

POMHAM SOLAR PERMITTING PLANS

PROPERTY:

OFF IRON MINE HILL ROAD
NORTH SMITHFIELD, RI 02896
AP 16 LOTS 18 & 19

LOT 18 PROPERTY OWNER:

JOSEPH AND SANDRA AUTHIER
850 IRON MINE HILL ROAD
NORTH SMITHFIELD, RI 02896

LOT 19 PROPERTY OWNER / PREPARED FOR:

ISLANDER SOLAR, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

JANUARY 7, 2022

REVISED: JULY 19, 2022

PREPARED BY:

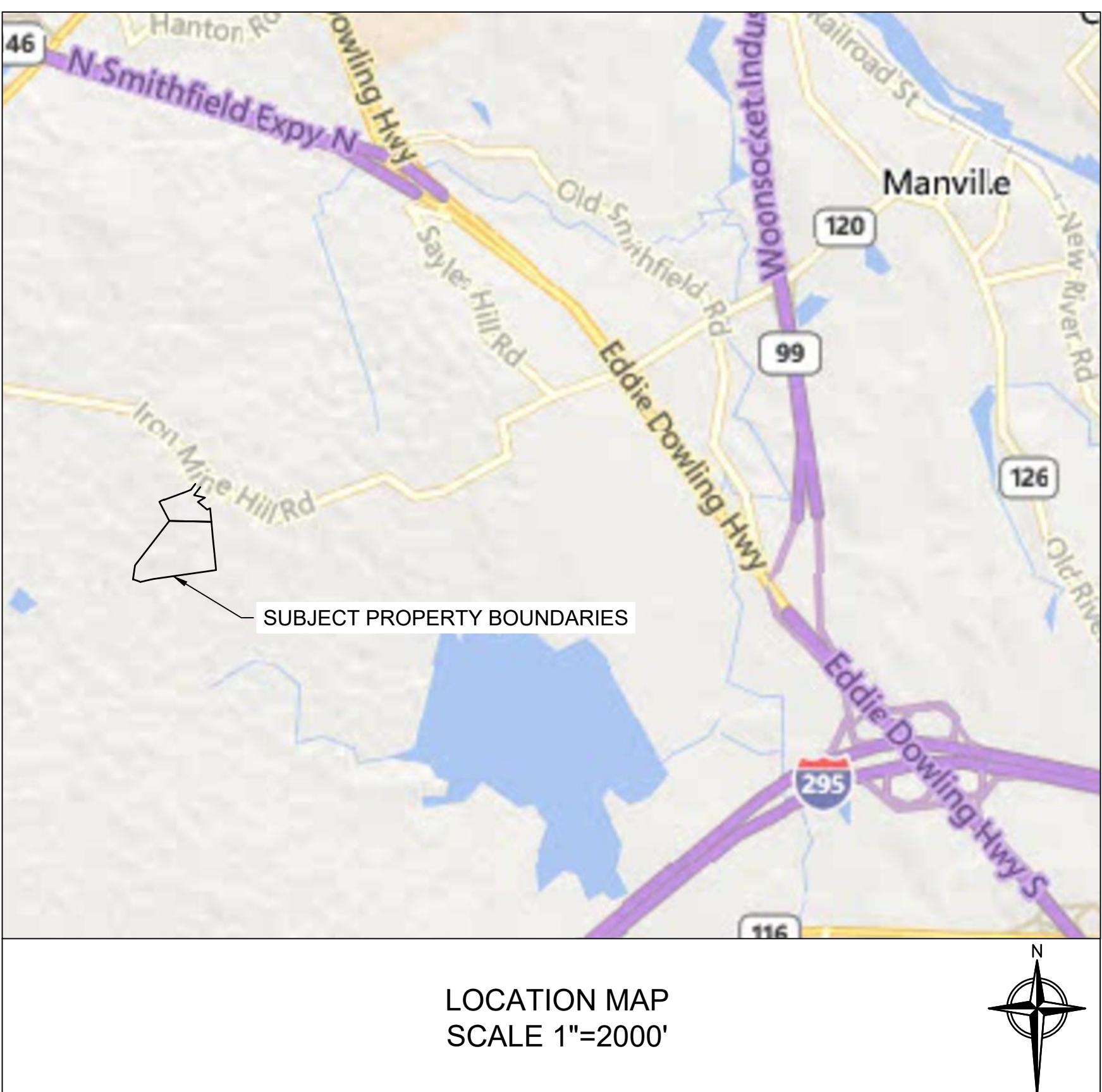


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"LIMITED CONTENT BOUNDARY SURVEY", DATED DECEMBER 19, 2019, NORTHEAST ENGINEERS & CONSULTANTS.	
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FOR PERMITTING ONLY

GENERAL NOTES:

1. BASE PLAN: "LIMITED CONTENT BOUNDARY SURVEY WITH EXISTING CONDITIONS AND TOPOGRAPHY", DATED DECEMBER 17, 2019, NORTHEAST ENGINEERS & CONSULTANTS.
2. ENGINEER'S ENDORSEMENT IS FOR PERMITTING PURPOSES ONLY. PLANS NOT INTENDED FOR CONSTRUCTION.
3. WETLANDS WERE DELINEATED BY TETRATECH IN 2019 AND SUBSEQUENTLY BY ESS IN AUGUST 2019.
4. PORTIONS OF EXISTING TRAIL SCALED FROM RIGIS WINTER 2019-2020 (LEAF-OFF) DIGITAL AERIAL PHOTOGRAPH.
5. A PORTION OF THE SITE IS LOCATED WITHIN A RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT NATURAL HERITAGE AREA. NATURAL HERITAGE AREA BOUNDARY OBTAINED FROM RHODEMAP, RIGIS, AND RIDEM DATED DECEMBER 2021. NATURAL HERITAGE AREA BOUNDARY LOCATIONS ARE APPROXIMATE.
6. SITE IS NOT LOCATED WITHIN A TOWN REGULATED GROUNDWATER PROTECTION OVERLAY DISTRICT.

CONSTRUCTION NOTES:

1. NO CHANGES ARE TO BE MADE UNLESS AUTHORIZED BY THE OWNER.
2. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING, UNDERSTANDING, AND COMPLYING WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, PERMIT CONDITIONS, ETC.
3. ALL PRODUCTS TO BE INSTALLED PER MANUFACTURER'S OR DISTRIBUTOR'S INSTRUCTIONS. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO INSTALLATION.
4. UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM TO RIDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION AMENDED 2018, WITH ALL REVISIONS AND R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.
5. REFER TO CONSTRUCTION RECOMMENDATIONS INCLUDED IN THE "GEOTECHNICAL ENGINEERING REPORT" PREPARED BY TERRACON CONSULTANTS, INC., DATED JANUARY 21, 2021 AS REVISED.
6. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, STREETS, PAVEMENTS, HIGHWAY GUARDS, CURBING, EDGING, TREES AND PLANTINGS, ETC. ON OR OFF THE PREMISES, AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AT THE CONTRACTOR'S EXPENSE ANY ITEMS DAMAGED AS A RESULT OF THE CONTRACTOR'S WORK.
7. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, SEDIMENT, GROUNDWATER, OR OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
8. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING AND GENERATED RUBBLE, DEBRIS AND OTHER DELETERIOUS MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS AND ALL APPLICABLE CODES AND REGULATIONS.
9. THE CONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN A SAFE AND CLEAN CONDITION FOR THE DURATION OF CONSTRUCTION.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
11. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, OR FIRE HYDRANTS WITHOUT APPROPRIATE PERMITS.
12. AREAS OUTSIDE THE LIMITS OF THE PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER.
13. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER.
14. THE CONTRACTOR SHALL USE DESIGNATED LOCATIONS WITHIN THE ESTABLISHED LIMITS OF DISTURBANCE TO ACCESS THE SITE.

CONSTRUCTION SEQUENCE NOTES:

1. PHASING AND CONSTRUCTION SEQUENCE SHALL BE IMPLEMENTED TO MINIMIZE THE AMOUNT OF EARTH DISTURBANCE AT ANY ONE TIME. EARTH DISTURBANCE ACTIVITIES DURING EACH PHASE OF CONSTRUCTION SHALL BE LIMITED TO A MAXIMUM OF 5 ACRES WITH A COMMON DRAINAGE LOCATION. INITIATE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THE AREA HAS TEMPORARILY OR PERMANENTLY CEASED AND PRIOR TO INITIATING LAND DISTURBANCE IN SUBSEQUENT PHASES.
2. WORK ASSOCIATED WITH THE PROJECT IS EXPECTED TO OCCUR IN THE FOLLOWING GENERAL ORDER, THOUGH SOME TASKS MAY OCCUR SIMULTANEOUSLY OR IN A DIFFERENT ORDER BASED ON CONTRACTOR'S MEANS AND METHODS:
 - 2.1. PHASE 1 SITE ACCESS
 - 2.1.1. ERECT OR POST A TWELVE (12) INCH WIDE BY EIGHTEEN (18) INCH LONG WEATHER RESISTANT SIGN WHICH BOLDLY STATES THE RIDEM PERMIT NUMBER. SIGN SHALL NOT BE INSTALLED TO A LIVE TREE.
 - 2.1.2. CLEARLY MARK LIMITS OF DISTURBANCE FOR ALL PHASES.
 - 2.1.3. INSTALL ALL PERIMETER EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES THAT ARE REQUIRED TO BE IN PLACE AND FUNCTIONAL BEFORE ANY SITE WORK BEGINS. THIS SHALL BE DONE IN ACCORDANCE WITH THE RI SESC HANDBOOK. UPON ACCEPTABLE COMPLETION OF SITE PREPARATION AND INSTALLATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES, SITE CONSTRUCTION ACTIVITIES MAY COMMENCE.
 - 2.1.4. MARK SHADE TREES TO BE CUT FOR APPROVAL.
 - 2.1.5. CLEAR TREES AND SELECTIVELY CUT APPROVED SHADE TREES
 - 2.1.6. CLEAR AND GRUB ONLY AREAS REQUIRED TO COMPLETE THE WORK INCLUDED IN PHASE 1.
 - 2.1.7. INSTALL AND MAINTAIN CONSTRUCTION ENTRANCE AND LAYDOWN AREA.

2.2. PHASE 2 SITE STORMWATER CONTROLS

- 2.2.1. INSTALL INTERIOR EROSION AND SEDIMENT CONTROLS.
- 2.2.2. CLEAR AND GRUB ONLY AS NEEDED TO COMPLETE THE WORK INCLUDED IN PHASE 2.
- 2.2.3. INSTALL BASINS.
- 2.2.4. SPECIAL CARE SHALL BE TAKEN TO PREVENT SEDIMENT-LADEN RUNOFF FROM ENTERING THE BASINS. ANY SEDIMENT DEPOSITED WITHIN THE BASINS OR TRAPPED BY THE FILTER SOCK MUST BE PROMPTLY REMOVED. SEDIMENT-LADEN RUNOFF HAS THE POTENTIAL TO ADVERSELY AFFECT THE INFILTRATION CAPACITY OF UNDERLYING SOILS. IF SEDIMENT IS DEPOSITED INTO THE BASINS THE UNDERLYING SOILS MUST BE EXCAVATED TO REMOVE ANY DEPOSITED SEDIMENT AND SUPPLEMENTED TO RE-ESTABLISH THE INFILTRATION CAPACITY OF THE UNDERLYING SOILS TO THEIR PRE-CONSTRUCTION CONDITION.

2.3. PHASE 3 EQUIPMENT AND FENCE INSTALLATION

- 2.3.1. CLEAR AND GRUB ONLY AS NEEDED TO COMPLETE THE WORK INCLUDED IN PHASE 3.
- 2.3.2. INSTALL TEMPORARY SEDIMENT TRAPS.
- 2.3.3. GRADE AND PREPARE AREA WITHIN FENCE AS NECESSARY FOR SOLAR ARRAY INSTALLATION.
- 2.3.4. INSTALL TEMPORARY STABILIZATION.
- 2.3.5. RESTORE TEMPORARY SEDIMENT TRAPS.
- 2.3.6. INSTALL PERIMETER FENCE, SOLAR ARRAY, AND ASSOCIATED WORK.
- 2.3.7. REMOVE AND RESTORE TEMPORARY LAYDOWN AREA BY REMOVING CRUSHED STONE AND FILTER CLOTH AND SUITABLY TILLING AND AMENDING SOILS TO RESTORE INFILTRATION CAPACITY. AERATE ANY EXISTING TURF AREAS THAT HAVE BECOME COMPACTED DURING CONSTRUCTION.

2.4. PHASE 4 FINAL SITE STABILIZATION

- 2.4.1. PERMANENTLY STABILIZE SITE.
- 2.4.2. INSPECT, CLEAN, AND REPAIR ALL BASINS AND FOREBAYS.
- 2.4.3. REMOVE RIDEM PERMIT SIGN, LOD MARKINGS, TEMPORARY POLLUTION PREVENTION MEASURES, AND TEMPORARY EROSION AND SEDIMENT CONTROLS. INSPECT AND REPAIR OR REPLACE PERMANENT FILTER SOCK INSTALLED IN BASIN 1 SAND FILTER.
- 2.4.4. COMPLETE FINAL SITE STABILIZATION OF ALL REMAINING DISTURBED AREAS AFTER REMOVAL OF TEMPORARY EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES.
- 2.4.5. COMPLETE SITE CLEANUP AND RESTORATION.

EROSION & SEDIMENTATION CONTROL NOTES:

1. THE CONTRACTOR IS REQUIRED TO REVIEW AND IMPLEMENT THE SOIL EROSION AND SEDIMENT CONTROL PLAN THROUGHOUT CONSTRUCTION. THE PLAN MUST BE MAINTAINED AT THE SITE. IT IS THE OPERATOR'S RESPONSIBILITY TO MANAGE THE SITE DURING EACH CONSTRUCTION PHASE SO AS TO PREVENT POLLUTANTS FROM LEAVING THE SITE. THIS MAY REQUIRE THE CONTRACTOR TO REVISE AND AMEND THE SESC PLAN DURING CONSTRUCTION TO ADDRESS VARYING SITE AND/OR WEATHER CONDITIONS, SUCH AS BY ADDING OR REALIGNING EROSION OR SEDIMENT CONTROLS TO ENSURE THE SESC PLAN REMAINS COMPLIANT WITH THE RIDES CONSTRUCTION GENERAL PERMIT.
2. EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AS SHOWN HEREIN OR AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL MEASURES TO PREVENT OFF-SITE TRACKING OF EARTH, SEDIMENT AND DEBRIS. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT OF WAYS AT THE END OF EACH DAY.
4. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. THE ENTRANCE SHALL BE APPROXIMATELY 50 FEET LONG, AND SHALL BE MADE OF CRUSHED STONE CONSISTENT WITH RIDOT MATERIAL SPECIFICATION M.01.09 TABLE I, COLUMN II. THE WIDTH OF THE CONSTRUCTION ENTRANCE SHALL BE EQUAL TO THE WIDTH OF THE PROPOSED SITE ENTRANCE. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION THAT SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADS. ALL CONSIDERMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO ROADS SHALL BE REMOVED. DURING WET WEATHER, IT MAY BE NECESSARY TO WASH VEHICLE TIRES AT THESE LOCATIONS PRIOR TO VEHICLES LEAVING THE SITE.
5. PERIMETER SOIL AND EROSION CONTROLS SHALL BE PLACED PRIOR TO ANY CONSTRUCTION ACTIVITIES. CONTRACTOR TO NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES. ALL SOIL AND EROSION CONTROLS SHALL BE CHECKED AND REPAIRED AS NECESSARY.
6. ALL TEMPORARY EROSION, RUNOFF, SEDIMENT, AND POLLUTION PREVENTION CONTROL MEASURES SHALL BE INSTALLED BY THE TIME EACH PHASE OF EARTH DISTURBANCE HAS BEGUN.
7. EXISTING PLANTABLE SOIL SHALL BE PRESERVED TO THE MAXIMUM EXTENT FEASIBLE AND AS NECESSARY TO SUPPORT HEALTHY VEGETATION, PROMOTE SOIL STABILIZATION, AND INCREASE STORMWATER INFILTRATION RATES.
8. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EACH STORM EVENT GREATER THAN 0.25 INCHES OF RAINFALL. ALL DAMAGED FILTER SOCKS SHALL BE REPLACED. ACCUMULATED SEDIMENT SHALL BE STOCKPILED FOR LATER REUSE.
9. INITIATE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THE AREA HAS TEMPORARILY OR PERMANENTLY CEASED. ANY DISTURBED AREA THAT WILL NOT HAVE ACTIVE CONSTRUCTION ACTIVITY OCCURRING WITHIN 14 DAYS MUST BE STABILIZED IN ACCORDANCE WITH THE RI SESC HANDBOOK.
10. TEMPORARY STRAW MULCH, WOOD CHIP MULCH, OR TEMPORARY EROSION CONTROL BLANKETS SHALL BE USED WHERE NON-VEGETATIVE COVER IS REQUIRED FOR A PERIOD GREATER THAN 14 DAYS BUT LESS THAN SIX MONTHS. MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MACHINE RESULTING IN 100% COVERAGE OF THE DISTURBED SOIL. IF ANCHORING IS NECESSARY, TACKIFIERS AND/OR NETTING EITHER WITH THE MULCH OR IMMEDIATELY FOLLOWING MULCH APPLICATION SHALL BE USED.

11. TEMPORARY SEEDING SHALL BE USED WHERE VEGETATIVE COVER IS REQUIRED FOR A PERIOD GREATER THAN ONE MONTH BUT LESS THAN TWELVE MONTHS ON DISTURBED SOIL AREAS. RAPIDLY GROWING ANNUAL GRASSES WILL BE UNIFORMLY APPLIED AT THE RATE ASSOCIATED WITH HYDRAULIC APPLICATION (HYDROSEED). THE SITE SHALL BE CHECKED PERIODICALLY TO ASSESS THE GROWTH OF THE PLANTS. IF SEEDING FAILS TO GROW, THE AREA SHALL BE RE-ESTABLISHED TO PROVIDE ADEQUATE EROSION CONTROL. THE SEED MIXTURE SHALL BE RIDOT TEMPORARY SEED MIX (M18.10.5), OR APPROVED EQUIVALENT.

12. EROSION CONTROL MEASURES SHALL BE REMOVED WHEN THE DISTURBED AREA IS STABILIZED OR AS SPECIFIED BY THE ENGINEER. DISTURBED AREA RESULTING FROM THE FILTER SOCK REMOVAL OPERATION SHALL BE PERMANENTLY SEEDED. ALL ACCUMULATED SEDIMENT SHALL BE STOCKPILED FOR LATER REUSE.

13. ALL DISTURBED OR UNVEGETATED SOIL SHALL HAVE A MINIMUM OF SIX INCHES OF LOAM (RIDOT M.18.01) OR PLANTABLE SOIL (RIDOT M.18.02) PLACED BEFORE BEING PERMANENTLY SEEDED AND MULCHED AS APPROPRIATE. LOAM OR PLANTABLE SOIL FROM AN OFF SITE BORROW SOURCE SHALL BE SAMPLED AND APPROVED FOR USE PRIOR TO ITS DELIVERY TO THE SITE.

14. PERMANENT SEEDING SHALL BE APPLIED WITH A HYDROMULCH APPROVED BY THE ENGINEER. APPROVED HYDROMULCH SHALL BE APPLIED AS PERMANENT SEEDING PRIOR TO INSTALLING EROSION CONTROL BLANKETS OR TURF REINFORCEMENT MATS. GROUNDWATER SEEPAGE OCCURRING AT CUT SLOPES SHALL BE ADDRESSED PRIOR TO INSTALLING HYDROMULCH AND EROSION CONTROL BLANKET/TURF REINFORCEMENT MAT.

15. PERMANENT SEEDING SHALL BE USED ON AREAS SHOWN AND WHERE PERMANENT VEGETATIVE COVER IS NEEDED TO STABILIZE THE SOIL AND REDUCE EROSION AND SEDIMENTATION. RAPIDLY GROWING ANNUAL GRASSES SHALL BE UNIFORMLY APPLIED AT THE RATE ASSOCIATED WITH HYDRAULIC APPLICATION (HYDROSEEDING). THE SEED MIXTURES TO BE USED FOR PERMANENT STABILIZATION ARE SHOWN HEREIN.

16. FULL ADVANTAGE SHALL BE TAKEN OF TIME AND WEATHER CONDITIONS BEST SUITED FOR SEEDING. THE NORMAL DATES FOR PERMANENT SEEDING SHALL BE FROM APRIL 1ST TO MAY 31ST OR AUGUST 15TH TO OCTOBER 15TH. AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION BY NOVEMBER 15TH, MUST BE STABILIZED THROUGH THE USE OF NON-VEGETATIVE EROSION CONTROL MEASURES. AREAS SEEDED BETWEEN MAY 31ST AND AUGUST 15TH SHALL BE COVERED WITH STRAW MULCH. DURING THESE MONTHS, TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING.

17. DUST FROM THE SITE SHALL BE CONTROLLED BY USING COVERED TRUCKS, WETTING EXPOSED SOIL AREAS, SEEDING, INSTALLING WIND SCREENS AND/OR BARRIERS, MINIMIZING UNNECESSARY TRANSFERS AND DISTURBANCES OF EARTH MATERIALS AND ON-GOING CONSTRUCTION CLEAN-UP. SEVERAL APPLICATIONS PER DAY MAY BE NECESSARY DEPENDING UPON WEATHER CONDITIONS AND WORK ACTIVITY. DUST CONTROL TREATMENT AGENTS SHALL NOT BE APPLIED.

18. CARE SHOULD BE TAKEN TO THE BEST OF THE OPERATOR'S ABILITY TO AVOID DISTURBING LARGE AREAS PRIOR TO ANTICIPATED PRECIPITATION EVENTS. AT A MINIMUM, STORM EVENTS MUST BE MONITORED AND TRACKED IN ORDER TO DETERMINE WHEN POST-STORM EVENT INSPECTIONS MUST BE CONDUCTED.

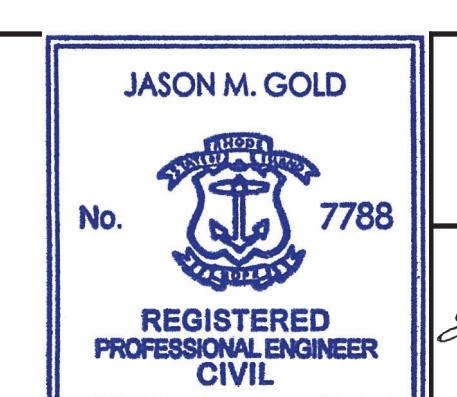
19. INSPECTIONS OF EROSION CONTROLS MUST BE CONDUCTED AND DOCUMENTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER ANY STORM EVENT, WHICH GENERATES AT LEAST 0.25 INCHES OF RAINFALL PER TWENTY-FOUR (24) HOUR PERIOD AND/OR AFTER A SIGNIFICANT AMOUNT OF RUNOFF OR SNOWMELT. ALL DAMAGED FILTER SOCKS SHALL BE REPLACED. ACCUMULATED SEDIMENT SHALL BE STOCKPILED FOR LATER REUSE.

20. FILL MATERIAL SHALL BE FREE OF STUMPS, WOODS, ROOTS, AND OTHER DELETERIOUS MATERIAL.

21. SOIL AND MATERIAL STOCKPILES SHALL BE LOCATED AND MANAGED AS SHOWN HEREIN, AND AS SPECIFIED BY THE ENGINEER. ALL SOIL STOCKPILES SHALL BE SURROUNDED BY EROSION CONTROL BARRIERS REGARDLESS OF THEIR DURATION OF EXPOSURE UNTIL SUCH TIME AS THE MATERIAL IS RESPIRED AND STABILIZED OR TRANSPORTED OFF SITE. STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS SHALL BE TEMPORARILY STABILIZED WITH SEED AND MULCH OR COVERED WITH POLYETHYLENE SHEETING.

TEMPORARY SEDIMENT TRAP NOTES

1. CLEAR, CRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN THREE (3) INCHES AND OTHER DEBRIS.
2. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS. USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX (6) INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9-INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES, SEEDING FOR TEMPORARY VEGETATIVE COVER; SEEDING FOR PERMANENT VEGETATIVE COVER; OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.
4. CARRY OUT CONSTRUCTION OPERATIONS IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
5. INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCH OR GREATER. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. THE HEIGHT OF THE STONE OUTLET OR WEIR CREST SHOULD BE MAINTAINED AT LEAST 1 FOOT BELOW THE CREST OF THE EMBANKMENT. ALSO CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
6. WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS.
7. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.



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STORMWATER BASIN NOTES:

- AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF PLANTABLE SOIL. ALL TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED. ALL GRADED AREAS SHALL BE NO STEEPER THAN 3:1. ALL TREES SHALL BE CLEARED AND GRUBBED WITHIN 15 FEET OF THE TOE OF THE EMBANKMENT, AND WITHIN 25 FEET OF THE PRINCIPAL SPILLWAY OUTLET. AREAS TO BE COVERED BY THE DETENTION BASIN WILL BE CLEARED OF ALL BOULDERS, TREES, BRUSH, LOGS, FENCES, RUBBISH AND OTHER OBJECTIONABLE MATERIAL.
- ALL WORK ON BASIN STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DIKES, LEVEES, COFFERDAMS, DRAINAGE CHANNELS, AND DIVERSION SWALES AS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE DETENTION BASINS.
- THE CONTRACTOR SHALL ALSO FURNISH, INSTALL, OPERATE, AND MAINTAIN ALL NECESSARY PUMPING AND OTHER EQUIPMENT REQUIRED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE WORK AND FOR MAINTAINING THE EXCAVATIONS, FOUNDATION, AND OTHER PARTS OF THE WORK FREE FROM WATER AS REQUIRED OR DIRECTED BY THE ENGINEER FOR CONSTRUCTING EACH PART OF THE WORK. AFTER HAVING SERVED THEIR PURPOSE, ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELED AND GRADED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION IN ANY DEGREE WHATSOEVER OF THE FLOW OF WATER TO THE SPILLWAY OR OUTLET WORKS AND SO AS NOT TO INTERFERE IN ANY WAY WITH THE OPERATION OR MAINTENANCE OF THE STRUCTURE. THE REMOVAL OF WATER FROM THE REQUIRED EXCAVATION AND THE FOUNDATION SHALL BE ACCOMPLISHED IN A MANNER AND TO THE EXTENT THAT WILL MAINTAIN STABILITY OF THE EXCAVATED SLOPES AND BOTTOM REQUIRED EXCAVATIONS AND WILL ALLOW SATISFACTORY PERFORMANCE OF ALL CONSTRUCTION OPERATIONS. DURING THE PLACING AND COMPACTION OF MATERIAL IN REQUIRED EXCAVATIONS, THE WATER LEVEL AT THE LOCATIONS BEING REFILLED SHALL BE MAINTAINED BELOW THE BOTTOM OF THE EXCAVATION AT SUCH LOCATIONS WHICH MAY REQUIRE DRAINING THE WATER SUMPS FROM WHICH THE WATER SHALL BE PUMPED.
- ALL EXCAVATED AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SIGHTLY CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING.
- THE OUTLET PIPE SHALL BE LAID IN A CONCRETE BEDDING / CRADLE FOR ITS ENTIRE LENGTH. THIS BEDDING / CRADLE SHALL CONSIST OF HIGH SLUMP CONCRETE PLACED UNDER THE PIPE AND UP THE SIDES OF THE PIPE AT LEAST 50% OF ITS OUTSIDE DIAMETER WITH A MINIMUM THICKNESS OF 6 INCHES. WHERE A CONCRETE CRADLE IS NOT NEEDED FOR STRUCTURAL REASONS, FLOWABLE FILL MAY BE USED AS DESCRIBED IN NOTE 6 BELOW. GRAVEL BEDDING IS NOT PERMITTED.
- BACKFILL ADJACENT TO PIPES OR STRUCTURES SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTION BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A CONCRETE STRUCTURE OR PIPE, UNLESS THERE IS A COMPACTED FILL OF 24 INCHES OR GREATER OVER THE STRUCTURE OR PIPE. STRUCTURE BACKFILL MAY BE FLOWABLE FILL MEETING THE REQUIREMENTS OF THE FEDERAL HIGHWAY ADMINISTRATION STANDARDS. THE MIXTURE SHALL HAVE A 100-200 PSI, 28-DAY UNCONFINED COMPRESSIVE STRENGTH. THE FLOWABLE FILL SHALL HAVE A MINIMUM PH OF 4.0 AND A MINIMUM RESISTIVITY OF 2,000 OHM-CM. MATERIAL SHALL BE PLACED SUCH THAT A MINIMUM OF 6 INCHES (MEASURED PERPENDICULAR TO THE OUTSIDE OF THE PIPE) OF FLOWABLE FILL SHALL BE UNDER (BEDDING), OVER AND, ON THE SIDES OF THE PIPE. IT ONLY NEEDS TO EXTEND UP TO THE SPRING LINE FOR RIGID CONDUITS. AVERAGE SLUMP OF THE FILL SHALL BE 7 INCHES TO ASSURE FLOWABILITY OF THE MATERIAL. ADEQUATE MEASURES SHALL BE TAKEN (SAND BAGS, ETC.) TO PREVENT FLOATING THE PIPE. ANY ADJOINING SOIL FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED 4 INCHES IN THICKNESS AND COMPACTION BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL SHALL COMPLETELY FILL ALL VOIDS ADJACENT TO THE FLOWABLE FILL ZONE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A CONCRETE STRUCTURE OR PIPE UNLESS THERE IS A COMPACTED FILL OF 24 INCHES OR GREATER OVER THE STRUCTURE OR PIPE. BACKFILL MATERIAL OUTSIDE THE STRUCTURAL BACKFILL (FLOWABLE FILL) ZONE SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE CORE OF THE EMBANKMENT OR OTHER EMBANKMENT MATERIALS.
- FILL MATERIAL - THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6 INCHES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE EMBANKMENT SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL AND MUST HAVE AT LEAST 30% PASSING THE #200 SIEVE. MATERIALS USED IN THE OUTER SHELL OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION OF THE QUALITY REQUIRED TO PREVENT EROSION OF THE EMBANKMENT.
- PLACEMENT - AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. MATERIALS SHALL BE PLACED IN MAXIMUM 8-INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PERMEABLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE PRINCIPAL SPILLWAY MUST BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.
- COMPACTION - THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSED BY NOT LESS THAN ONE TREAD TRACK OF HEAVY EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPSFOOT, RUBBER TIRED OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION WILL BE OBTAINED WITH THE EQUIPMENT USED. THE FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SO THAT IF FORMED INTO A BALL IT WILL NOT CRUMBLE, YET NOT BE SO WET THAT WATER CAN BE SQUEEZED OUT. WHEN REQUIRED BY THE APPROVING AGENCY THE MINIMUM REQUIRED DENSITY SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM. EACH LAYER OF FILL SHALL BE COMPACTION AS NECESSARY TO OBTAIN THAT DENSITY, AND IS TO BE CERTIFIED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. ALL COMPACTION IS TO BE DETERMINED BY AASHTO METHOD T-99 (STANDARD PROCTOR).

UTILITIES NOTES:

- THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES AND UTILITY COMPANIES, IN WRITING, A MINIMUM OF 72 HOURS PRIOR TO ANY CONSTRUCTION WITHIN 15 FEET OF A UTILITY LINE.
- EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT DIGSAFE, NOTIFY ALL NON-MEMBER UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS AND FOR PERFORMING ANY NECESSARY WORK INVOLVED IN CONNECTION WITH THE DISCONTINUANCE OR JURISDICTION OF THE UTILITY COMPANIES, SUCH AS ELECTRICITY, TELEPHONE, WATER, GAS AND ANY SYSTEM OR SYSTEMS WHICH WILL BE AFFECTED BY THE WORK TO BE PERFORMED UNDER THIS CONTRACT.
- UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES.
- IF REQUIRED, OVERHEAD LINES SHALL BE RELOCATED BY THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN EXCAVATING NEAR AND BACKFILLING IN THE VICINITY OF EXISTING UTILITIES, INCLUDING THE USE OF HAND EXCAVATION WHERE APPROPRIATE.

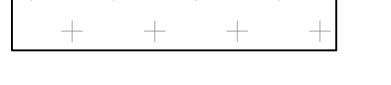
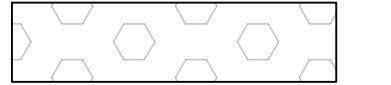
DOCUMENT USE:

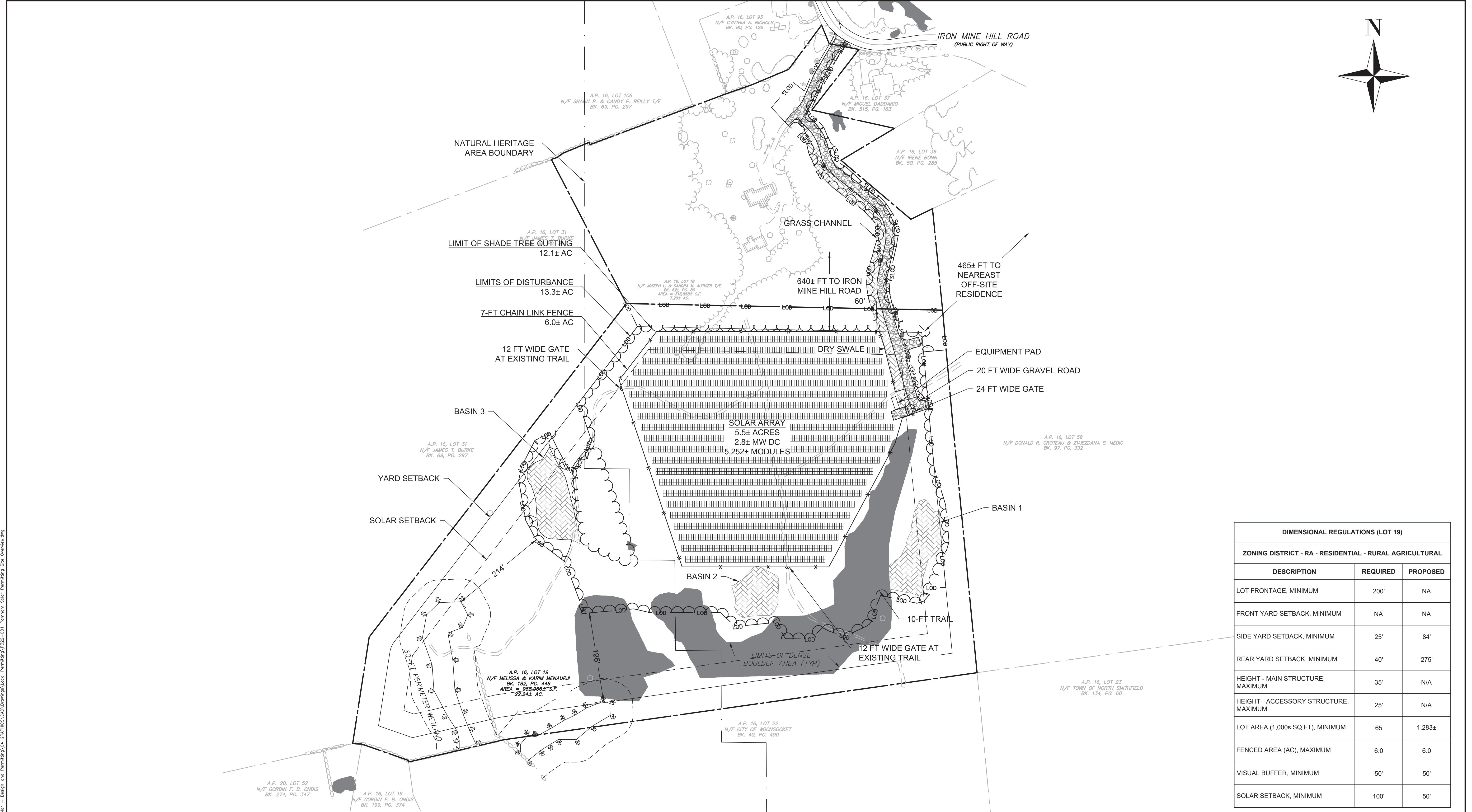
- THESE PLANS AND THE CORRESPONDING CAD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE PREPARED BY ESS GROUP, INC., AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED WRITTEN CONSENT OF ESS GROUP, INC. ANY UNAUTHORIZED USE, REUSE, MODIFICATION, OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT, SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO ESS GROUP, INC.
- CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, OR DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS OR OWNER, BUT SHALL VERIFY LOCATIONS OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS, AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURER'S LITERATURE, SHOP DRAWINGS, AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.

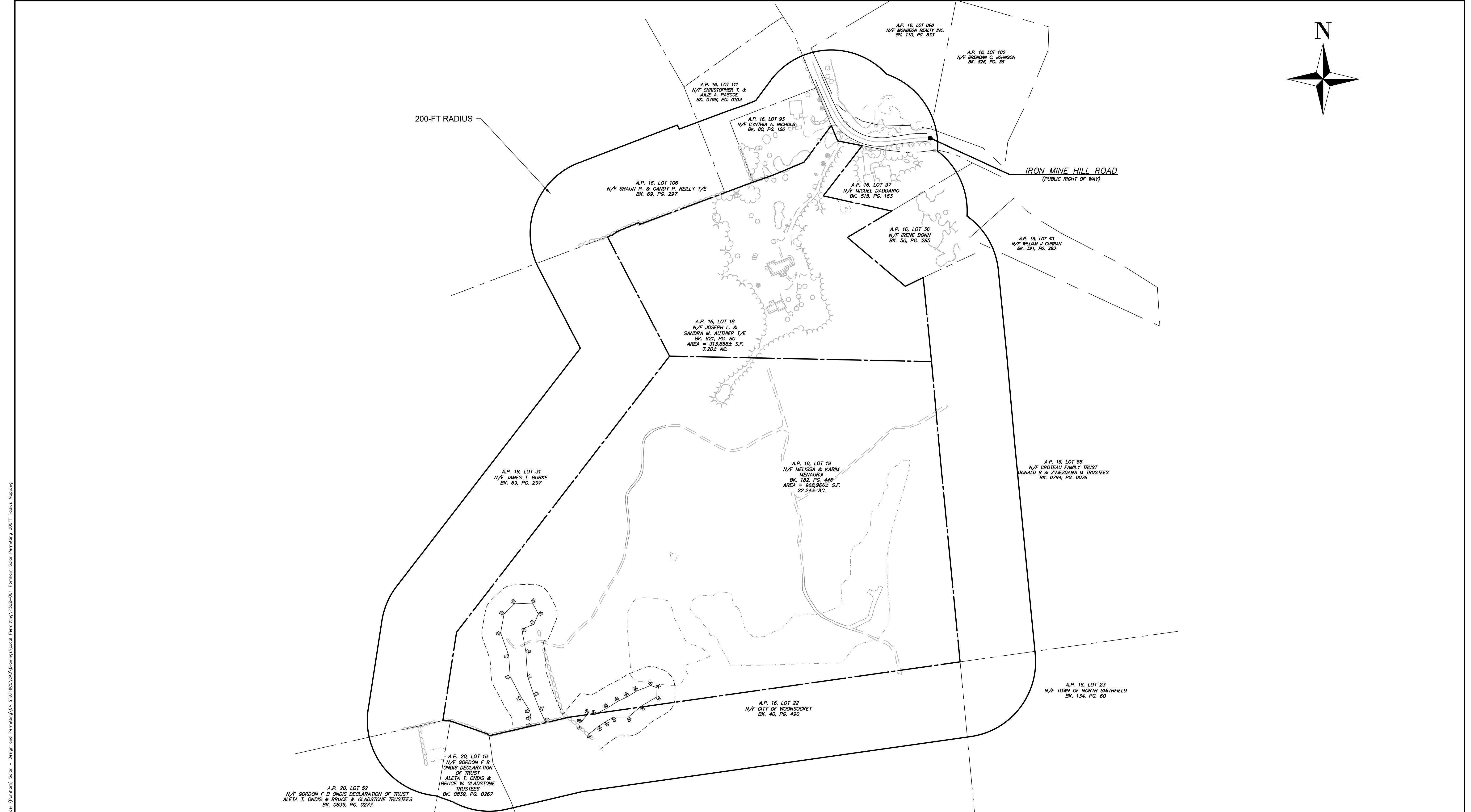
GENERAL GROUND-MOUNTED SOLAR PHOTOVOLTAIC SYSTEM (SPS) NOTES:

- THE CONSTRUCTION OF ALL PROPOSED SPS EQUIPMENT SHALL BE CONSISTENT WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- UTILITY CONNECTIONS FOR THE SPS SYSTEM SHALL BE INSTALLED UNDERGROUND ON THE SUBJECT PROPERTY. ALL ELECTRICAL COMPONENTS OF THE SOLAR PHOTOVOLTAIC SYSTEM SHALL CONFORM TO ALL RELEVANT AND APPLICABLE LOCAL, STATE AND NATIONAL CODES, LAWS AND REGULATIONS.
- THE SPS SHALL BE DESIGNED AND OPERATED TO ELIMINATE SOLAR REFLECTION FROM THE GROUND LEVEL UP TO 35 FEET UPON ALL NEIGHBORING PROPERTIES.

PROPOSED LEGEND

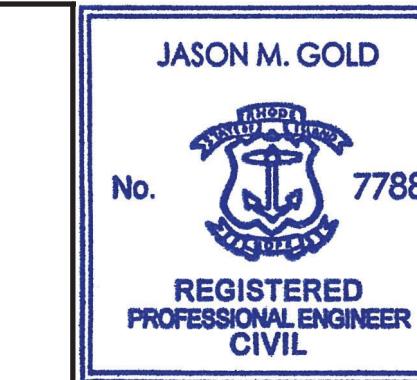
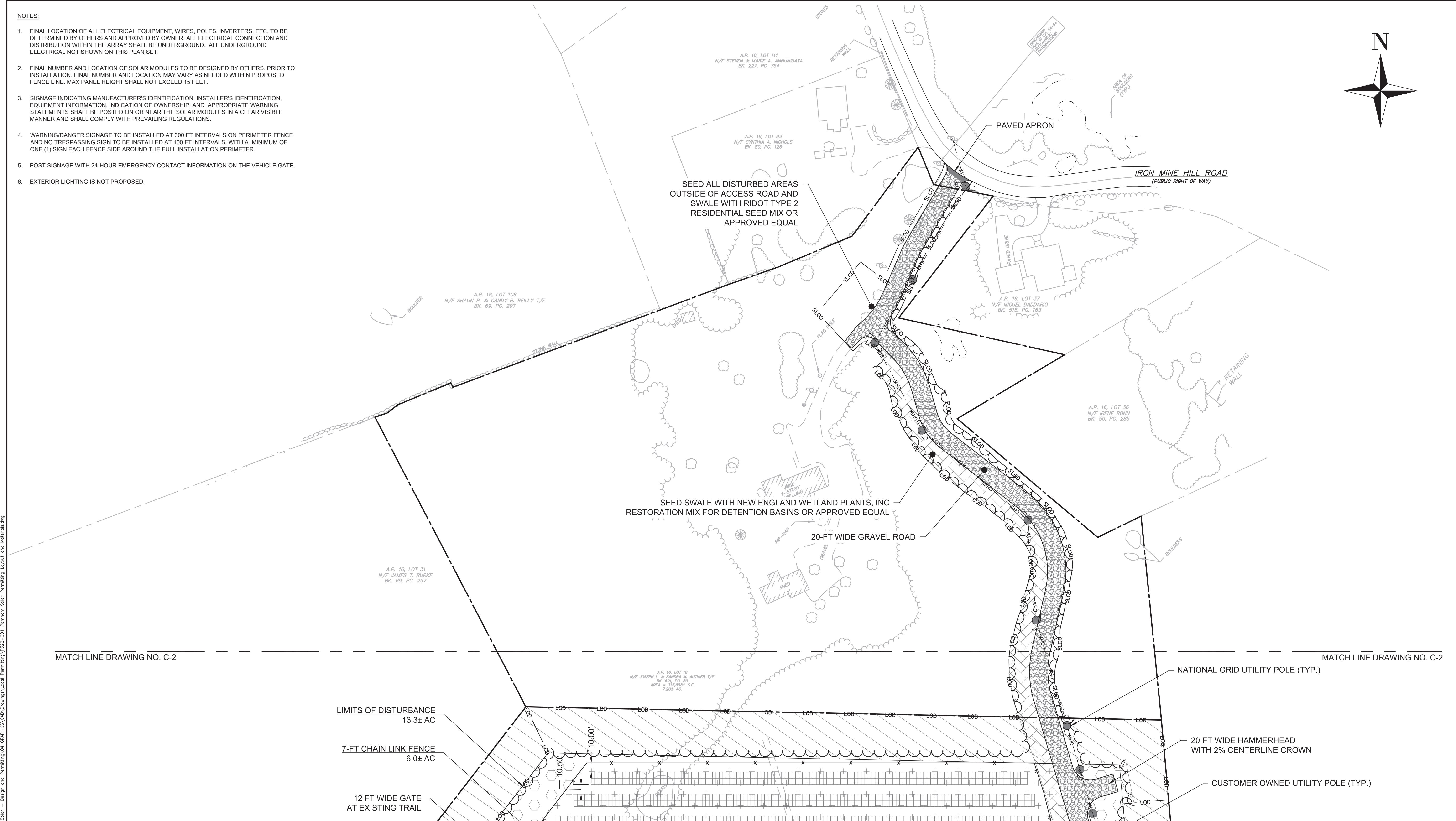
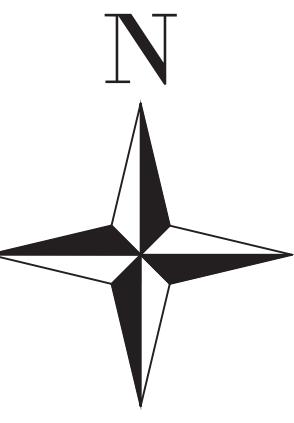
OHW	OHW	OVERHEAD WIRES
UGE	UGE	UNDERGROUND ELECTRIC
* *	* *	CHAIN LINK FENCE
LOD	LOD	LIMITS OF DISTURBANCE
SLOD	SLOD	COMBINED LIMIT OF DISTURBANCE/ 12" FILTER SOCK
SF		FILTER SOCK & SILT FENCE
FS		FILTER SOCK
		LIMITS OF SHADE TREE CLEARING
		RIPRAP / GRAVEL ROAD
		SANDFILTER
		FOREBAY
		ERNST NORTHEAST SOLAR POLLINATOR 3-FT SEED MIX (ERNMX-612) OR APPROVED EQUAL
		SHADE TREE CLEARING LIMITS. SEED DISTURBED GROUND WITH NEW ENGLAND WETLAND PLANTS, INC. (NEWP) EROSION CONTROL / RESTORATION MIX FOR DRY SITES OR EQUAL
		SEED DISTURBED GROUND WITH NEW ENGLAND WETLAND PLANTS, INC. (NEWP) EROSION CONTROL / RESTORATION MIX FOR DRY SITES OR APPROVED EQUAL
		NEW ENGLAND WETLAND PLANTS, INC. (NEWP) RESTORATION MIX FOR DETENTION BASINS OR APPROVED EQUAL
		MAINTAIN EXISTING VEGETATION
		LANDSCAPE SCREEN
		UTILITY POLE (CUSTOMER OWNED)
		UTILITY POLE (UTILITY OWNED)
TP		APPROX. TEST PIT LOCATION





NOTE

1. FINAL LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRES, POLES, INVERTERS, ETC. TO BE DETERMINED BY OTHERS AND APPROVED BY OWNER. ALL ELECTRICAL CONNECTION AND DISTRIBUTION WITHIN THE ARRAY SHALL BE UNDERGROUND. ALL UNDERGROUND ELECTRICAL NOT SHOWN ON THIS PLAN SET.
2. FINAL NUMBER AND LOCATION OF SOLAR MODULES TO BE DESIGNED BY OTHERS. PRIOR TO INSTALLATION. FINAL NUMBER AND LOCATION MAY VARY AS NEEDED WITHIN PROPOSED FENCE LINE. MAX PANEL HEIGHT SHALL NOT EXCEED 15 FEET.
3. SIGNAGE INDICATING MANUFACTURER'S IDENTIFICATION, INSTALLER'S IDENTIFICATION, EQUIPMENT INFORMATION, INDICATION OF OWNERSHIP, AND APPROPRIATE WARNING STATEMENTS SHALL BE POSTED ON OR NEAR THE SOLAR MODULES IN A CLEAR VISIBLE MANNER AND SHALL COMPLY WITH PREVAILING REGULATIONS.
4. WARNING/DANGER SIGNAGE TO BE INSTALLED AT 300 FT INTERVALS ON PERIMETER FENCE AND NO TRESPASSING SIGN TO BE INSTALLED AT 100 FT INTERVALS, WITH A MINIMUM OF ONE (1) SIGN EACH FENCE SIDE AROUND THE FULL INSTALLATION PERIMETER.
5. POST SIGNAGE WITH 24-HOUR EMERGENCY CONTACT INFORMATION ON THE VEHICLE GATE.
6. EXTERIOR LIGHTING IS NOT PROPOSED.



202
Jason Gold 18:5
-05'

2.01.07
5:15
00'

REVISION

DESIGNE

D BY: JMG

CHECKED BY:

DATE

DRAWN	DE
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DESIGN	CHK

FC

FOR PA

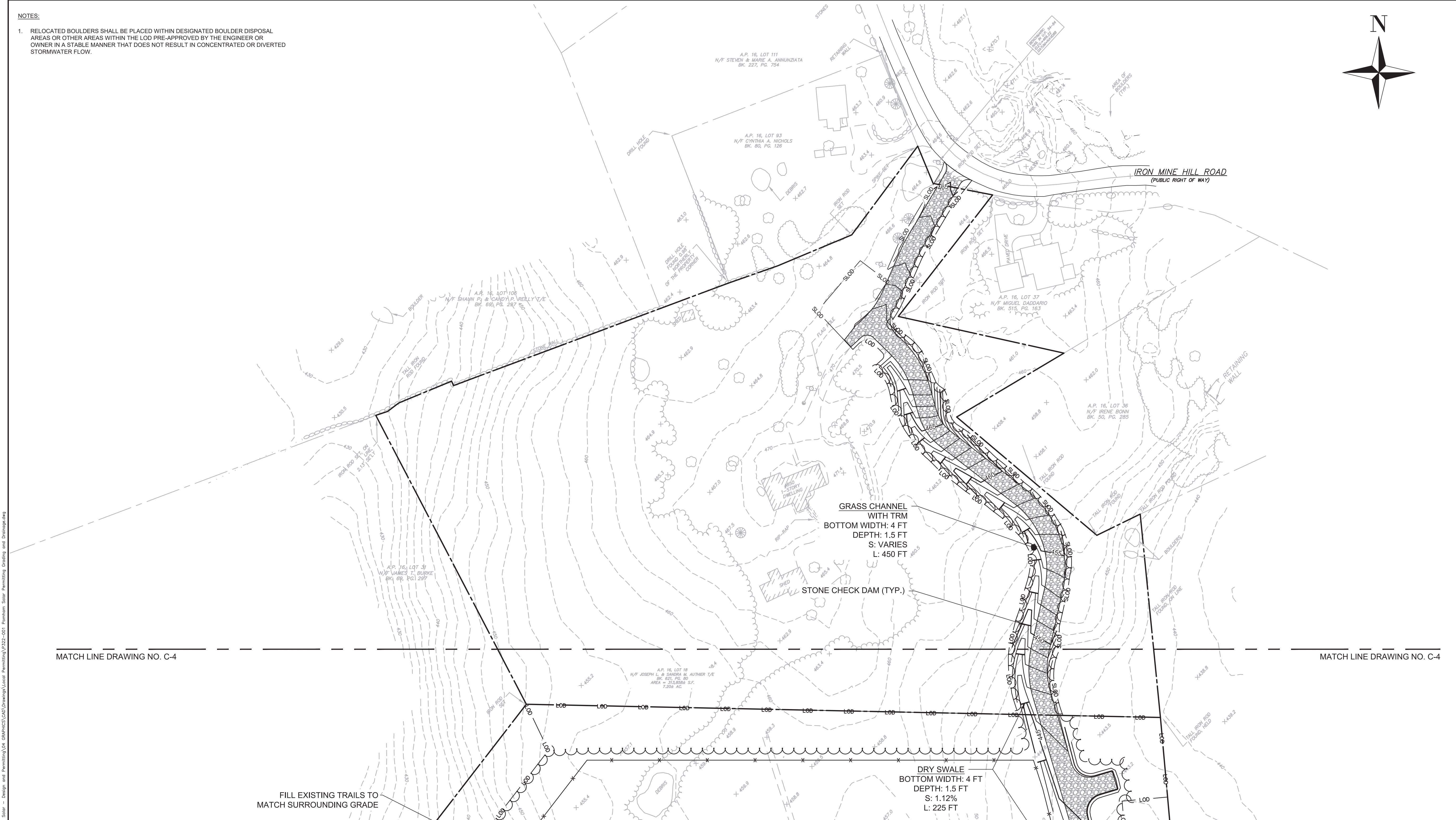
PERMITTING PLANS AYOUT AND MATERIALS PLAN

FOR PERMITTING ONLY

DRAWING NO:
C-1
NO: P322-001
ISSUE: 1/7/2022
E 6 OF 16

NOTES:

1. RELOCATED BOULDERS SHALL BE PLACED WITHIN DESIGNATED BOULDER DISPOSAL AREAS OR OTHER AREAS WITHIN THE LOD PRE-APPROVED BY THE ENGINEER OR OWNER IN A STABLE MANNER THAT DOES NOT RESULT IN CONCENTRATED OR DIVERTED STORMWATER FLOW

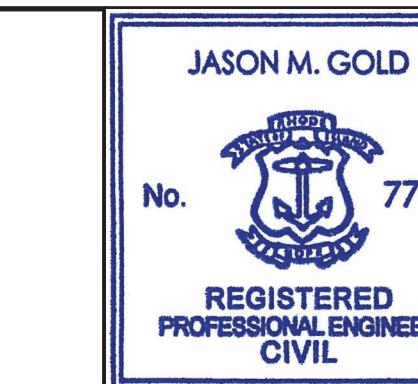


The logo for WSS group consists of a stylized, bold 'W' and 'S' monogram above the word 'group' in a lowercase, sans-serif font.

404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com

**ISLANDER SOLAR, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901**

**POMHAM SOLAR
AP 16 LOTS 18 & 19
OFF IRON MINE HILL ROA
NORTH SMITHFIELD, RI 02893**



2022
Jason Gold 18:51
-05'00

PERMITTING PLANS GRADING AND DRAINAGE PLAN

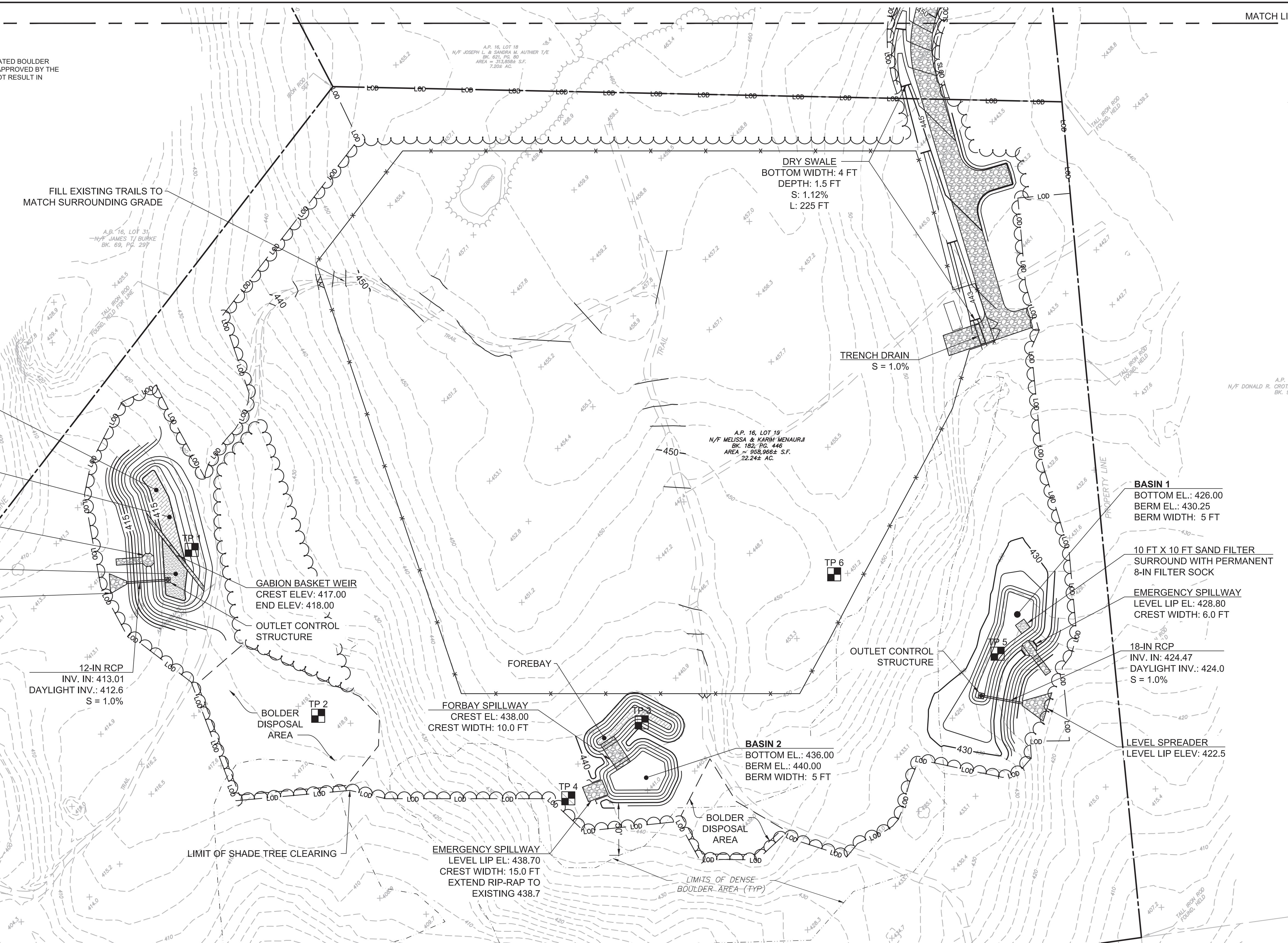
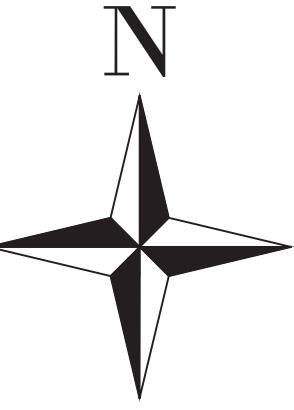
FOR PERMITTING ONLY

DRAWING NO:
C-3

PROJECT NO: P322-001
DATE OF ISSUE: 1/7/2022
HEET NO: 8 OF 16

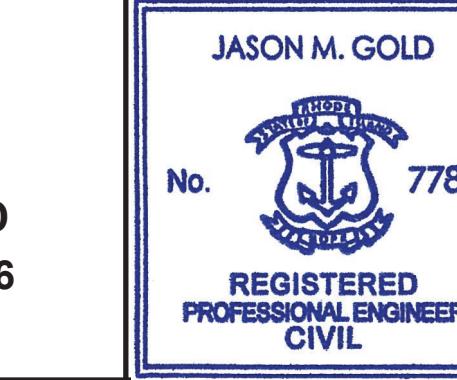
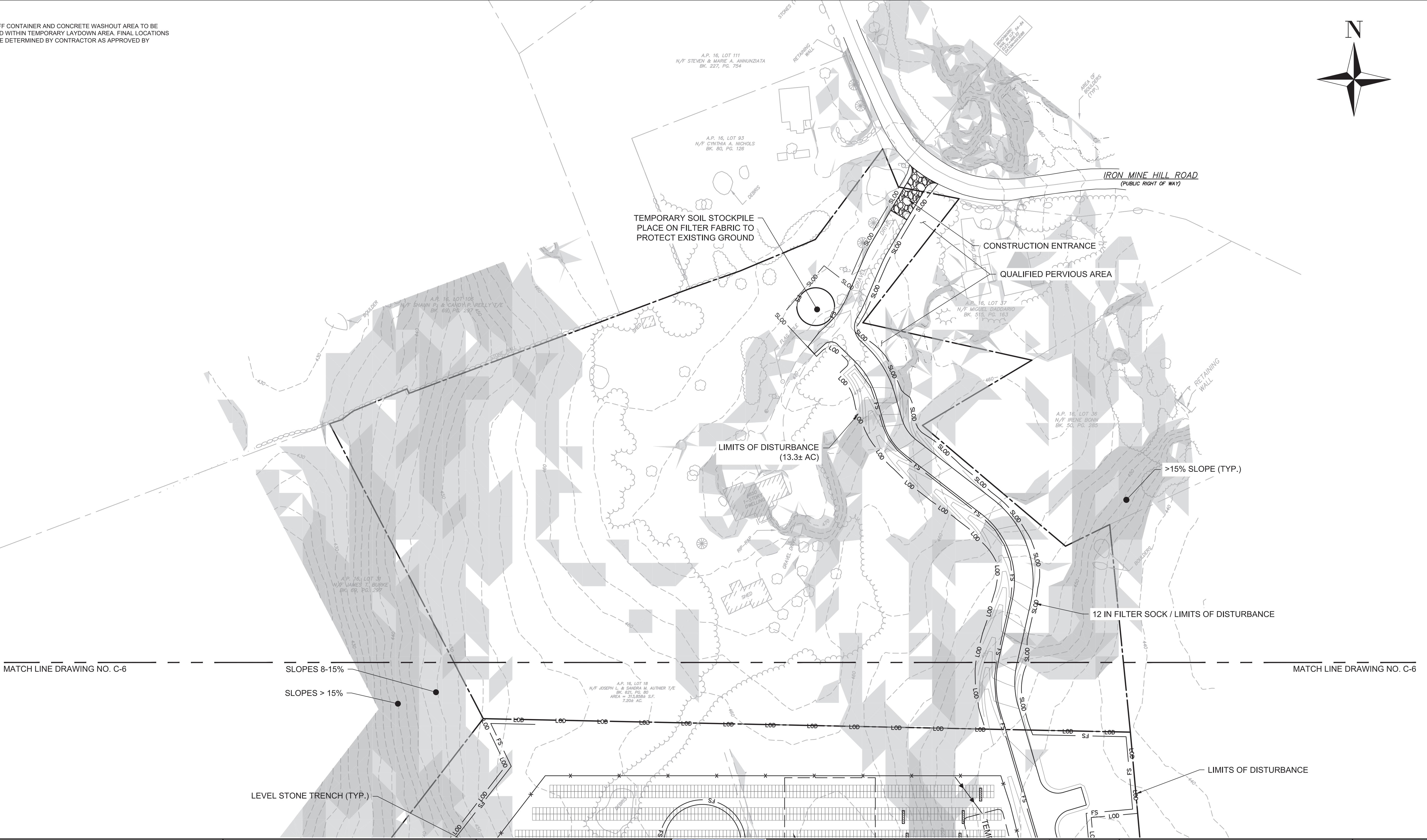
NOTES:

- RELOCATED BOULDERS SHALL BE PLACED WITHIN DESIGNATED BOULDER DISPOSAL AREAS OR OTHER AREAS WITHIN THE LOD PRE-APPROVED BY THE ENGINEER OR OWNER IN A STABLE MANNER THAT DOES NOT RESULT IN CONCENTRATED OR DIVERTED STORMWATER FLOW.



NOTES

1. ROLL-OFF CONTAINER AND CONCRETE WASHOUT AREA TO BE LOCATED WITHIN TEMPORARY LAYDOWN AREA. FINAL LOCATIONS OF TO BE DETERMINED BY CONTRACTOR AS APPROVED BY OWNER.

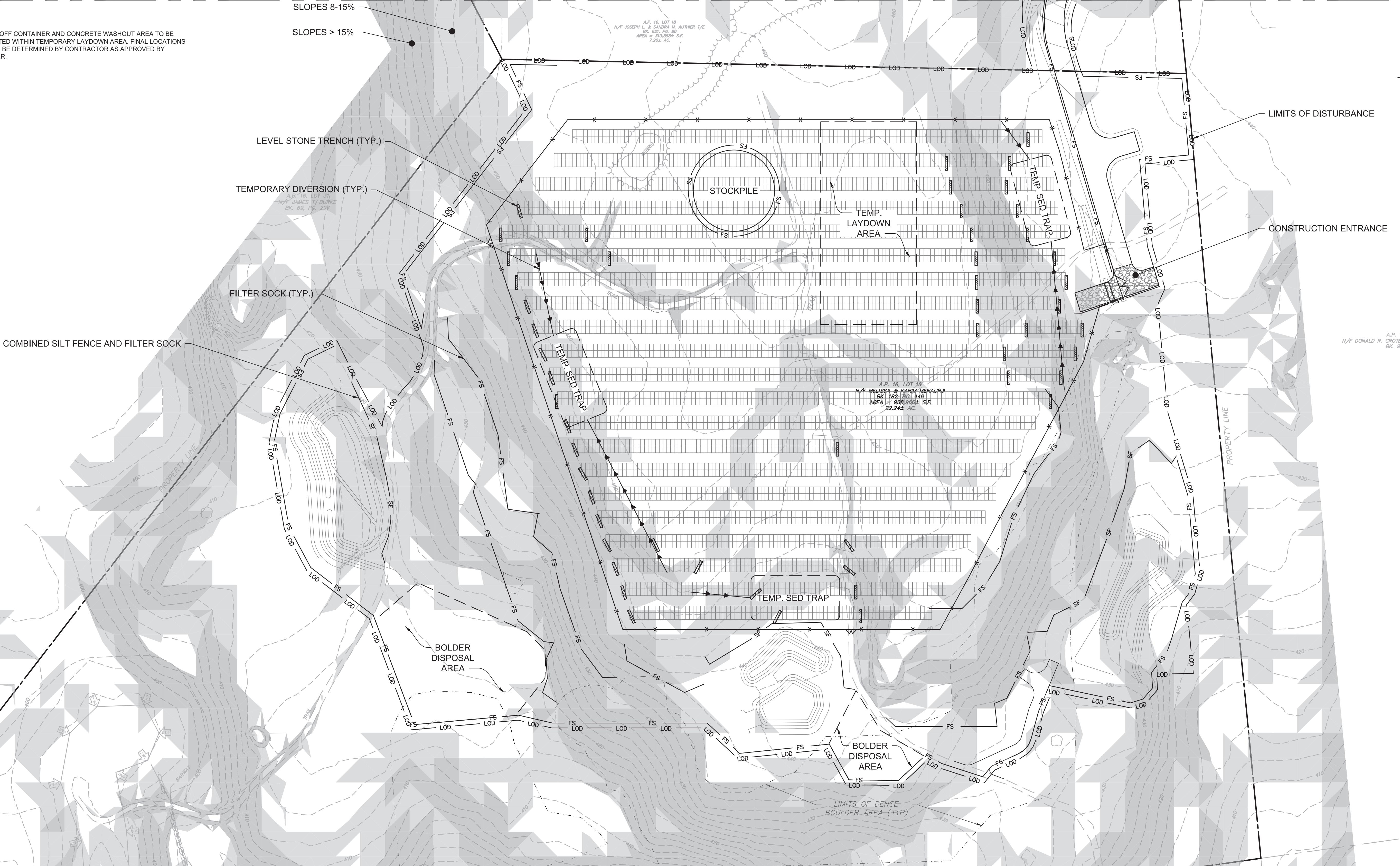


MATCH LINE DRAWING NO. C-5

MATCH LINE DRAWING NO. C-5

NOTES:

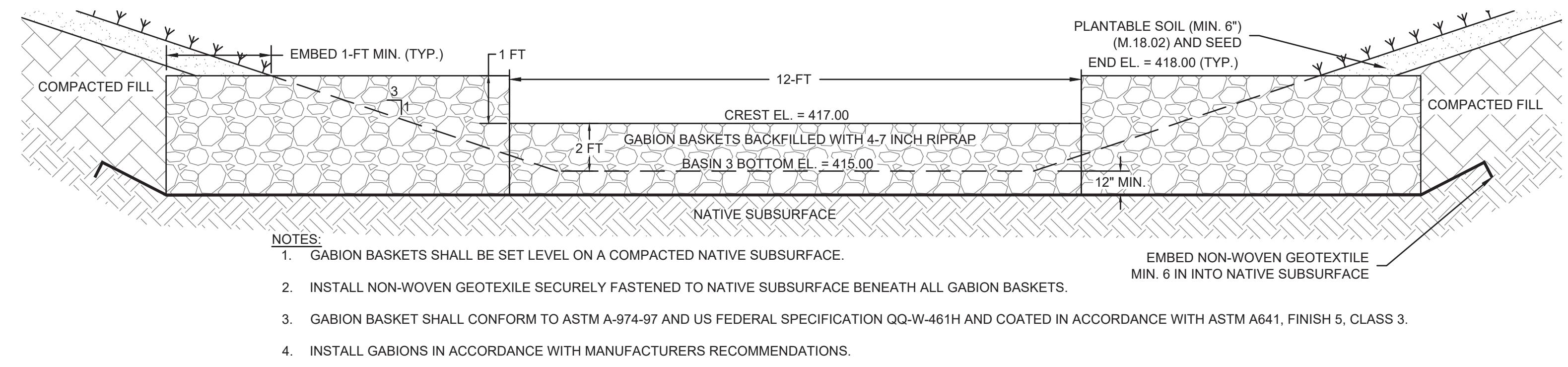
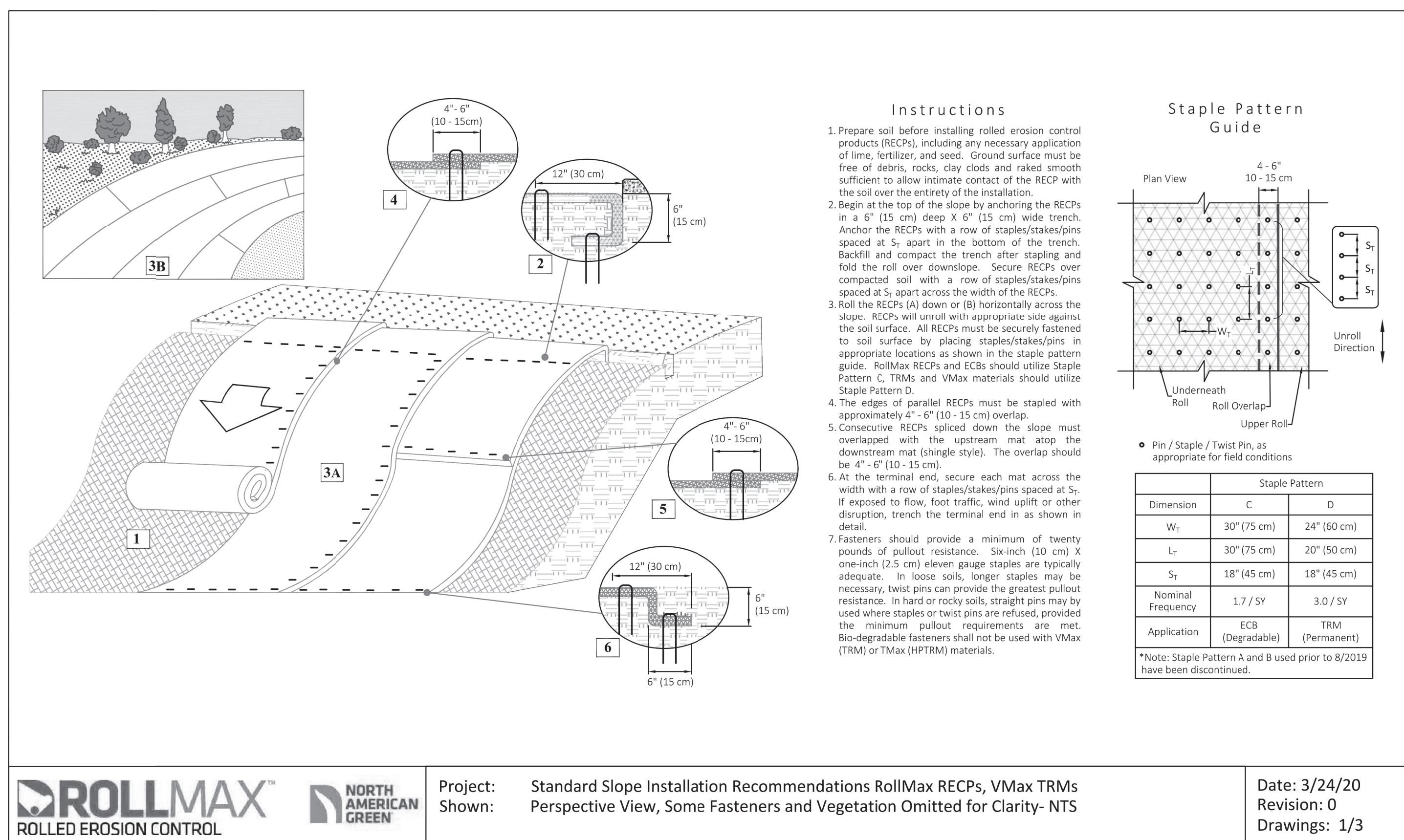
1. ROLL-OFF CONTAINER AND CONCRETE WASHOUT AREA TO BE LOCATED WITHIN TEMPORARY LAYDOWN AREA. FINAL LOCATIONS OF TO BE DETERMINED BY CONTRACTOR AS APPROVED BY OWNER.



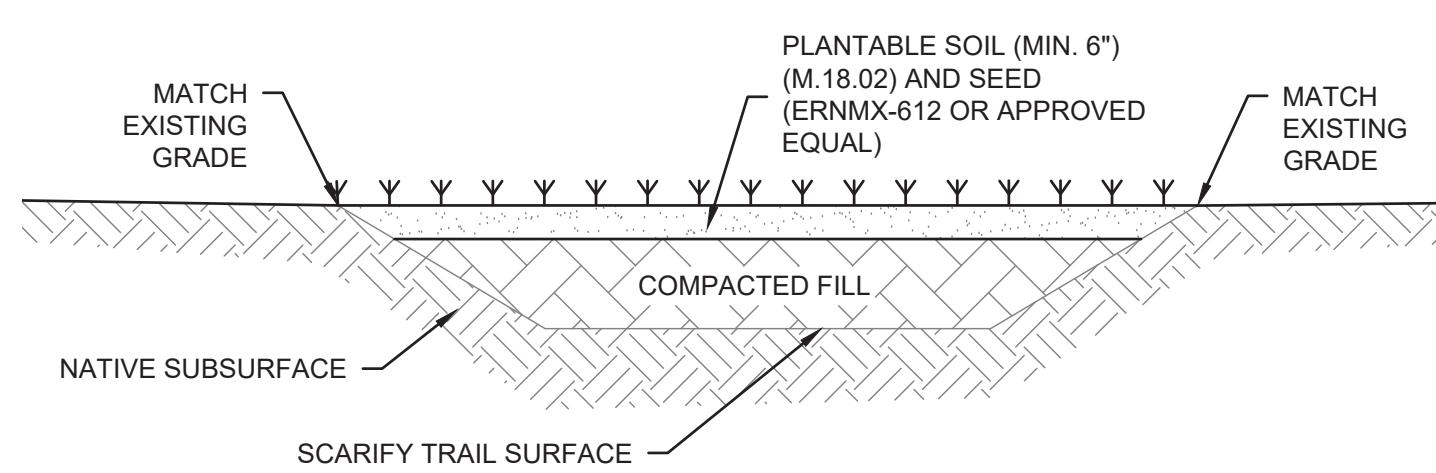
N/F DONALD R. A.P. 16, LOT 58
CROTEAU & ZVJEZDANA S. MEDIC
BK. 97, PG. 332

FILE NAME: P322-001.dwg
FILE DATE: Jan 07, 2022 - 5:15PM
(Permitting)04_Geomatics CAD Drawing (Permitting)01_Permitting ESC.dwg

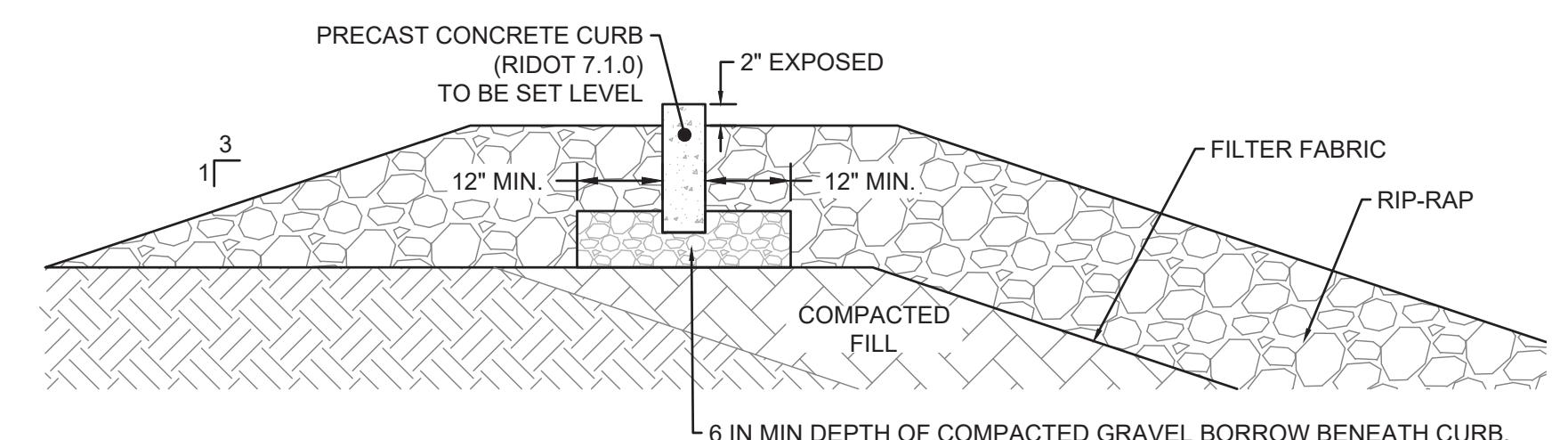




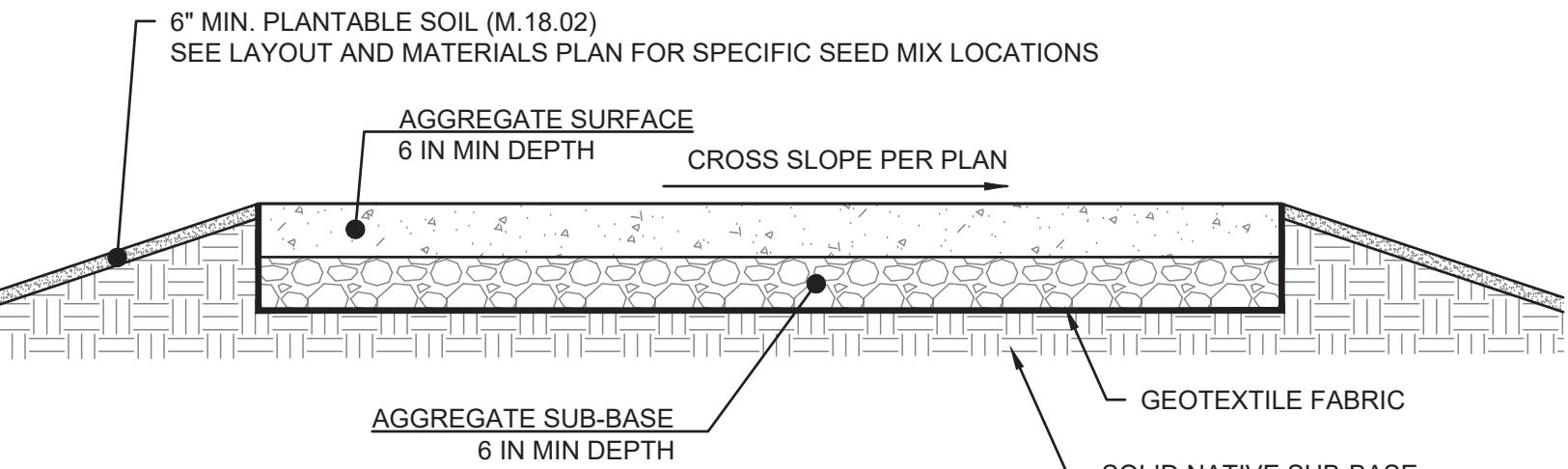
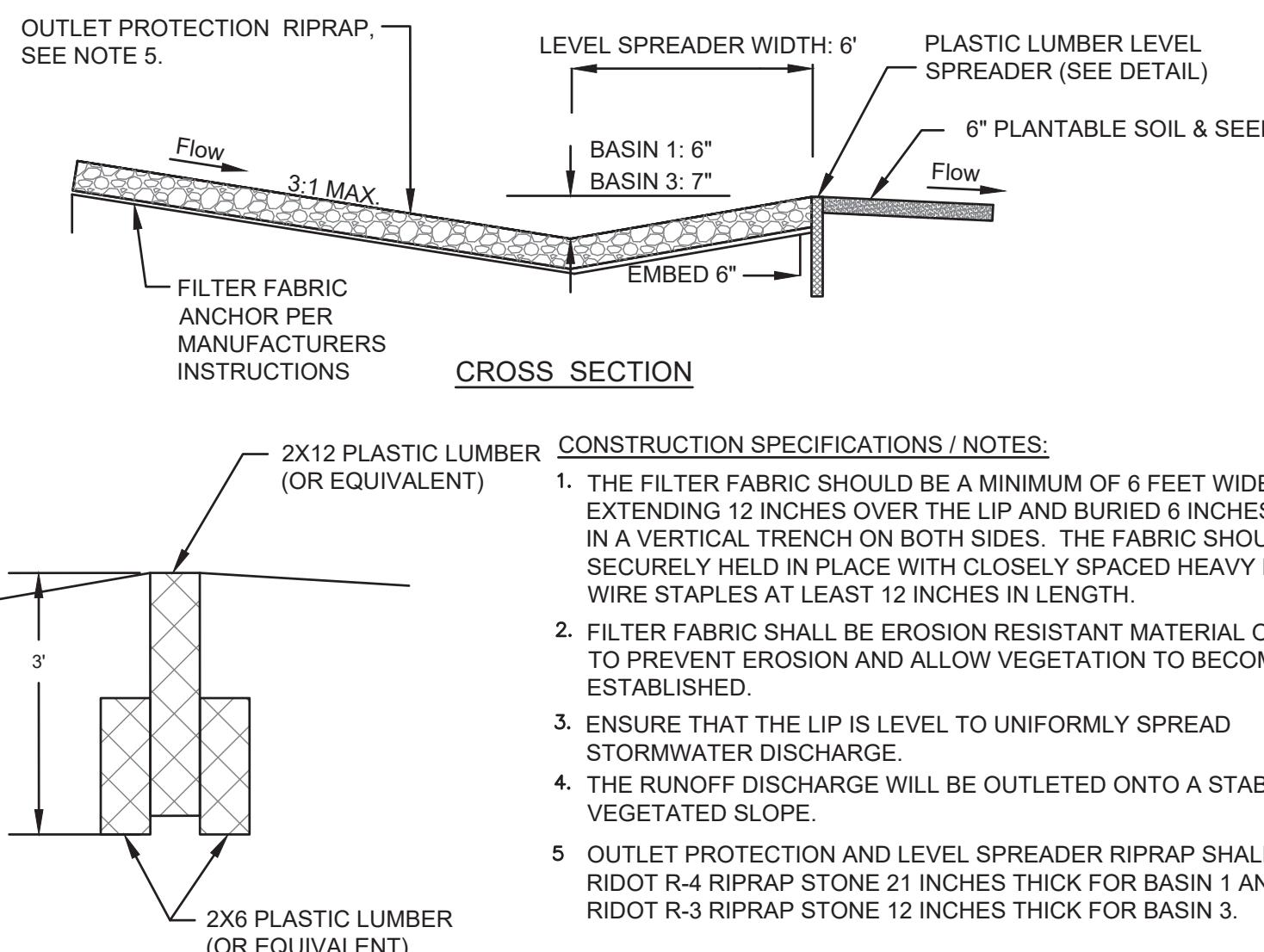
2 14 TYPICAL GABION SPILLWAY



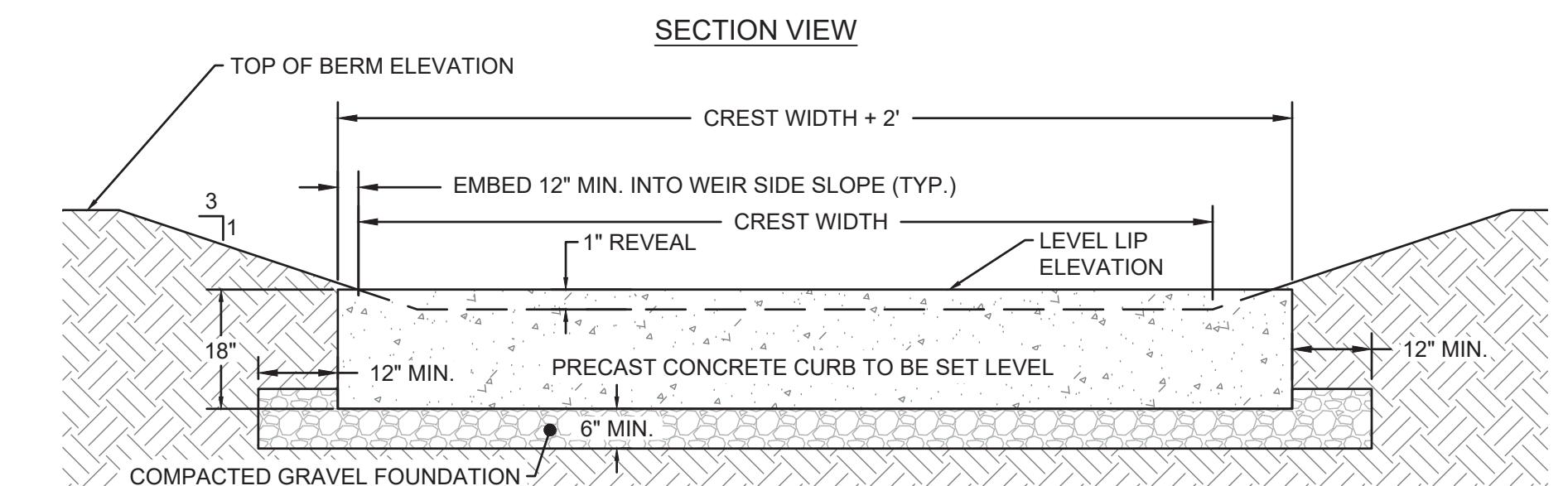
3 14 TYPICAL TRAIL REVEGETATION



1 14 TYPICAL TURF REINFORCEMENT MAT (TRM) INSTALLATION



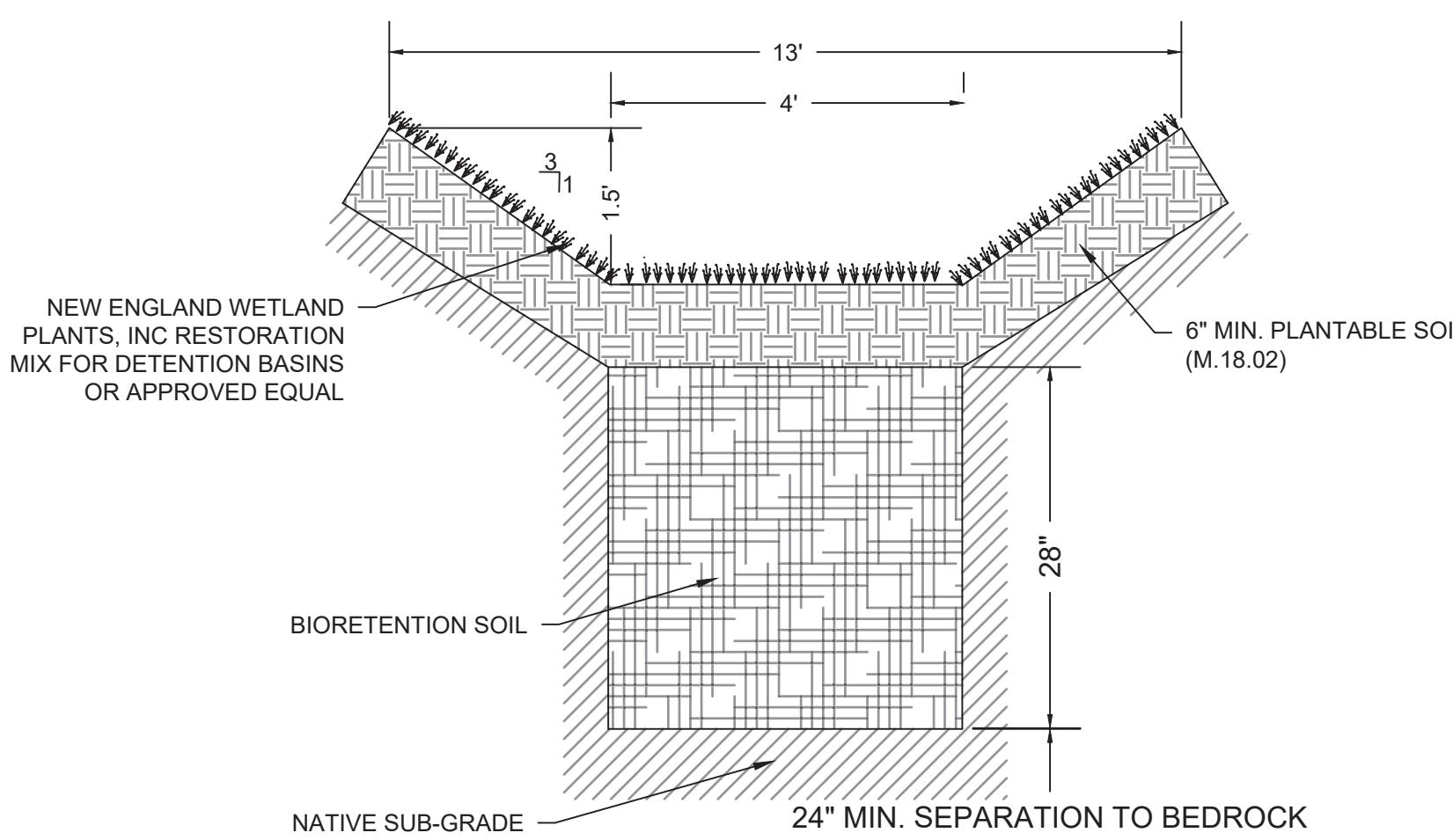
5 14 TYPICAL GRAVEL ROAD



4 14 TYPICAL LEVEL SPREADER

LOCATION	LEVEL LIP ELEVATION	CREST WIDTH (FT)	RIP RAP THICKNESS (IN)	RIP RAP GRADATION
BASIN 1	428.80	6.0	12	R-3
BASIN 2	438.70	15.0	12	R-3
BASIN 3	418.00	6.0	12	R-3

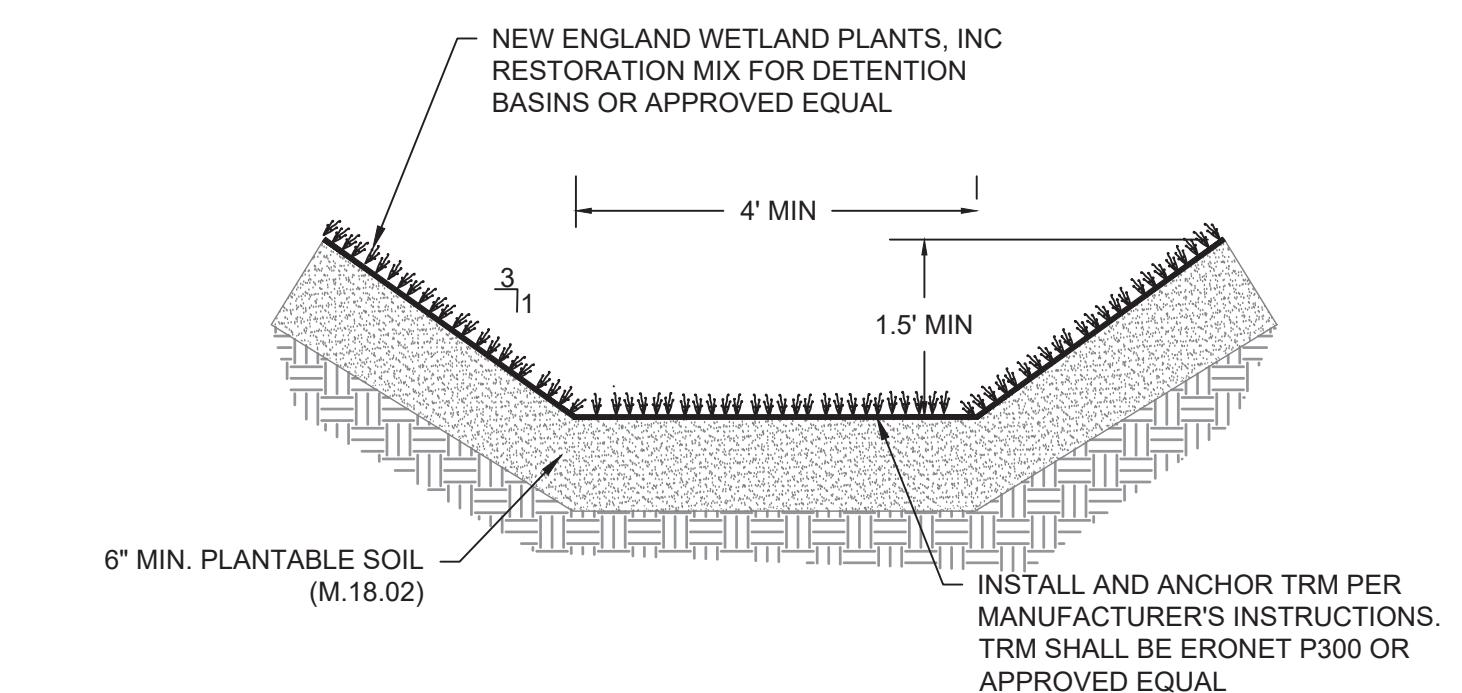
6 14 TYPICAL EMERGENCY SPILLWAY



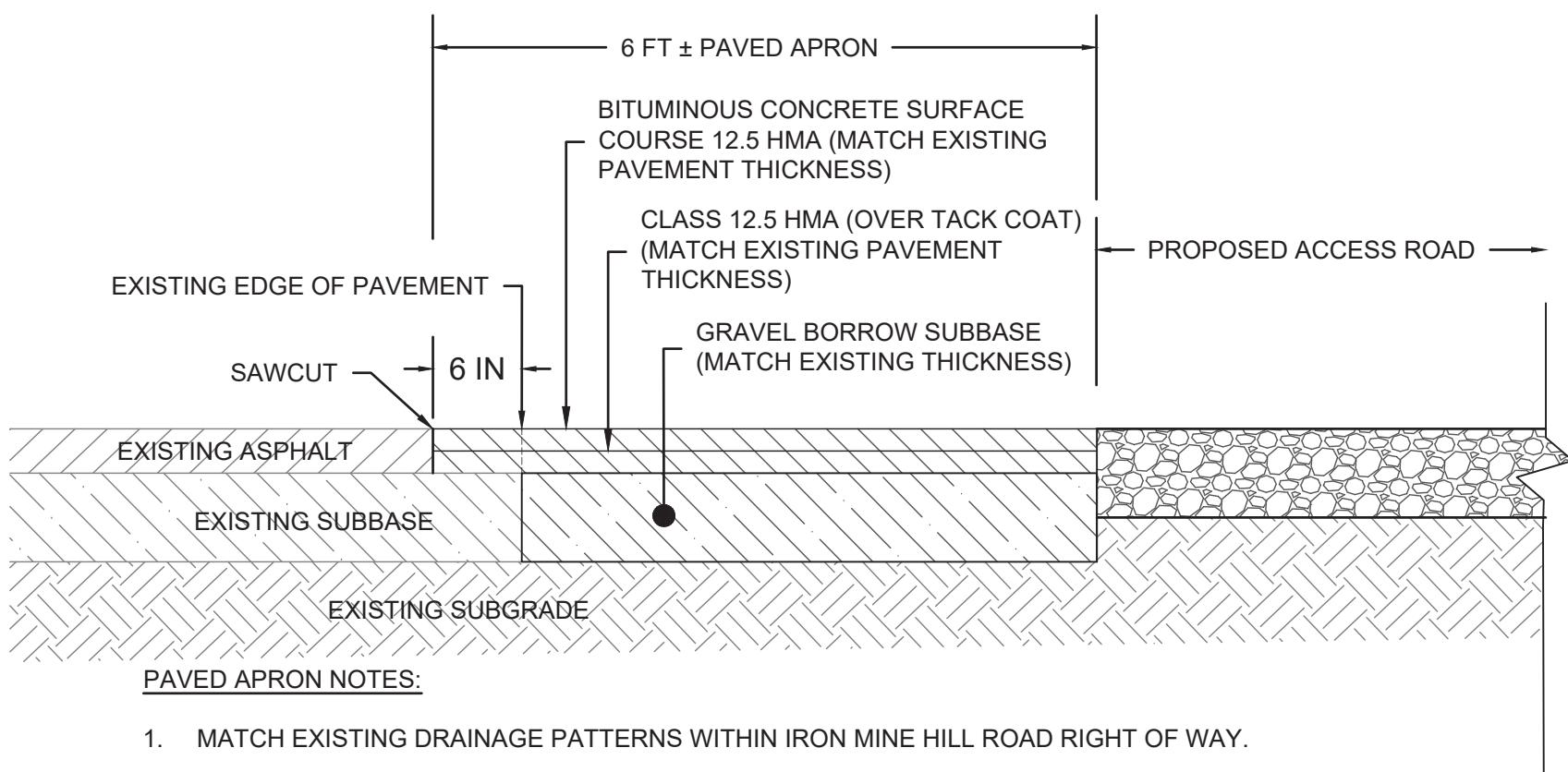
NOTES:

1. BIORETENTION SOIL MIX SHALL HAVE A LOAMY SAND TEXTURE PER USDA TEXTURAL TRIANGLE WITH A MAXIMUM CLAY CONTENT OF LESS THAN 2%. SOIL MIXTURE SHALL BE 85-88% SAND, 8-12% SOIL FINES (NO MORE THAN 2% CLAY), AND 3-5% ORGANIC MATTER.
2. ADD 20% (BY VOLUME) OF WELL AGED (6-12 MONTHS), WELL AERATED, LEAF COMPOST (OR APPROVED EQUIVALENT) TO THE ABOVE PLANTING SOIL MIXTURE. WHERE SOIL CONTENT IS LESS THAN 12% ADD A CORRESPONDING % OF LEAF COMPOST.
3. THE BIORETENTION SOIL SOIL SHALL BE UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES. SOIL SHALL BE FREE OF BERMUDA GRASS, QUACKGRASS, JOHNSON GRASS, MUGWORT, NUTSEDGE, POISON IVY, CANADIAN THISTLE, TEARHUB, OR OTHER NOXIOUS WEEDS.
4. PRIOR TO INSTALLATION, BIORETENTION SOIL SOIL SHALL BE TESTED AND CONFORM TO THE FOLLOWING CRITERIA.
 - 4.1. PH RANGE: 5.7 - 7.0
 - 4.2. MAGNESIUM: NOT TO EXCEED 32 PPM
 - 4.3. PHOSPHORUS P205: NOT TO EXCEED 69 PPM
 - 4.4. POTASSIUM K20: NOT TO EXCEED 78 PPM
 - 4.5. SOLUBLE SALTS: NOT TO EXCEED 500 PPM

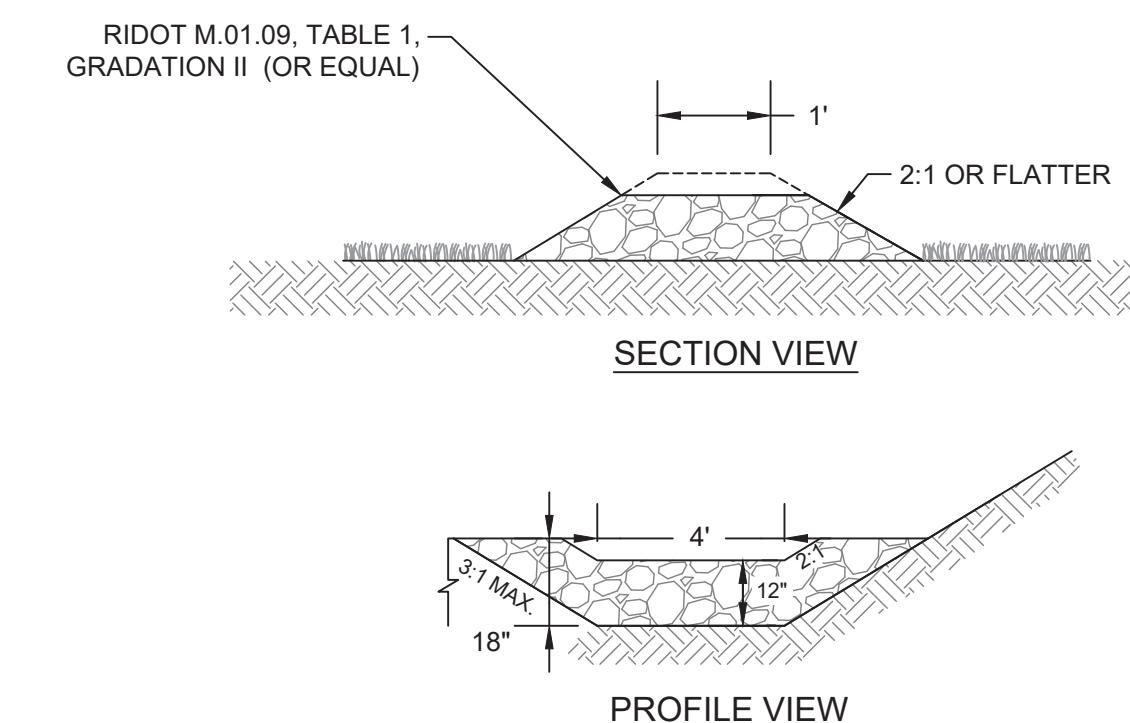
1 TYPICAL DRY SWALE
16 SCALE: NTS



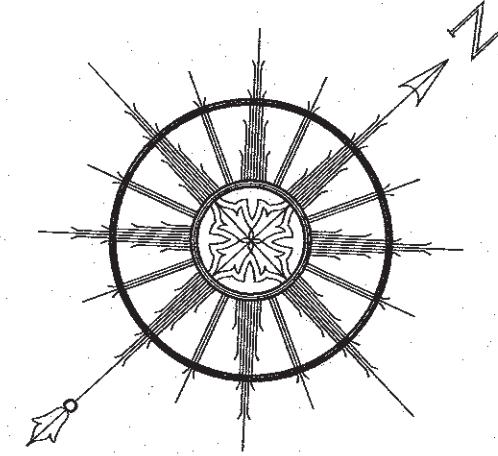
2 TYPICAL GRASS CHANNEL
16 SCALE: NTS



3 TYPICAL PAVED APRON
16 SCALE: NTS



4 TYPICAL STONE CHECK DAM
16 SCALE: NTS



SEE GENERAL NOTES #

LEGEND:

<hr style="border-top: 1px solid black; border-bottom: 1px solid black;"/>	PROPERTY LINE
	ABUTTER'S PROPERTY LINE
	TOPOGRAPHIC CONTOUR
	STONE WALL
	TREE LINE
	SHRUB LINE
<hr style="border-top: 1px solid black; border-bottom: 1px solid black;"/>	WETLANDS LINE
	WETLAND FLAG
	UTILITY POLE
	GUY
	ROCK
	DECIDUOUS TREE
	CONIFER
	BOUND
	DRILL HOLE
	IRON ROD/SPIKE
	SURVEY NAIL

GENERAL NOTE

1. EXISTING CONDITIONS ARE THE RESULT OF A FIELD SURVEY BY NORTHEAST ENGINEERS & CONSULTANTS, INC. IN OCTOBER AND DECEMBER 2019.
2. TOPOGRAPHY PROVIDED BY BLUESKY GEOSPATIAL LTD. VIA AERIAL PHOTOGRAHAMETRIC METHODS IN DECEMBER 2019.
3. VERTICAL DATUM IS NAVD88.
4. NORTH ARROW AND BASIS OF BEARING BASED ON RTK/GNSS OBSERVATION.

PLAN REFERENCES

1. PLAN ENTITLED "DIVISION OF LAND FOR LOUIS A. & FLORENCE R. COULOMBE NORTH SMITHFIELD, R.I.", PREPARED BY BIBEAULT AND FLORENTZ ENGINEERING CO., INC., SCALE 1 INCH = 80 FEET, DATED JANUARY, 1990.
2. PLAN ENTITLED "REDIVISION OF LAND FOR LOUIS A. & FLORENCE R. COULOMBE NORTH SMITHFIELD, R.I.", PREPARED BY BIBEAULT AND FLORENTZ ENGINEERING CO., INC., SCALE 1 INCH = 80 FEET, DATED FEBRUARY, 1990.
3. PLAN ENTITLED "MINOR SUBDIVISION FOR LOUIS COULOMBE NORTH SMITHFIELD, R.I.", PREPARED BY BIBEAULT AND FLORENTZ ENGINEERING CO., INC., SCALE 1 INCH = 80 FEET, DATED FEBRUARY, 1999.
4. PLAN ENTITLED "OXFORD CREEK FINAL PLAN ADMINISTRATIVE SUBDIVISION & MINOR SUBDIVISION OF PLAT 16, LOTS 20, 21, 28 & PLAT 20, LOTS 16 & 35", PREPARED BY MARC N. NYBERG ASSOCIATES INC. SCALE 1"=100' DATED JULY 17, 2000

SURVEYOR'S CERTIFICATION:

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-01.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON APRIL 28, 2018 AS FOLLOWS:

TYPE OF BOUNDARY SURVEY:

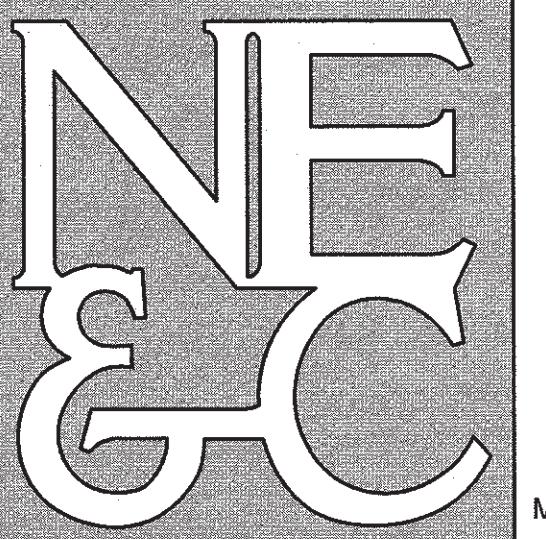
LIMITED CONTENT BOUNDARY SURVEY
TOPOGRAPHIC SURVEY ACCURACY

TO DETERMINE AND MONUMENT THE LOCATION
OF THE PROPERTY BOUNDARIES OF A.P.16,

LOTS 18 & 19 AND TO SHOW EXISTING
CONDITIONS AT THE SITE.

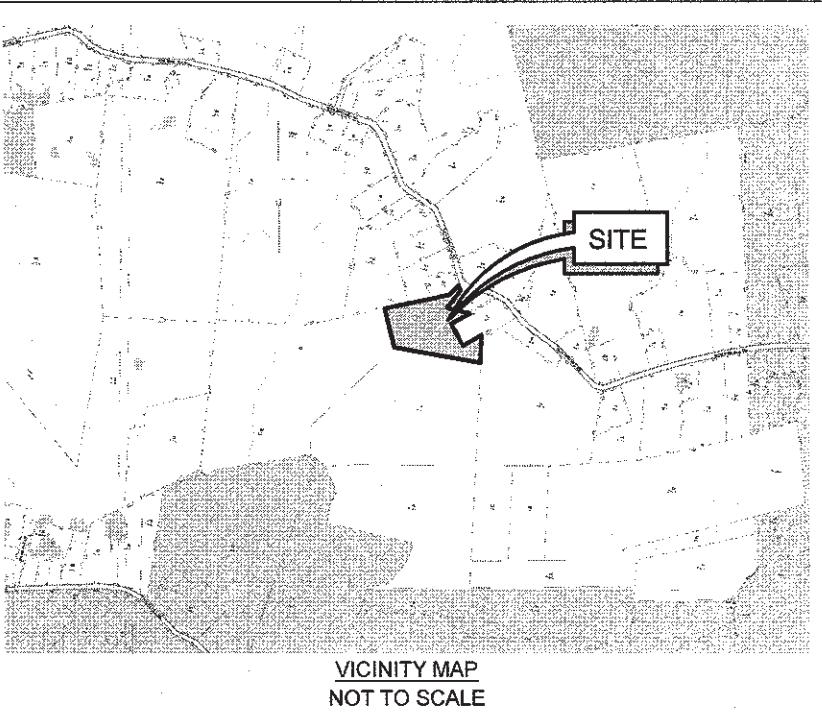
A graphic scale bar for 120 feet. It features a horizontal line with tick marks at 0, 30, 60, and 120. The segments between the tick marks are shaded black. Below the line, the text '(in feet)' is centered, and at the bottom, the text '1 INCH = 60\' is centered.

NORTHEAST ENGINEERS & CONSULTANTS, INC.



A KNOWLEDGE CORPORATION®

5 JOHN CLARKE ROAD MIDDLETOWN RHODE ISLAND 02842
PHONE (401) 849-0810 FAX (401) 846-4169
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No.	Revision	Date	App.
Designed By:	Drawn by: VAL	Checked by: MST	
Scale: 1"=60'	Date:	17DEC2019	

**A.P. 16, LOTS 18 & 19
IRON MINE HILL ROAD
NORTHSMITHFIELD, RHODE ISLAND**

Owner: **ESS GROUP, INC., C/O BARBARA CABRAL
10 HEMINGWAY DR., 2ND FLOOR
EAST PROVIDENCE, RI 02815**

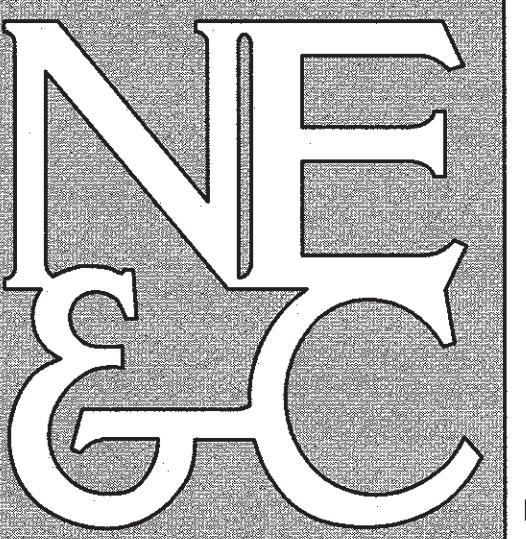
11

2. a Title:

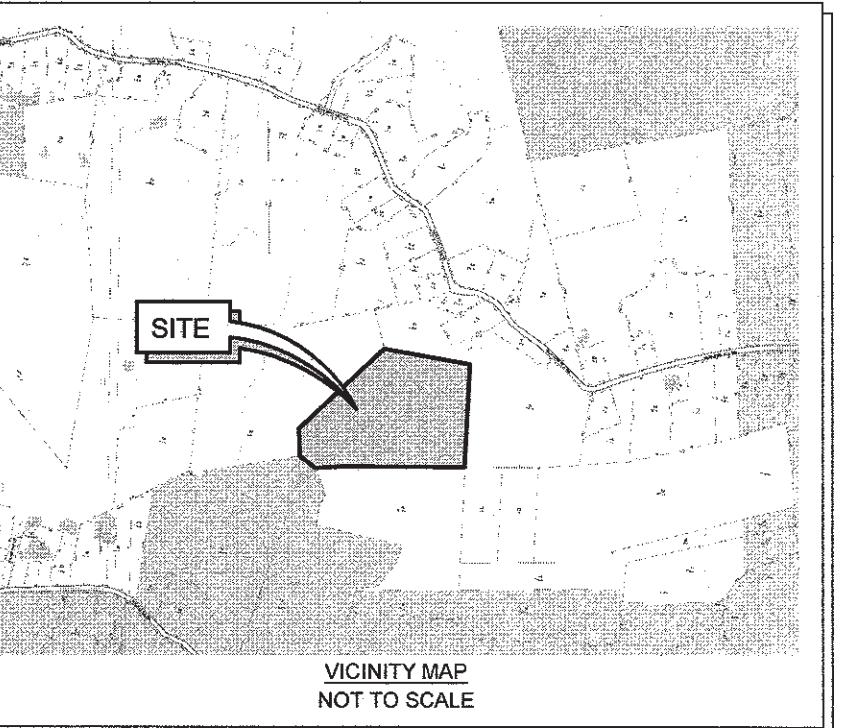
LIMITED CONTENT BOUNDARY SURVEY WITH EXISTING CONDITIONS AND TOPOGRAPHY

	Drawing Number:		
	L-1		
	Sheet	1	of
	2		
	Project Number:		
	19178.0		
	Survey Index:		
	25	-	16 -18 & 19

OWNERSHIP AND USE OF DOCUMENTS: DRAWINGS AND SPECIFICATIONS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DOCUMENTS ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECTS OR PURPOSES, OR BY ANY OTHER PARTIES, THAN THOSE PROPERLY AUTHORIZED BY CONTRACT, WITHOUT THE EXPRESS AUTHORIZATION OF THE ENGINEER.



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No.	Revision	Date	App.
Designed By:	Drawn by: VAL	Checked by: MST	
Scale: 1"=60'	Date: 17DEC2019		

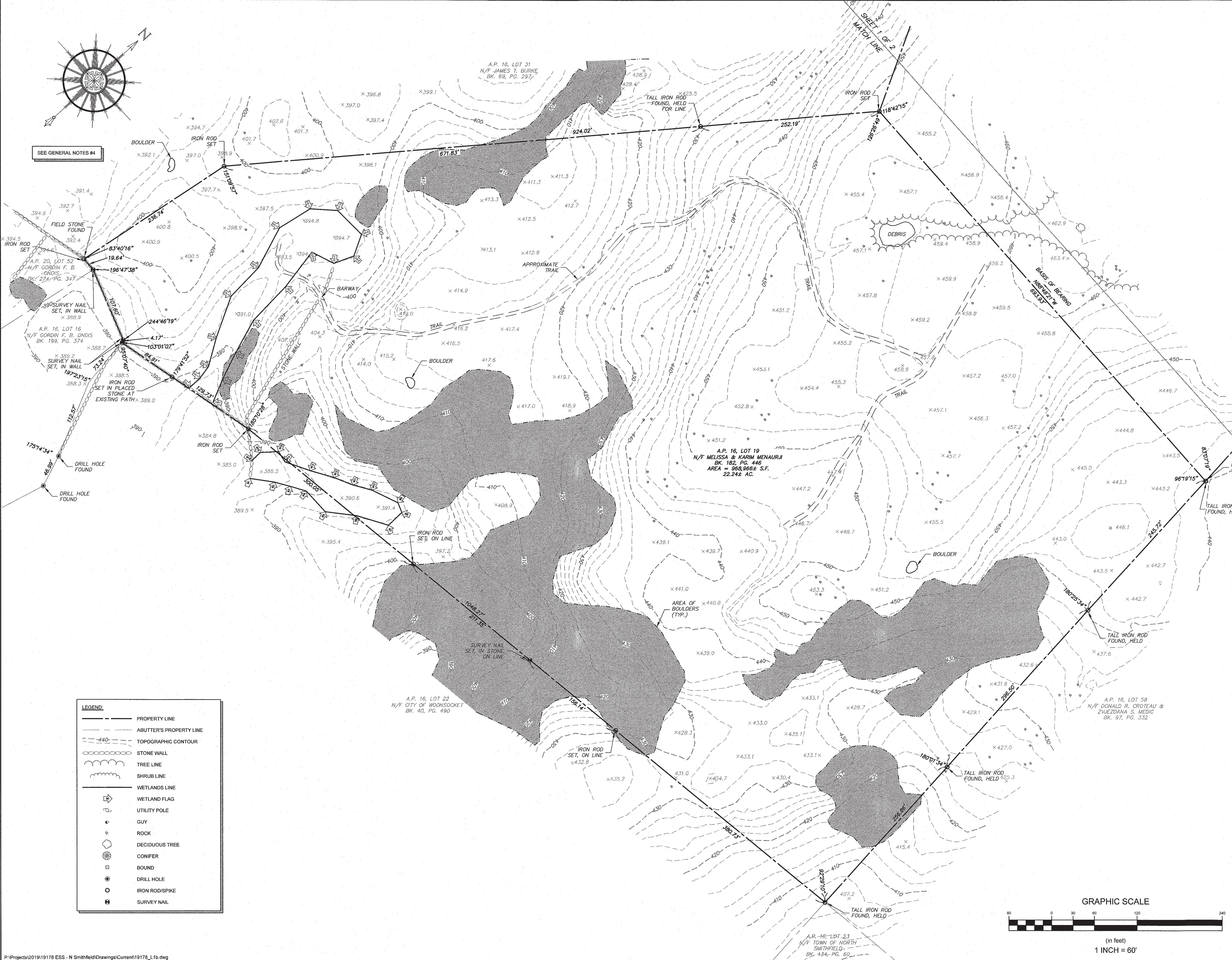
Project Title:
**A.P. 16, LOTS 18 & 19
IRON MINE HILL ROAD
NORTH SMITHFIELD, RHODE ISLAND**

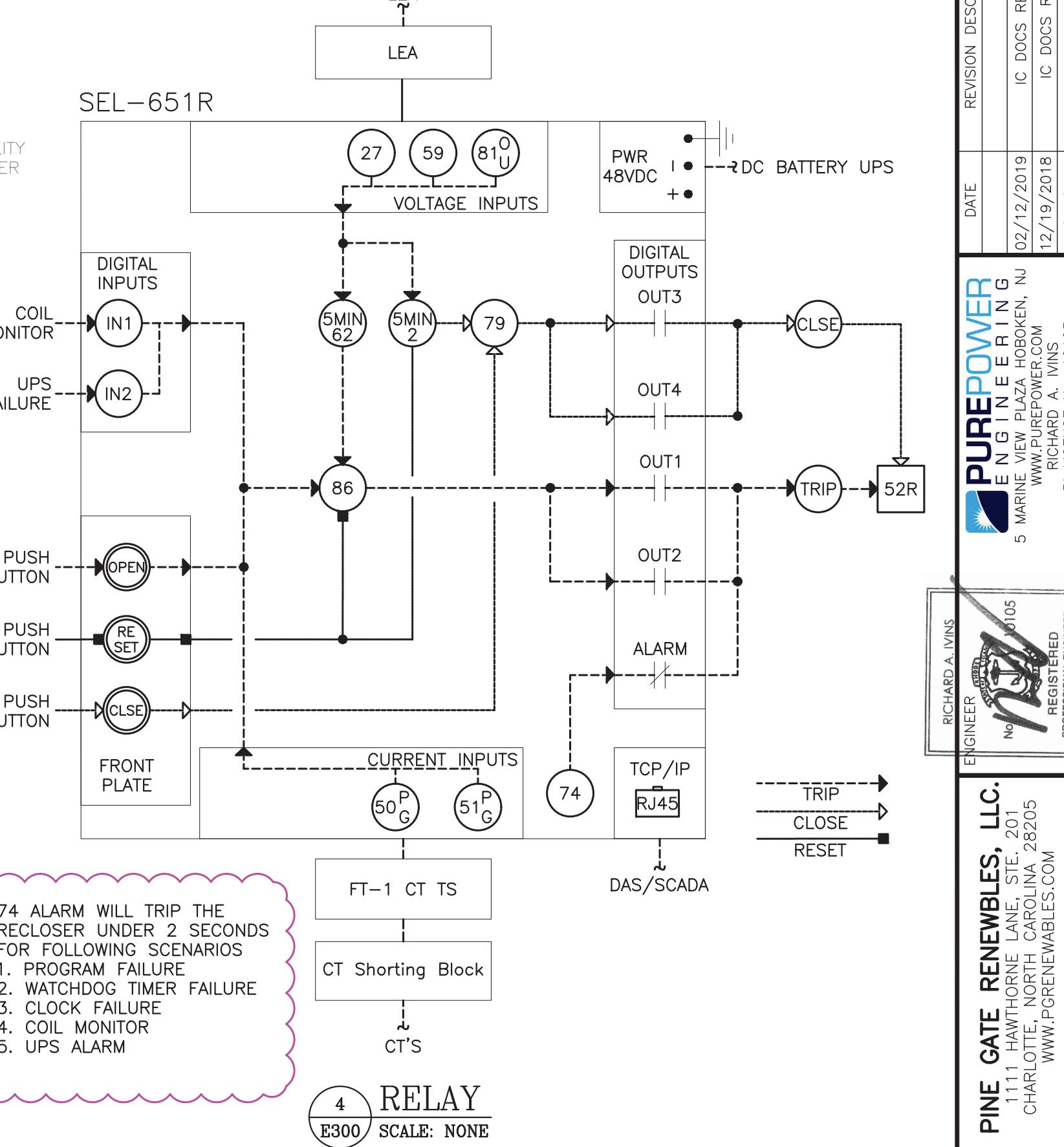
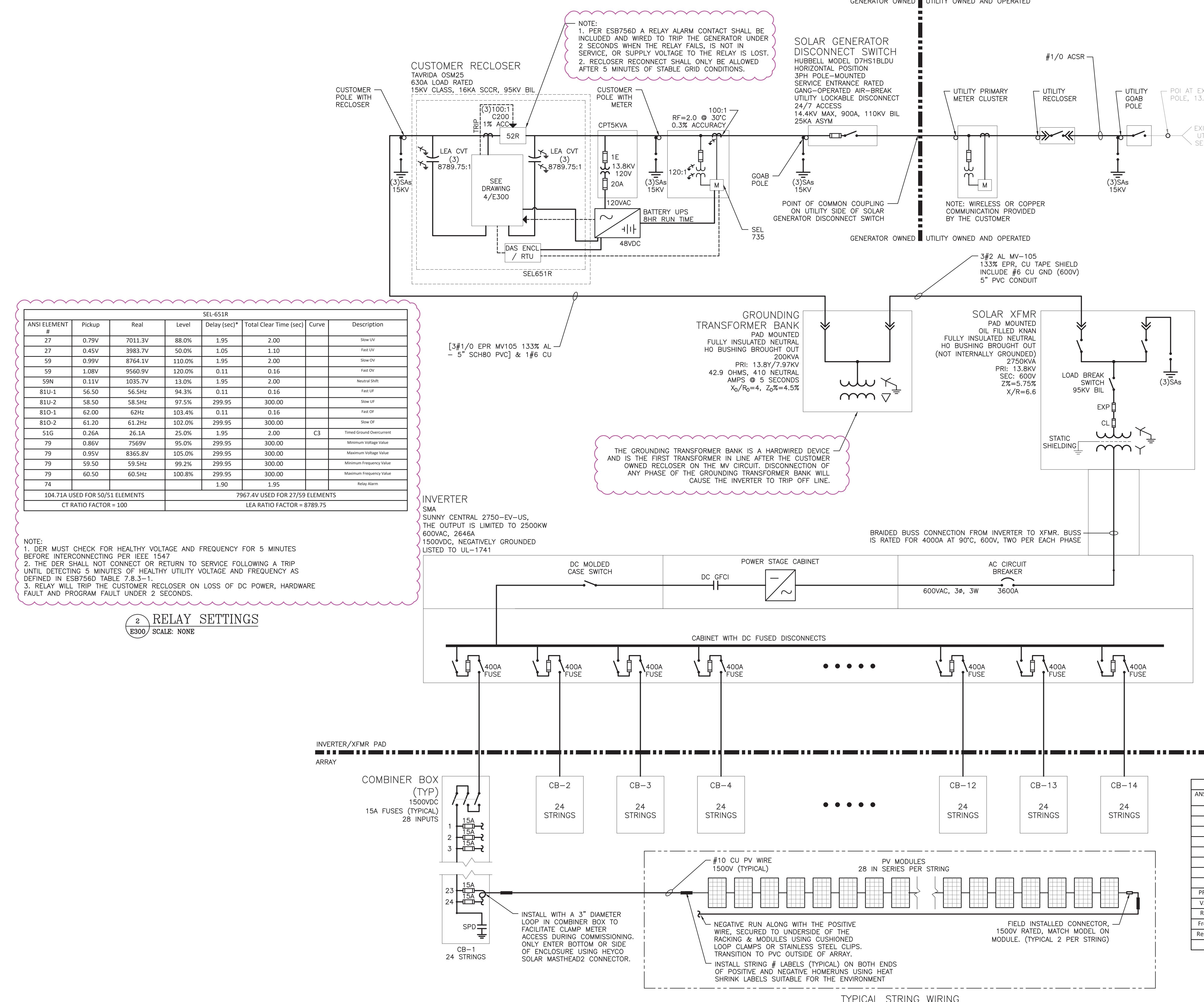
Client/Owner:
ESS GROUP, INC., C/O BARBARA CABRAL
10 HEMINGWAY DR., 2ND FLOOR
EAST PROVIDENCE, RI 02915

Issued for:
Drawing Title:

**LIMITED CONTENT
BOUNDARY SURVEY
WITH EXISTING CONDITIONS
AND TOPOGRAPHY**

 PROFESSIONAL LAND SURVEYOR 12-17-2019	Drawing Number: L-1
	Sheet 2 of 2
Project Number: 19178.0	
Survey Index: 25 - 16 - 18 & 19	
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TE: THE INVERTER OUTPUT IS LIMITED
2500KVA VIA FACTORY SETTING.

SYSTEM SUMMARY	
SYSTEM SIZE	3,393.04 KW
SYSTEM SIZE	2,500.00 KW
MODULE QTY	9,296
MODULE TYPE	TRINA SOLAR TSM-DE14A 365W
INVERTER	SMA SC2750-EV-US
INVERTER QTY	1
ZIMUTH/TILT	180° / 20°

3 INVERTER SETTINGS
