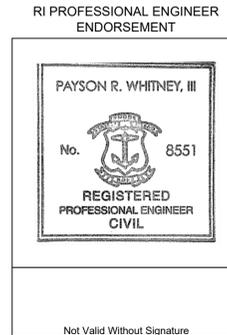


# MOO COW SOLAR PRELIMINARY PLAN APPLICATION

**PROPERTY:**  
2446 VICTORY HIGHWAY  
COVENTRY, RHODE ISLAND  
AP 304, LOTS 27.1 AND 28

## PROPERTY OWNERS

AP 304 LOT 27.1 NARYA LLC 574 GRAVELLY HILL ROAD SOUTH KINGSTON, RI 02879	AP 304 LOT 28 MOO COW LLC 40 BANK STREET COVENTRY, RI 02816
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**PREPARED FOR:**  
EDPR NA DISTRIBUTED GENERATION LLC  
100 PARK AVE, SUITE 2400  
NEW YORK, NEW YORK 10017  
(203) 482-7817

FEBRUARY 1, 2024

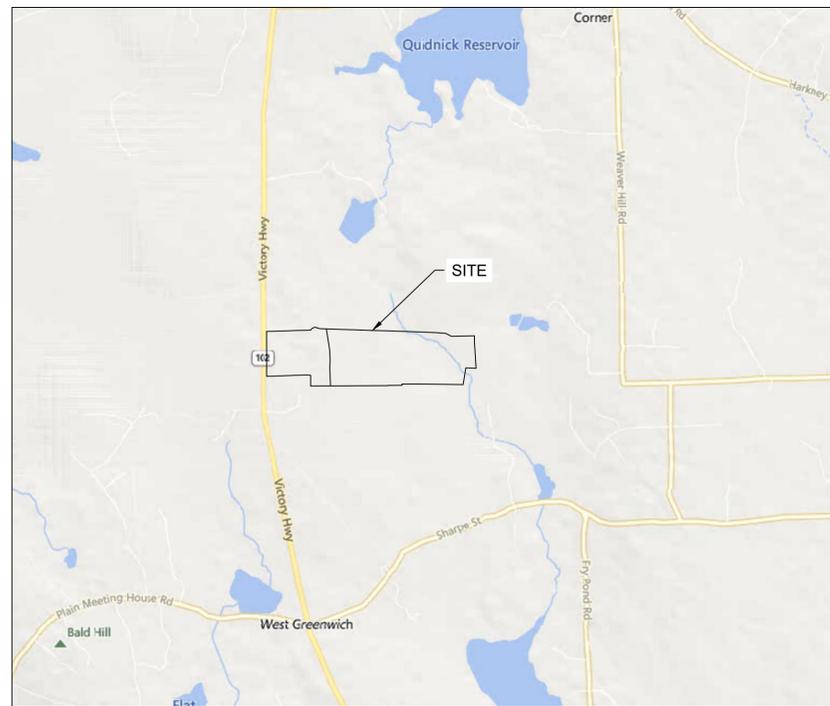
PREPARED BY:



10 HEMINGWAY DRIVE, 2ND FLOOR  
EAST PROVIDENCE, RHODE ISLAND 02915  
401-434-5560

## DRAWING INDEX

Sheet Number	Sheet Title
-	COVER
N-1	NOTES
SO-1	SITE OVERVIEW
C-1	LAYOUT AND MATERIALS
C-2	LAYOUT AND MATERIALS
C-3	GRADING AND DRAINAGE
C-4	GRADING AND DRAINAGE
C-5	EROSION AND SEDIMENT CONTROL
C-6	EROSION AND SEDIMENT CONTROL
D-1	DETAILS
D-2	DETAILS
D-3	DETAILS
D-4	DETAILS
L-1	LANDSCAPE PLAN
L-2	LANDSCAPE PLAN
L-3	LANDSCAPE DETAILS
L-4	LANDSCAPE DETAILS
<b>ATTACHMENTS</b>	
BASE PLAN: "PROPERTY & TOPOGRAPHIC SURVEY", DATED 03/06/23, LAST REVISED 03/31/23	
"SOLAR GROUND MOUNT SYSTEM AT COVENTRY - MOO COW" PREPARED BY PURE POWER ENGINEERING, DATED 01/31/2024	



LOCATION MAP  
SCALE 1"=2000'



**FOR PERMITTING ONLY**

GENERAL NOTES:

- 1. BASE PLAN, "PROPERTY & TOPOGRAPHIC SURVEY", DATED MARCH 6, 2023, REVISED MARCH 31, 2023, DESIGN PROFESSIONALS, INC.
1.1. MAP SHOWING PROPOSED DIVISION OF LAND OF VICTORY HIGHWAY IN THE TOWN OF COVENTRY, RHODE ISLAND OWNED BY WILLIS & SHIRLEY DOROTHY SCALE: 1" = 100' DATE: SEPTEMBER 8, 1996 PREPARED BY THE COVENTRY SURVEY COMPANY, INC.
1.2. BOUNDARY SURVEY OF ASSESSOR'S PLAT 304 LOT 27.1 VICTORY HIGHWAY COVENTRY RHODE ISLAND PREPARED FOR FRANK DOROTHY SCALE: 1" = 100' DATE: MARCH 9, 2020 SHEET 1 OF 1 PREPARED BY SCITUATE SURVEYS, INC.
1.3. BATON REVOCABLE TRUST A.P. 20 LOT 10-12 VICTORY HIGHWAY WEST GREENWICH, RHODE ISLAND GD WEST GREENWICH VICTORY 1, LLC GREEN DEVELOPMENT ALTAACSM LAND TITLE SURVEY SHEET 1 OF 2 DATE: SEPTEMBER 2019 SCALE 1" = 100' PREPARED BY NATIONAL SURVEYORS-DEVELOPERS INC.
1.4. FINAL PLAN SUBDIVISION BATON WOODS EXISTING SITE PLAN DATE: MARCH 2008 SCALE: 1"=100' SHEET 2 OF 5 PREPARED BY OCEAN STATE PLANNERS, INC.
1.5. CONCEPTUAL SITE PLAN HIDDEN VALLEY LOCATION VICTORY HIGHWAY (ROUTE 102) COVENTRY, RHODE ISLAND PREPARED FOR: UNIVERSAL REALTY, LLC SCALE: 1" = 150' DATE: JAN 18 2001 PREPARED BY MARTINIQUE DESIGNS.
1.6. FOSTER-COVENTRY WEST GREENWICH-EXETER VICTORY HIGHWAY PLAINFIELD PIKE TO NOOSENECK HILL ROAD 43 SHEETS NO. 24 & 25 SCALE 40 FEET PER INCH PLAT NO. 187. RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
2. THE VERTICAL DATUM SHOWN HEREON REFERENCES NAVD88, IN FEET. THE HORIZONTAL DATUM SHOWN HEREON REFERENCES NAD83 RHODE ISLAND STATE PLANE, IN US SURVEY FEET.
3. ENGINEER'S ENDORSEMENT IS FOR PERMITTING PURPOSES ONLY. PLANS NOT INTENDED FOR CONSTRUCTION.
4. WETLANDS WERE DELINEATED BY ESI IN APRIL AND MAY 2022, AND VERIFIED BY TRC COMPANIES IN NOVEMBER 2022. FINAL WETLAND DELINEATION REPORT DATED JANUARY 2023. WETLAND EDGES WERE VERIFIED BY RIDEM IN A LETTER DATED JULY 14, 2023.
5. THE SITE IS NOT LOCATED WITHIN A RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT NATURAL HERITAGE AREA ACCORDING TO THE RHODE ISLAND ONLINE GIS MAP LAST UPDATED MARCH 2023.
6. SITE IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA (SFHA) ZONE, ACCORDING TO FEMA FIRM PANEL 440030090J (EFFECTIVE JULY 19, 2023).
7. SITE IS NOT LOCATED WITHIN A GROUNDWATER RECHARGE OR WELLHEAD PROTECTION AREA ACCORDING TO THE TOWN OF COVENTRY, RHODE ISLAND ONLINE GIS MAP.
8. THESE PLANS FOLLOW THE COVENTRY ZONING BOARD OF REVIEW'S CONDITIONS OF APPROVAL AS DESCRIBED IN THEIR RECORD OF DECISION ON APPLICATION FOR SPECIAL USE PERMIT, RATIFIED AUGUST 2, 2023.
9. THE APPLICANT IS PROPOSING TO INSTALL SOLAR PANELS WITHIN 83 FEET OF THE PROPERTY LINE BOUNDARY. THE APPLICANT IS REQUESTING A ZONING VARIANCE UNDER THE COVENTRY ZONING ORDINANCE TO ALLOW FOR INSTALLATION OF PANELS WITHIN THE 85-FOOT SIDE YARD SETBACK.

DOCUMENT USE:

- 1. THESE PLANS AND THE CORRESPONDING CAD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE PREPARED BY TRC COMPANIES, 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 TRC COMPANIES. 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 TRC COMPANIES.
2. 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.
3. 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.

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 REPORT" PREPARED BY TRC, DRAFT DATED JULY 2023.
6. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, STREETS, PAVEMENTS, HIGHWAY GUARDS, CURBING, EDGINGS, 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 AND TOWN 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.

UTILITIES NOTES:

- 1. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
2. 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.
3. 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 DISA, 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.
4. 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.

- 5. UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES.
6. IF REQUIRED, OVERHEAD LINES SHALL BE RELOCATED BY THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
7. 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.
8. 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.

STORMWATER DETENTION BASIN (INFILTRATION BASIN) NOTES:

- 1. 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 TREES, BRUSH, LOGS, FENCES, RUBBISH AND OTHER OBJECTIONABLE MATERIAL.
2. ALL WORK ON PERMANENT DETENTION 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.
3. 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 COMPACTING 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 SUMP FROM WHICH THE WATER SHALL BE PUMPED.
4. ALL EXCAVATED AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SLIGHTLY CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING.
5. 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 COMPACTED 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 COMPACTED 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 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.
6. 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 THE SPECIFICATIONS PROVIDED ON DRAWING D-4. 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.
7. 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 PERMISSIBLE FILL 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.
8. 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. YES 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 COMPACTED 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).

EROSION & SEDIMENTATION CONTROL NOTES:

- 1. THE CONTRACTOR IS REQUIRED TO REVIEW AND IMPLEMENT THE SOIL EROSION AND SEDIMENT CONTROL (SESC) 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 RIPDES CONSTRUCTION GENERAL PERMIT.
2. EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AS SHOWN HEREIN OR AS DIRECTED BY A THIRD PARTY DESIGNATED SITE INSPECTOR.
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 SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO ROADS SHALL BE REMOVED. DURING WET WEATHER, IT MAY BE NECESSARY TO WASH VEHICLES TRUCKS 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 THIRD PARTY DESIGNATED SITE INSPECTOR 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 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. 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.

- 9. 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.
10. WOOD CHIP MULCH GENERATED ON-SITE MAY BE APPLIED TO SLOPES 3:1 OR FLATTER FOR TEMPORARY EROSION CONTROL WHEN SOIL AND SITE CONDITIONS ARE SUITABLE FOR SPREADING. ALL MULCH MATERIAL SHALL BE CAPABLE OF BEING APPLIED EVENLY SUCH THAT IT PROVIDES 100% INITIAL SOIL COVERAGE AND ADHERES TO THE SOIL SURFACE. DOES NOT SLIP ON SLOPES WHEN IT RAINS OR IS WATERED, DOES NOT BLOW OFF SITE AND DISSIPATES RAINDROP SPLASH. SPREAD WOOD CHIP MULCH UNIFORMLY RESULTING IN 100% COVERAGE OF DISTURBED SOIL TO BE STABILIZED. SUGGESTED APPLICATION RATE IS 6 CY/1,000 SQ FT. DO NOT SPREAD WOOD CHIPS ON SLOPES SO THICK THAT IT WILL SLIP OR SLUMP.

- 11. IF SEEDING IS PERFORMED WHERE WOOD CHIPS HAVE BEEN PREVIOUSLY APPLIED, THE WOOD CHIPS SHOULD BE REMOVED OR TILLED INTO THE GROUND AND ADDITIONAL NITROGEN APPLIED PRIOR TO SEEDING. NITROGEN APPLICATION RATE SHALL BE DETERMINED BY SOIL TEST AT TIME OF SEEDING.
12. WHERE SOIL PROTECTION FALLS BELOW 100%, REAPPLY SOIL PROTECTION WITHIN 48 HOURS. DETERMINE THE CAUSE OF THE FAILURE. IF FAILURE WAS THE RESULT OF WIND, CONSIDER APPLYING A TACKIFIER OR NETTING. IF FAILURE WAS CAUSED BY CONCENTRATING WATER, INSTALL ADDITIONAL MEASURES TO CONTROL WATER AND SEDIMENT MOVEMENT, REPAIR EROSION DAMAGE, REAPPLY MULCH WITH ANCHORING OR USE TEMPORARY EROSION CONTROL BLANKETS.
13. 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 FALLS 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.
14. 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.
15. ALL DISTURBED OR UNVEGETATED SOIL SHALL HAVE A MINIMUM OF FOUR INCHES OF LOAM (RIDOT M.18.01) OR PLANTABLE SOIL (RIDOT M.18.02) PLACED BEFORE BEING PERMANENTLY SEEDED AND MULCHED AS APPLICABLE. LOAM OR PLANTABLE SOIL FROM AN OFF SITE BORROW SOURCE SHALL BE SAMPLED AND APPROVED FOR USE PRIOR TO ITS DELIVERY TO THE SITE.
16. PERMANENT SEEDING SHALL BE APPLIED HYDRAULICALLY. REFER TO THE GENERAL LANDSCAPE AND SEEDING NOTES ON DRAWING L-3. HYDROSEED PRODUCTS APPROVED BY THE ENGINEER 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 HYDROSEED AND EROSION CONTROL BLANKET/TURF REINFORCEMENT MAT.
17. 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). REFER TO THE SEEDING NOTES ON DRAWING L-3 FOR THE SEED MIXTURES TO BE USED FOR PERMANENT STABILIZATION.
18. FULL ADVANTAGE SHALL BE TAKEN OF TIME AND WEATHER CONDITIONS BEST SUITED FOR SEEDING. REFER TO THE SEEDING NOTES ON DRAWING L-3 FOR THE NORMAL DATES FOR PERMANENT SEEDING. 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.
19. 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.
20. 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.
21. INSPECTIONS OF EROSION CONTROLS SHALL BE CONDUCTED BY QUALIFIED PERSONNEL, AS DESIGNATED BY THE RIPDES CSP, RETAINED BY AND REPORTING TO EDPR NA DISTRIBUTED, LLC. (THIRD PARTY DESIGNATED SITE INSPECTOR). INSPECTIONS OF EROSION CONTROLS MUST BE 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 EROSION CONTROLS SHALL BE REPLACED. ACCUMULATED SEDIMENT SHALL BE STOCKPILED FOR LATER REUSE.
22. FILL MATERIAL SHALL BE FREE OF STUMPS, WOODS, ROOTS, AND OTHER DELETERIOUS MATERIAL.
23. 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 RESPREAD 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. SOIL AND MATERIAL STOCKPILES SHALL NOT BE LOCATED IN AREAS ASSOCIATED WITH PERMANENT STORMWATER BASINS.
24. SELF-INSTALLED ABOVE-GRADE CONCRETE WASHOUTS SHOULD BE CONSTRUCTED WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FEET, BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUIDS AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. INCLUDE A MINIMUM OF 12 INCHES OF FREEBOARD IN THE SIZING CALCULATIONS. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NOT LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE, SLURRIES AND LIQUIDS SHALL BE REMOVED AND PROPERLY DISPOSED OF.
25. ONCE GRADED, STORMWATER BASINS SHALL BE SURROUNDED WITH SNOW FENCE AND PROTECTED FROM HEAVY EQUIPMENT. IF THE SOIL OR SAND FILTER BECOMES COMPACTED, IT SHALL BE SUITABLY AMENDED, TILLED, AND RE-VEGETATED AS NEEDED ONCE CONSTRUCTION IS COMPLETE TO RESTORE INFILTRATION CAPACITY.
26. THE TEMPORARY LAYDOWN AREA SHALL BE RESTORED TO ORIGINAL CONDITIONS WITHIN FOURTEEN DAYS AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED. THE SUBGRADE SHALL BE SUITABLY AMENDED, TILLED, AND RE-VEGETATED TO RESTORE INFILTRATION CAPACITY.

TEMPORARY SEDIMENT TRAP NOTES

- 1. CLEAR, GRUB 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.

PROPOSED LEGEND

Legend table with symbols and descriptions: 555 PROPOSED MAJOR CONTOUR, 553 PROPOSED MINOR CONTOUR, OHW OVERHEAD WIRES, UGE UNDERGROUND ELECTRIC, CHAIN LINK FENCE, LOD LIMITS OF DISTURBANCE, SLOD COMBINED LIMITS OF DISTURBANCE / FILTER SOCK, SF SILT FENCE, FS FILTER SOCK, JURISDICTIONAL AREA, WL WETLAND BOUNDARY, WLB WETLAND BUFFER, TEMPORARY DIVERSION, LIMITS OF SHADE TREE CLEARING, CRUSHED STONE ACCESS ROAD, UTILITY POLE (CUSTOMER OWNED), UTILITY POLE (UTILITY OWNED), TEST PIT, TEMPORARY SEDIMENT TRAP

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MOO COW SOLAR AP 304, LOTS 27.1 and 28 2446 VICTORY HIGHWAY COVENTRY, RHODE ISLAND

PAYSON R. WHITNEY, III No. 8551 REGISTERED PROFESSIONAL ENGINEER CIVIL

Revision table with columns: No., REVISION, DATE, DRAWN, DESIGN, CHK. Includes rows for design and check.

PRELIMINARY PLAN APPLICATION NOTES FOR PERMITTING ONLY

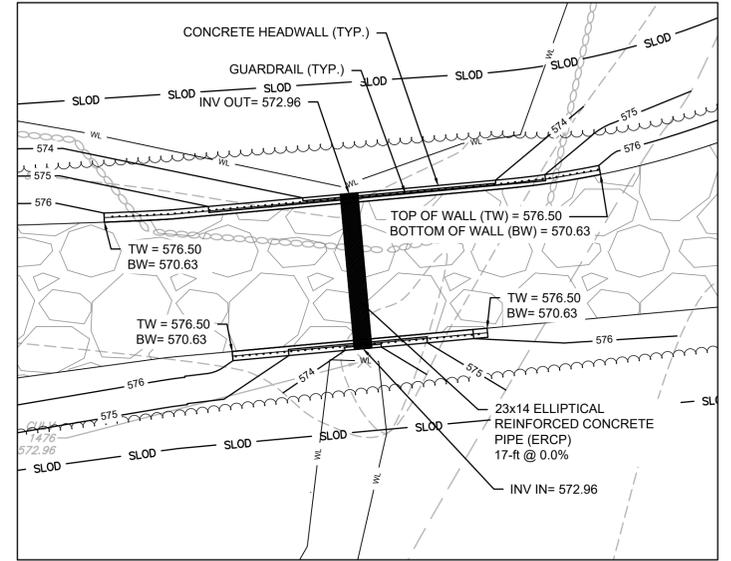
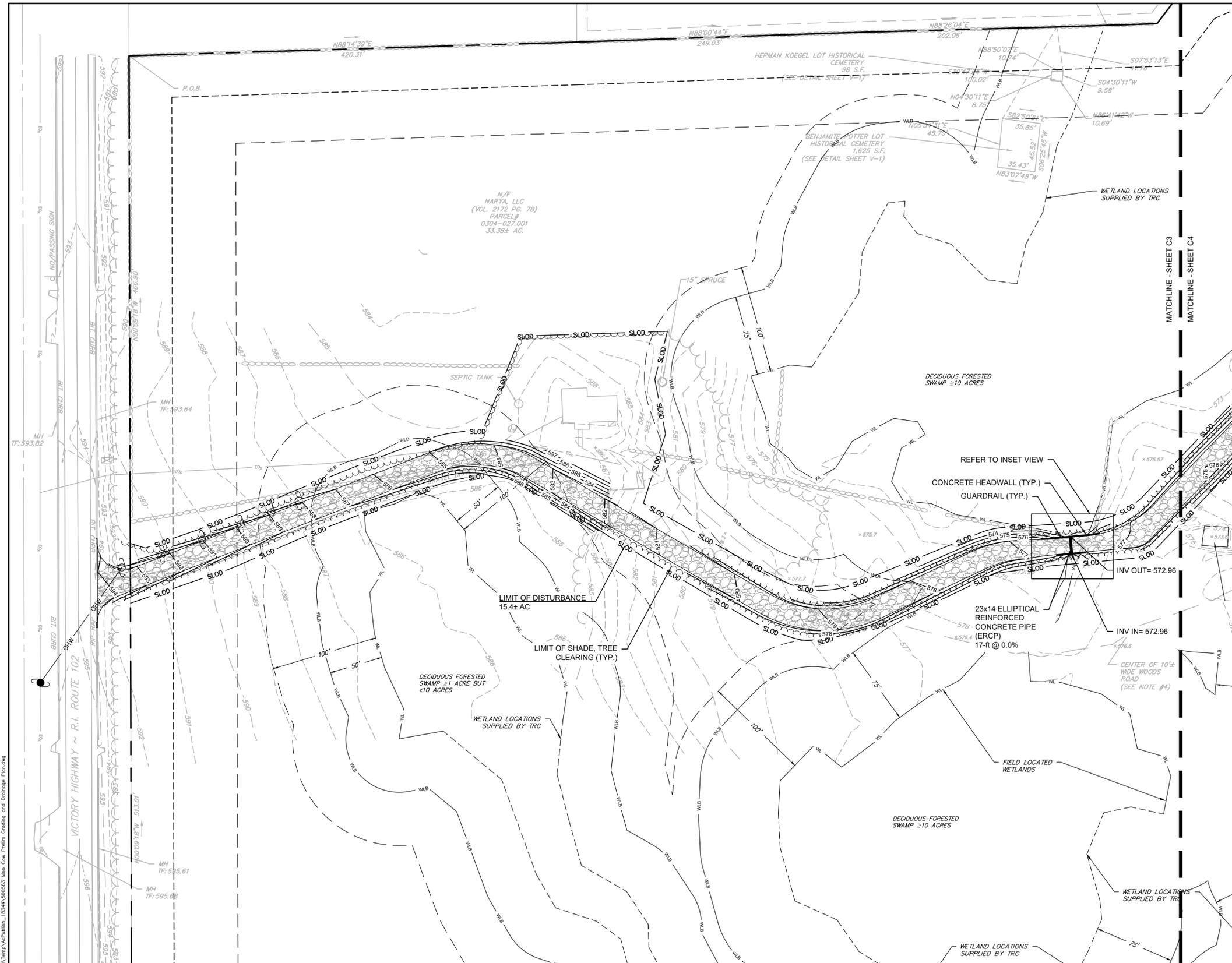
DRAWING NO. N-1 PROJECT NO: 500563 DATE OF ISSUE: 2/1/2024 SHEET NO: 2 OF 17

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1  
6 **CULVERT INSET VIEW**  
SCALE: 1" = 10'

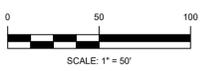
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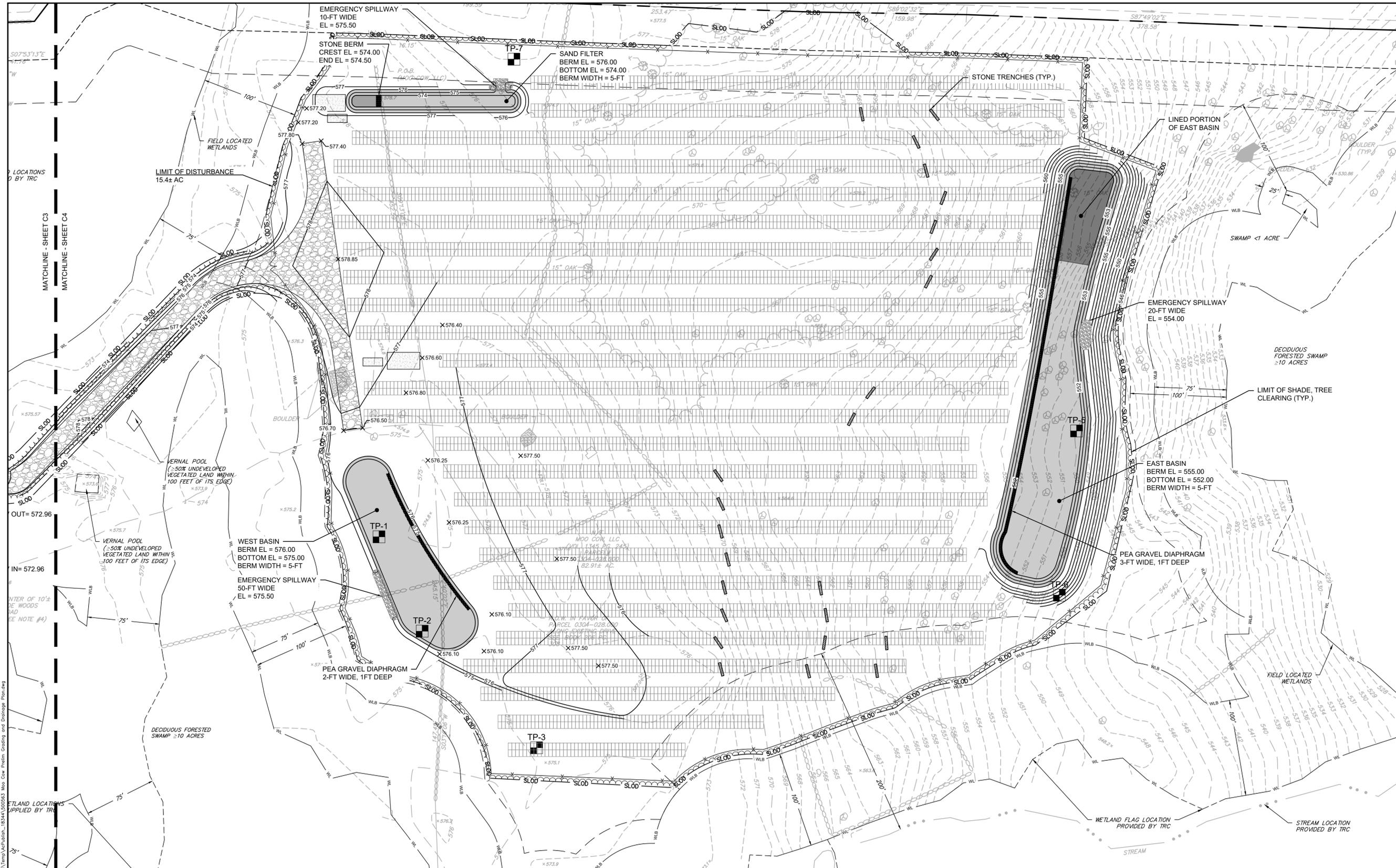
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**PRELIMINARY PLAN APPLICATION  
GRADING AND DRAINAGE**

**FOR PERMITTING ONLY**

DRAWING NO:  
**C-3**

PROJECT NO: 500563  
DATE OF ISSUE: 2/1/2024  
SHEET NO: 6 OF 17



LOCATIONS BY TRC  
MATCHLINE - SHEET C3  
MATCHLINE - SHEET C4  
OUT= 572.96  
IN= 572.96  
WATER OF 10'± DE WOODS (SEE NOTE #4)  
WETLAND LOCATIONS SUPPLIED BY TRC

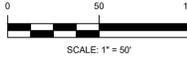


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SCALE: 1" = 50'

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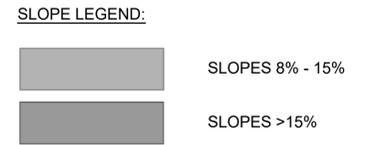
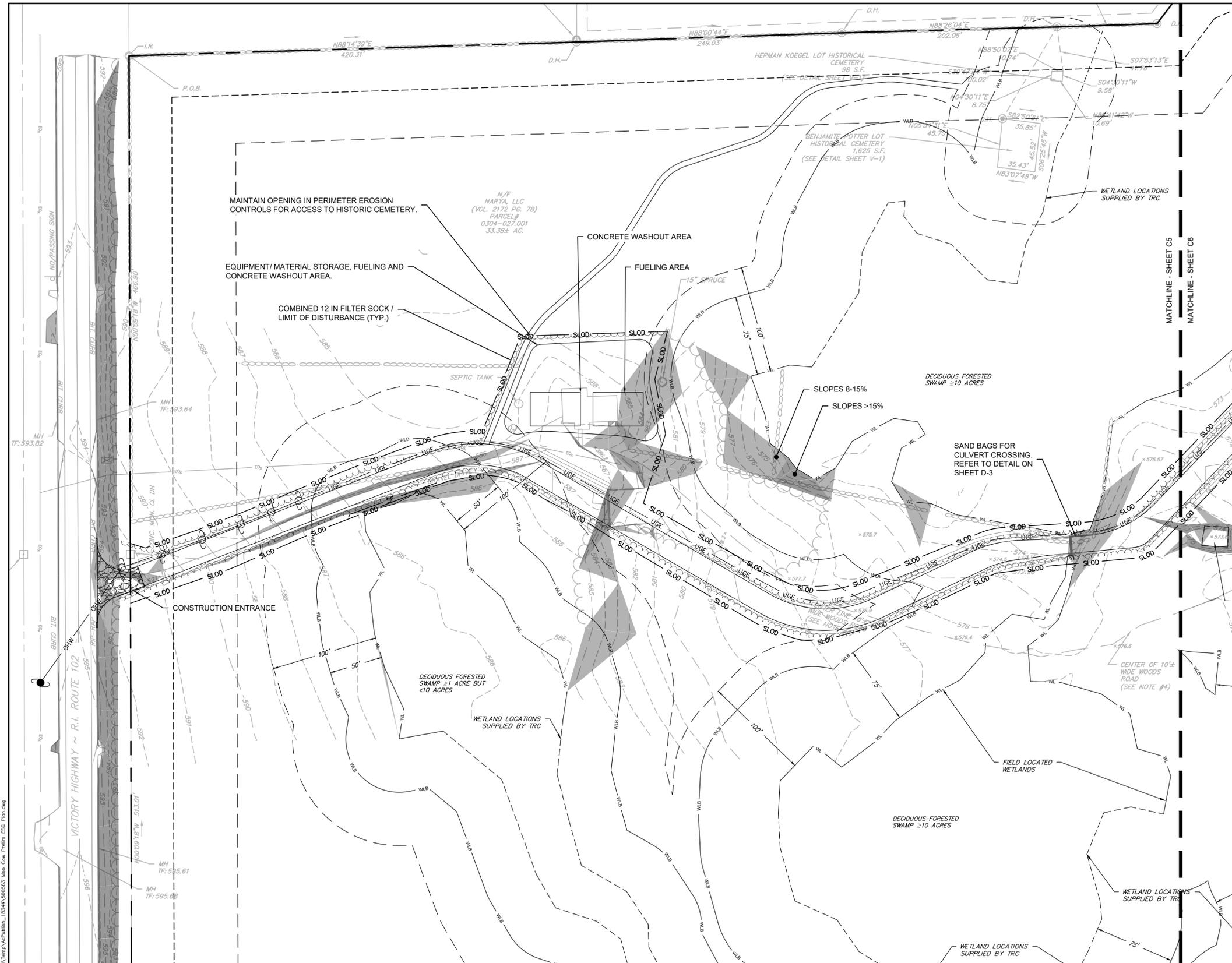
**PRELIMINARY PLAN APPLICATION**  
**GRADING AND DRAINAGE**

**FOR PERMITTING ONLY**

DRAWING NO:  
**C-4**

PROJECT NO: 500563  
DATE OF ISSUE: 2/1/2024  
SHEET NO: 7 OF 17

DATE: Feb 01, 2024 - 10:14AM  
FILENAME: C:\Users\emilap\AppData\Local\Temp\A\Public\18344\030563.Mxd  
User: emilap  
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- NOTES:**
- 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.

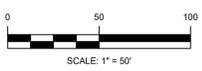
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No.	REVISION	DATE	DRAWN	DESIGN	CHK

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**PRELIMINARY PLAN APPLICATION**  
**EROSION AND SEDIMENT CONTROL**

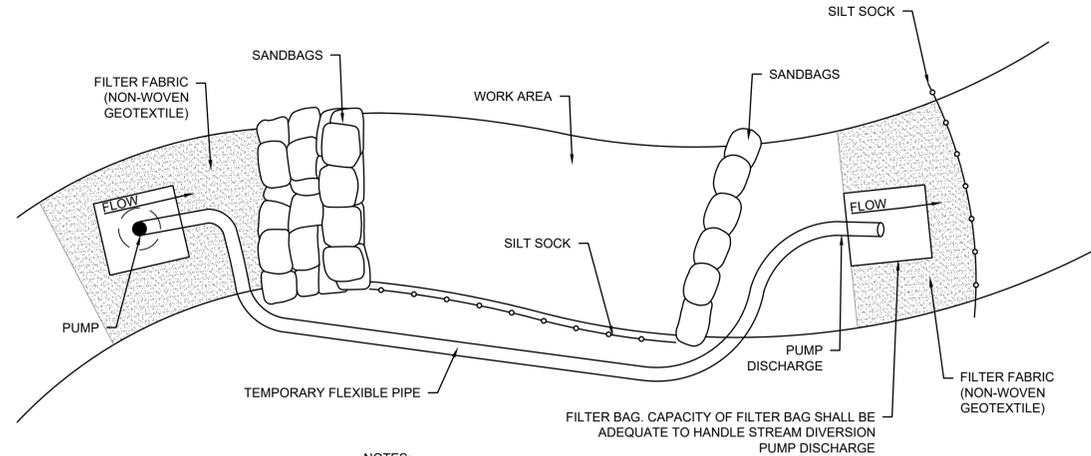
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DRAWING NO:  
**C-5**  
 PROJECT NO: 500563  
 DATE OF ISSUE: 2/1/2024  
 SHEET NO: 8 OF 17





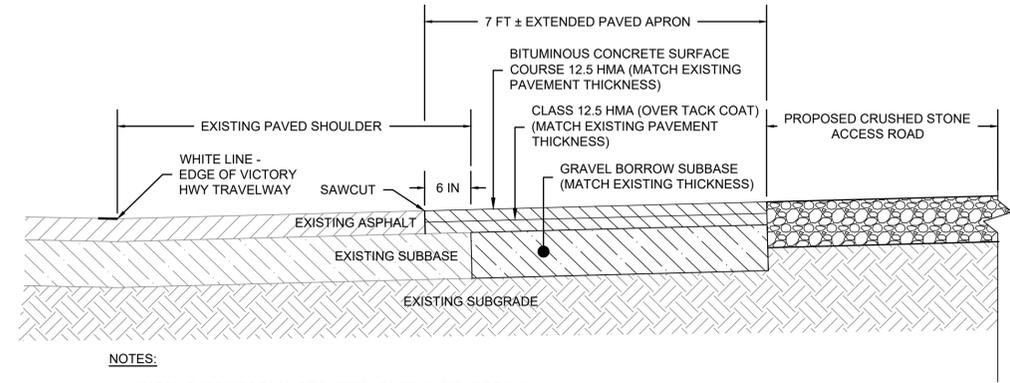




**NOTES:**

1. INSTALL TEMPORARY SANDBAGS AND SILT SOCK OR EQUIVALENT TO MAINTAIN A DRY WORK AREA FOR CONSTRUCTION ACTIVITIES AND TO PREVENT SEDIMENTATION.
2. SANDBAGS TO BE LOCATED UPSTREAM OF THE WORK AREA AND DOWNSTREAM OF THE WORK AREA. A TEMPORARY FLEXIBLE PIPE SHALL CONVEY FLOW AROUND THE WORK AREA.
3. SIZE AND PROVIDE A TEMPORARY FLEXIBLE PIPE TO BE WITH ADEQUATE CAPACITY TO MAINTAIN BASE STREAM FLOW.
4. DIVERSION PUMP AND DISCHARGE LINE SIZE AND TYPE TO BE DETERMINED BY CONTRACTOR BASED ON DEWATER OPERATIONS.

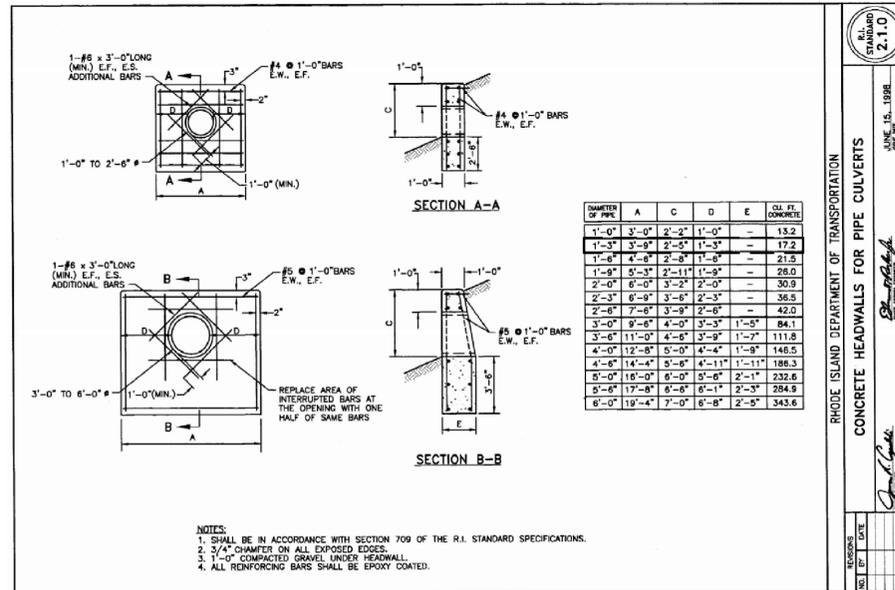
**1** **TYPICAL CULVERT DIVERSION**  
SCALE: NTS



**NOTES:**

1. MATCH EXISTING DRAINAGE PATTERNS WITHIN RIGHT OF WAY.
2. SAW CUT EXISTING PAVEMENT 6 INCHES FROM EDGE OF PAVEMENT. TACK COAT FACE BEFORE PAVING.

**2** **TYPICAL PAVED APRON**  
SCALE: NTS



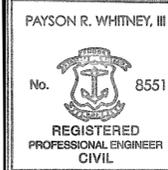
**3** **CONCRETE HEADWALL**  
SCALE: NTS



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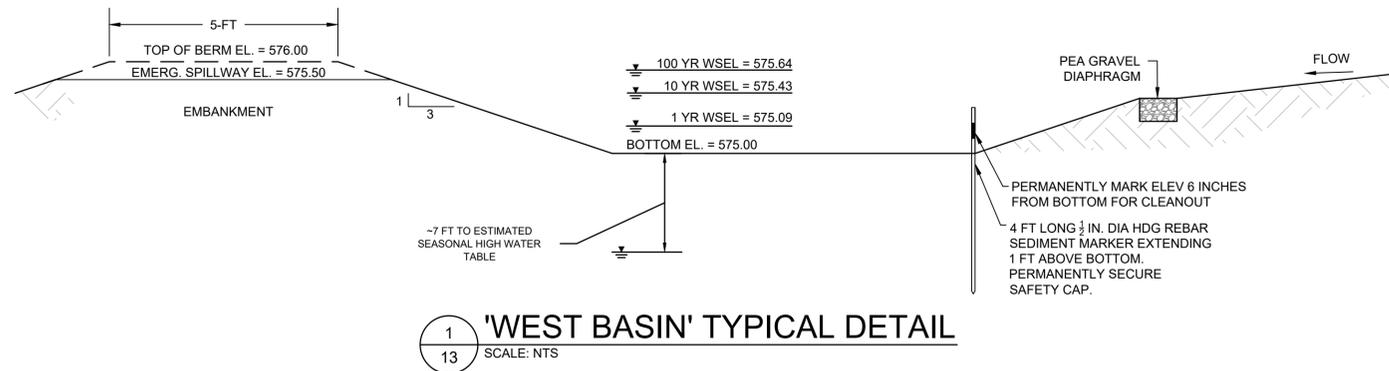
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**PRELIMINARY PLAN APPLICATION  
DETAILS**

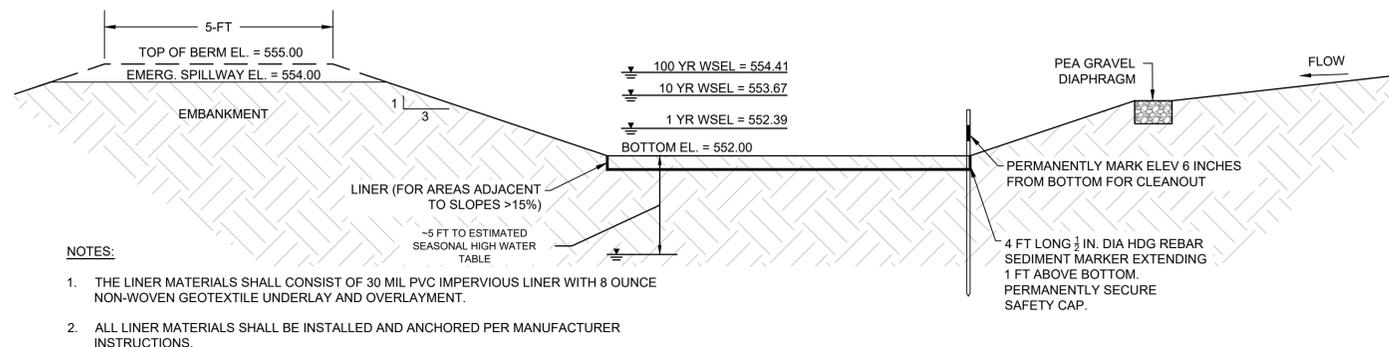
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**D-3**

PROJECT NO: 500563  
DATE OF ISSUE: 2/1/2024  
SHEET NO: 12 OF 17

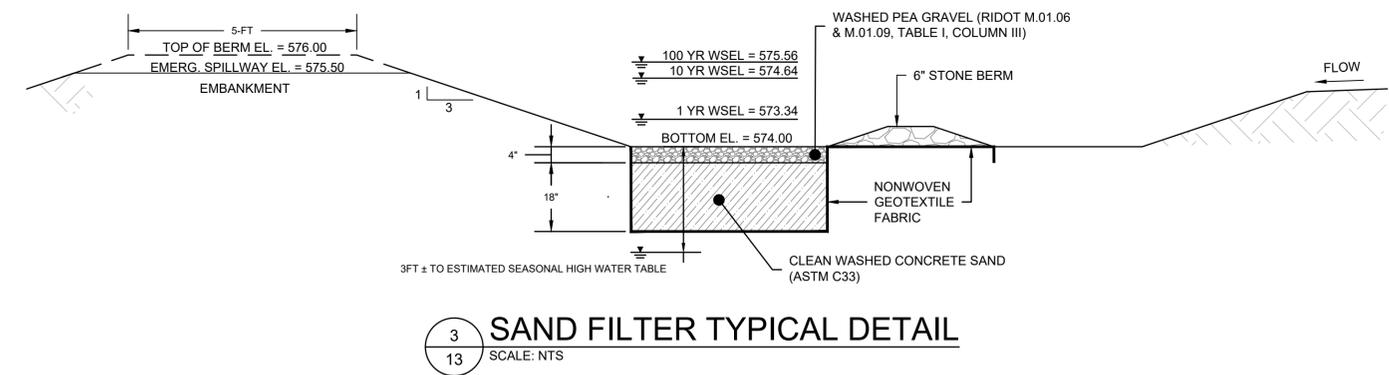


1 'WEST BASIN' TYPICAL DETAIL  
SCALE: NTS

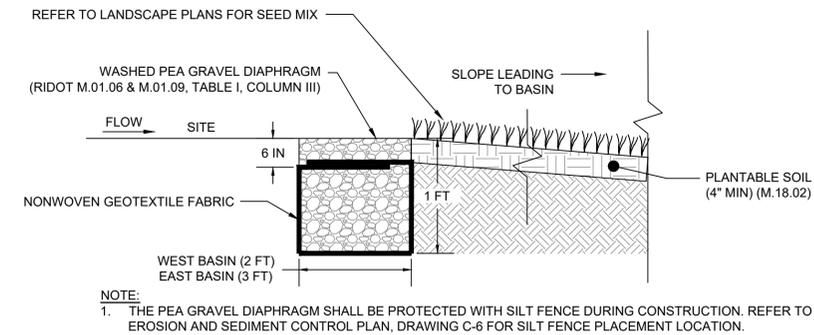


2 'EAST BASIN' TYPICAL DETAIL  
SCALE: NTS

- NOTES:
1. THE LINER MATERIALS SHALL CONSIST OF 30 MIL PVC IMPERVIOUS LINER WITH 8 OUNCE NON-WOVEN GEOTEXTILE UNDERLAY AND OVERLAYMENT.
  2. ALL LINER MATERIALS SHALL BE INSTALLED AND ANCHORED PER MANUFACTURER INSTRUCTIONS.

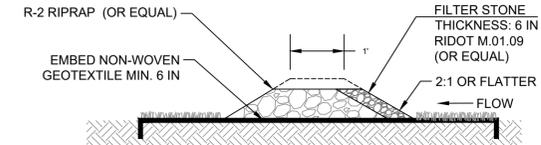


3 SAND FILTER TYPICAL DETAIL  
SCALE: NTS

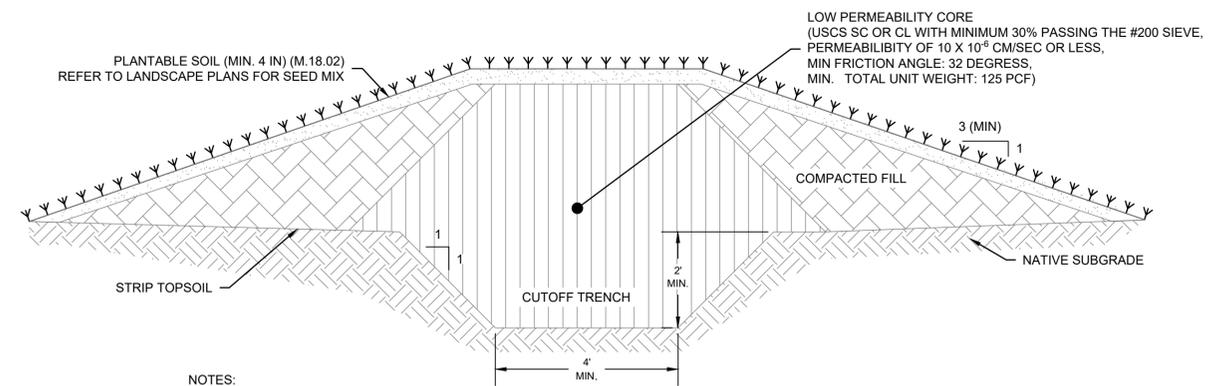


4 TYPICAL PEA GRAVEL DIAPHRAGM  
SCALE: NTS

- NOTE:
1. THE PEA GRAVEL DIAPHRAGM SHALL BE PROTECTED WITH SILT FENCE DURING CONSTRUCTION. REFER TO EROSION AND SEDIMENT CONTROL PLAN, DRAWING C-6 FOR SILT FENCE PLACEMENT LOCATION.



5 TYPICAL STONE BERM  
SCALE: NTS



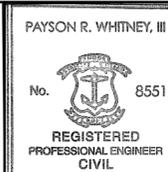
- NOTES:
1. SEE STORMWATER BASIN NOTES ON DRAWING N-1
  2. EMBANKMENT SHALL BE STABILIZED WITH A MINIMUM OF 4 INCHES OF PLANTABLE SOIL AND SEED OR FILTER FABRIC AND RIP-RAP AS SHOWN.

6 TYPICAL BASIN EMBANKMENT CROSS SECTION  
SCALE: NTS



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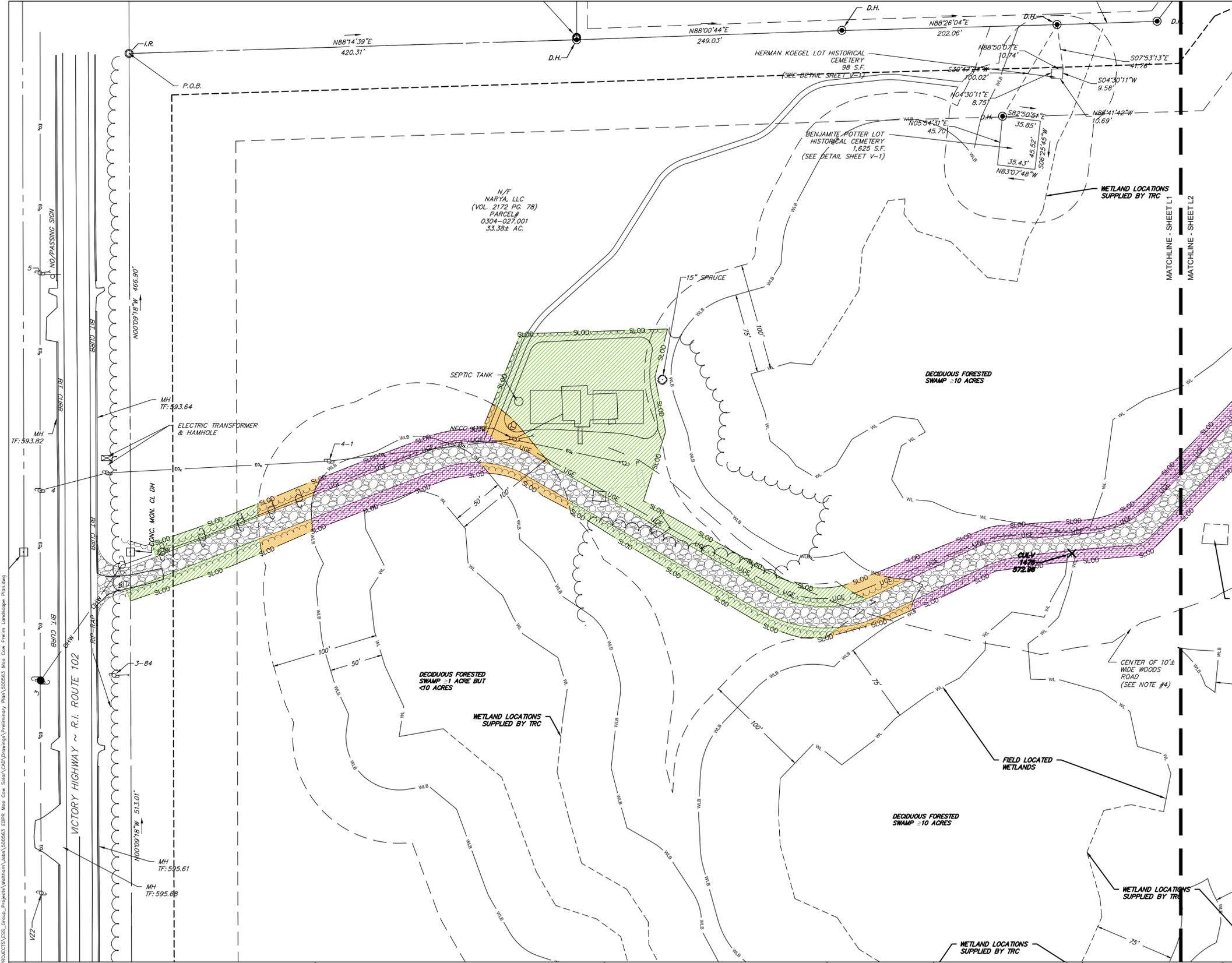
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PRELIMINARY PLAN APPLICATION  
DETAILS

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D-4

PROJECT NO: 500563  
DATE OF ISSUE: 2/1/2024  
SHEET NO: 13 OF 17



**LEGEND - REFER TO L4 DETAILS**

	ACCESS ROAD - UPL SEED MIXES - 28,400 SF = 65 ACRES
	ACCESS ROAD - FACU SEED MIXES - 4,350 SF = 10 ACRES
	ACCESS ROAD - FAC SEED MIXES - 17,880 SF = 41 ACRES

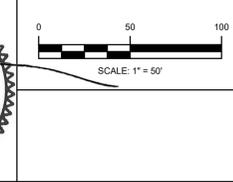
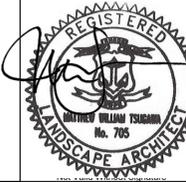
- NOTES:**
1. FINAL LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRES, POLES, INVERTERS, ETC. TO BE DETERMINED BY OTHERS AND APPROVED BY OWNER. ALL ELECTRICAL CONNECTION AND DISTRIBUTION WITHIN THE ARRAY SHALL BE UNDERGROUND. ALL UNDERGROUND ELECTRICAL NOT SHOWN ON THIS PLAN SET.
  2. FINAL NUMBER AND LOCATION 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 12 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.
  7. DECORATIVE ACCESS GATE SUBJECT TO APPROVAL BY TOWN PLANNER PRIOR TO INSTALLATION.



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**PRELIMINARY PLAN APPLICATION  
LANDSCAPE PLAN**

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DRAWING NO:  
**L-1**

PROJECT NO: 500563  
DATE OF ISSUE: 2/1/2024  
SHEET NO: 15 OF 17

DATE: Jan 30, 2024 - 2:43PM  
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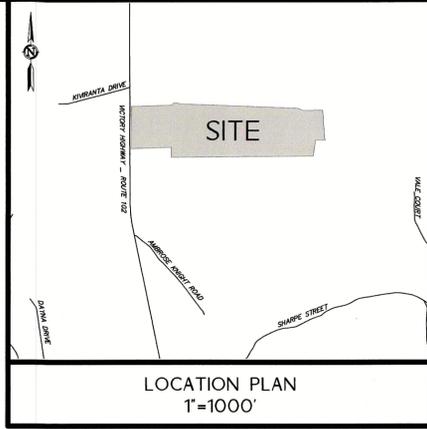
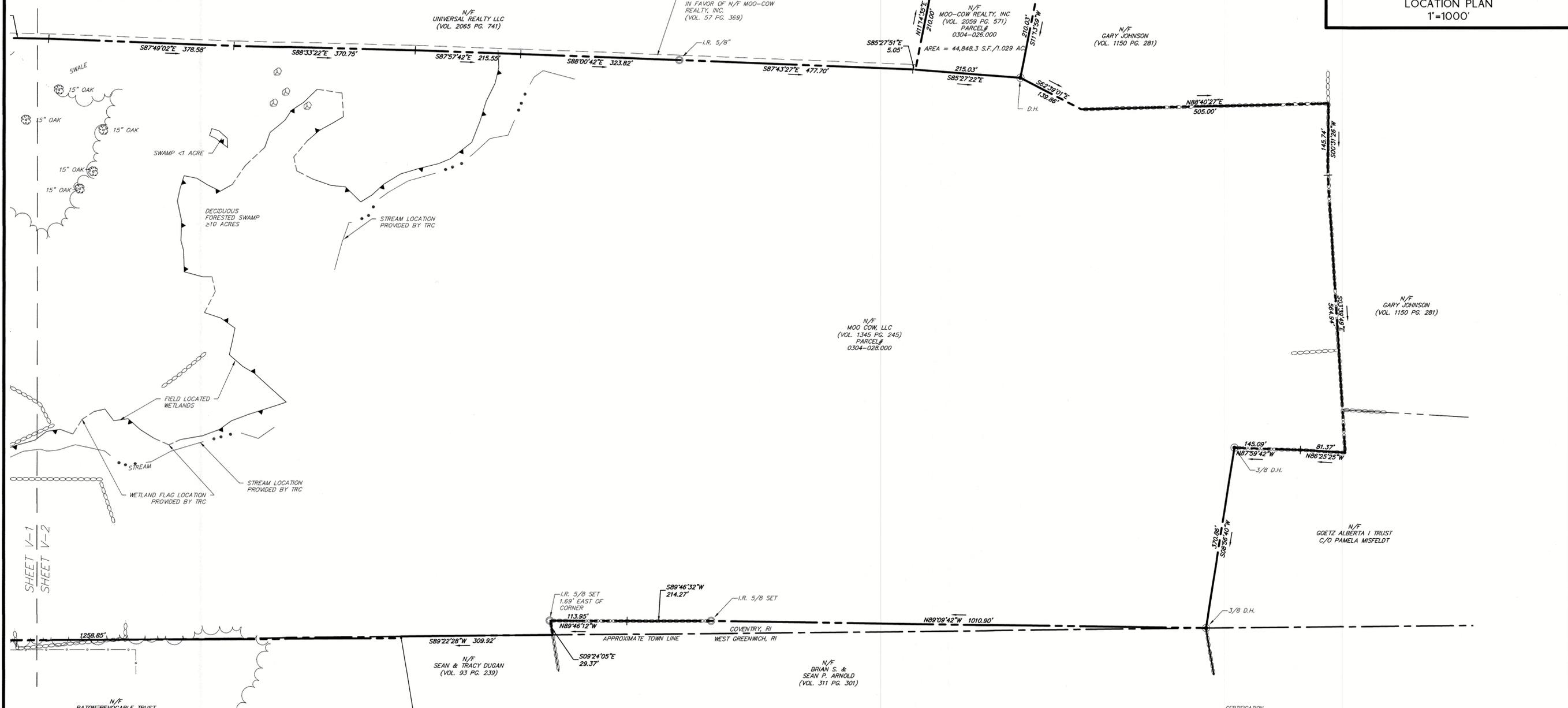








- NOTES:**
- PROPERTY IS IN THE RRS (RURAL RESIDENTIAL - 5 ACRES) ZONE.
  - PARCEL #0304-027.001 CONTAINS 1,452,332.7 SQUARE FEET OR 33.340 ACRES. PARCEL #0304-028.000 CONTAINS 5,616,644.2 SQUARE FEET OR 128.912 ACRES. PARCEL #0304-026.000 CONTAINS 44,848.3 SQUARE FEET OR 1.029 ACRES.
  - HORIZONTAL DATUM IS BASED ON NAD83. VERTICAL DATUM IS BASED ON NAVD88.
  - PARCEL 0304-027.001 IS SUBJECT TO A R.O.W. IN FAVOR OF PARCEL 0304-028.00 ALONG EXISTING PATH, SEE BOOK 206 PG. 309.
  - PROPERTY DOES NOT FALL WITHIN THE LIMITS OF A SPECIAL FLOOD HAZARD ZONE AS DEPICTED ON: "FIRM FLOOD INSURANCE RATE MAP NUMBER 44003C00900H TOWN OF COVENTRY RHODE ISLAND KENT COUNTY PANEL 90 OF 251 COMMUNITY NUMBER 440004 EFFECTIVE DATE: APRIL 3, 2020 AS DEPICTED ON FEDERAL EMERGENCY MANAGEMENT AGENCY FEDERAL INSURANCE ADMINISTRATION AND AS DEPICTED ON: "FIRM FLOOD INSURANCE RATE MAP NUMBER 44003C00950G TOWN OF COVENTRY RHODE ISLAND KENT COUNTY PANEL 95 OF 251 COMMUNITY NUMBER 440004 EFFECTIVE DATE: DECEMBER 3, 2010 AS DEPICTED ON FEDERAL EMERGENCY MANAGEMENT AGENCY FEDERAL INSURANCE ADMINISTRATION.
  - NO RECENT EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED DURING THE PROCESS OF CONDUCTING FIELD WORK.
  - UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROL TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO DESIGN PROFESSIONALS, INC. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" FOR UNDERGROUND UTILITY MARKING AT LEAST TWO FULL WORKING DAYS PRIOR TO START OF CONSTRUCTION: 1-800-922-4455 OR WWW.CBYD.COM.



**MAP REFERENCES:**

- MAP SHOWING PROPOSED DIVISION OF LAND OF VICTORY HIGHWAY IN THE TOWN OF COVENTRY, RHODE ISLAND OWNED BY MILLIS & SHIRLEY DOROTHY SCALE: 1" = 100' DATE: SEPTEMBER 8, 1996 PREPARED BY THE COVENTRY SURVEY COMPANY, INC.
- BOUNDARY SURVEY OF ASSESSOR'S PLAT 304 LOT 27.1 VICTORY HIGHWAY COVENTRY RHODE ISLAND PREPARED FOR FRANK DOROTHY SCALE: 1" = 100' DATE: MARCH 9, 2020 SHEET 1 OF 1 PREPARED BY SCITUATE SURVEYS, INC.
- BATON REVOCABLE TRUST A.P. 20 LOT 10-1 22 VICTORY HIGHWAY WEST GREENWICH, RHODE ISLAND GD WEST GREENWICH VICTORY 1, LLC GREEN DEVELOPMENT ALTA/ACSM LAND TITLE SURVEY SHEET 1 OF 2 DATE: SEPTEMBER 2019 SCALE 1" = 100' PREPARED BY NATIONAL SURVEYORS-DEVELOPERS INC.
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- CONCEPTUAL SITE PLAN HIDDEN VALLEY LOCATION VICTORY HIGHWAY (ROUTE 102) COVENTRY, RHODE ISLAND PREPARED FOR: UNIVERSAL REALTY, LLC SCALE: 1" = 150' DATE: JAN 18 2001 PREPARED BY MARTINIQUE DESIGNS.
- FOSTER-COVENTRY WEST GREENWICH-EXETER VICTORY HIGHWAY PLAINFIELD PIKE TO NOOSENECK HILL ROAD, 43 SHEETS NO. 24 & 25 SCALE 40 FEET PER INCH PLAT NO. 187, RHODE ISLAND DEPARTMENT OF TRANSPORTATION.

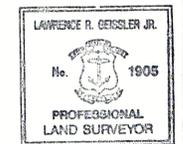
**CERTIFICATION**

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- COMPREHENSIVE BOUNDARY SURVEY CLASS 1
- TOPOGRAPHIC SURVEY ACCURACY CLASS T-2

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: THE PURPOSE OF THE SURVEY IS TO DEPICT THE EXISTING PROPERTY LINES RELATIVE TO EXISTING IMPROVEMENTS ON AND IMMEDIATELY ADJACENT TO THE PROPERTY.

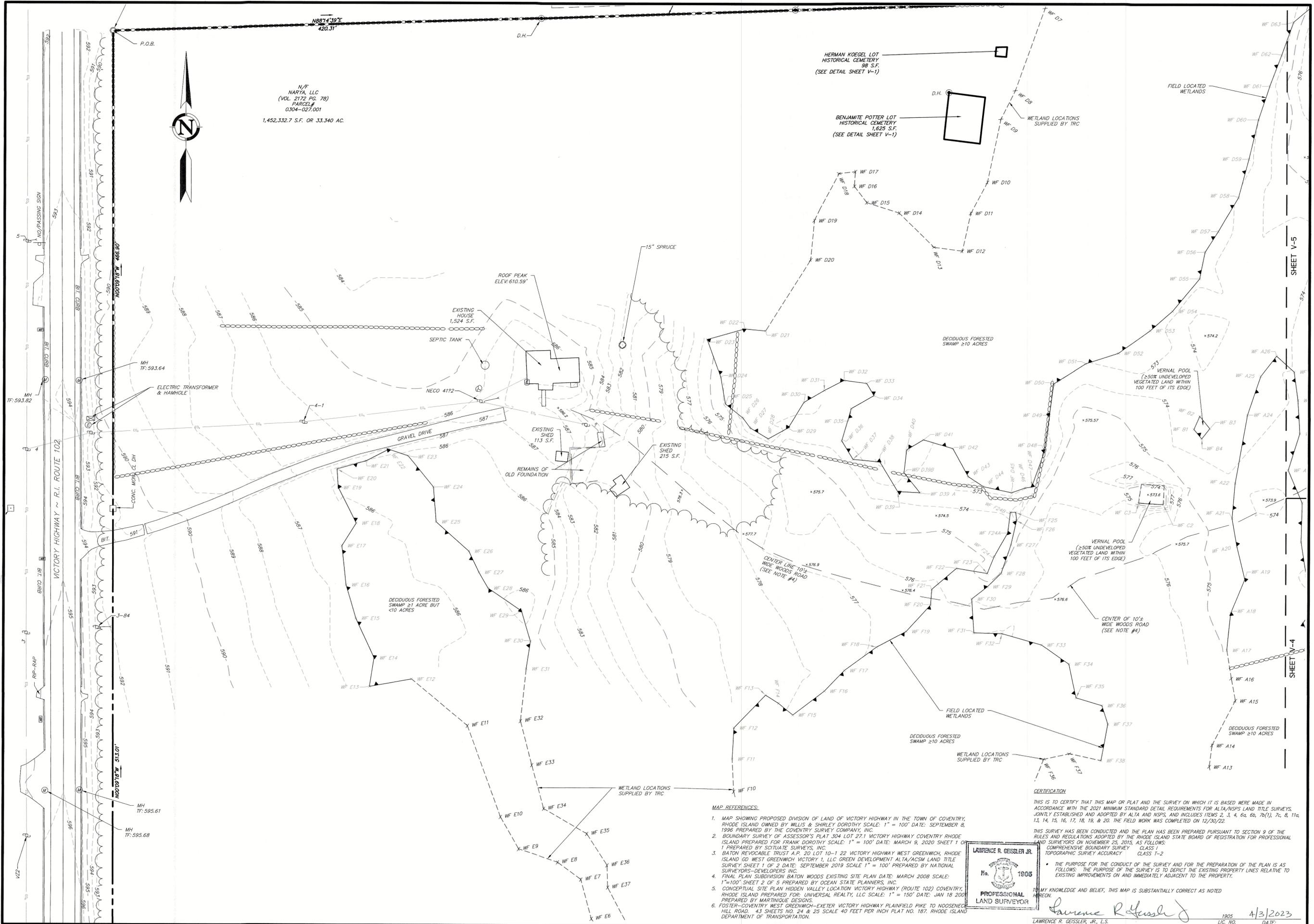


TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

*Lawrence R. Geissler, Jr.*  
LAWRENCE R. GEISSLER, JR., L.S. 1905  
DATE: 4/3/2023

<p>21 JERRY DRIVE SOUTH WINDSOR, CT 06074 860-291-8795 www.designprofessionals.com</p> <p><b>design professionals</b> CIVIL &amp; TRAFFIC ENGINEERS / PLANNERS / SURVEYORS CIVIL GIS ANALYSIS / LANDSCAPE ARCHITECTS</p>	
<p>PROJECT NO. 4372 DATE: 3-06-23 DRAWN BY: MHA CHECKED BY: MHA SCALE: AS SHOWN</p>	<p>PREPARED FOR: TRC Companies, Inc. 404 Wyman Street, Suite 375 Waltham, MA 02451</p>
<p><b>VICTORY HIGHWAY</b> 2446 VICTORY HIGHWAY COVENTRY, RHODE ISLAND</p>	
<p>NO. 1 DATE 3-31-23 BY MHA</p>	<p>REVISIONS SHOW 10' EASEMENT AND PARCEL K0304-26.000</p>
<p><b>ALTA/NSPS LAND TITLE SURVEY</b></p> <p>SCALE: 0 50' 100' 200' 1" = 100'</p>	
<p>SHEET <b>V-2</b></p>	

File C:\Users\43722\Survey\Survey\_Base\43722\_Survey\_Base.dwg Layout V-3 TOPO 40 SCALE Plotted 3/31/2023 10:04 AM Last Saved 3/21/2023 9:52 AM Last Saved By: Matt Aronoff



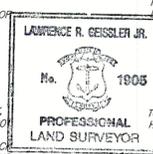
N/F NARYA, LLC  
(VOL. 2172 PG. 78)  
PARCEL# 0304-027.001  
1,452,332.7 S.F. OR 33,340 AC.

HERMAN KOEGL LOT  
HISTORICAL CEMETERY  
98 S.F.  
(SEE DETAIL SHEET V-1)

BENJAMITE POTTER LOT  
HISTORICAL CEMETERY  
1,625 S.F.  
(SEE DETAIL SHEET V-1)

MAP REFERENCES:

- MAP SHOWING PROPOSED DIVISION OF LAND OF VICTORY HIGHWAY IN THE TOWN OF COVENTRY, RHODE ISLAND OWNED BY WILLIS & SHIRLEY DOROTHY SCALE: 1" = 100' DATE: SEPTEMBER 8, 1989 PREPARED BY THE COVENTRY SURVEY COMPANY, INC.
- BOUNDARY SURVEY OF ASSESSOR'S PLAT 304 LOT 27.1 VICTORY HIGHWAY COVENTRY RHODE ISLAND PREPARED FOR FRANK DOROTHY SCALE: 1" = 100' DATE: MARCH 9, 2020 SHEET 1 OF 1 PREPARED BY SCOTLATE SURVEYS, INC.
- BATON REVOCABLE TRUST A.P. 20 LOT 10-1-22 VICTORY HIGHWAY WEST GREENWICH, RHODE ISLAND GD WEST GREENWICH VICTORY 1, LLC GREEN DEVELOPMENT ALTA/ACSM LAND TITLE SURVEYS-DEVELOPERS INC.
- FINAL PLAN SUBDIVISION BATON WOODS EXISTING SITE PLAN DATE: MARCH 2008 SCALE: 1"=100' SHEET 2 OF 5 PREPARED BY OCEAN STATE PLANNERS, INC.
- CONCEPTUAL SITE PLAN HIDDEN VALLEY LOCATION VICTORY HIGHWAY (ROUTE 102) COVENTRY, RHODE ISLAND PREPARED FOR: UNIVERSAL REALTY, LLC SCALE: 1" = 150' DATE: JAN 18 2009 PREPARED BY MARTINIQUE DESIGNS.
- FOSTER-COVENTRY WEST GREENWICH-EXETER VICTORY HIGHWAY PLAINFIELD PIKE TO NOOSENECK HILL ROAD. 43 SHEETS NO. 24 & 25 SCALE 40 FEET PER INCH PLAT NO. 187, RHODE ISLAND DEPARTMENT OF TRANSPORTATION.



**CERTIFICATION**

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THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYS ON NOVEMBER 25, 2015, AS FOLLOWS:  
COMPREHENSIVE BOUNDARY SURVEY CLASS 1  
TOPOGRAPHIC SURVEY ACCURACY CLASS T-2

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

*Lawrence R. Geissler Jr.*  
LAWRENCE R. GEISLER, JR., L.S.  
1905  
DATE: 4/3/2023

**design Professionals**  
CIVIL ENGINEERING ARCHITECTS SURVEYORS  
21 JEFFREY DRIVE  
SOUTH WINDSOR, CT 06474  
860-291-8755 - F  
860-291-8757 - C  
www.designprofessionals.com

PREPARED FOR:  
**TRC Companies, Inc.**  
404 Wymon Street  
Waltham, MA 02451

PROJECT NO: 4372  
DATE: 3-31-23  
DRAWN BY: MHA  
CHECKED BY: RAG

**VICTORY HIGHWAY**  
2446 VICTORY HIGHWAY  
COVENTRY, RHODE ISLAND

NO.	DATE	REVISIONS	BY
1	3-31-23	SHOW 10' EASEMENT AND PARCEL #0304-026.000	MHA

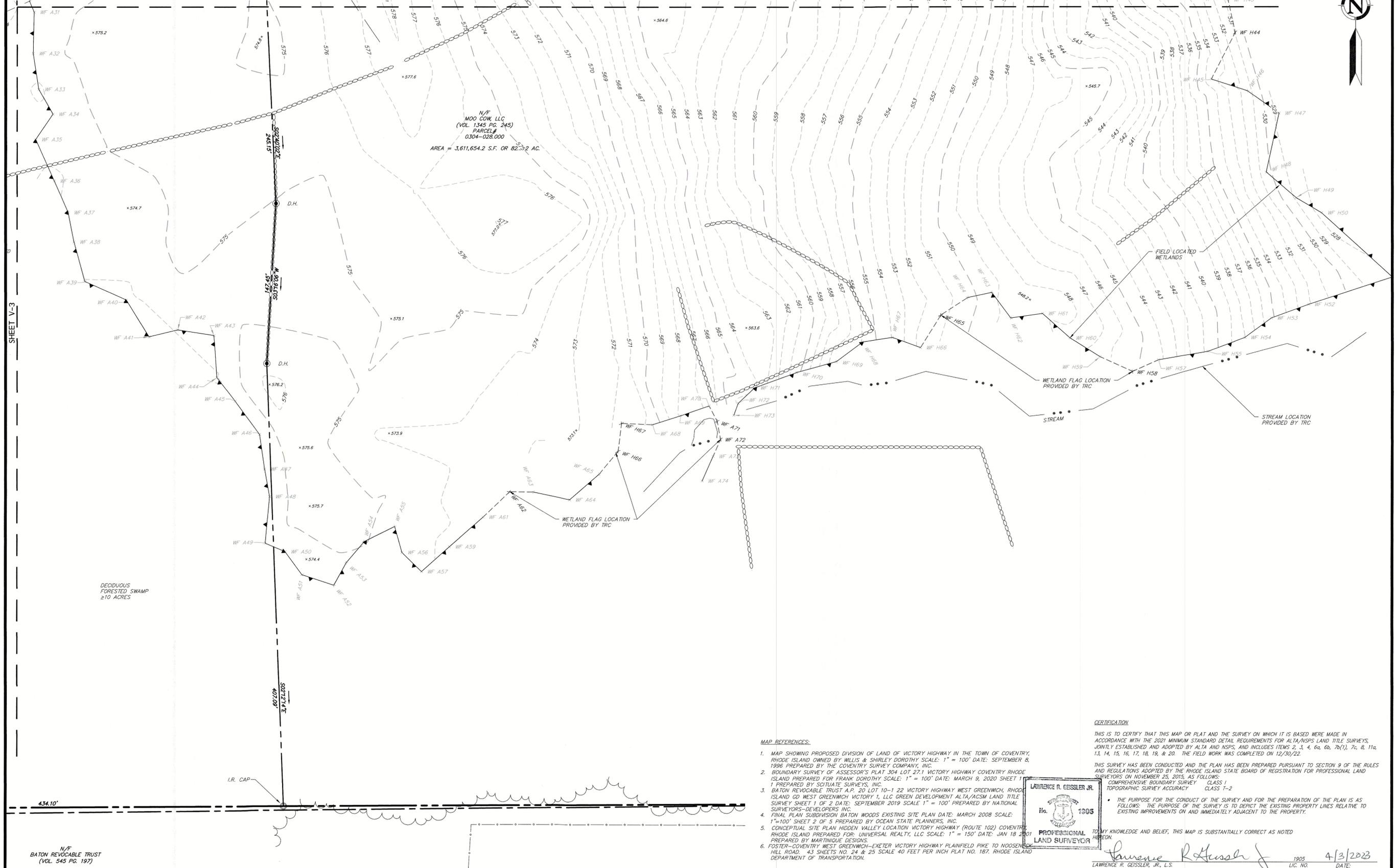
**PROPERTY & TOPOGRAPHIC SURVEY**

SCALE: 0' 20' 40' 80'  
1" = 40'

SHEET  
**V-3**

SHEET V-5

SHEET V-3



DECIDUOUS FORESTED SWAMP ≥10 ACRES

N/F MOO COW, LLC (VOL. 1345 PG. 245) PARCEL# 0304-028.000 AREA = 3,611,654.2 S.F. OR 82.32 AC.

CERTIFICATION

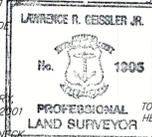
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- BOUNDARY SURVEY OF ASSESSOR'S PLAT 304 LOT 271 VICTORY HIGHWAY COVENTRY RHODE ISLAND PREPARED FOR FRANK DOROTHY SCALE: 1" = 100' DATE: MARCH 9, 2020 SHEET 1 PREPARED BY SOCIUATE SURVEYS, INC.
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- FINAL PLAN SUBDIVISION BATON WOODS EXISTING SITE PLAN DATE: MARCH 2008 SCALE: 1" = 100' SHEET 2 OF 3 PREPARED BY OCEAN STATE PLANNERS, INC.
- CONCEPTUAL SITE PLAN HIDDEN VALLEY LOCATION VICTORY HIGHWAY (ROUTE 102) COVENTRY RHODE ISLAND PREPARED FOR: UNIVERSAL REALTY, LLC SCALE: 1" = 150' DATE: JAN 18 2001 PREPARED BY MARTINIQUE DESIGNS.
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Lawrence R. Geissler, Jr. 1305  
 LAWRENCE R. GEISSELER, JR., L.S. DATE: 4/3/2023  
 LIC. NO. DATE:

21 JEFFREY DRIVE  
 P.O. BOX 1167  
 SOUTH WINDSOR, CT 06074  
 860-291-8757 - F  
 www.designprofessionals.com

**design professionals**  
 CIVIL & TRAFFIC ENGINEERS / PLANNERS / SURVEYORS  
 GIS ANALYSTS / LANDSCAPE ARCHITECTS

PREPARED FOR:  
 TRC Companies, Inc.  
 404 Wyman Street,  
 Suite 375  
 Waltham, MA 02451

PROJECT NO:  
 4372

DATE:  
 3-06-23

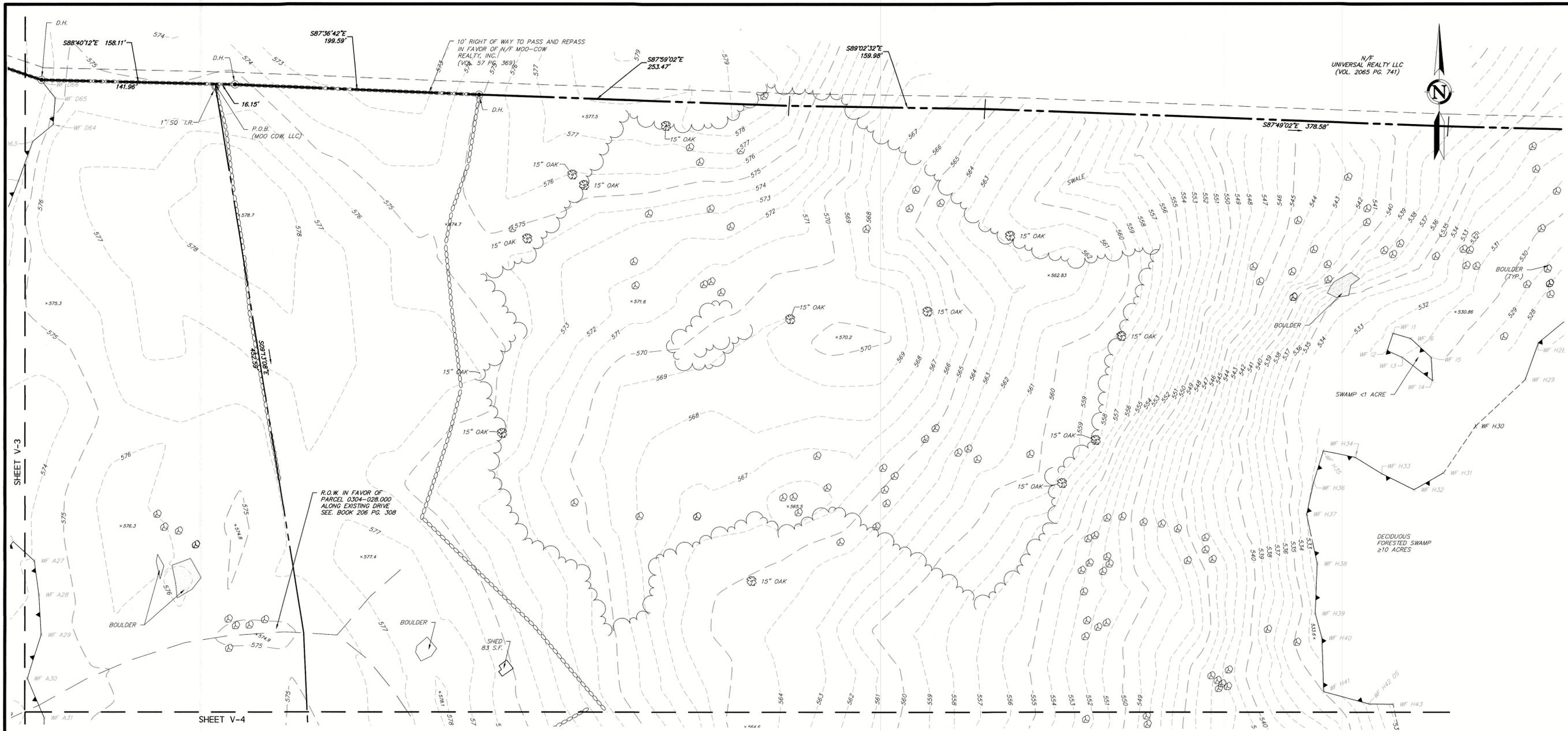
DESIGNED BY:  
 MHA

CHECKED BY:  
 MHA

SCALE:  
 1" = 40'

SHEET  
**V-4**

**VICTORY HIGHWAY**  
 2446 VICTORY HIGHWAY  
 COVENTRY, RHODE ISLAND



LEGEND	
EXISTING	DESCRIPTION
	BORINGS
	BORING / TEST PIT LOCATION
	COMMUNICATION
	OVERHEAD COMM. LINES (CABLE, TEL, ETC.)
	APPROX. UNDERGROUND COMMUNICATION LINES
	CONTROL POINTS
	BENCHMARK
	DOMESTIC WATER
	APPROX. WATER MAIN
	APPROX. WATER SERVICE
	WATER VALVE
	FIRE HYDRANT
	LIGHTING
	POLE MOUNTED LIGHT
	NATURAL GAS
	GAS VALVE
	APPROX. GAS MAIN
	APPROX. GAS SERVICE LINE
	POWER
	ELECTRICAL LINES, OVERHEAD
	APPROX. ELECTRICAL LINES, UNDERGROUND
	UTILITY POLE
	UTILITY POLE WITH LIGHT
	UTILITY POLE WITH TRANSFORMER
	PROPERTY
	PROPERTY LINE
	EASEMENT LINE

	IRON PIPE
	IRON ROD
	MONUMENT
	GUARD RAIL
	SIGN
	SITE FEATURES
	BOULDER
	EDGE OF WATER
	BARBED WIRE FENCE
	CHAIN LINK FENCE
	RAIL FENCE
	STOCKADE FENCE
	WIRE FENCE
	STONE WALL
	TREE
	TREE LINE
	SANITARY SEWER
	APPROX. SANITARY SEWER MAIN
	APPROX. SANITARY SEWER SERVICE LINE
	SANITARY SEWER MANHOLE
	STORM SEWER
	APPROX. STORM DRAIN PIPE
	STORM DRAIN MANHOLE
	CURB INLET
	CATCH BASIN
	TOPOGRAPHY
	CONTOUR
	SPOT ELEVATION
	WETLANDS
	WETLANDS LINE

**NOTES:**

- PROPERTY IS IN THE RR5 (RURAL RESIDENTIAL - 5 ACRES) ZONE.
- PARCEL #0304-027.001 CONTAINS 1,432,332.7 SQUARE FEET OR 33.340 ACRES.
- PARCEL #0304-028.000 CONTAINS 3,611,654.2 SQUARE FEET OR 82.912 ACRES.
- PARCEL #0304-026.000 CONTAINS 44,848 SQUARE FEET OR 1.029 ACRES.
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- NO RECENT EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED DURING THE PROCESS OF CONDUCTING FIELD WORK.
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a. COMPREHENSIVE BOUNDARY SURVEY CLASS 1 TOPOGRAPHIC SURVEY ACCURACY CLASS 1-2

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*Lawrence R. Geissler, Jr.*  
LAWRENCE R. GEISLER, JR., L.S.  
1905 LIC. NO. DATE: 4/3/2023

**design professionals**  
CIVIL & LANDSCAPE ARCHITECTS

PREPARED FOR:  
TRC Companies, Inc.  
404 Wyman Street,  
Suite 375  
Waltham, MA 02451

PROJECT NO: 4372  
DATE: 3-06-23  
DRAWN BY: MHA  
CHECKED BY: MHA  
CREATED BY: MHA

**VICTORY HIGHWAY**  
2446 VICTORY HIGHWAY  
COVENTRY, RHODE ISLAND

BY: MHA  
NO. 1  
DATE: 3-9-23  
SHOW TO: EMBLEM AND PARCEL: R0304-26.000

REVISIONS

SCALE: 0 20 40 80  
1" = 40'

SHEET  
**V-5**

21 JEFFREY DRIVE  
SOUTH WINDSOR, CT 06074  
860-291-8755 - F  
860-291-8757 - C  
www.designprofessionals.com

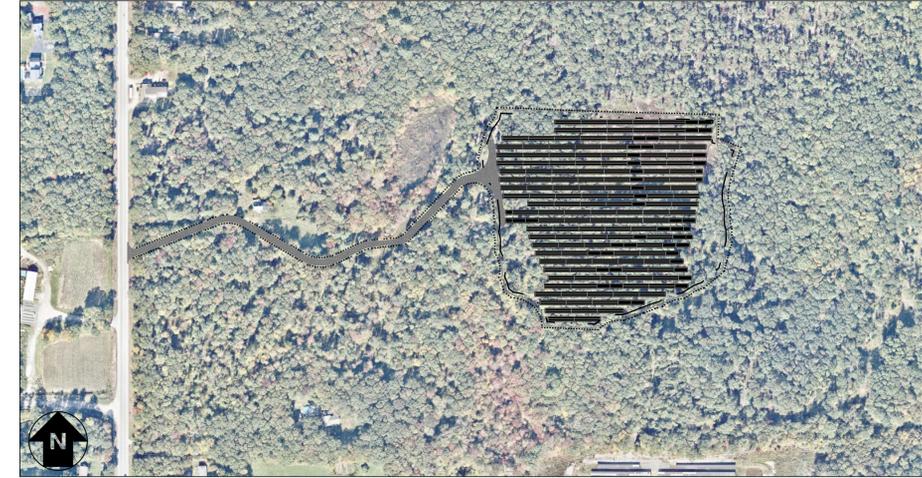
RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

# SOLAR GROUND MOUNT SYSTEM AT COVENTRY — MOO COW

2473 VICTORY HIGHWAY, COVENTRY, RI 02816  
41.661673, -71.688727



**LOCATION MAP**  
SCALE: 1" = 1500'-0"



**SYSTEM PLAN**  
SCALE: 1" = 300'-0"

**TOTAL SYSTEM SUMMARY:**

TOTAL DC SYSTEM SIZE: 4,366.440 kWDC  
 TOTAL AC SYSTEM SIZE: 3,500.000 kWAC

MODULE MANUFACTURER: HANHWA  
 (QTY) MODULE TYPE 1: (2,112) Q.PEAK DUO XL-G11 585W  
 (QTY) MODULE TYPE 2: (5,352) Q.PEAK DUO XL-G11S 585W

MODULE TILT: 30°  
 MODULE AZIMUTH: 180°

INVERTER MANUFACTURER: CPS  
 (QTY) INVERTER TYPE: (28) SCH125KTL-US 125KW

**SCOPE OF WORK SUMMARY**

- GROUND MOUNT PV ARRAY:**
- INSTALL SOLAR MODULES AND RACKING SYSTEM ON GROUND LEVEL.
  - INSTALL INVERTERS AND ELECTRICAL DISTRIBUTION EQUIPMENT.
  - INTERCONNECT AT NEW UTILITY SERVICE

DEVELOPER:

100 PARK AVENUE 24TH FLOOR  
NEW YORK, NY 10016

ENGINEERED BY:

111 RIVER STREET, SUITE 1110  
HOBOKEN, NEW JERSEY 07030

**DRAWING INDEX**

GENERAL	CONCEPTUAL DESIGN	CONCEPTUAL DESIGN (REV 1)	PERMIT SET 90%	10/20/2023	12/01/2023	01/31/2024
G001 TITLE SHEET	●	●	●			
<b>ELECTRICAL</b>						
E001 ELECTRICAL NOTES & SYMBOLS LIST				●		
E100 OVERALL ELECTRICAL PLAN	●	●	●			
E110 ELECTRICAL PLAN - EQUIPMENT AREA				●		
E200 DC ELECTRICAL PLAN				●		
E201 STRING WIRING DETAILS				●		
E300 ONE LINE DIAGRAM - SYSTEM A	●	●	●			
E301 ONE LINE DIAGRAM - SYSTEM B	●	●	●			
E310 SCHEDULES & CALCULATIONS				●		
E311 SCHEDULES & CALCULATIONS				●		
E410 GROUNDING DETAILS				●		
E411 FENCE GROUNDING DETAILS				●		
E420 ELECTRICAL DETAILS				●		
E500 LABELS & SIGNAGE				●		
E600 EQUIPMENT DATA SHEETS				●		
<b>STRUCTURAL</b>						
S100 STRUCTURAL PAD DETAILS						
S200 STRUCTURAL RACK DETAILS						

**LEGEND:**

UPDATED DRAWING ISSUED	●
UNCHANGED, PREVIOUSLY ISSUED DRAWING STILL CURRENT	○
DRAWING REMOVED FROM SET	x

111 RIVER STREET, HOBOKEN, NJ  
 WWW.PUREPOWER.COM  
 RICHARD A. IVINS  
 RI LICENSE No. 10105

REGISTERED PROFESSIONAL ENGINEER  
 ELECTRICAL

DEVELOPER  
 PROJECT # 04759.02

DC SYSTEM SIZE: 4,366.44 kW  
 AC SYSTEM SIZE: 3,500.00 kW  
 MODULE TYPE: HANHWA Q.PEAK 585W  
 MODULE QUANTITY: 7464  
 ORIENTATION: 30° TILT, 180° AZIMUTH

PAGE SIZE: 36" x 24"  
 PROJECT # 04759.02

PROJECT  
 SOLAR GROUND MOUNT SYSTEM  
 MOO COW  
 2473 VICTORY HIGHWAY,  
 COVENTRY, RI 02816

DRAWING #  
 G001

REVISION DESCRIPTION  
 PERMIT SET 90%  
 CONCEPTUAL DESIGN (REV 1)  
 CONCEPTUAL DESIGN  
 LAYOUT REVISION

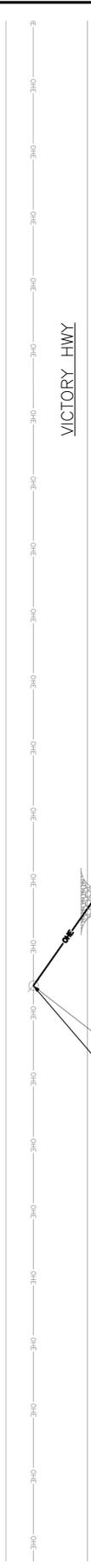
DATE  
 01/31/2024  
 12/01/2023  
 10/20/2023  
 01/11/2023

RICHARD A. IVINS  
 ENGINEER  
 No. 10105

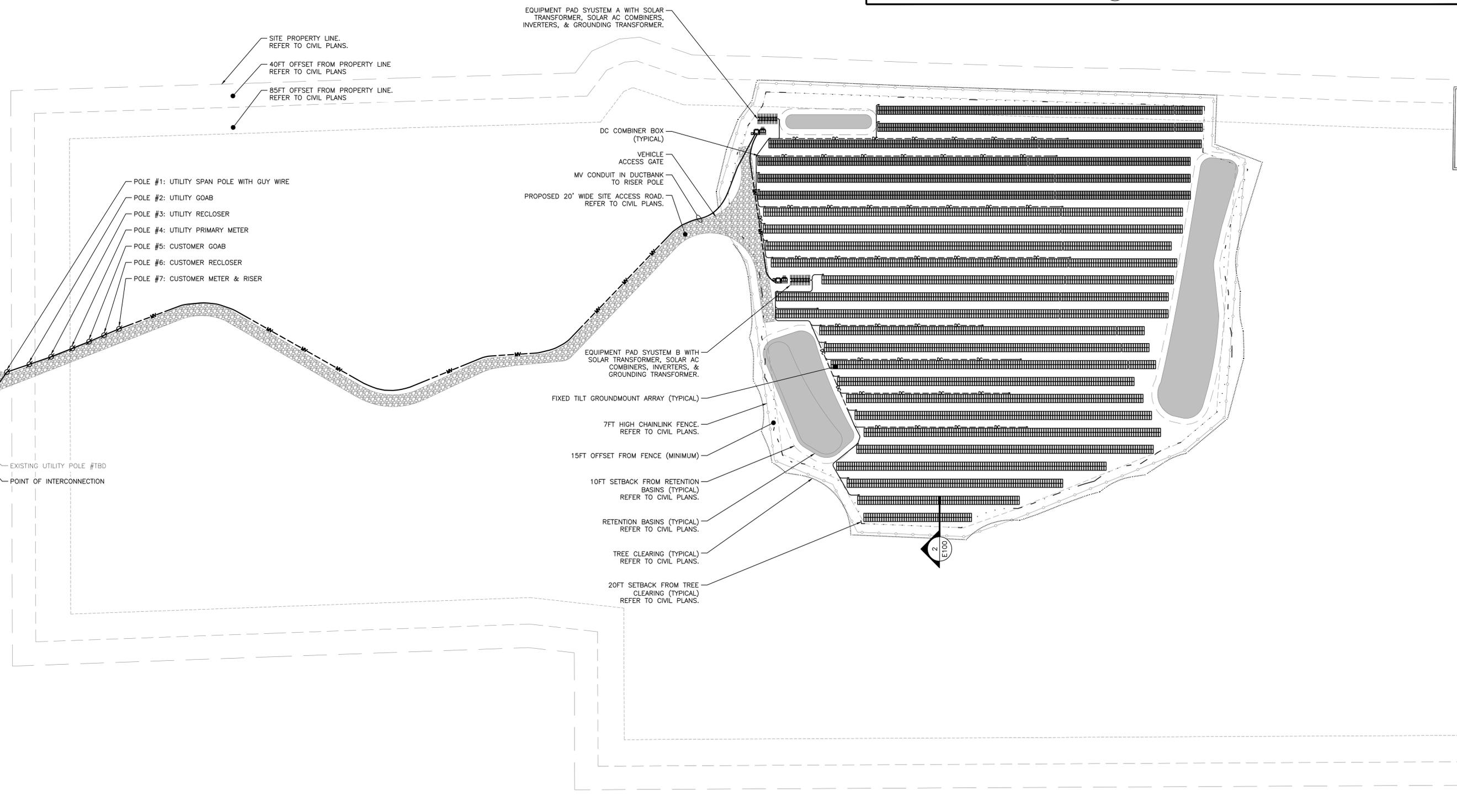
PM | ENG | CHK  
 SK | MAB | RI  
 SK | MAB | RI

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 1/31/2024 5:18 PM



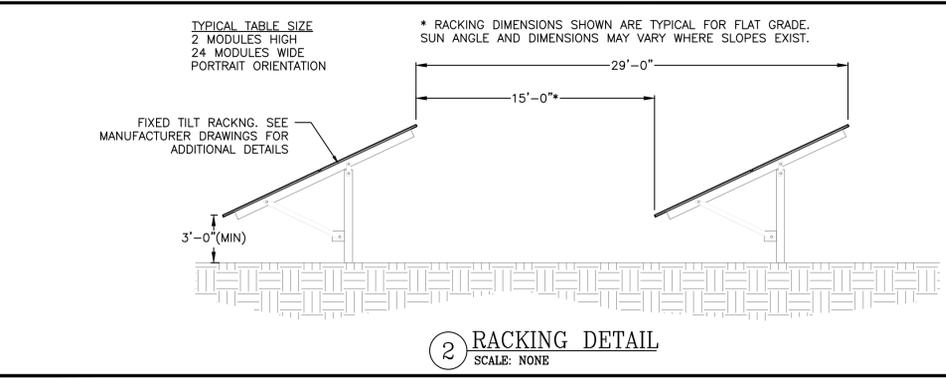
VICTORY HWY



**MODULE LEGEND**

	HANWHA Q.PEAK DUO XL-G11.3 585W
	HANWHA Q.PEAK DUO XL-G11S.3 585W

**1 ELECTRICAL PLAN**  
SCALE: 1" = 80'



EQUIPMENT PAD SYSTEM A WITH SOLAR TRANSFORMER, SOLAR AC COMBINERS, INVERTERS, & GROUNDING TRANSFORMER.

SITE PROPERTY LINE. REFER TO CIVIL PLANS.

40FT OFFSET FROM PROPERTY LINE. REFER TO CIVIL PLANS.

85FT OFFSET FROM PROPERTY LINE. REFER TO CIVIL PLANS.

POLE #1: UTILITY SPAN POLE WITH GUY WIRE

POLE #2: UTILITY GOAB

POLE #3: UTILITY RECLOSER

POLE #4: UTILITY PRIMARY METER

POLE #5: CUSTOMER GOAB

POLE #6: CUSTOMER RECLOSER

POLE #7: CUSTOMER METER & RISER

DC COMBINER BOX (TYPICAL)

VEHICLE ACCESS GATE

MV CONDUIT IN DUCTBANK TO RISER POLE

PROPOSED 20' WIDE SITE ACCESS ROAD. REFER TO CIVIL PLANS.

EQUIPMENT PAD SYSTEM B WITH SOLAR TRANSFORMER, SOLAR AC COMBINERS, INVERTERS, & GROUNDING TRANSFORMER.

FIXED TILT GROUND MOUNT ARRAY (TYPICAL)

7FT HIGH CHAINLINK FENCE. REFER TO CIVIL PLANS.

15FT OFFSET FROM FENCE (MINIMUM)

10FT SETBACK FROM RETENTION BASINS (TYPICAL). REFER TO CIVIL PLANS.

RETENTION BASINS (TYPICAL). REFER TO CIVIL PLANS.

TREE CLEARING (TYPICAL). REFER TO CIVIL PLANS.

20FT SETBACK FROM TREE CLEARING (TYPICAL). REFER TO CIVIL PLANS.

EXISTING UTILITY POLE #TBD

POINT OF INTERCONNECTION

 PUREPOWER ENGINEERING & DESIGN 111 RIVER STREET, FREDERICK, IN WWW.PUREPOWER.COM RICHARD A. IVINS RI LICENSE No. 10105	RICHARD A. IVINS ENGINEER No. 10105  RICHARD A. IVINS RI LICENSE No. 10105	DEVELOPER  EDP RENEWABLES 100 PARK AVENUE, 24TH FLOOR NEW YORK, NY 10017 WWW.EDP.COM	PAGE SIZE 3.6" x 24"	PROJECT # 04759.02	DC SYSTEM SIZE: 4,366.44 kW AC SYSTEM SIZE: 3,500.00 kW MODULE TYPE: HANWHA Q.PEAK 585W MODULE QUANTITY: 7464 ORIENTATION: 30° TILT, 180° AZIMUTH
PROJECT: SOLAR GROUND MOUNT SYSTEM MOO COW 2473 VICTORY HIGHWAY, COVENTRY, RI 02816			DRAWING # E100	DRAWING TITLE ELECTRICAL PLAN	



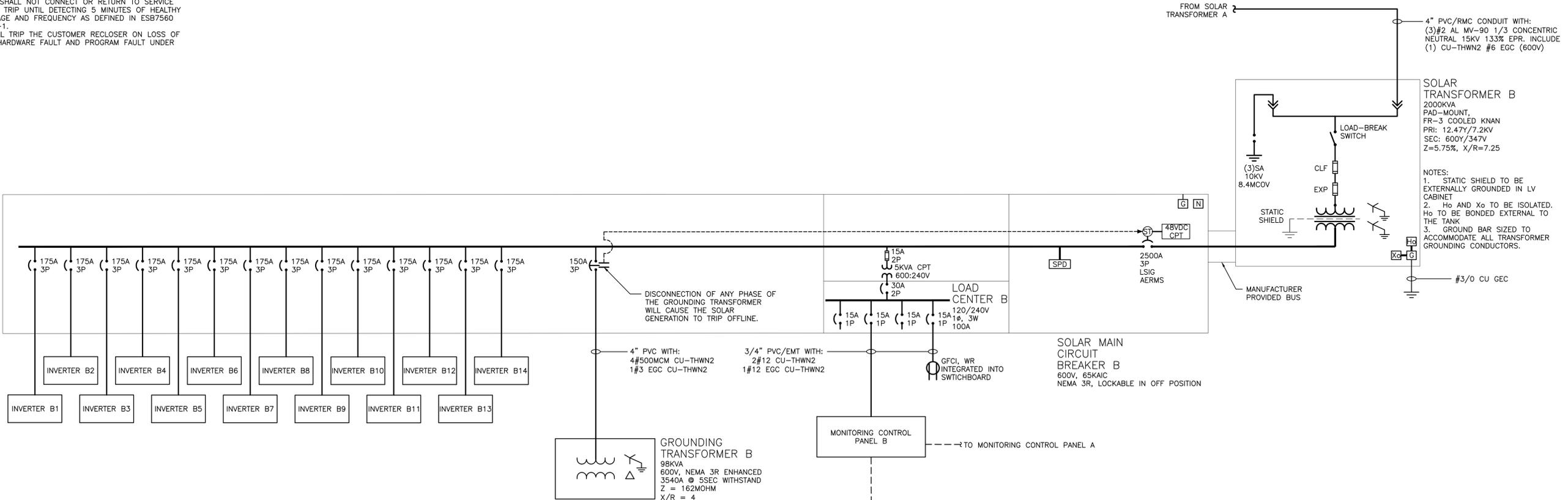
RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

SEL-651R							
ANSI ELEMENT #	Pickup	Real	Level	Delay (sec)*	Total Clear Time (sec)	Curve	Description
27	1.26V	6335.6V	88.0%	1.95	2.00		Slow UV
27	0.71V	3599.7V	50.0%	1.05	1.10		Fast UV
59	1.58V	7919.5V	110.0%	1.95	2.00		Slow OV
59	1.72V	8639.4V	120.0%	0.11	0.16		Fast OV
81U-1	56.50	56.5Hz	94.3%	0.11	0.16		Fast UF
81U-2	58.50	58.5Hz	97.5%	299.95	300.00		Slow UF
81O-1	62.00	62Hz	103.4%	0.11	0.16		Fast OF
81O-2	61.20	61.2Hz	102.0%	299.95	300.00		Slow OF
51	2.87A	324.4A	200.0%			U1,TD=2	Time Phase OC
51G	0.42A	42A	25.9%			U1,TD=1.1	Timed Ground Overcurrent
79	1.36V	6839.5V	95.0%	300.00	300.05		Minimum Voltage Value
79	1.51V	7559.5V	105.0%	300.00	300.05		Maximum Voltage Value
79	59.50	59.5Hz	99.2%	300.00	300.05		Minimum Frequency Value
79	60.50	60.5Hz	100.8%	300.00	300.05		Maximum Frequency Value
74				1.90			Relay Alarm
162.23A USED FOR 50/51 ELEMENTS				7199.5V USED FOR 27/59 ELEMENTS			
CT RATIO FACTOR = 100				LEA RATIO FACTOR = 5000			

INVERTER UL1741-SA Compliant							
ANSI ELEMENT #	Pickup	Real	Level		Total Clear Time (sec)	Curve	Description
27	305.36	305.36V	88.0%		2.00		Slow UV
27	173.50	173.5V	50.0%		1.10		Fast UV
59	381.70	381.7V	110.0%		2.00		Slow OV
59	416.40	416.4V	120.0%		0.16		Fast OV
81U-1	56.50	56.5Hz	94.3%		0.16		Fast UF
81U-2	58.50	58.5Hz	97.5%		300.00		Slow UF
81O-1	62.00	62Hz	103.4%		0.16		Fast OF
81O-2	61.20	61.2Hz	102.0%		300.00		Slow OF
79	329.65V	329.6V	95.0%	300.00	300.05		Minimum Voltage Value
79	364.35V	364.3V	105.0%	300.00	300.05		Maximum Voltage Value
79	59.50	59.5Hz	99.2%	300.00	300.05		Minimum Frequency Value
79	60.50	60.5Hz	100.8%	300.00	300.05		Maximum Frequency Value
PF Set Point		1.00					Power Factor Control
Var Control		OFF					Reactive Power Control
Ramp Rate		2%/1 sec					dI/dt
Freq Control		OFF					Speed Control
Factory Settings (Voltage is measured between phase & neutral)							

- NOTE:
- DER MUST CHECK FOR HEALTHY VOLTAGE AND FREQUENCY FOR 5 MINUTES BEFORE INTERCONNECTING PER IEEE 1547.
  - THE DER SHALL NOT CONNECT OR RETURN TO SERVICE FOLLOWING A TRIP UNTIL DETECTING 5 MINUTES OF HEALTHY UTILITY VOLTAGE AND FREQUENCY AS DEFINED IN ESB7560 TABLE 7.8.3-1.
  - RELAY WILL TRIP THE CUSTOMER RECLOSE ON LOSS OF DC POWER, HARDWARE FAULT AND PROGRAM FAULT UNDER 2 SECONDS.

SOLAR AC SWITCHBOARD B  
600Y/347V, 3Ø, 4W  
2500A, 65KAIC  
NEMA 3R



SYSTEM SUMMARY - SYSTEM B	
DC SYSTEM SIZE	2,204.280 KW
AC SYSTEM SIZE	1,750.000 KW
(QTY) MODULE TYPE	(3768) Q.PEAK DUO XL-G11S.3 585W
INVERTER	CPS SCH125KTL-US
INVERTER QTY	14
UTILITY	NATIONAL GRID - RI

1 ONE LINE DIAGRAM - SYSTEM B  
SCALE: NONE

- DRAWING NOTES:
- CONTRACTOR SHALL FIELD-VERIFY INTERCONNECTION MEANS/METHODS PRIOR TO INSTALLATION. COORDINATED SHUTDOWN MAY BE REQUIRED.
  - ALL GROUND BARS AND LUGS SHALL BE DUAL RATED AL/CU.
  - UNLESS OTHERWISE NOTED EQUIPMENT IS PERMITTED TO BE 80% OR 100% RATED.
  - PVC SCH80 REQUIRED WHERE PVC IS SPECIFIED. PVC SCH40 IS PERMITTED FOR UNDERGROUND STRAIGHT RUNS ONLY.
  - SET NEW ELECTRONIC-TRIP BREAKERS TO THE SETTINGS BELOW, UNLESS OTHERWISE NOTED IN POWER STUDY. "NOMINAL TRIP" REFERS TO BREAKER TRIP RATING INDICATED ON ONLINE. SETTINGS BELOW ARE NOT FOR COORDINATION PURPOSES.
    - L = 100% OF NOMINAL TRIP (EXACT) MINIMUM TIME DELAY
    - S = 125% OF NOMINAL TRIP (OR NEXT HIGHER) MINIMUM TIME DELAY
    - I = MINIMUM VALUE GREATER THAN NOMINAL TRIP
    - G = 20% OF NOMINAL TRIP (OR NEXT HIGHER) 0.5 SEC TIME DELAY

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 RICHARD A. IVINS  
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 REGISTERED PROFESSIONAL ELECTRICAL ENGINEER

EDP RENEWABLES  
 100 PARK AVENUE, 24TH FLOOR  
 NEW YORK, NY 10017  
 WWW.EDP.COM

DEVELOPER  
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