	TOP OF BERM ELEVATION (FT)	TOP WIDTH OF EMBANKMENT	WET STORAGE PROVIDED (CF)	DRY STORAGE PROVIDED (CF)
T-1	0.76	1,376	1,376	1247	1.0	1.0	1126	2.0	1,443	1,909
T-2a	3.85	6,972	6,972	1084	2.35	1.65	1089	4.5	7,267	7,033
T-2b	3.88	7,026	7,026	1040	2.3	1.7	1045	4.5	7,270	7,176
T-8/10a	3.55	6,428	6,428	1136	2.3	1.7	1141	4.5	6,664	6,603
T-8/10b	3.32	6,012	6,012	1122	2.3	1.7	1127	3.0	6,664	6,603
T-11	3.14	5,686	5,686	1189	2.3	1.7	1194	2.0	5,933	5,989
T-12	3.18	5,758	5,758	1184	2.5	1.5	1189	2.0	7,228	6,667
T-14	4.60	8,330	8,330	1144	2.3	1.7	1149	2.0	8,531	8,512
T-15	1.89	3,422	3,422	1202	1.75	1.25	1206	2.0	4,110	3,851

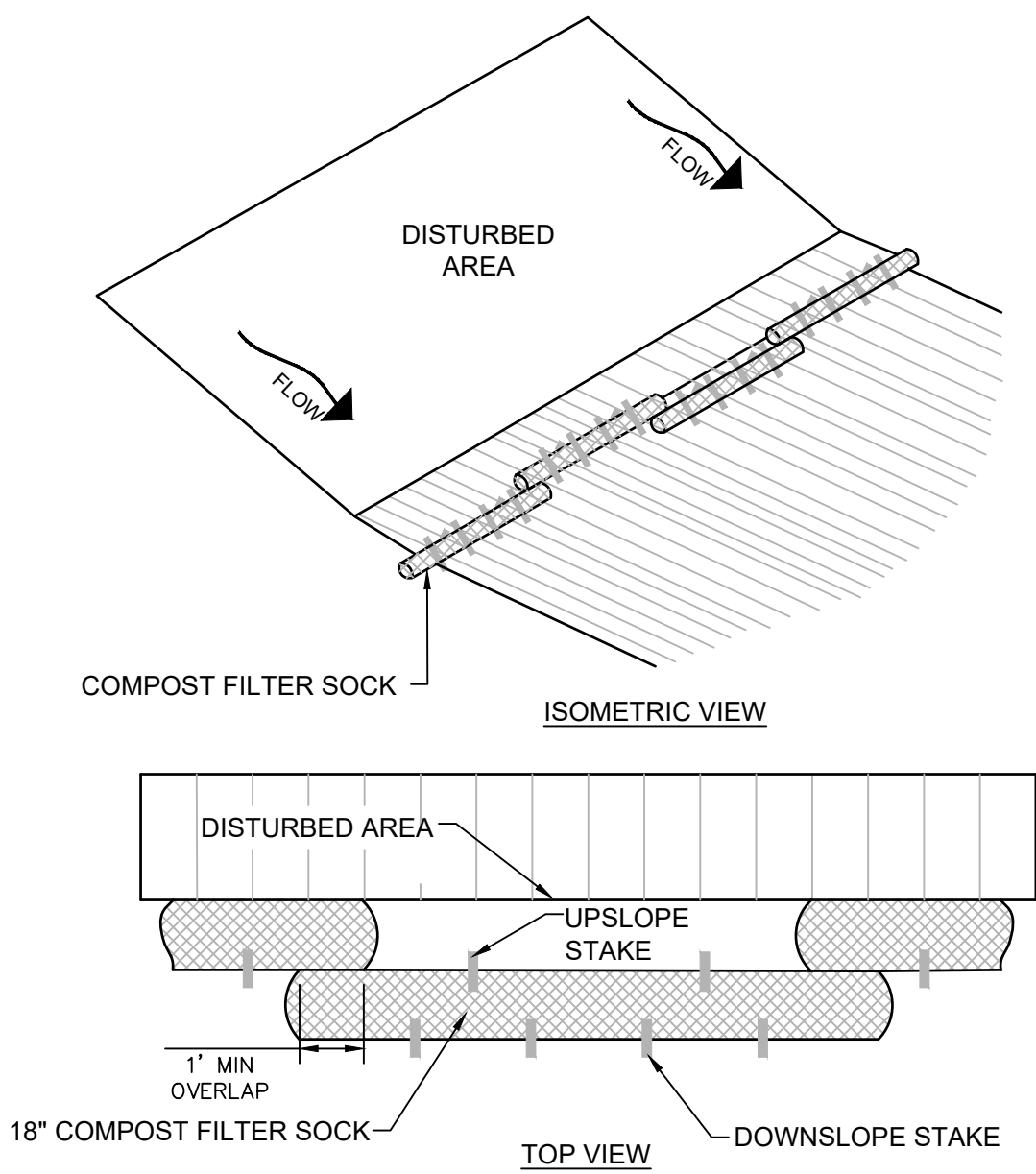


TEMPORARY SEDIMENT TRAPS 1, 2a, 2b, 8/10a, 8/10b, 11, 12, 14, 15

NOT TO SCALE

TEMPORARY SEDIMENT TRAP 5

NOT TO SCALE



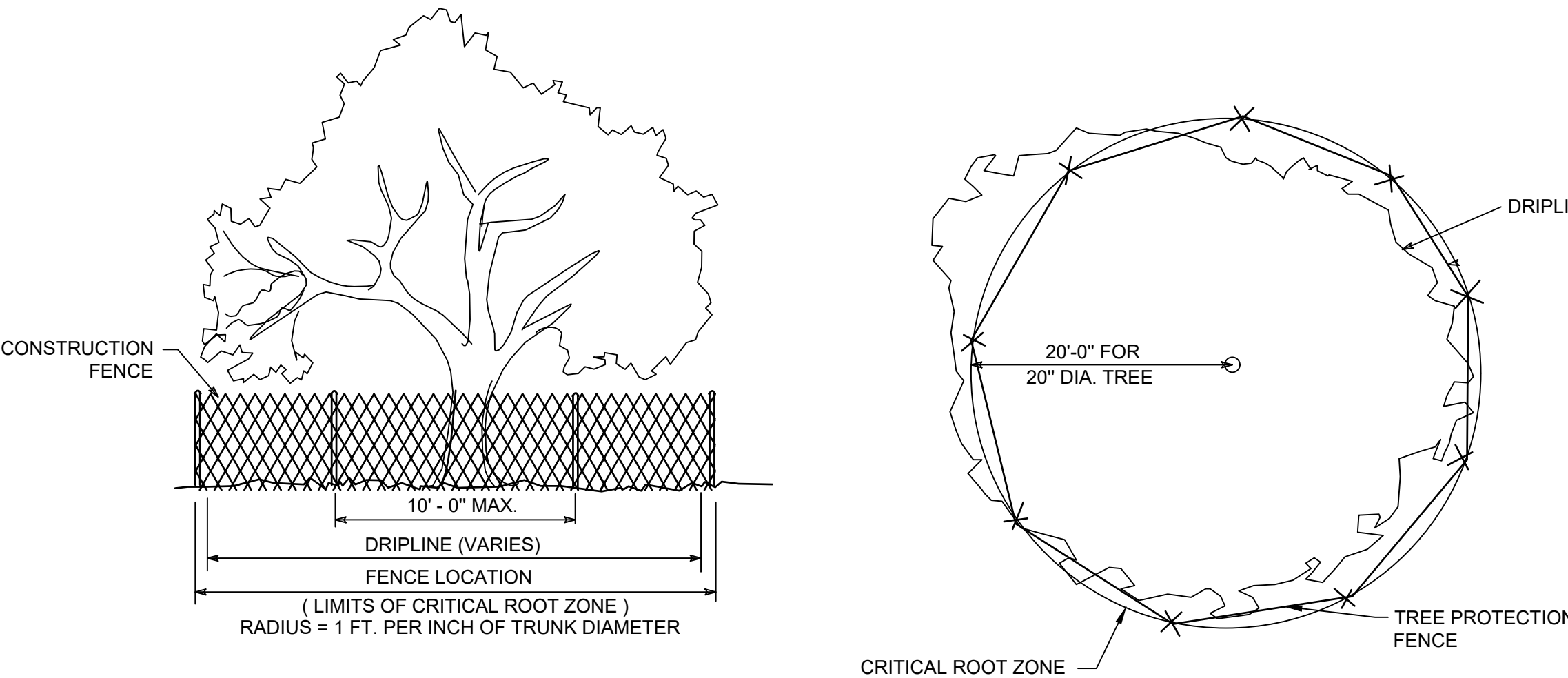
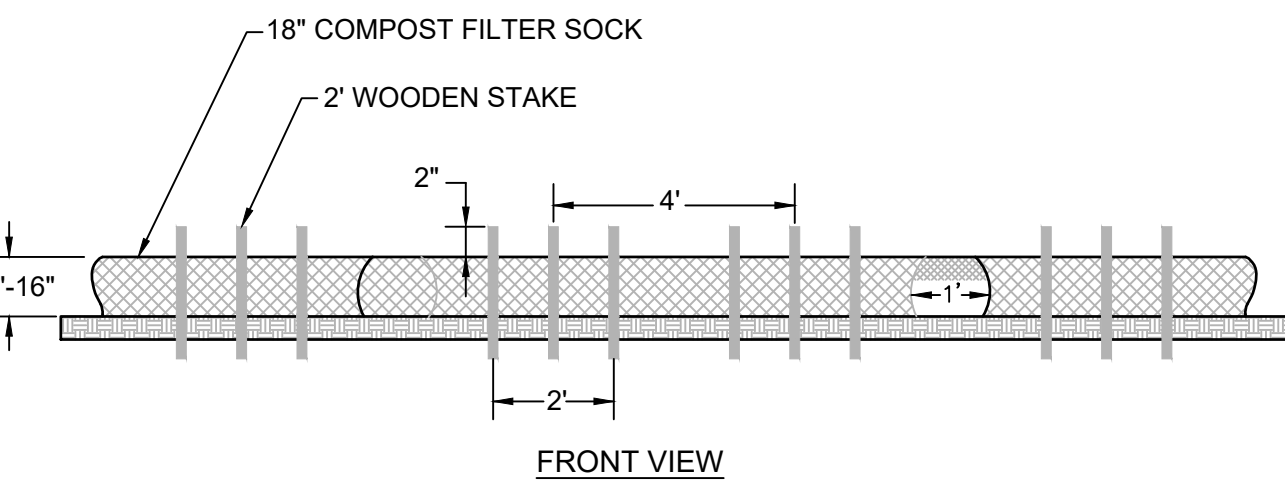
TEMPORARY COMPOST FILTER SOCK

NOT TO SCALE

MAINTENANCE:

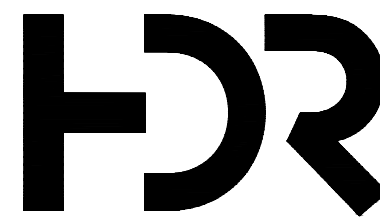
- SEDIMENT DEPOSITS SHALL BE CLEANED FROM THE WATTLES WHEN IT REACHES HALF THE HEIGHT OF THE LOG.
- DAMAGED WATTLES SHALL BE REPLACED WITHIN 24 HOURS OF INSPECTION. A SUPPLY OF WATTLES SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE.

Table 1.	
Slope	Barrier Row Spacing
<2%	100 feet
2 to 5%	75 feet
5 to 10%	50 feet
10 to 33%	25 feet
33 to 50%	20 feet
>50%	Not Permitted



TEMPORARY TREE PROTECTION DETAIL

NOT TO SCALE



NOT FOR CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA
LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

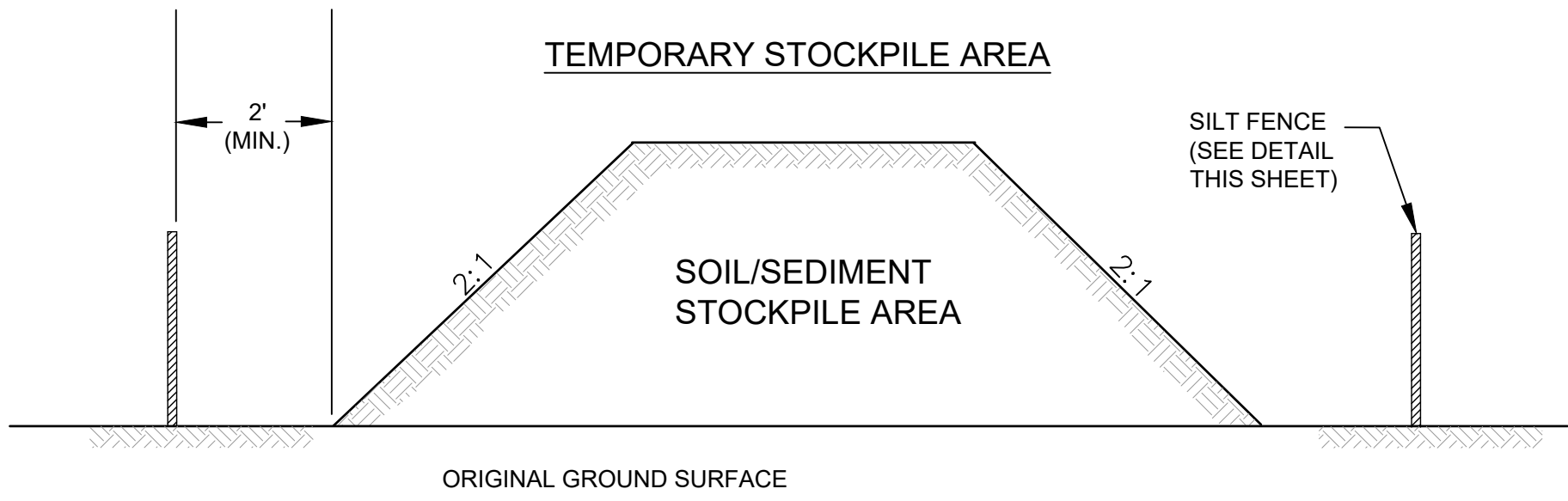
12	RE-ISSUED FOR PERMIT	08/16/23
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REV. NO	DESCRIPTION	DATE

SHEET TITLE:

EROSION AND SEDIMENT CONTROL DETAILS 4

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: AS NOTED
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C508

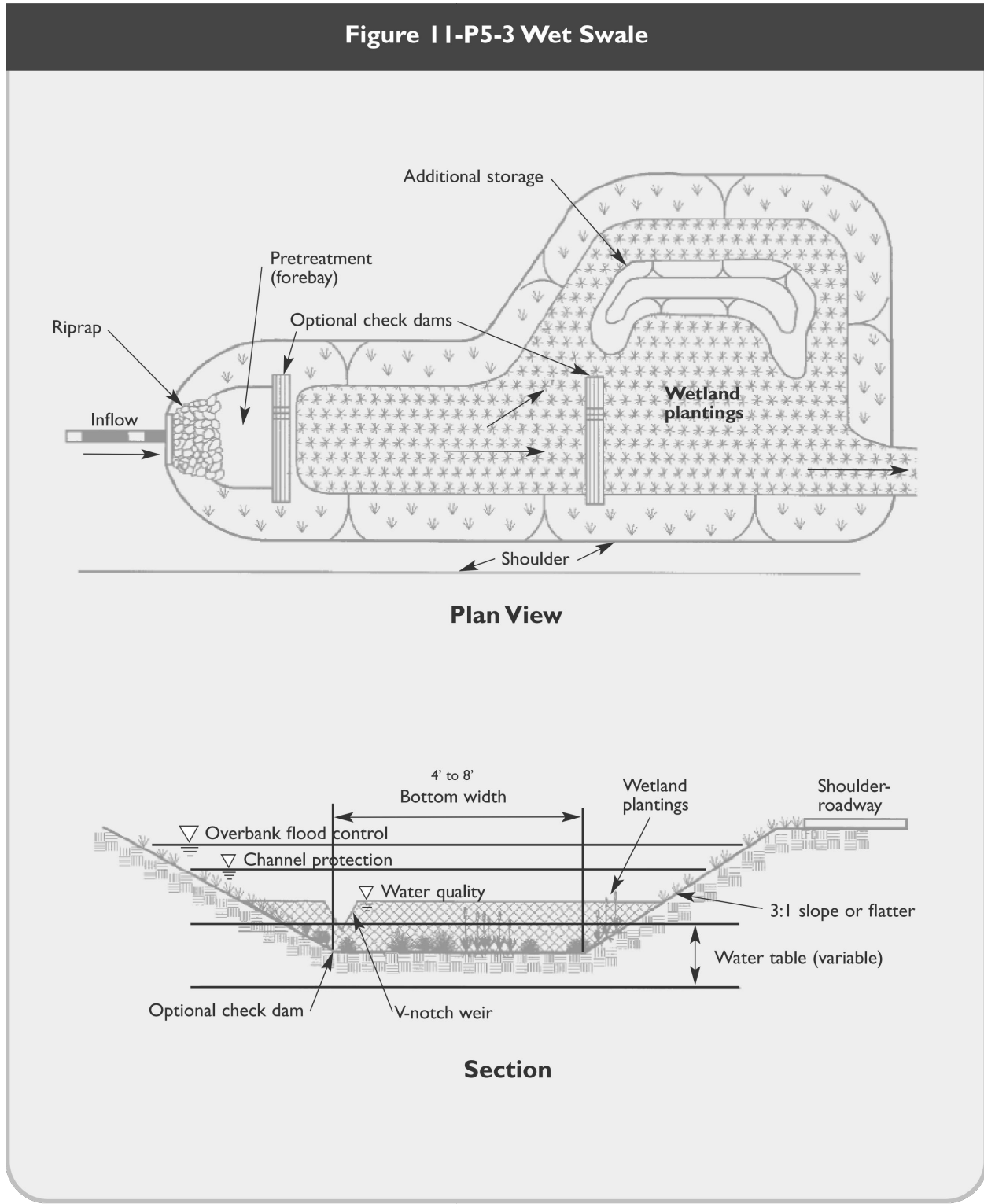


TEMPORARY STOCKPILE DETAIL

NOT TO SCALE

NOTES:

1. SILT FENCE TO EXTEND AROUND ENTIRE PERIMETER OF STOCKPILE, OR IF STOCKPILE AREA IS LOCATED ON/NEAR A SLOPE THE SILT FENCE IS TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.
2. IF STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.
3. SILT FENCE SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.
4. THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
5. WATER TO BE APPLIED BY SPRAYER TO STOCKPILE TO KEEP DUST DOWN. AVOID EXCESS WATER THAT CAN CAUSE EROSION PROBLEMS.



Wet Swales for Quantity and Quality		
	SWALE 11	SWALE 14
Spillway Length (ft)	20	20
Top of Berm	1192.50	1148.50
100 Year Water Elevation	1191.43	1148.27
2 Year Water Elevation	1191.02	1147.76
10 Year Water Elevation	1191.22	1147.95
Water Quality Elevation	1190.80	1146.80
Spillway Elevation	1191.00	1147.50
Bottom of Pond	1188.00	1145.00
Slope of Bottom (%)	0.50	0.50
Concrete Check Dam - V-notch Weir Elevation	1189.80	1146.80

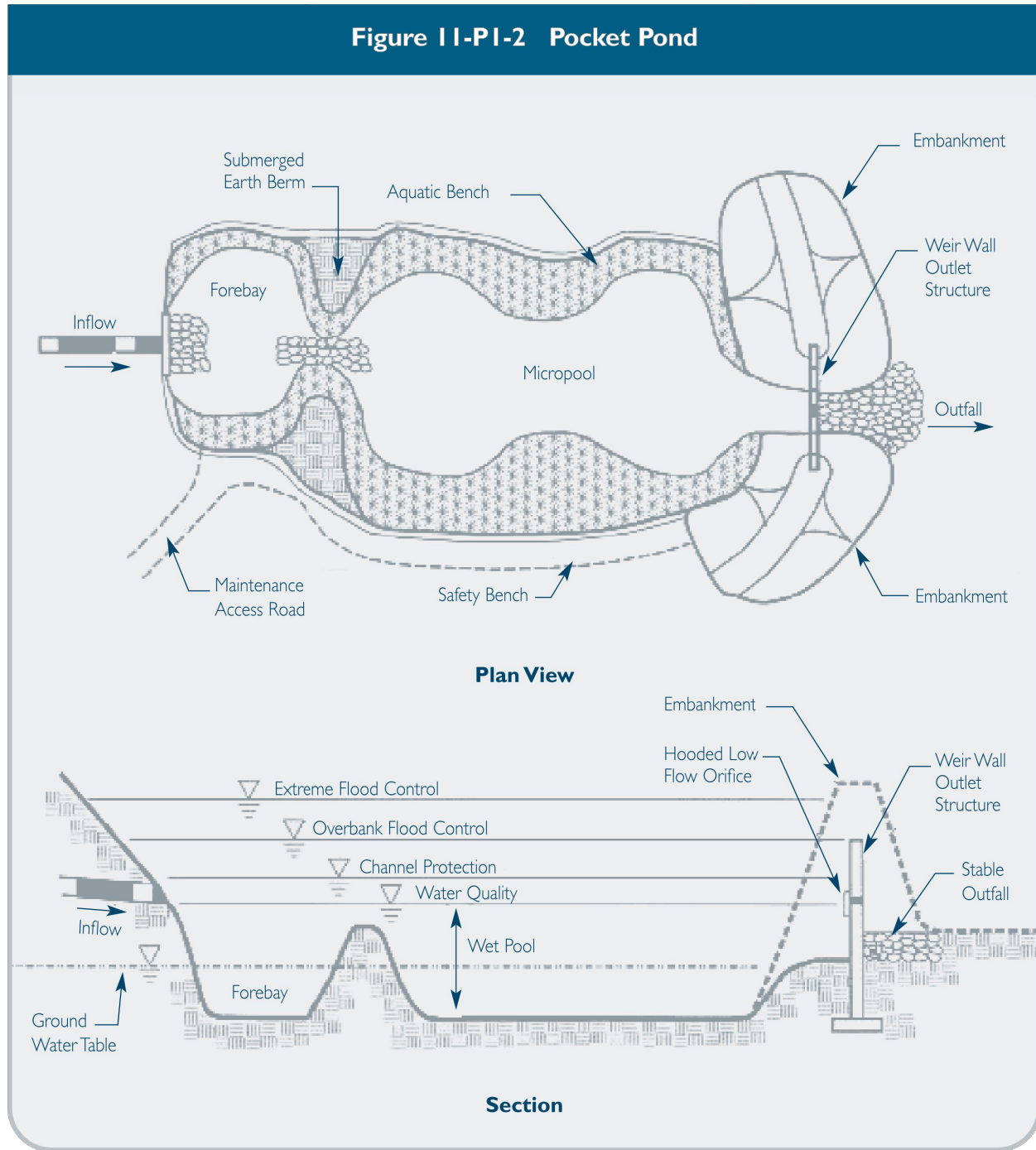
Wet Swales for Quality Only (Discharging to Dry Ponds)							
Ditch	Weighted Peak Runoff 10-yr Event (cfs)	Avg. Slope (%)	Shape	Side Slope z:1	Bott. (ft)	Depth (ft)	Top Width (ft)
1	5.10	0.50%	Trap.	3	8	2	20
3	25.10	2.32%	Trap.	3	4	2	16
5	7.07	4.99%	Trap.	3	4	1	10
7	5.55	1.27%	Trap.	3	6	2	18
8/10a	16.36	3.15%	Trap.	3	8	2	20
8/10b	15.66	3.29%	Trap.	3	4	1.5	13
8/10c	24.01	2.70%	Trap.	3	8	2.5	23
8/10d	21.58	4.97%	Trap.	3	8	1.5	17
9	21.28	4.95%	Trap.	3	8	2	20

*SEE SHEETS C420 AND C431-C433 FOR WEIR ELEVATIONS ALONG WET SWALE PROFILES. WEIR ELEVATIONS HAVE BEEN SET AT THE 10YR STORM DEPTH.

NOTE:
FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

PERMANENT WET SWALE

NOT TO SCALE

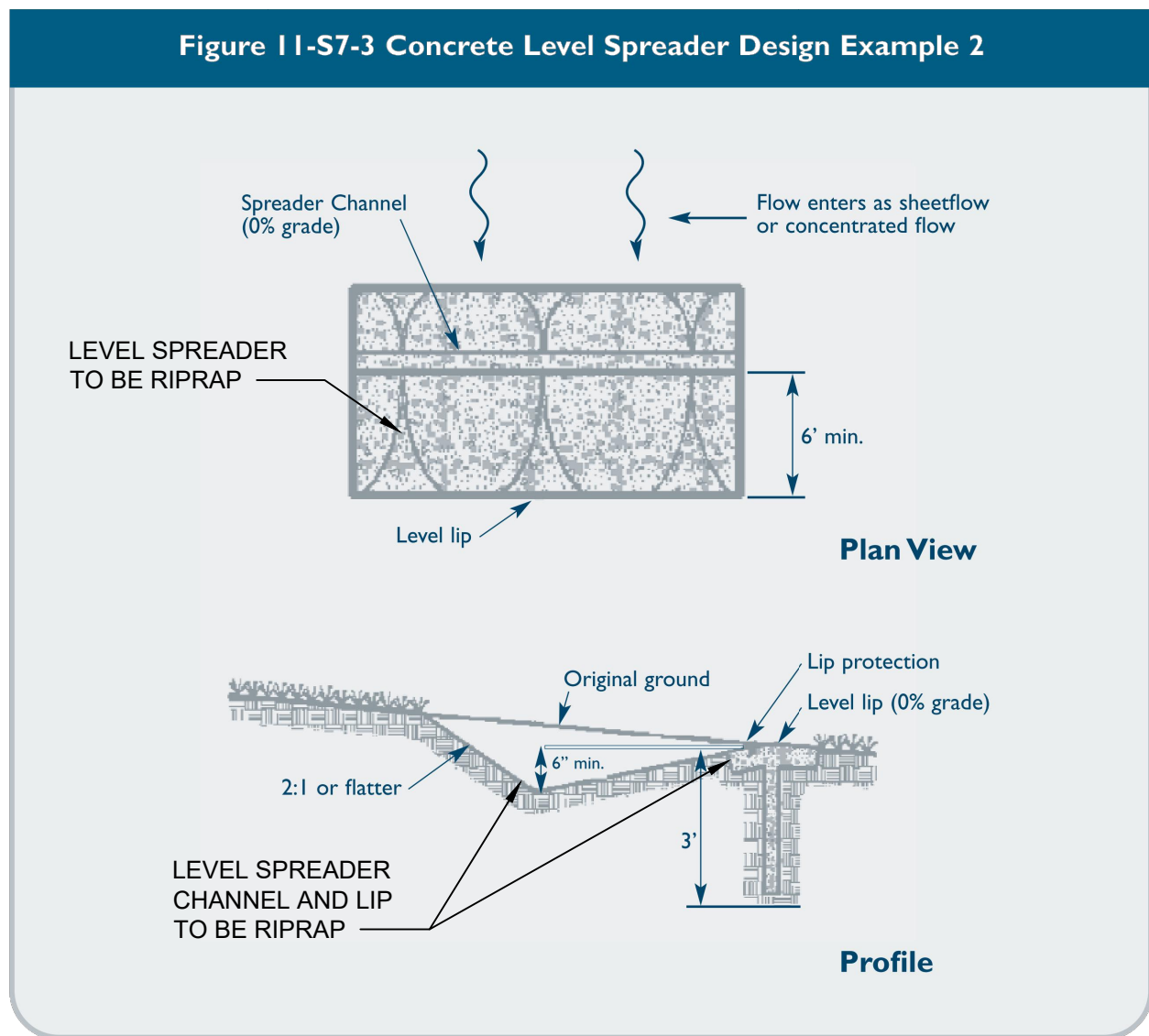


	POND 2a	POND 2b	POND 12
Bottom of Pond Elevation	1082.75	1038.50	1184.00
Low Flow Orifice Elevation	1083.65	1039.50	1186.70
Orifice Diameter (in)	3	3	3
Weir Wall Elevation	1084.50	1040.50	1187.15
Weir Length (ft)	10	10	10
Top of Berm	1085.75	1041.50	1188.00
2 Year Water Elevation	1084.95	1040.61	1187.28
10 Year Water Elevation	1085.45	1040.97	1187.51
100 Year Water Elevation	1085.7	1041.27	1187.69
Emergency Spillway Elevation	1085.25	-	-
Emergency Spillway Length (ft)	20	-	-
Outlet Pipe Invert	1083.65	-	-
Linear Feet of Outlet Pipe	59	-	-
Diameter of Outlet Pipe (in)	18	-	-
Outlet Pipe Slope (Ft/Ft)	0.011	-	-
Outlet Pipe FES Invert	1083.00	-	-

NOTE:
FOR BASINS AND SWALES EXCAVATED INTO ROCK, OR WITHIN 2 FEET OF BEDROCK, UTILIZE AN IMPERMEABLE LINER OF 24" DEEP CLAY OR GEOTEXTILE. THE LINER MUST EXTEND ABOVE THE ELEVATION OF THE EMERGENCY OUTFALL AND MUST BE PROTECTED FROM UPGRADIENT DRAINAGE RUNNING DOWNSLOPE INTO THE BASIN. COVER WITH TOPSOIL, UTILIZE EROSION CONTROL MATTING, AND SEED. FOR SWALES THAT ARE EXCAVATED WHERE ROCK IS NOT ENCOUNTERED DURING EXCAVATION, CONTRACTOR SHALL PROBE SWALE TO ENSURE MINIMUM 24" TO BEDROCK.

PERMANENT POCKET POND

NOT TO SCALE



Source: Adapted from Center for Watershed Protection, 2000.

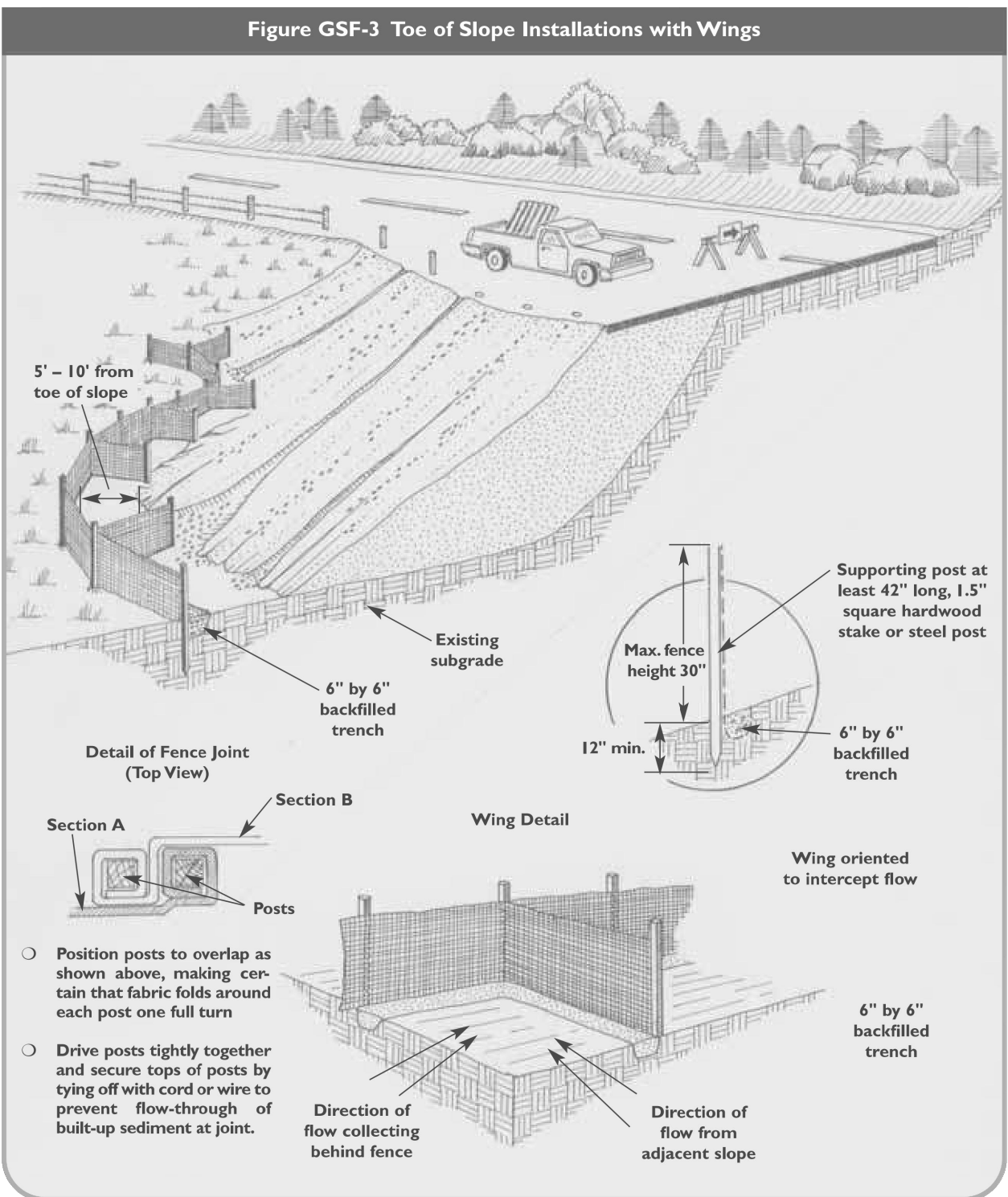
Culvert #	Q (cfs)	Min. Length (ft)	Design Length (ft)	Height of Flow (ft)	Flow Velocity (ft/s)	Elev
POND-1	6.61	85.93	86	0.09	0.84	1121.00
POND-7	8.59	111.67	132	0.08	0.80	1146.00

NOTES:

1. TRENCHES MUST BE STAKED BY A SURVEYOR TO ENSURE THEY ARE BUILT LEVEL.

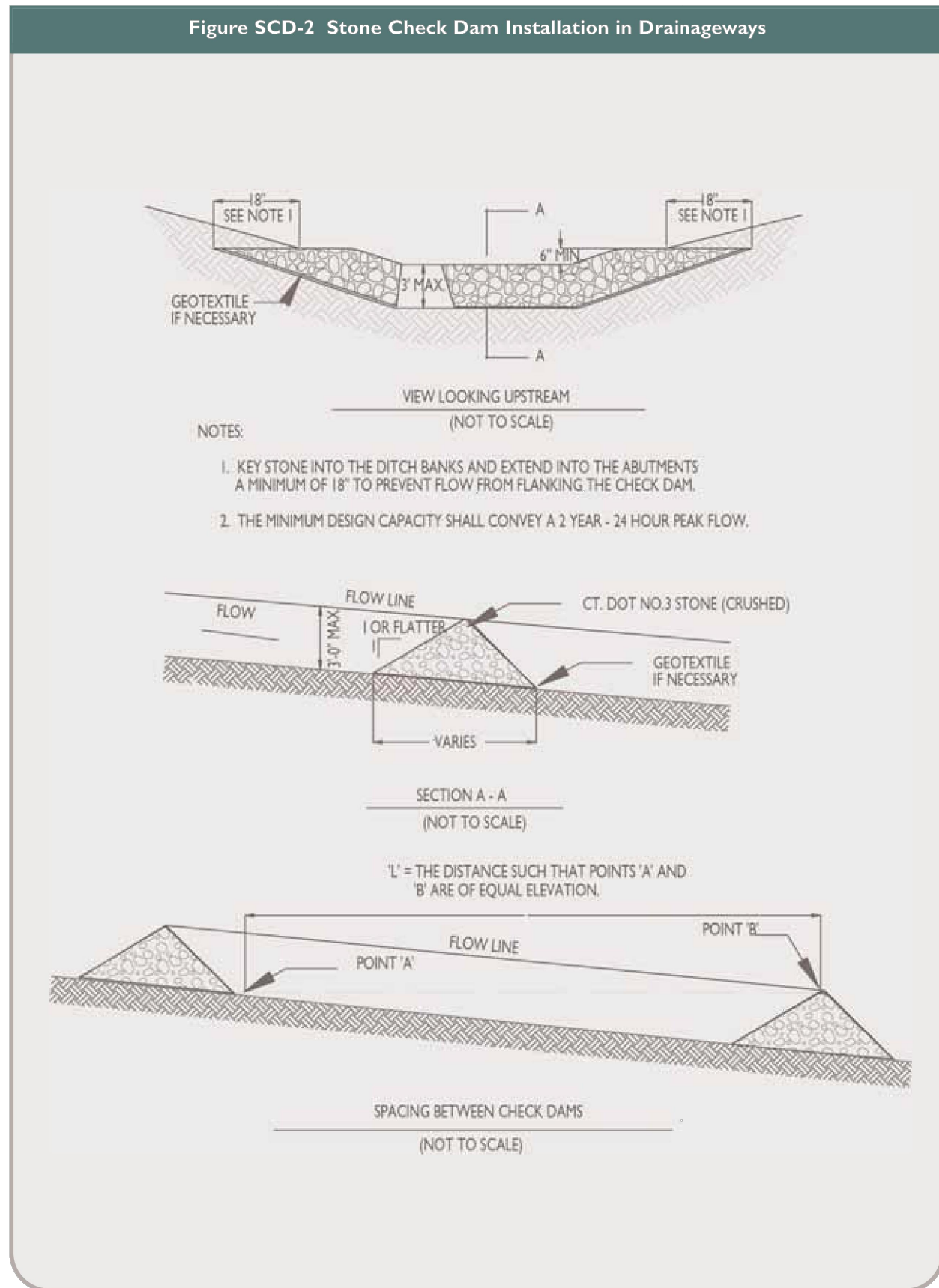
PERMANENT LEVEL SPREADER

NOT TO SCALE



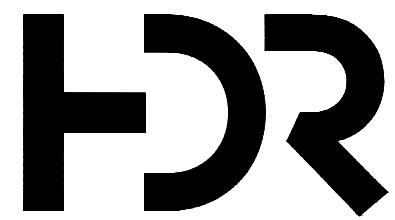
SILT FENCE WITH WINGS

NOT TO SCALE



STONE CHECK DAM

NOT TO SCALE



NOT FOR
CONSTRUCTION

LITCHFIELD SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA

LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

SHEET TITLE:

EROSION AND SEDIMENT CONTROL DETAILS 5

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: AS NOTED
DRAWING NO.		

C509

EARTHEN STOCKPILE MANAGEMENT

1. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

EROSION CONTROL NOTES:

1. If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed until the slope is brought to grade.
2. Where construction activities have permanently ceased or when final grades are reached in any portion of the site, stabilization and protection practices as specified in Chapter 5 of the Guidelines or as approved by the commissioner or his/ her designated agent shall be implemented within seven days. Areas that will remain disturbed but inactive for at least thirty days will receive temporary seeding or soil protection within seven days in accordance with the Guidelines
3. All sediment and erosion control devices shall be inspected once every calendar week. If periodic inspection or other information indicates that a BMP has been inappropriately, or incorrectly, the Permittee must address the necessary replacement or modification required to correct the BMP within 48 hours of identification. Inspections shall be done in accordance with the SWPCP.
4. Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove sediment before being pumped back into any waters of the State.
5. All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.
6. The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from construction areas and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.
7. Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or to divert sediment-laden water to appropriate traps or stable outlets.
8. All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 25-foot buffer can't be maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.
9. Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in storm water discharges.
10. A copy of the SWPCP, inspections records, and rainfall data must be retained at the construction site or a nearby location easily accessible during normal business hours, from the date of commencement of construction activities to the date that final stabilization is reached.
11. Initiate stabilization measures on any exposed steep slope (3H:1V or greater) where land-disturbing activities have permanently or temporarily ceased, and will not resume for a period of 7 calendar days.
12. Minimize soil compaction and, unless infeasible, preserve topsoil.
13. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
14. Minimize the discharge of pollutants from dewatering of trenches and excavated areas. These discharges are to be routed through appropriate BMPs (sediment basin, filter bag, etc.).
15. The following discharges from sites are prohibited and shall be in compliance with the SWPCP:
 - Wastewater from washout of concrete, unless managed by an appropriate control;
 - Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
 - Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
 - Soaps or solvents used in vehicle and equipment washing.
16. After construction activities begin, inspections must be conducted at a minimum of at least once every calendar week and must be conducted until final stabilization is reached on all areas of the construction site. Inspections shall be done in accordance with the SWPCP.
17. If existing BMPs need to be modified or if additional BMPs are necessary to comply with the requirements of this permit and/or

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none">• Temporary grass seed covered with straw or other mulches and tackifiers• Hydroseeding• Rolled erosion control products with or without temporary grass seed• Appropriately applied straw or other mulch• Plastic sheeting	<ul style="list-style-type: none">• Permanent grass seed covered with straw or other mulches and tackifiers• Geotextile fabrics such as permanent soil reinforcement matting• Hydroseeding• Shrubs or other permanent plantings covered with mulch• Uniform and evenly distributed ground cover sufficient to restrain erosion• Structural methods such as concrete, asphalt or retaining walls• Rolled erosion control products with grass seed

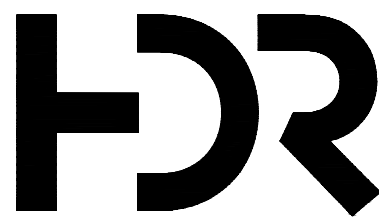
CT's Water Quality Standards, implementation must be completed before the next storm event whenever practicable. If implementation before the next storm event is impracticable, the situation must be documented in the SWPCP inspectoin report and alternative BMPs must be implemented as soon as reasonably possible.

18. A Pre-Construction Conference must be held for each construction site with an approved On-Site SWPCP prior to the implementation of construction activities. For non-linear projects that disturb 10 acres or more this conference must be held on-site unless the Department has approved otherwise.

19. For slopes greater than or equal to 8%, erosion control blankets or stump grindings or erosion control mix mulch or hydroseed with tackifier shall be applied within 72 hours of final grading, or when a rainfall of 0.5 inches or greater is predicted within 24 hours of final grading, whichever time period is less.

20. If the ground is semi-frozen, punch seed disturbed areas (seed applied into soil), allowing the seed to remain wet and germinate during fvorable weather conditions.

21. Install two rows of silt fencing/compost filter sock in areas where the distance from a wetland to the LOD is less than 100 ft.



NOT FOR
CONSTRUCTION

LITCHFIELD
SOLAR

2-298 ROSSI RD
TORRINGTON, CT 06790, USA

LAT: 41.794157°N
LON: 73.168028°W



LITCHFIELD, CT

12	RE-ISSUED FOR PERMIT	08/16/23
11	RE-ISSUED FOR PERMIT	06/09/23
10	RE-ISSUED FOR PERMIT	04/17/23
9	RE-ISSUED FOR PERMIT	02/09/23
8	RE-ISSUED FOR PERMIT	12/07/22
REV. NO	DESCRIPTION	DATE

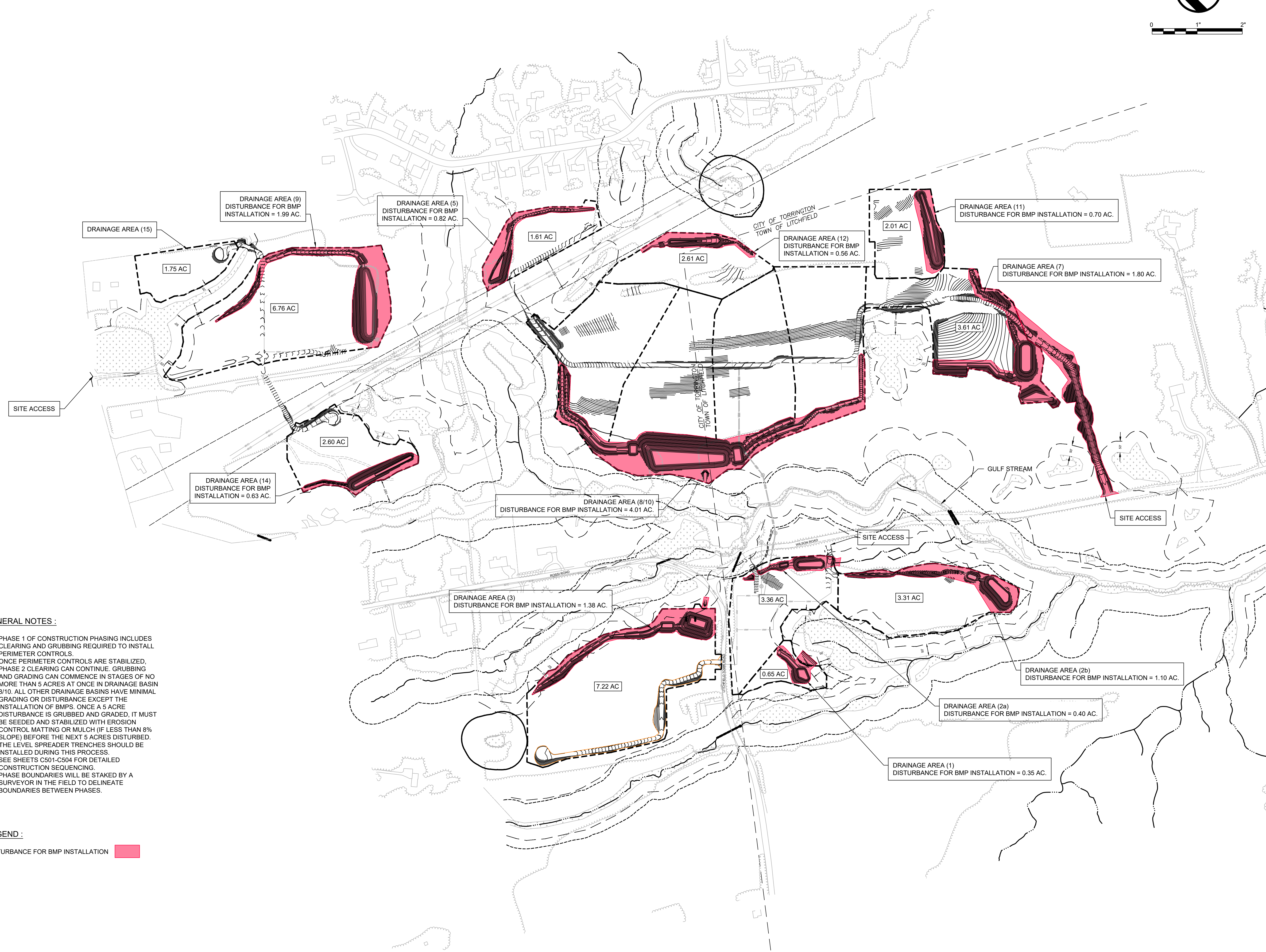
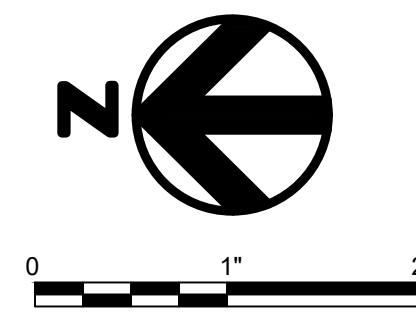
SHEET TITLE:

EROSION AND SEDIMENT
CONTROL NOTES

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: AS NOTED

DRAWING NO.

C510

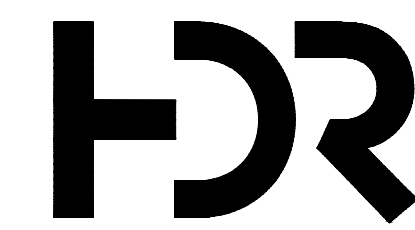


GENERAL NOTES :

1. PHASE 1 OF CONSTRUCTION PHASING INCLUDES CLEARING AND GRUBBING REQUIRED TO INSTALL PERIMETER CONTROLS.
2. ONCE PERIMETER CONTROLS ARE STABILIZED, PHASE 2 CLEARING CAN CONTINUE. GRUBBING AND GRADING CAN COMMENCE IN STAGES OF NO MORE THAN 5 ACRES AT ONCE IN DRAINAGE BASIN 8/10. ALL OTHER DRAINAGE BASINS HAVE MINIMAL GRADING OR DISTURBANCE EXCEPT THE INSTALLATION OF BMPS. ONCE A 5 ACRE DISTURBANCE IS GRUBBED AND GRADED, IT MUST BE SEEDED AND STABILIZED WITH EROSION CONTROL MATTING OR MULCH (IF LESS THAN 8% SLOPE) BEFORE THE NEXT 5 ACRES DISTURBED. THE LEVEL SPREADER TRENCHES SHOULD BE INSTALLED DURING THIS PROCESS.
3. SEE SHEETS C501-C504 FOR DETAILED CONSTRUCTION SEQUENCING.
4. PHASE BOUNDARIES WILL BE STAKED BY A SURVEYOR IN THE FIELD TO DELINEATE BOUNDARIES BETWEEN PHASES.

LEGEND :

DISTURBANCE FOR BMP INSTALLATION



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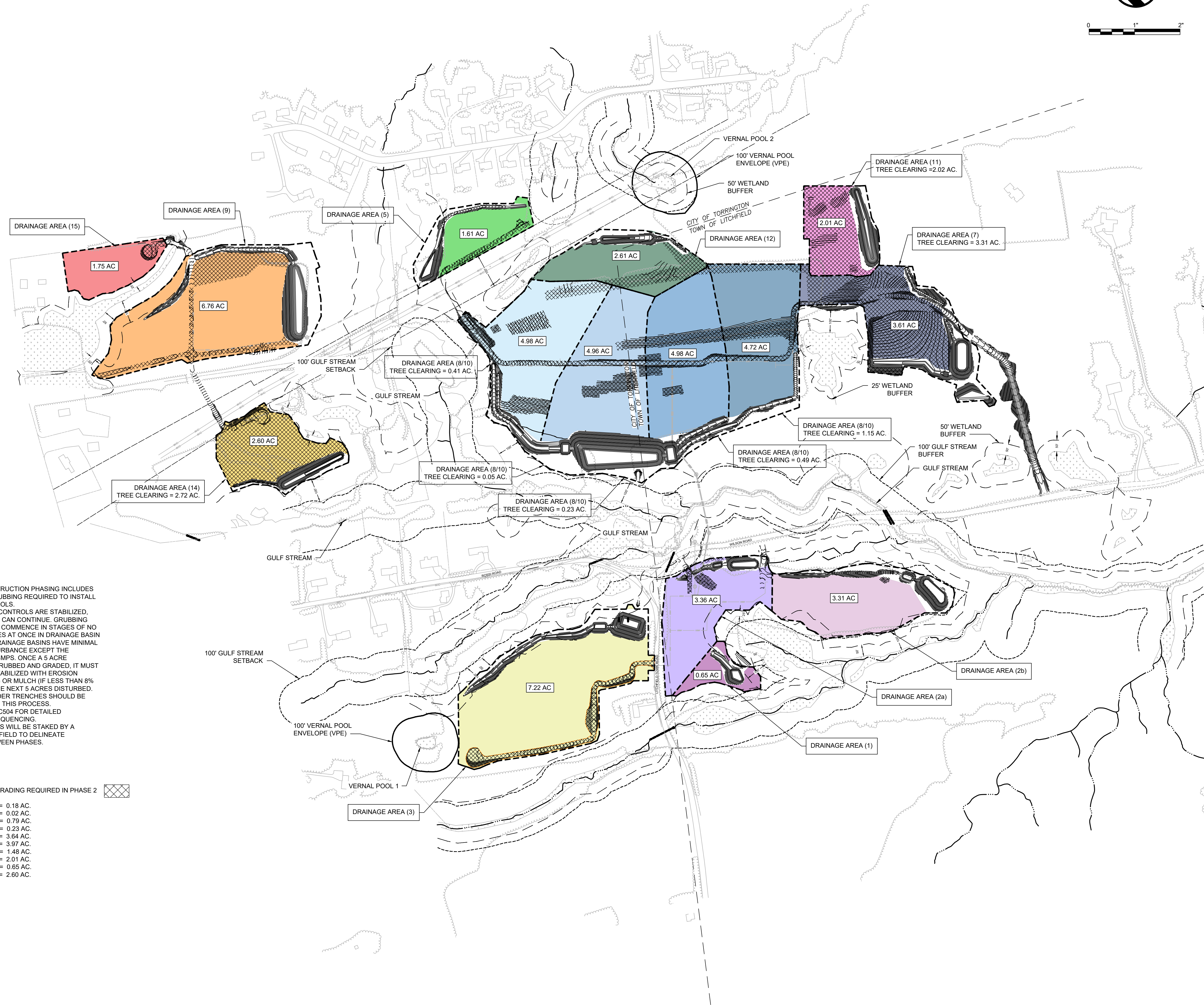
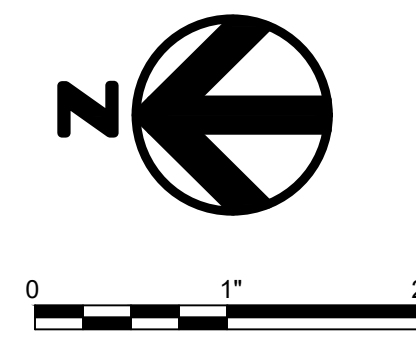
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REV. NO	DESCRIPTION	DATE

SHEET TITLE:

CONSTRUCTION PHASING
PLAN 1

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=200'
DRAWING NO.		

C550



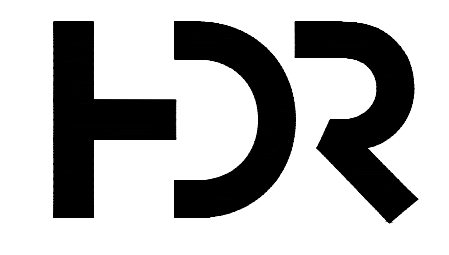
GENERAL NOTES :

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2. ONCE PERIMETER CONTROLS ARE STABILIZED, PHASE 2 CLEARING CAN CONTINUE. GRUBBING AND GRADING CAN COMMENCE IN STAGES OF NO MORE THAN 5 ACRES AT ONCE IN DRAINAGE BASIN 8/10. ALL OTHER DRAINAGE BASINS HAVE MINIMAL GRADING OR DISTURBANCE EXCEPT THE INSTALLATION OF BMPS. ONCE A 5 ACRE DISTURBANCE IS GRUBBED AND GRADED, IT MUST BE SEEDED AND STABILIZED WITH EROSION CONTROL MATTING OR MULCH (IF LESS THAN 8% SLOPE) BEFORE THE NEXT 5 ACRES DISTURBED. THE LEVEL SPREADER TRENCHES SHOULD BE INSTALLED DURING THIS PROCESS.
3. SEE SHEETS C501-C504 FOR DETAILED CONSTRUCTION SEQUENCING.
4. PHASE BOUNDARIES WILL BE STAKED BY A SURVEYOR IN THE FIELD TO DELINEATE BOUNDARIES BETWEEN PHASES.

LEGEND :

TREE CLEARING AND GRADING REQUIRED IN PHASE 2

DRAINAGE AREA (2a) = 0.18 AC.
DRAINAGE AREA (2b) = 0.02 AC.
DRAINAGE AREA (3) = 0.79 AC.
DRAINAGE AREA (5) = 0.23 AC.
DRAINAGE AREA (7) = 3.64 AC.
DRAINAGE AREA (8/10) = 3.97 AC.
DRAINAGE AREA (9) = 1.48 AC.
DRAINAGE AREA (11) = 2.01 AC.
DRAINAGE AREA (12) = 0.65 AC.
DRAINAGE AREA (14) = 2.60 AC.



NOT FOR
CONSTRUCTION

LITCHFIELD
SOLAR

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LITCHFIELD, CT

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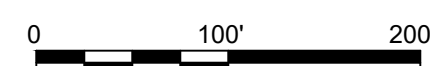
SHEET TITLE:

CONSTRUCTION PHASING
PLAN 2

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1"=200'

DRAWING NO.

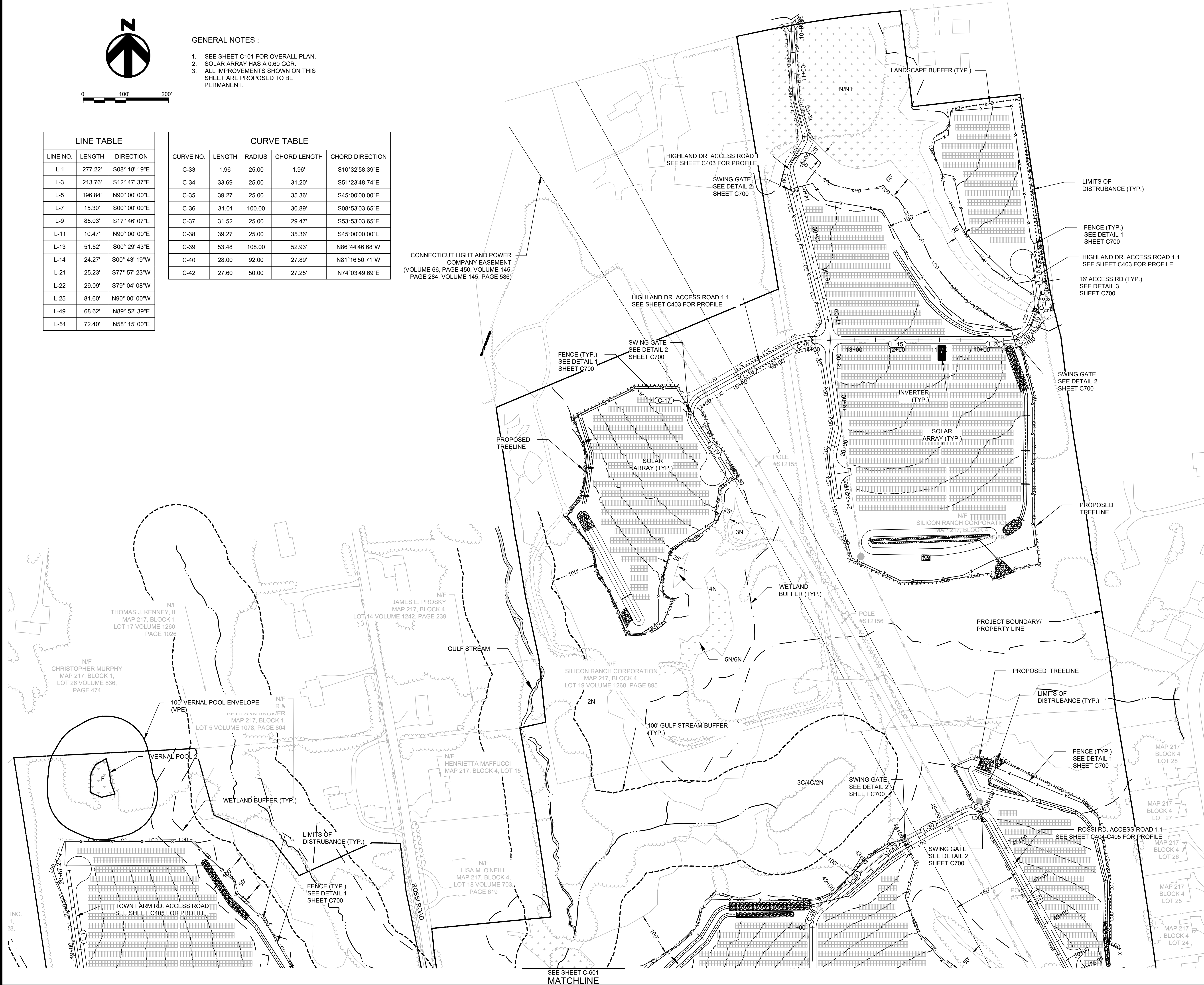
C551



1. SEE SHEET C101 FOR OVERALL PLAN.
2. SOLAR ARRAY HAS A 0.60 GCR.
3. ALL IMPROVEMENTS SHOWN ON THIS SHEET ARE PROPOSED TO BE PERMANENT.

LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L-1	277.22'	S08° 18' 19"E
L-3	213.76'	S12° 47' 37"E
L-5	196.84'	N90° 00' 00"E
L-7	15.30'	S00° 00' 00"E
L-9	85.03'	S17° 46' 07"E
L-11	10.47'	N90° 00' 00"E
L-13	51.52'	S00° 29' 43"E
L-14	24.27'	S00° 43' 19"W
L-21	25.23'	S77° 57' 23"W
L-22	29.09'	S79° 04' 08"W
L-25	81.60'	N90° 00' 00"W
L-49	68.62'	N89° 52' 39"E
L-51	72.40'	N58° 15' 00"E

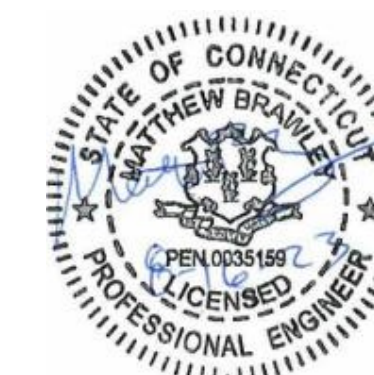
CURVE TABLE				
CURVE NO.	LENGTH	RADIUS	CHORD LENGTH	CHORD DIRECTION
C-33	1.96	25.00	1.96'	S10°32'58.39"E
C-34	33.69	25.00	31.20'	S51°23'48.74"E
C-35	39.27	25.00	35.36'	S45°00'00.00"E
C-36	31.01	100.00	30.89'	S08°53'03.65"E
C-37	31.52	25.00	29.47'	S53°53'03.65"E
C-38	39.27	25.00	35.36'	S45°00'00.00"E
C-39	53.48	108.00	52.93'	N86°44'46.68"W
C-40	28.00	92.00	27.89'	N81°16'50.71"W
C-42	27.60	50.00	27.25'	N74°03'49.69"E



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LITCHFIELD, CT

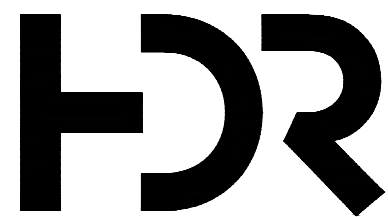
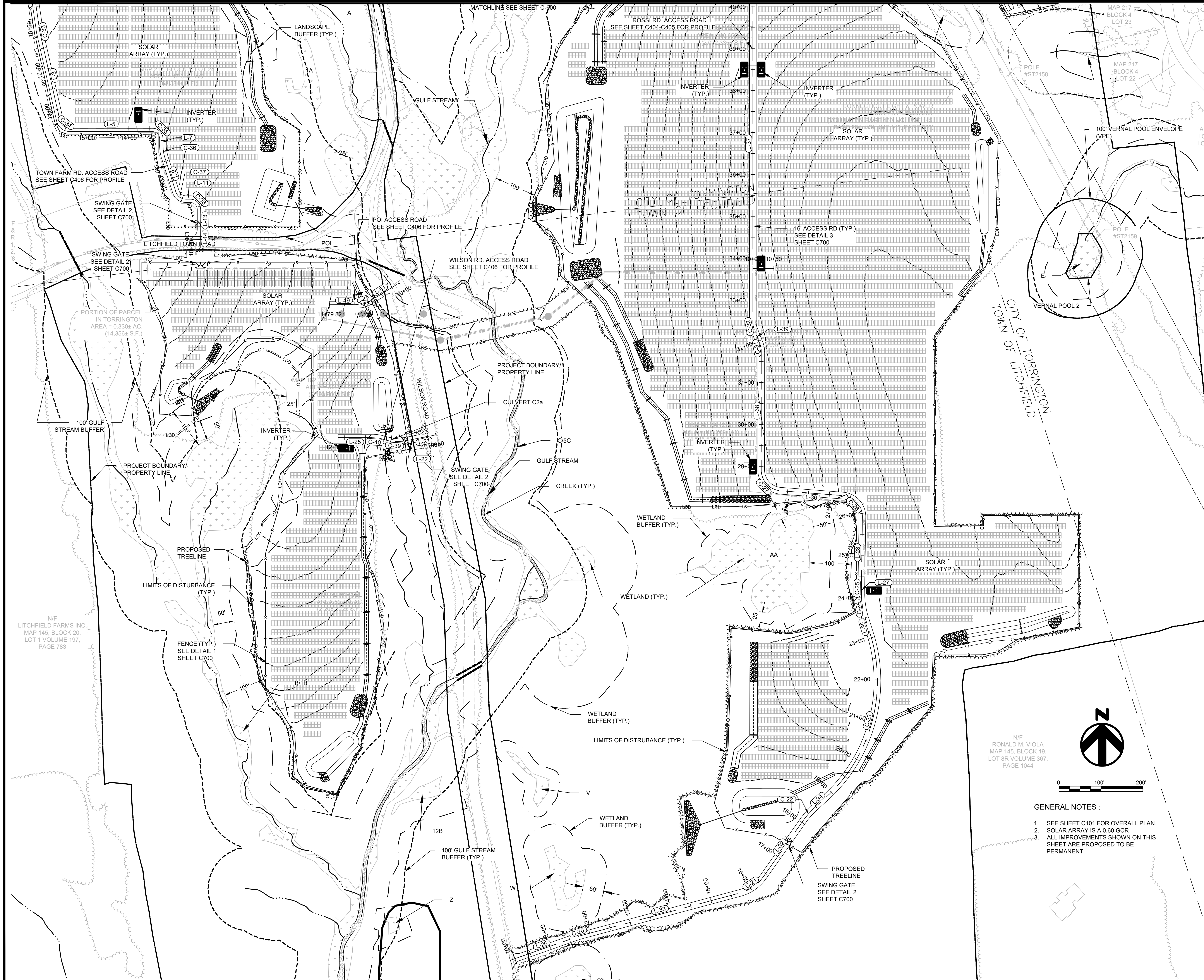
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SHEET TITLE:

SITE PLAN 1

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1:100
DRAWING NO.		

C600



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SHEET TITLE:

SITE PLAN 2

PROJ. MGR. CM	PROJ. ENGR. MB	DATE: 08/16/23
DRAWN BY: JP	CHECKED BY: CP	SCALE: 1:100
DRAWING NO.		

C601

