

## Section 1. DEVELOPMENT DESCRIPTION

### 1.1. INTRODUCTION

Downeast Wind, LLC (the Applicant), a wholly owned subsidiary of Apex Clean Energy Holdings, LLC, is proposing to construct and operate Downeast Wind (the Project), an approximately 126-megawatt (MW) grid-scale wind energy facility located in the town of Columbia, and the unorganized territories, T18 MD BPP and T24 MD BPP, in Washington County. The Project is located in an area identified as appropriate for grid-scale wind energy development (i.e., an expedited permitting area) as defined under 35-A M.R.S. § 3451<sup>1</sup> and is sited to maximize energy production while minimizing impacts to ecological resources. The proposed Project will require authorization from the Maine Department of Environmental Protection (MDEP) under the Site Location of Development Act (Site Law) and the Natural Resources Protection Act (NRPA), and a certification from the Land Use Planning Commission (LUPC).

#### The Facility Site

The Vestas V150 4.2 turbine was selected to optimize long-term Project performance while minimizing environmental impacts. This turbine model will be on a 125-meter (410 ft) tower with a rotor diameter of 150 meters (492 feet); for a total height, with the blades fully extended, of 200 meters (656 feet).

The facility consists of 30 wind turbines generating 126 MW of electricity. Seven (7) turbines are located in the town of Columbia along the northern edges of the blueberry barrens and to the north of Baseline Road. Six (6) turbines are sited in the Thousand Hills area of T18 MD BPP. Seven (7) positions, including one spare, are arrayed in the northern portion of T18 MD BPP around Crebo Flat and Hawk Hill Rd. Thirteen (13) positions, including two spare locations, are sited in T24 MD BPP. Project facilities will also include the following structures and equipment:

- *Access roads:* The Project includes a network of existing roads, many of which will be upgraded and improved, as well as new roads and temporary crane paths to access and construct Project facilities. There are 14.8 miles of access roads and driveways ranging from 16 to 24 feet in width. Of this, about 2.5 miles will be new construction. There are also 15.4 miles of crane paths, about 40 feet wide, of which about 12.7 miles will be new construction. After installation roads will be restored for use as permanent access roads, which will be gravel surfaced and typically 16 to 24 feet wide. Crane paths will be restored to pre-construction conditions. The Project will also initiate upgrades and improvements to stream crossings to both new and existing networks of roads.
- *Meteorological (MET) towers:* One permanent MET tower will be located in the town of Columbia, in proximity to Turbine 30 and two temporary power performance testing towers will be sited in proximity to Turbine 15 in T18 MD BPP and Turbine 7 in T24 MD BPP, respectively, to collect meteorological data and support performance testing of the facility.
- *Collection lines:* The Project includes approximately 24 miles of collections corridor containing about 45 miles of cable to deliver power from the wind turbines to the collection substation. The collection lines will be buried to a depth of 36-48 inches with a corridor of 50 feet cleared of large vegetation for the first circuit, and 15 feet for each additional circuit where they run side-by-side.

<sup>1</sup> Available Online: <http://legislature.maine.gov/statutes/35-A/title35-Ach34-Asec0.html>

- *Substation and Switchyard:* The substation will transform power voltage from 34.5kV to 115kV, and the point of interconnection (POI) switchyard will interconnect with Versant's existing Downeast Loop 115kV transmission line in the town of Columbia at Epping to Deblois line 52.
- *Temporary laydown yard:* A temporary construction laydown yard of approximately 15 acres will be established in T18 MD BPP to accommodate construction trailers, storage containers, Project components, and parking for construction personnel. Additional temporary laydown and staging areas for storage of cleared timber, soil, stumps, and other material awaiting removal and storage and staging of construction equipment have been designated within the site design.
- *Operation and maintenance (O&M) building:* The proposed O&M building will be located on a 4.8-acre site on US Hwy 1 in the town of Columbia. It will consist of one building of approximately 4,400 square feet. The facility will house permanent staff offices and store maintenance equipment and supplies.

In accordance with the Maine legislative mandate under the Maine Wind Energy Act to meet certain renewable wind energy goals (35-A M.R.S., §3404<sup>2</sup>), the proposed Project will contribute to Maine's achievement of these goals and bring clean, renewable wind power to the New England energy market.

Downeast Wind, LLC was established in 2013 to explore the feasibility of a wind farm in Washington County, Maine. The proposed Project location was deemed highly suitable for utility-scale wind energy development due to consistently high winds, limited visibility from private residences and public rights-of-way, minimal necessity for clearing and other environmental resource impacts, and proximity to existing transmission infrastructure. The Project was also deemed compatible with existing land use practices and agricultural operations on the blueberry barrens. The Project area also benefits from a robust network of existing farm roads which can be selectively upgraded for construction and operations purposes.

In 2015, Downeast Wind began working with MDEP and other state and federal agencies to identify optimal siting for facilities, while initiating extensive studies of the natural and cultural resources and potential impacts upon avian, land, and aquatic species and their habitats, as well as existing land use and management practices across the approximately 16,600-acre Project area. Through continuous engagement with local stakeholders, subject matter experts, and agency officials, the Project has been designed to minimize impacts to wetlands, streams, significant vernal pools, and other waterbodies.

While no turbines have been sited in wetland areas, aspects of the construction process will result in modest wetland impacts. New and upgraded roads will also result in reconfigured stream crossings. These impacts and the efforts taken to minimize and mitigate them will be explained in detail in the forthcoming sections.

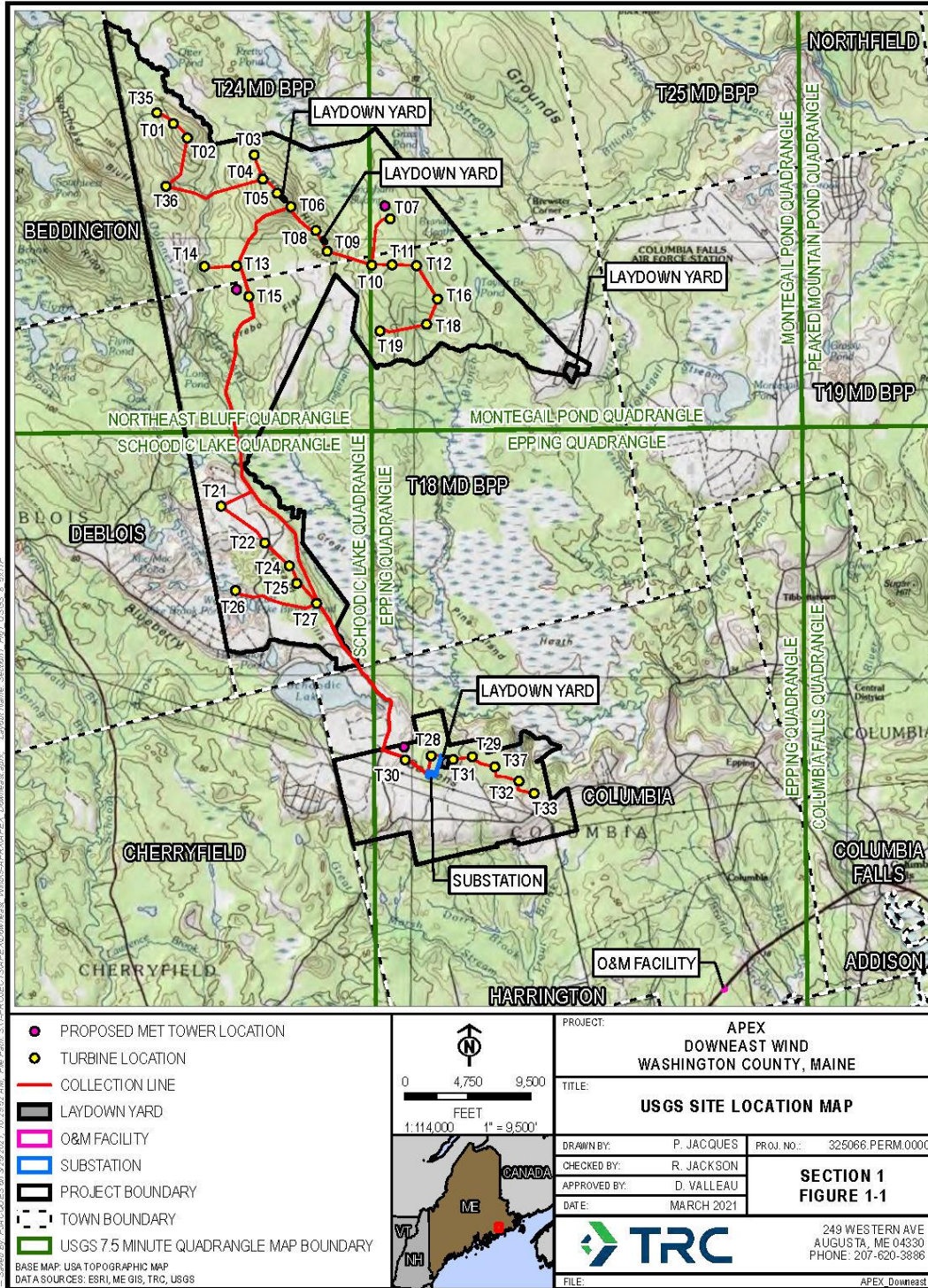
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<sup>2</sup> Available Online: <http://legislature.maine.gov/statutes/35-A/title35-Asec3404.html>



## 1.2. TOPOGRAPHIC MAP

Figure 1.1. USGS Site Location Map



### 1.3. CONSTRUCTION PLAN

The Project will be constructed in compliance with applicable local, state, and federal regulations, guidelines and standards, and specific requirements of any necessary permits. The Applicant anticipates the construction phase to begin in the spring of 2022 and last 18 to 20 months, including final site restoration, concluding in the fall of 2023. Construction sequencing and timing is described below in Table 1-1. Adjustments to the timeline may be necessary to accommodate for weather conditions and seasonal considerations, including wild blueberry operations and harvest. Site development will generally consist of the following activities:

#### Pre-Construction Meeting

Prior to any work on the Project a meeting will be held with the representatives of the Applicant, the site Contractor, the Engineer, the MDEP, and other parties involved in the construction or oversight of the Project.

#### Flagging/Marking

Sensitive resources, buffers, access points, limits of disturbance, and other significant features will be flagged and marked prior to any Project activities including clearing. These flagged locations will be maintained throughout construction of the Project to maintain compliance with permit conditions.

#### Tree Clearing

Forested portions of the site will be cut and removed to be used for commercial purposes. The contractor will take precautions to minimize disturbance on existing new vegetation and to restore topsoil in place when removing stumps. Stumps will be ground on site to help make erosion control mix for use as sedimentation control berms and ground-cover mulch.

#### Erosion and Sedimentation Control and Stabilization

Prior to any earth-moving activities, erosion and sediment control measures will be installed in accordance with state and local requirements. Monitoring, inspection, and maintenance of erosion and sedimentation controls will be a daily requirement for all site personnel. The primary methodology for avoiding sedimentation concerns will be to limit the site disturbance and the areas of exposed soil and maintain effective erosion controls.

#### Grading

This work will begin in the spring of 2022. Grading will be required to prepare designated laydown areas, the off-site O&M and substation/switchyard locations, access roads and crane paths, and individual turbine pads. Topsoil will be stripped and kept separate from lower earth layers. During restoration, topsoil will be spread evenly over the disturbed areas. Excess will be spread in adjacent fields.

#### Access Roads

The main gravel access roads originate from Rte. 193 on the west, from US Highway 1 to the south, and access to the laydown yard is from Tibbettstown and Bombing Range Roads from the east, all of which were created prior to the Project. Primary access roads were created by the blueberry farm that owns the property; however, they will be maintained and upgraded, as needed by the Project. Road improvements and maintenance will include permanent stormwater controls

and ditching, as necessary. Secondary access roads for access to turbine pads will be constructed and maintained as needed.

## Foundations

Concrete foundations will be installed for each turbine unit. Excavations will require a depth of approximately 11 feet and a diameter of 90 feet. Foundation size is 8 feet in depth, with a diameter of 60-70 feet with banked sides. A concrete pedestal with a diameter of approximately 18 feet will extend from the top of the foundation to approximately 1 foot above grade (Dimensions may vary depending on final engineered design). Foundation construction will include excavation, re-bar installation, pouring of concrete, curing, backfilling, and compaction.

## Component Delivery

Turbine component deliveries will begin in the summer of 2022. Each turbine will consist of 3-4 tower sections, hub, nacelle, 3 blades and ancillary equipment. The turbine supplier will confirm precise routing of components to the Project area, based on most accessible and appropriate shipping parameters. Components will enter the Project area from US Highway 1 via Epping, Pea Ridge and Schoodic Roads in the town of Columbia and be delivered to prepared turbine pads and laydown areas.

## Turbine Erection/Commissioning

Turbine installation will commence upon delivery and staging of components by use of cranes. This work will proceed through the summer and fall of 2023, subject to favorable wind and weather conditions.

## Collection Installation

Installation of collections cables will be simultaneous to road improvements and foundation work, and most of the collections system is co-located with existing roads. Some additional clearing will be required in areas where the collections corridor deviates from roadways and this work will begin in the spring of 2022. Directional drilling or boring will be used to minimize impacts to streams, wetlands, and rare plant habitats, and seasonal considerations and refined trenching procedures adapted to preserve commercially active blueberry fields will be deployed in consultation with the landowner where necessary.

## Transmission Line

The Project substation will be sited alongside the existing Epping to DeBlois section of the Versant “Downeast Loop” and the Project will not require any additional transmission lines to be installed.

## Substation & Switchyard

Clearing, grading, and foundation work will begin in the spring of 2022, followed by construction of both facilities and fencing, with testing and energization planned for spring of 2023.

## O&M Building

The O&M facility for the Project is sited on US Highway 1 in Columbia. The lot was previously used by a restaurant and features existing well and septic infrastructure. The current building will be removed, and siting of the new building will require some additional clearing and grading prior to construction. Erection of the new building will be concurrent with construction operations at the Project site.





## Site Restoration

Debris/trash removal, decompaction, seeding, removal of E/S, access road top off will occur across the Project as construction is completed.

**Table 1-1. Estimated Construction Sequencing and Timing**

Task	Timeframe
Preliminary layout and staking of new road segments, turbine clearings, and laydown areas	Weeks 1-30
Clear for roads, collection system, turbines, and laydown areas	Weeks 4-36
Grubbing and initial grading for roads, turbines, and laydown areas	Weeks 4-16
Hauling and stockpiling of aggregate from local borrow pits	Weeks 4-70
Install/maintain erosion control measures in areas to be disturbed	Weeks 4-70
Construct substation	Weeks 6-68
Construct turbine foundations, substation transformer pad and conduct blasting as needed	Weeks 6-70
Underground trench/conduit work	Weeks 8-80
Clear and erect the permanent MET tower and temporary power performance tower	Weeks 10-20
Turbine Delivery	Weeks 60-70
Turbine Installation	Weeks 60-80
Final grading of roads and turbine areas	Weeks 66-74
Energization	Week 68
Remove temporary erosion and sedimentation control measures upon final site stabilization and reseeded (Civil Restoration)	Weeks 74-82
Test energy	Week 70
Begin commercial operations (COD)	Week 86

## 1.4. DRAWINGS

Exhibit 1-1 depicts civil and electrical design and siting of Project facilities.



**EXHIBIT 1-1: IFP CIVIL DRAWING SET**



PERMIT DESIGN SUBMITTAL

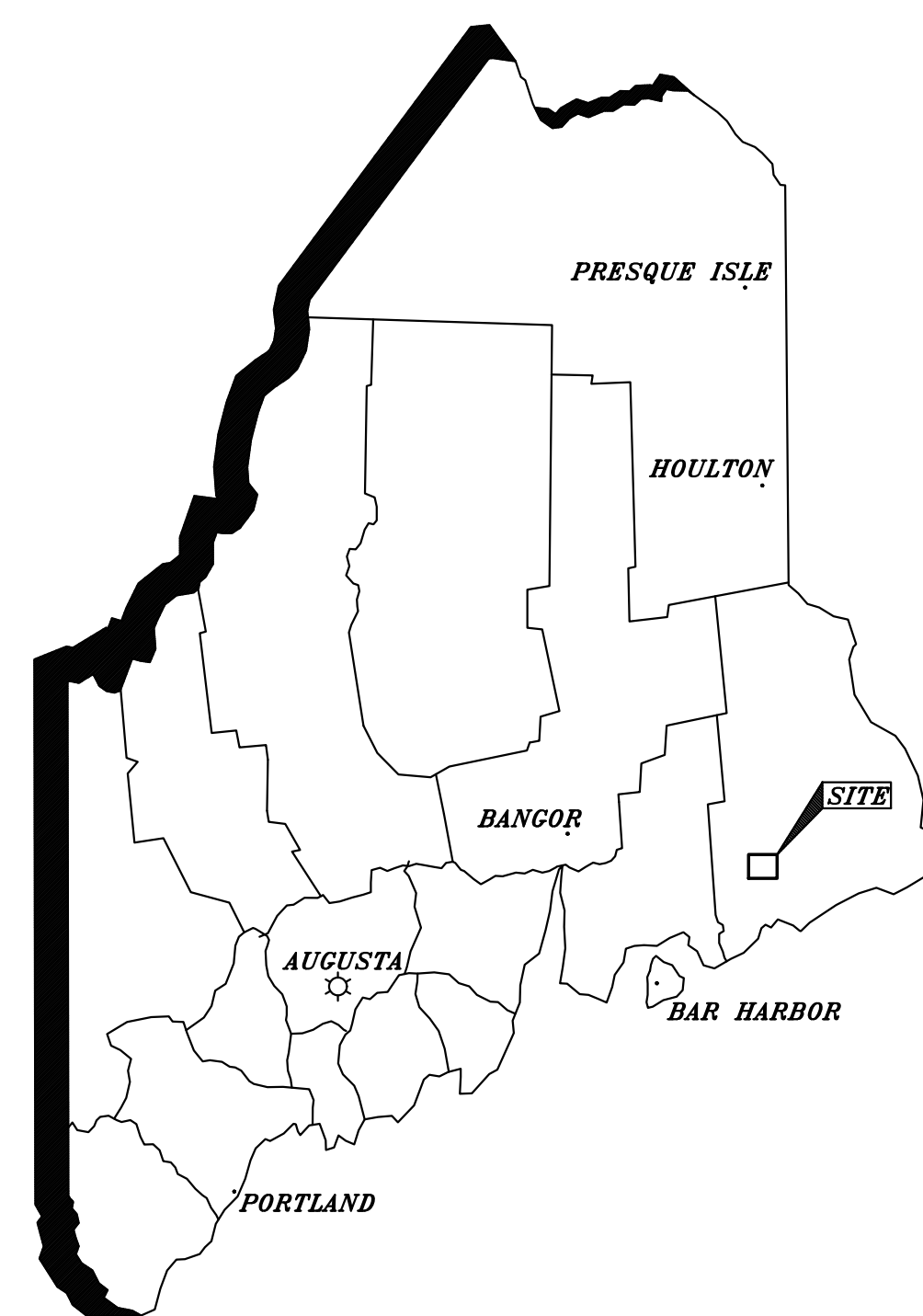
# DOWNEAST WIND FARM

COLUMBIA, T18 MD BPP, & T24MD BPP,  
WASHINGTON COUNTY, MAINE

PREPARED FOR APEX CLEAN ENERGY, INC.

113.20.01

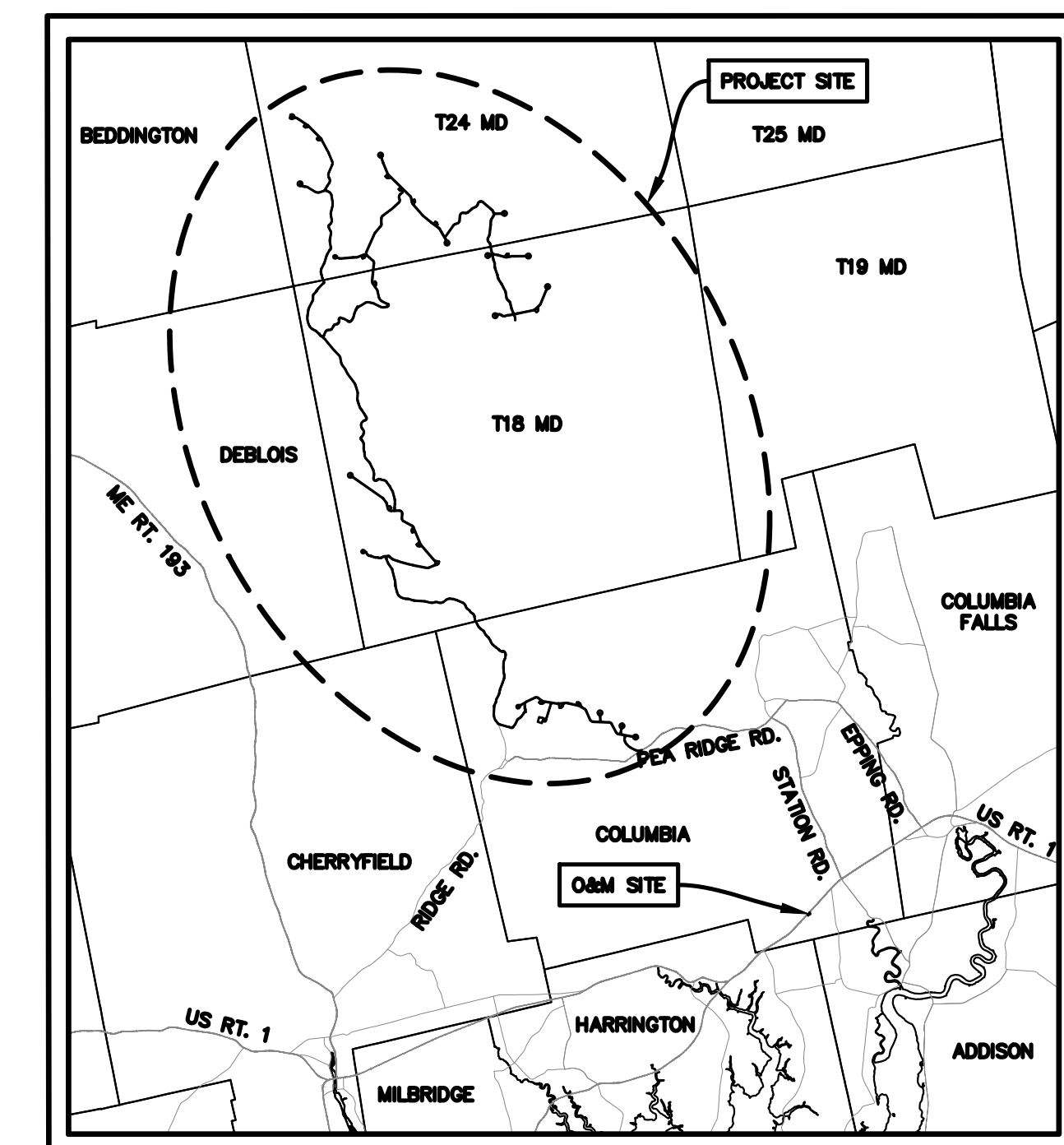
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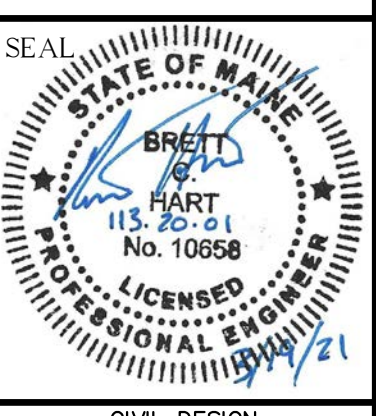
LOCUS MAP

SHEET INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1.0	INDEX
2.1-2.5	DETAILS
7.1	LAYDOWN AREA
8.1-8.2	MET TOWERS
9.1	SUBSTATION
9.2	OPERATIONS & MAINTENANCE BUILDING
9.3	OPERATIONS & MAINTENANCE BUILDING PRE DEVELOPMENT
9.4	OPERATIONS & MAINTENANCE BUILDING POST DEVELOPMENT
9.5	OPERATIONS & MAINTENANCE BUILDING WATER QUALITY
10.1-27.2	PLAN AND PROFILE SHEETS
28.1-28.8	ELECTRICAL PLAN SHEETS



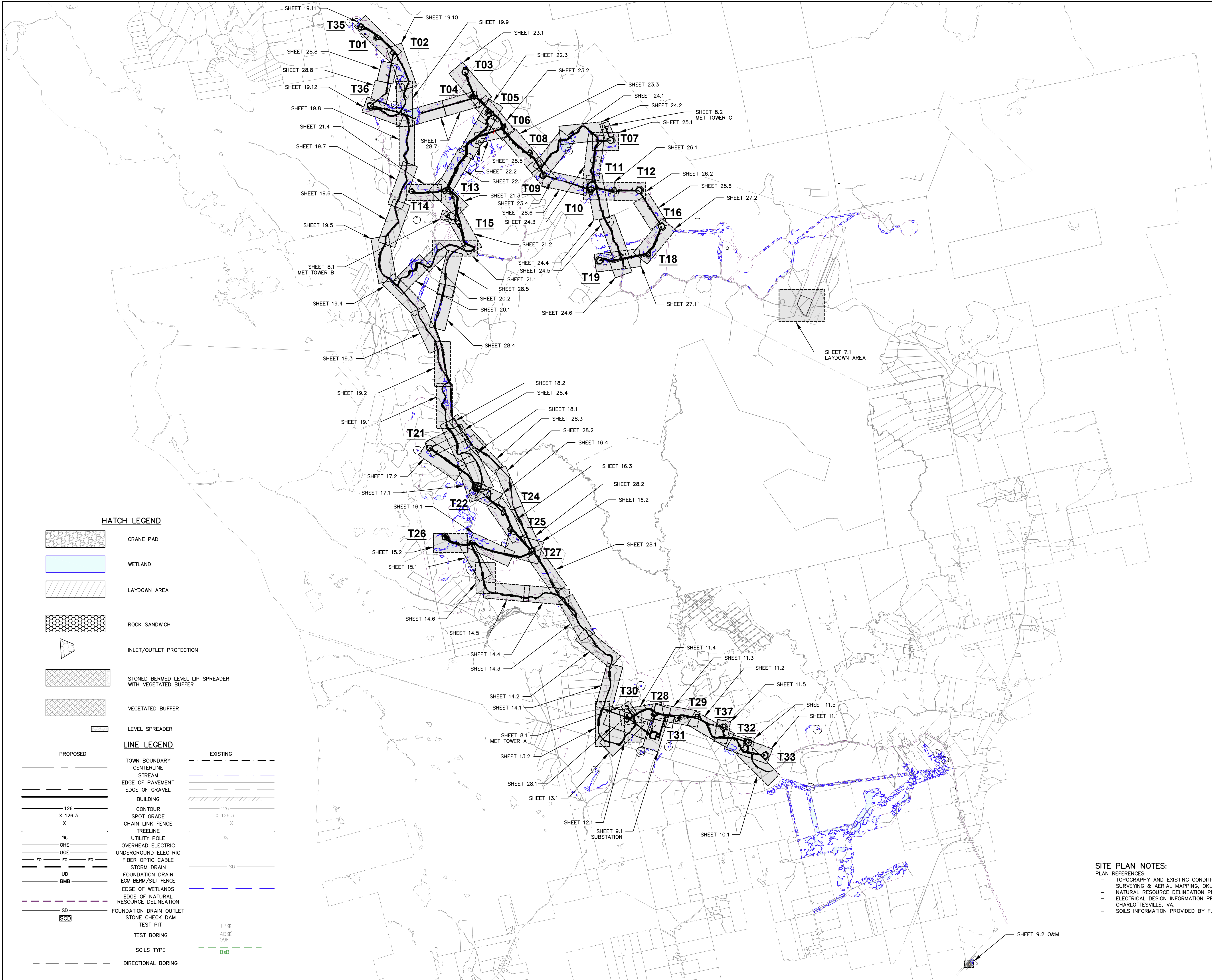
VICINITY MAP



NOT FOR CONSTRUCTION

CIVIL DESIGN





**HATCH LEGEND**

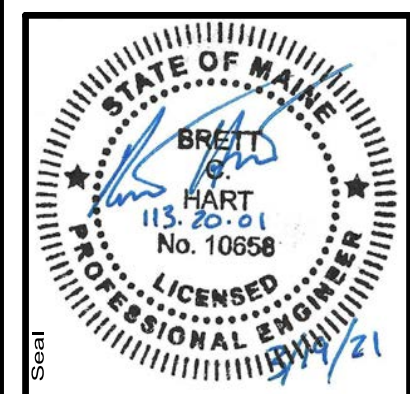
- CRANE PAD
- WETLAND
- LAYDOWN AREA
- ROCK SANDWICH
- INLET/OUTLET PROTECTION
- STONED BERMED LEVEL LIP SPREADER WITH VEGETATED BUFFER
- VEGETATED BUFFER
- LEVEL SPREADER

**LINE LEGEND**

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Drawn By	MIFB
Checked By	JSM
Approved By	BCH
Designated By	BCH
Date	03/19/2021
Scale	

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 Project Location  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 310 4th ST N.E., SUITE 200  
 CHARLOTTESVILLE, VA  
 Drawing Description  
**INDEX**



113.20.01  
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**SITE PLAN NOTES:**  
 PLAN REFERENCES:  
 - TOPOGRAPHY AND EXISTING CONDITION PLANIMETRICS PROVIDED BY BEARING TREE LAND SURVEYING & AERIAL MAPPING, OKLAHOMA CITY, OK.  
 - NATURAL RESOURCE DELINEATION PROVIDED BY TRC, AUGUSTA, ME.  
 - ELECTRICAL DESIGN INFORMATION PROVIDED BY APEX CLEAN ENERGY, INC., CHARLOTTESVILLE, VA.  
 - SOILS INFORMATION PROVIDED BY FLYCATHER, LLC., YARMOUTH, ME.

NOT FOR CONSTRUCTION



GENERAL NOTES & CONSTRUCTION SPECIFICATIONS

- 1. EVERY WEEK AND AFTER PRECIPITATION PRODUCING THE EQUIVALENT OF ONE-HALF INCH OF RAINFALL, THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, REMOVAL OF SEDIMENT FROM SILT FENCES IF SOIL ACCUMULATES TO A DEPTH OF ONE-HALF THE FABRIC HEIGHT AND REMOVAL OF EXCESS ACCUMULATED SEDIMENT FROM DETENTION BASINS (IF APPLICABLE).

CONSTRUCTION SEQUENCE & PHASING NOTES

- 1. INSTALL EROSION CONTROL MEASURES PRIOR TO SOIL DISTURBANCE.
2. FLAG & MARK CLEARING LIMITS OF ACCESS ROADS, CRANE PATHS, & COLLECTION LINES, WITH THE OTHER CONSTRUCTION AREAS TO FOLLOW.
3. STUMPS TO BE REMOVED FROM LOCATIONS WHERE STRUCTURES (I.E., ROADS, TURBINES, SUBSTATION, O&M BUILDING, STORMWATER MANAGEMENT SYSTEMS, ETC.) ARE TO BE INSTALLED/CONSTRUCTED. STUMPS TO BE BURIED IN PLACE OR GROUND ON-SITE AND USED AS AN EROSION PREVENTION AND SEDIMENT CONTROL (EPSO) MEASURE BY THE CONTRACTOR.

CONSTRUCTION OF ACCESS ROADS, CRANE PATHS, & LAY DOWN/STAGING AREAS

- 1. MINOR GRADING CHANGES INCLUDING VERTICAL AND HORIZONTAL ADJUSTMENTS MAY BE NECESSARY, DEPENDING ON FIELD CONDITIONS. CONTRACTOR MAY MODIFY HORIZONTAL AND VERTICAL ADJUSTMENTS TO ROADWAY ALIGNMENT IN ORDER TO OPTIMIZE EARTHWORK BALANCING. THESE MODIFICATIONS SHALL NOT INCREASE THE TOTAL PROJECT FOOTPRINT OR INTENT OF STORMWATER DRAINAGE DESIGN. IN ADDITION, THESE MODIFICATIONS SHALL IN NO WAY HINDER DELIVERY OR CONVEYANCE OF MATERIALS TO THE PROJECT IN GENERAL. CONTRACTOR SHALL RECORD ALL MODIFICATIONS FOR INCLUSION IN PROJECT AS-BUILT DRAWINGS.
2. MINOR ADJUSTMENTS TO ROADWAY GRADES AND CURVE ELEVATIONS MAY BE MADE TO ENSURE PROPER COVER OVER CULVERTS AND TO PROVIDE PROPER DRAINAGE. CLEARING AND MINOR EARTHWORK OUTSIDE DEPICTED CLEARING/GRADING LIMITS MAY BE REQUIRED.
3. CONSTRUCTION OF ACCESS ROADS, CRANE PATHS, & LAY DOWN/STAGING AREAS WILL OCCUR IN A MANNER TO MINIMIZE AREAS OF EXPOSED SOIL AT ANY ONE TIME (INCLUSIVE OF ANY OTHER EXPOSED SOIL AREAS WITHIN THE DESIGNATED LIMITS OF DISTURBANCE).

CONSTRUCTION OF ELECTRICAL COLLECTOR

- 1. EARTHWORK (SUCH AS BENCHING) MAY BE REQUIRED FOR CONSTRUCTION OF COLLECTOR LINE FOR THE PURPOSE OF STABILIZING CONSTRUCTION EQUIPMENT AND GAINING ACCESS TO COLLECTOR STRUCTURES. APPROPRIATE EARTHWORK BMP'S WILL BE UTILIZED DURING THESE ACTIVITIES AND AREAS WILL BE ALLOWED TO REVEGETATE UPON COMPLETION OF CONSTRUCTION.
2. CLEARING BEYOND DEPICTED CLEARING LIMITS MAY BE REQUIRED FOR INSTALLATION OF GUY ANCHORS AND REMOVAL OF DANGER TREES.

CONSTRUCTION OF PERMANENT STORMWATER MANAGEMENT SYSTEMS

- 1. GRADING TO BE CONDUCTED IN ACCORDANCE WITH PERMITTED PERMANENT STORMWATER MANAGEMENT DESIGN.
2. ONCE FINAL GRADES ARE ACHIEVED, EXPOSED SOIL SURROUNDING THE STORMWATER MANAGEMENT STRUCTURES TO BE PERMANENTLY STABILIZED.
3. FINAL LOCATIONS OF STORMWATER STRUCTURES SHALL BE FIELD DETERMINED BASED UPON EXISTING TOPOGRAPHY BUT SHALL GENERALLY MEET THE INTENT OF THE STORMWATER DESIGN PLANS. CLEARING WILL BE PERMITTED BEYOND CLEARING LIMITS SHOWN ON THIS DESIGN TO ALLOW CONSTRUCTION OF STORMWATER MANAGEMENT SYSTEMS (SUCH AS LEVEL SPREADERS, DITCH TURNOUTS, ETC.). WHILE CONSTRUCTING STORMWATER MANAGEMENT SYSTEMS, CONTRACTOR SHALL MINIMIZE DISTURBANCE OUTSIDE FLAGGED CLEARING LIMITS TO SMALLEST EXTENT PRACTICABLE AND SHALL AVOID PROTECTED NATURAL RESOURCES.

CONSTRUCTION OF CRANE PADS

- 1. AFTER THE SUBGRADE IS ESTABLISHED, CRANE PAD TO BE CONSTRUCTED WITH APPROPRIATE AGGREGATE MATERIAL SPREAD & COMPACTED OVER A GEOTEXTILE LINER AS NECESSARY; MINOR GRADE ADJUSTMENTS MAY BE NEEDED DEPENDENT ON FIELD CONDITIONS.
2. CRANE PADS MAY BE ORIENTATED WITHIN TURBINE PADS AS DETERMINED BY FIELD CONDITIONS AND CONTRACTOR MEANS & METHODS.
3. CRANE PADS TO REMAIN IN PLACE FOR FUTURE MAINTENANCE & OPERATION.
4. EXPOSED SOIL SURROUNDING CRANE PADS & TURBINE FOUNDATIONS TO BE STABILIZED. (SEE DETAIL)

CLEAN-UP & FINAL STABILIZATION

- 1. UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL WORK AREAS TO BE CLEARED OF CONSTRUCTION DEBRIS & OTHER MATERIALS.
2. SPECIFIC CLEAN-UP REQUIREMENTS TO INVOLVE: REMOVAL OF ALL TEMPORARY WORK TRAILERS; REMOVAL OF MATERIAL & EQUIPMENT; DISPOSAL OF ALL RUBBISH RESULTING FROM CLEARING, CONSTRUCTION, & INSTALLATION; ROUGH GRADING & STABILIZATION OF EMBANKMENTS MADE FOR CONSTRUCTION PURPOSES; FILLING OF ANY EXCAVATIONS; & REPAIRING RUTS IN ACCESS ROADS.
3. FINAL STABILIZATION OF ALL AREAS OF DISTURBED SOIL, WHERE FINAL GRADE HAS BEEN ACHIEVED, WILL INVOLVE RESPRADING OF STOCKPILED TOPSOIL MATERIAL & SEEDING, MULCHING WITH WOODWASTE MULCH, OR APPLICATION OF OTHER APPROVED STABILIZATION METHODS. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE PROJECTS PERMITS AND PLANS.
4. LAYDOWN AREAS SHALL BE ALLOWED TO REVEGETATE WITHIN ONE YEAR. CONTRACTOR SHALL REGRADE AS NECESSARY TO AVOID CONCENTRATED FLOWS.

TURBINE FOUNDATIONS

- 1. ELEVATIONS OF TURBINE FOUNDATIONS ARE BASED ON AERIAL SURVEY. FINAL ELEVATIONS OF FOUNDATIONS MAY BE ADJUSTED IN FIELD TO ACCOMMODATE ACTUAL TERRAIN CONDITIONS AND REDUCE IMPACTS. ALL ADJUSTMENTS SHALL BE APPROVED BY OWNER PRIOR TO IMPLEMENTATION.
2. FOUNDATION DRAINS MAY BE REQUIRED AT FOUNDATIONS AS SPECIFIED BY FOUNDATION CONSTRUCTION PLANS.

WINTER CONSTRUCTION NOTES

- 1. THE WINTER CONSTRUCTION PERIOD SHALL BE FROM NOVEMBER 1 THROUGH APRIL 15.
2. WHERE FEASIBLE, A MINIMUM 25'-FT BUFFER SHALL BE MAINTAINED BETWEEN SILT FENCE OR OTHER PERIMETER CONTROLS AND ROADS TO ALLOW FOR SNOW CLEARING AND MAINTENANCE.
3. DRAINAGE STRUCTURES SHALL BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
4. ACCEPTABLE OVER-WINTER STABILIZATION SHALL CONSIST OF VEGETATION (MIN. 75% MATURE) MULCHING, EROSION CONTROL MIX, EROSION CONTROL MATS, RIPRAP OR GRAVEL ROAD BASE.
5. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT REQUIRE EARTH DISTURBANCE (E.G., CONSTRUCTION FENCE AND SILT FENCE) SHALL BE INSTALLED PRIOR TO THE GROUND FREEZING. DURING FROZEN CONDITIONS, SEDIMENT BARRIERS MAY CONSIST OF EROSION CONTROL MIX BERMS.
6. FROM NOVEMBER 1 TO APRIL 15, MULCH SHALL BE INSTALLED AT DOUBLE THE NORMAL RATE. NETTING OR OTHER MEANS APPROVED BY THE ENGINEER SHALL BE USED TO MINIMIZE WIND EROSION OF MULCHING.
7. PRIOR TO STABILIZATION, ICE AND SNOW SHALL BE REMOVED TO LESS THAN 1-INCH.
8. EXCAVATED FROZEN SOILS SHALL BE STOCKPILED IN LEVEL AREAS AND SHALL NOT BE USED UNTIL THAWED. SEE STOCKPILING NOTES.
9. EXCAVATION OF SOILS IN SHALLOW GROUNDWATER AREAS SHALL BE MINIMIZED IF AT ALL POSSIBLE DURING WINTER, AND LIMITED TO ONLY THOSE AREAS THAT CAN BE STABILIZED DURING THE SAME DAY.
10. TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
A. IF NO PRECIPITATION OR MELTING EVENT TO BE FORECAST WITHIN 24 HOURS AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
B. DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS BUILDING FOUNDATIONS AND OPEN UTILITY TRENCHES.
11. ENGINEER MAY MAKE NECESSARY ADJUSTMENTS TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN AND ASSOCIATED EROSION PREVENTION AND SEDIMENT CONTROL MEASURES (E.G., CONSTRUCTION FENCE AND SILT FENCE) TO ACCOMMODATE ANTICIPATED SNOW STORAGE AREAS.
12. AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCE, IF NOT STABILIZED WITH A MINIMUM OF 75% MATURE VEGETATION, SHALL BE MULCHED BY DECEMBER 1 AND ANCHORED WITH PLASTIC NETTING OR PROTECTED WITH EROSION CONTROL COVER. DURING WINTER CONSTRUCTION A DOUBLE ROW OF SEDIMENT BARRIERS SHALL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA. NATURAL RESOURCE CROSSINGS SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE.
13. STOCKPILES OF SOIL SHALL BE MULCHED FOR OVER-WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A 4-INCH LAYER OF EROSION CONTROL MIX.
14. MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF TRAINING AND RUNOFF, THE SITE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED. FOLLOWING THE TEMPORARY AND/OR FINAL SEEDING AND MULCHING, THE CONTRACTOR SHALL, IN THE SPRING, INSPECT AND REPAIR ANY DAMAGES OR BARE SPOTS.
15. WINTER CONSTRUCTION SHALL BE IN ACCORDANCE WITH REGULATORY PERMITS. PERMIT REQUIREMENTS SHALL SUPERCEDE ANY DISCREPANCY IN ABOVE LISTED NOTES.

NOTES:

- 1. ANY DISTURBED AREAS TO BE LEFT IN ROUGH GRADED FORM FOR MORE THAN 30 DAYS (7 DAYS FOR SENSITIVE AND CRITICAL AREAS) BUT LESS THAN ONE GROWING SEASON SHALL BE LIMED, FERTILIZED, TEMPORARILY SEEDED AND MULCHED OR OTHERWISE STABILIZED. EXPOSED OR BARE SOIL IN SENSITIVE AND CRITICAL AREAS ARE TO BE MULCHED AT THE COMPLETION OF WORK, EACH DAY, IF SIGNIFICANT RAINFALL IS PREDICTED. APPLICATION RATES AND MATERIALS USED SHALL BE THE SAME AS FOR PERMANENT SEEDING EXCEPT SEED MIXTURE SHALL BE ANNUAL RYEGRASS.
2. DURING PERIODS FROM APRIL 15 TO SEPTEMBER 15, AREAS DISTURBED SHALL BE PERMANENTLY SEEDDED WITH CONSERVATION SEED MIX (A MIXTURE OF CREEPING RED FESCUE, REDTOP, TALL FESCUE, CLOVER AND ANNUAL RYE), AT A RATE OF 1.0 LB/1,000 SF.
3. STRAW/HAY BALE BARRIERS, SILT FENCE, FILTER BARRIERS - MAKE ANY REQUIRED REPAIRS IMMEDIATELY. REPLACE W/ TEMPORARY CHECK DAM IF THERE IS UNDERCUTTING AT CENTER OR EDGES, OR IF LARGE VOLUMES OF WATER ARE IMPOUNDED. REPLACE DECOMPOSED OR INEFFECTIVE FABRIC IMMEDIATELY. REMOVE SEDIMENT DEPOSITS AFTER EACH STORM. DEPOSITS REMAINING IN PLACE AFTER SILT FENCE OR FILTER FABRIC IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM W/ EXISTING GRADE, PREPARED AND STABILIZED.
4. CULVERTS - CULVERTS SHOULD BE CHECKED MONTHLY FOR ACCUMULATION OF DEBRIS. IF NEEDED THEY SHOULD BE CLEANED.
5. A STORMWATER MAINTENANCE LOG SHOULD BE MAINTAINED TO DOCUMENT COMPLIANCE WITH THE SUGGESTED SCHEDULE.

DEWATERING

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY DEWATERING EXCAVATIONS DURING CONSTRUCTION.
2. CONTRACTOR SHALL DISPOSE OF PUMPED WATER IN APPROPRIATE MANNER TO AVOID CONCENTRATED FLOWS FROM SITE. THE USE OF SETTLEMENT BASINS OR SEDIMENT CONTROL DEVICES SUCH AS "DIRTBAGS" AND TURBINE SEDIMENT BASINS SHALL BE EMPLOYED TO SEPARATE SEDIMENTS FROM DEWATERING ACTIVITIES AS NECESSARY. PUMPED WATER WILL BE DIRECTED AWAY FROM RESOURCES TO NATURAL BUFFER AREAS OR OTHER ACCEPTABLE STABILIZED AREAS. METHODS OF DEWATERING AND THE SEDIMENT CONTROL DEVICES SHALL BE APPROVED BY THE ENGINEER AT EACH LOCATION.
3. DURING TEMPORARY DEWATERING ACTIVITIES CONTRACTOR SHALL OUTLET FLOWS TO SEDIMENT CONTROL DEVICES. THESE DEVICES SHALL BE LOCATED ON UNDISTURBED SOILS THAT ARE CAPABLE OF ALLOWING SURFACE INFILTRATION. LOCATIONS FOR ALL OUTLETS OF DEWATERING ACTIVITIES SHALL NOT BE PLACED WITHIN PROTECTED NATURAL RESOURCES.
4. PERMANENT DEWATERING REQUIRED FOR FOUNDATION DRAINAGE SHALL OUTLET AS GRADES ALLOW. PERMANENT OUTLETS SHALL BE LOCATED ON UNDISTURBED SOILS THAT ARE CAPABLE OF ALLOWING SURFACE INFILTRATION. LOCATIONS FOR ALL OUTLETS OF PERMANENT OUTLETS LOCATED WITHIN DITCH LINES SHALL BE STABILIZED WITH RIPRAP. PERMANENT OUTLETS LOCATED IN WOODED AREAS SHALL BE STABILIZED WITH RIPRAP FOLLOWED BY A LEVEL SPREADER TO ELIMINATE CONCENTRATED FLOWS. ALL OUTLET PIPES SHALL HAVE STAINLESS STEEL RODDED SCREENS.
5. IN LOCATIONS WHERE OUTLET REQUIRES THE PLACEMENT OUTSIDE THE DEPICTED CLEARING LIMITS CONTRACTOR SHALL MINIMIZE CLEARING AND DISTURBANCE TO SMALLEST EXTENT PRACTICABLE AND SHALL AVOID PROTECTED NATURAL RESOURCES.

IRRIGATION SYSTEM

- 1. PORTIONS OF THE PROJECT CONSTRUCTION OCCUR WITHIN AREAS WHERE THERE IS AN EXISTING IRRIGATION SYSTEM. CARE SHALL BE TAKEN IN ORDER TO AVOID IMPACTS WHERE FEASIBLE. IN AREAS OF DIRECT CONFLICT, IRRIGATION SYSTEM RELOCATION AND MODIFICATIONS WILL BE REQUIRED. IRRIGATION SYSTEM MODIFICATIONS MAY OCCUR OUTSIDE THE LIMITS OF IMPACT DEPICTED WITHIN THIS PLAN SET.

CULVERT AND LEVEL SPREADER SIZES WITHOUT BUFFERS

Table with columns: Road Name, CL Station, Drainage Area (acres), Culvert Diameter (in), Level Spreader Length (ft). Lists various roads and culvert/spreader specifications.

STONE BERMED LEVEL LIP SPREADER SIZES WITH BUFFERS

Table with columns: BMP Type & #, Roadway Align. or Turbine Site, Berm Length (ft), Buffer Length (ft). Lists stone bermed level lip spreader specifications.

Table with columns: Road Name, CL Station, Drainage Area (acres), Culvert Diameter (in), Level Spreader Length (ft). Lists roads and culvert/spreader specifications with buffers.

STONE BERMED LEVEL LIP SPREADER SIZES WITH BUFFERS

Table with columns: BMP Type & #, Roadway Align. or Turbine Site, Berm Length (ft), Buffer Length (ft). Lists stone bermed level lip spreader specifications for Harrington River Watershed.

Table with columns: BMP Type & #, Roadway Align. or Turbine Site, Berm Length (ft), Buffer Length (ft). Lists stone bermed level lip spreader specifications for Mopang Lake Watershed.

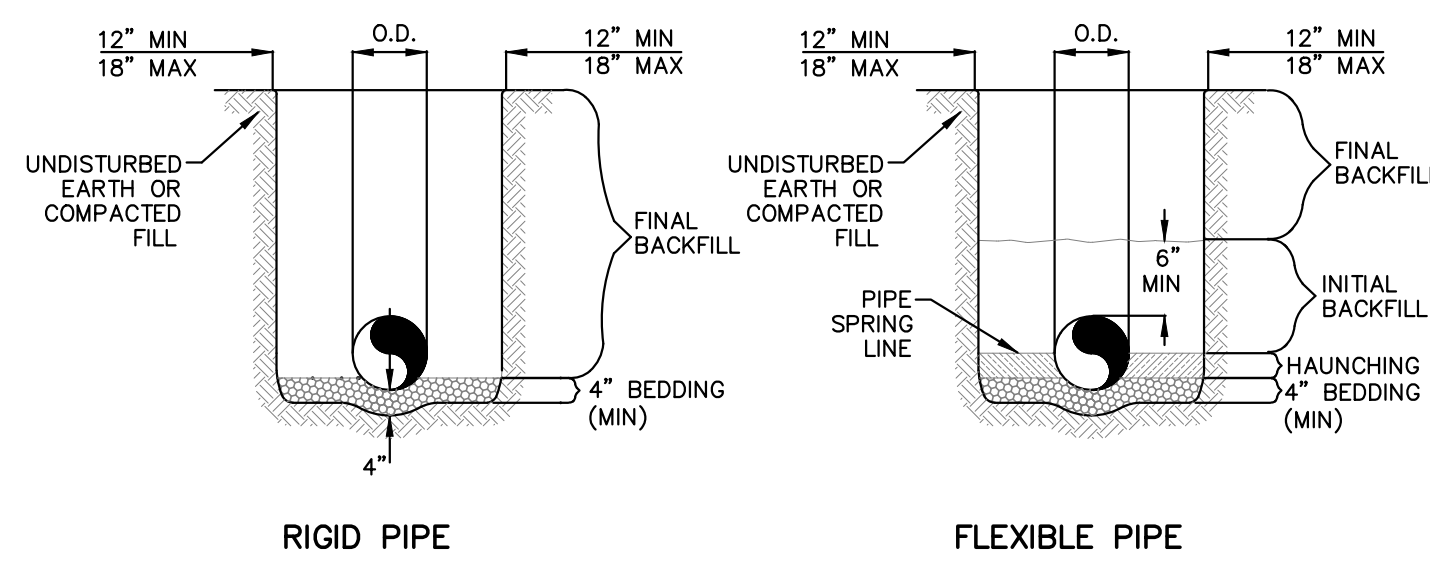
STONE BERMED LEVEL LIP SPREADER SIZES WITH BUFFERS

Table with columns: BMP Type & #, Roadway Align. or Turbine Site, Berm Length (ft), Buffer Length (ft). Lists stone bermed level lip spreader specifications for Upper Pleasant River Watershed.

Professional Engineer Seal for Brent Hart, License No. 113-20-01, State of Maine. Includes project information: APEX CLEAN ENERGY, INC. - DOWNEAST WIND FARM, and a large PERMIT stamp with the number 2.1.

NOT FOR CONSTRUCTION



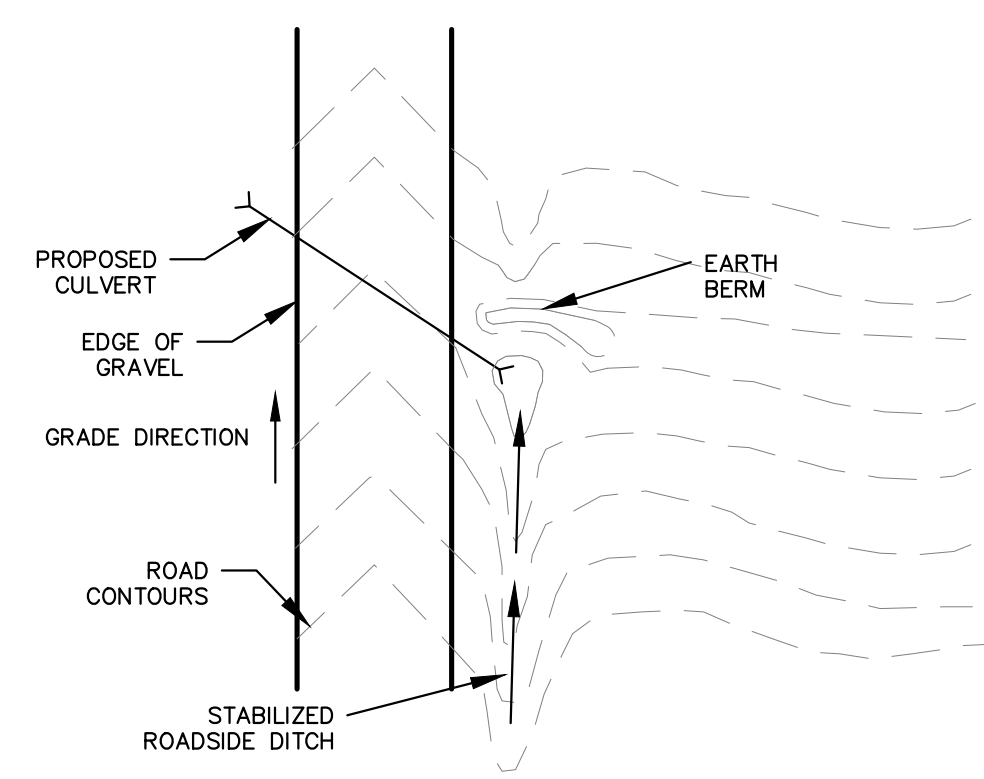


**GENERAL NOTES**

\*AASHTO SOIL CLASSIFICATIONS USED

- BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR. (SEE SPECIFICATIONS FOR GRADATION).
- HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
- INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
- FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. FINAL COVER OVER PIPE SHALL BE MIN. 24"
- ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-LATEST EDITION.
- ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
- FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
- ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES (SEE SPECIFICATIONS).
- ACTUAL MATERIALS USED AND DEPTH OF COVER OVER PIPE SHALL BE FIELD DETERMINED BASED ON ACTUAL SITE CONDITIONS AND PROJECT REQUIREMENTS.

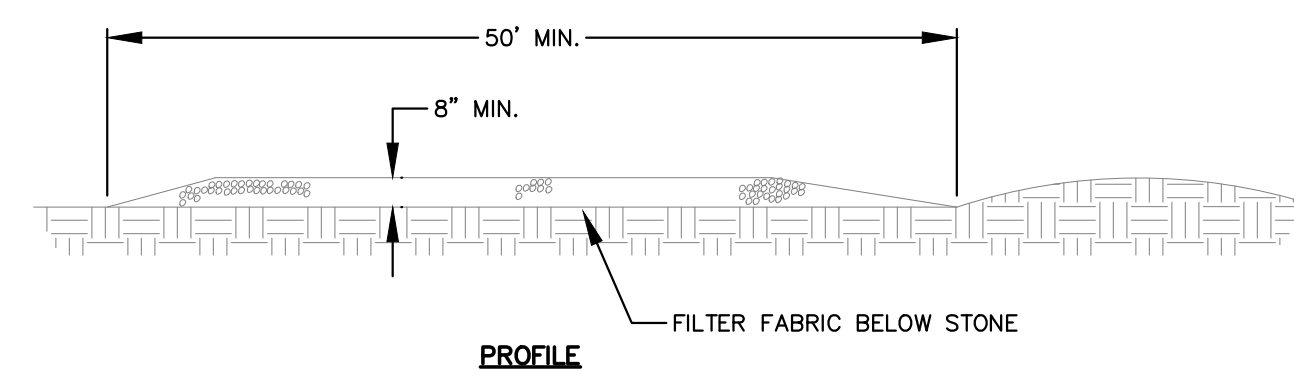
**STORM DRAIN TRENCH AND BEDDING**  
NOT TO SCALE



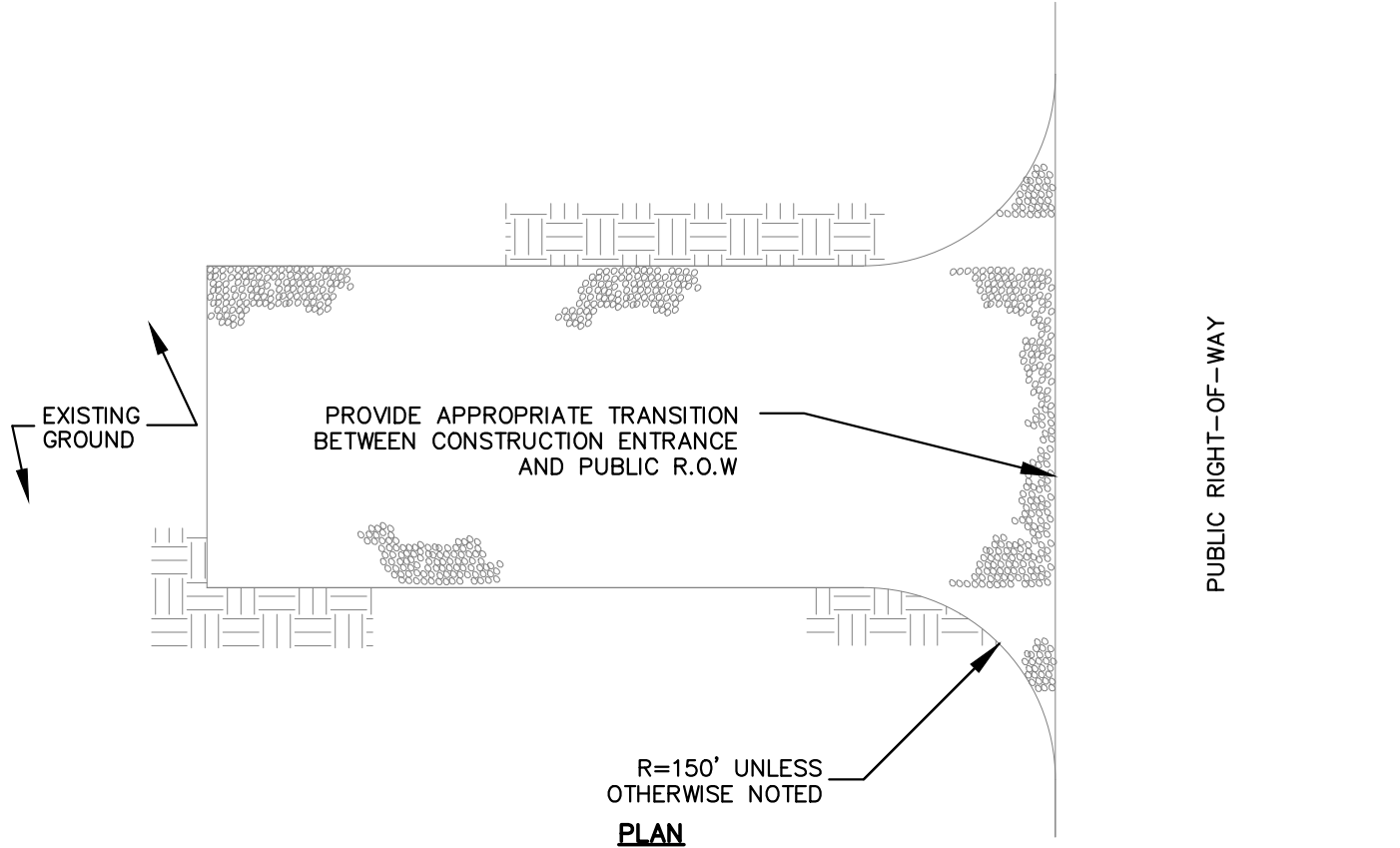
**NOTES**

- CONTRACTOR SHALL CONSTRUCT BERM AT EACH CULVERT INLET TO DIRECT DITCH FLOW INTO CULVERT.
- CONTRACTOR SHALL LOWER INVERT ELEVATION AS APPROPRIATE TO MAINTAIN COVER BETWEEN CROSS CULVERTS, ROADWAY, AND DITCH ON OPPOSITE SIDE OF ROAD.
- VERIFY COVER REQUIREMENTS WITH PIPE MANUFACTURER.

**BERMED CULVERT INLET DETAIL**  
NOT TO SCALE



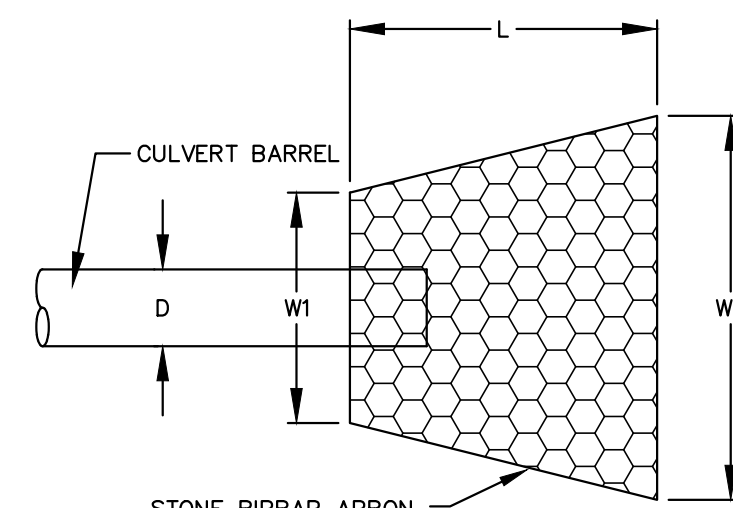
**PROFILE**



**PLAN**

- NOTES:**
- APPROXIMATE STONE SIZE - AASHTO DESIGNATION M43, SIZE NO. 2 (2 1/2" TO 1 1/2"). USE CRUSHED STONE.
  - LENGTH - AS SHOWN ON GRADING PLAN, MIN. 50 FEET.
  - THICKNESS - APPROXIMATELY EIGHT (8) INCHES (MINIMUM)
  - WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
  - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

**STABILIZED CONSTRUCTION ENTRANCE**  
NOT TO SCALE

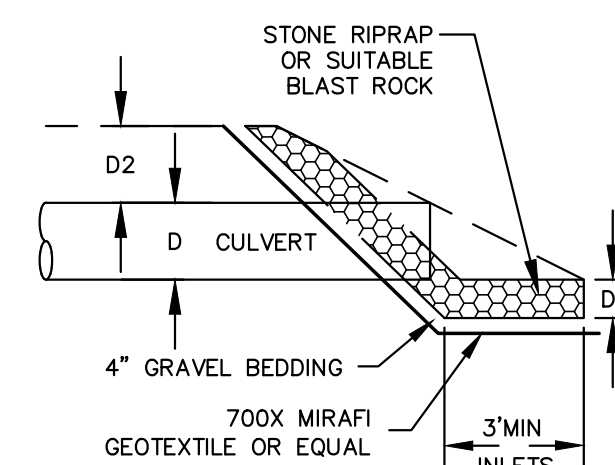


D	W1	W2	L	d50
15"	4'	14'	10'	4"
18"	5'	15'	10'	6"
24"	6'	16'	12'	6"
30"	15'	25'	22'	8"
36"	18'	28'	25'	10"

- NOTES**
- THE RIPRAP APRON SHALL BE CONSTRUCTED WITH NO SLOPE ALONG ITS LENGTH.

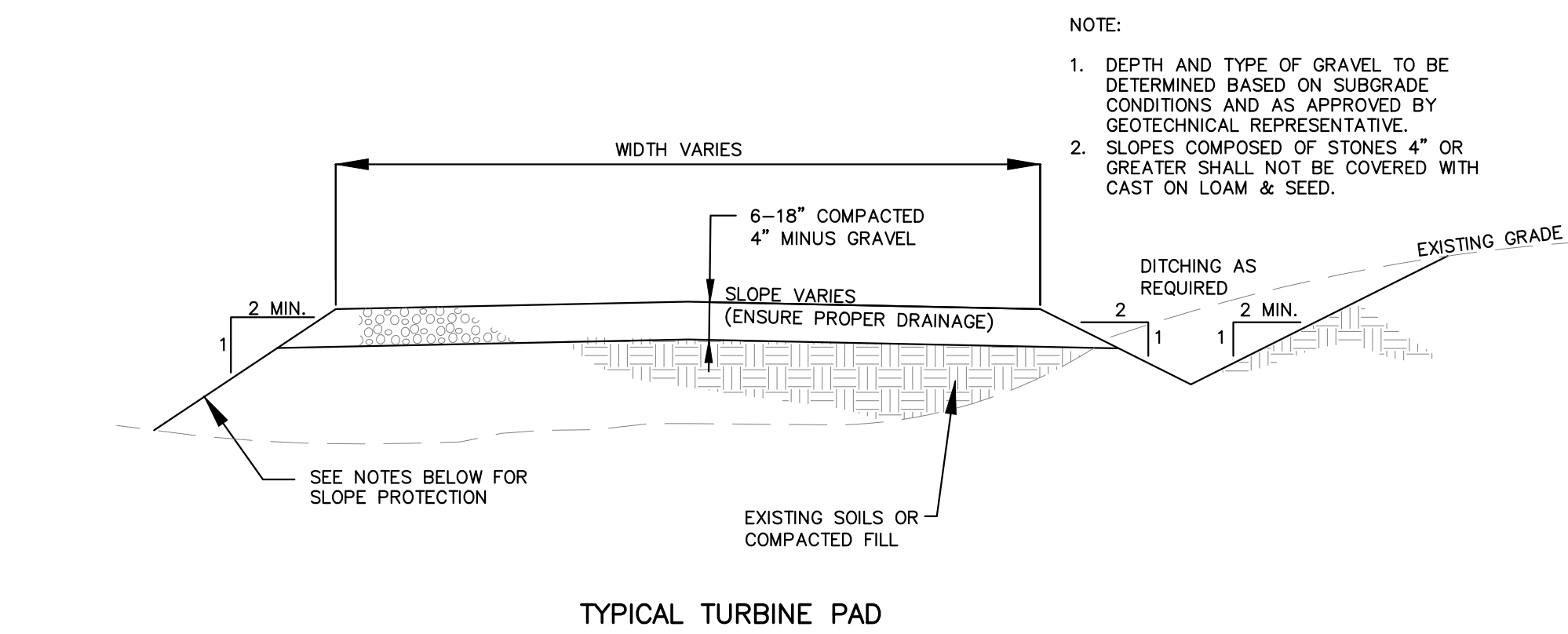
NOTE: APRONS SHALL BE CONSTRUCTED ON ALL CULVERT INLETS/OUTLETS UNLESS APPROVED BY ENGINEER.

**CULVERT OUTLET DETAIL PLAN VIEW**  
NOT TO SCALE

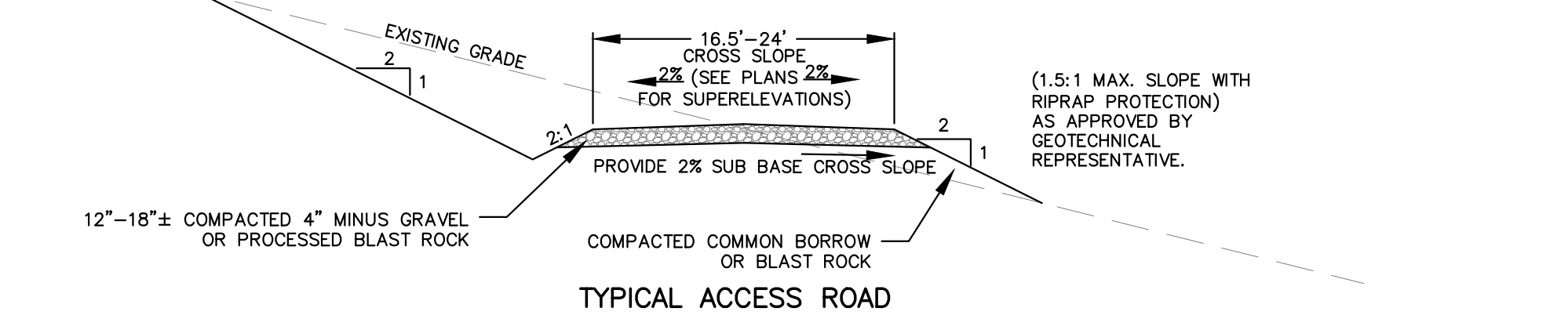


D	D1	D2	INLET	D2	OUTLET
15"	9"	24"	12"	12"	12"
18"	13.5"	24"	12"	12"	12"
24"	13.5"	36"	12"	12"	12"
30"	18"	36"	15"	15"	15"
36"	23"	36"	18"	18"	18"

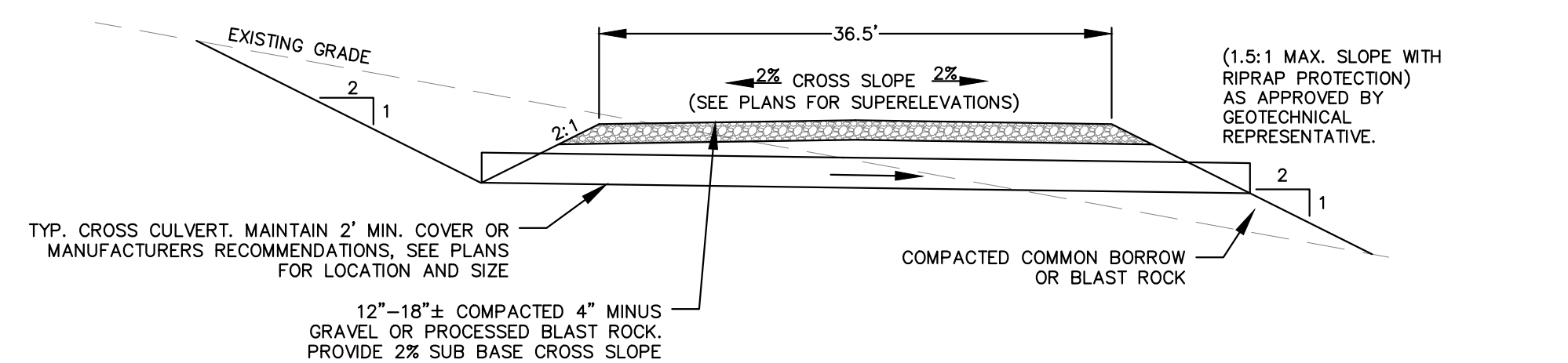
**CULVERT INLET/OUTLET DETAIL SECTION VIEW**  
NOT TO SCALE



**TYPICAL TURBINE PAD**



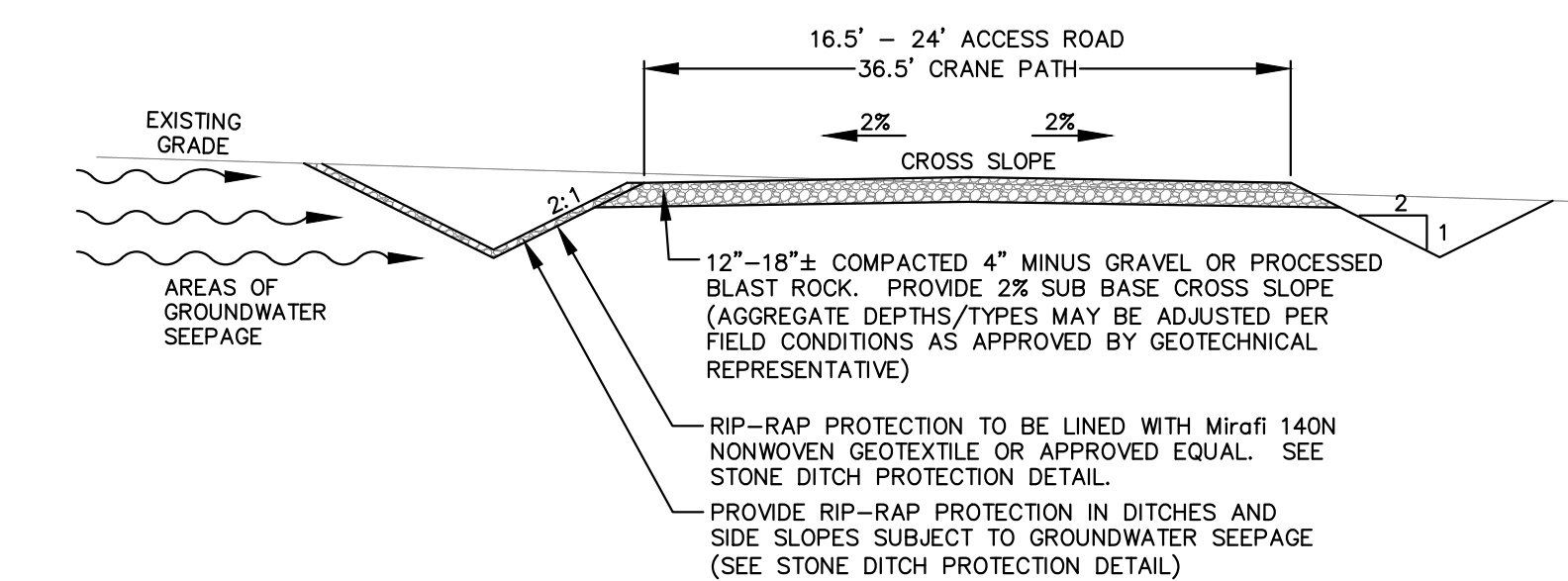
**TYPICAL ACCESS ROAD**



**TYPICAL CRANE PATH**

- NOTES:**
- DITCHES SHALL BE CONSTRUCTED TO AVOID GROUND WATER TABLE WHEN POSSIBLE. DITCH DEPTH SHALL BE 24" MEASURED FROM ROADWAY, EXCEPT AT CROSS CULVERTS OR AS APPROVED BY THE ENGINEER. DITCHES SHALL BE STONE LINED WHEN THE LONGITUDINAL SLOPES OF THE DITCH EXCEEDS 6%.
  - ACTUAL AGGREGATE MATERIALS AND DEPTH SHALL BE DETERMINED IN THE FIELD BASED ON ACTUAL SITE CONDITIONS AND PROJECT REQUIREMENTS TO ADEQUATELY SUPPORT CONSTRUCTION EQUIPMENT.
- FILL AREAS:**
- EXISTING GROUND SHALL BE GRUBBED WITHIN FOOTPRINT OF ROAD IN FILL SECTIONS. HOWEVER, WHEN EMBANKMENT FILL DEPTH EXCEEDS 5', MEASURED VERTICALLY, ALL VEGETATION SHALL BE CUT AND REMOVED BUT GRUBBING IS NOT REQUIRED.
  - STABILIZE FILL SLOPES WITH BLAST ROCK, EROSION CONTROL MIX, OR LOAM AND SEED. ALL SLOPES STEEPER THAN 3:1 SHALL BE PROTECTED WITH EROSION CONTROL MIX, EROSION CONTROL MESH, OR BLAST ROCK/RIP RAP. SLOPES STEEPER THAN 2:1 SHALL BE PROTECTED WITH RIPRAP OR SUITABLE BLAST ROCK.
  - BENCH EXISTING GROUND AS NECESSARY TO STABILIZE EXTENSION.
- CUT AREAS:**
- 1:4 CUT FACES ARE PERMITTED IN AREAS OF ROCK EXCAVATION ONLY AS APPROVED BY GEOTECHNICAL REPRESENTATIVE.
  - ALL NON ROCK-FACE SLOPES STEEPER THAN 3:1 SHALL BE PROTECTED WITH EROSION CONTROL MIX, EROSION CONTROL MESH, OR BLAST ROCK. SLOPES STEEPER THAN 2:1 SHALL BE PROTECTED WITH BLAST ROCK OR RIP RAP.

**TYPICAL TURBINE PAD AND ROAD DETAILS**  
NOT TO SCALE



**TYPICAL ROAD DETAIL IN CUT SECTION**  
NOT TO SCALE

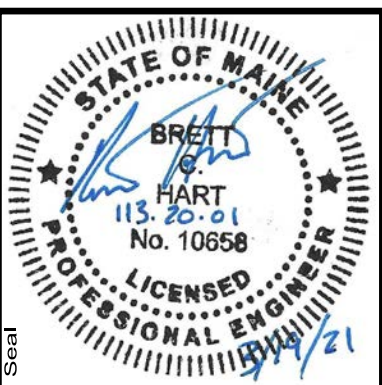
- NOTE:**
- DEPTH AND TYPE OF GRAVEL TO BE DETERMINED BASED ON SUBGRADE CONDITIONS AND AS APPROVED BY GEOTECHNICAL REPRESENTATIVE.
  - SLOPES COMPOSED OF STONES 4" OR GREATER SHALL NOT BE COVERED WITH CAST ON LOAM & SEED.

DATE	REV.	DESCRIPTION

Drawn By: MTFEB  
 Designated By: BCH  
 Date: 03/19/2021  
 Scale: NTS  
 Project Location: CHARLOTTEVILLE, VA  
 Checked: JSM  
 Approved: BCH

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 315 4th ST. N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T24 MD BPP, MAINE

**DETAILS**

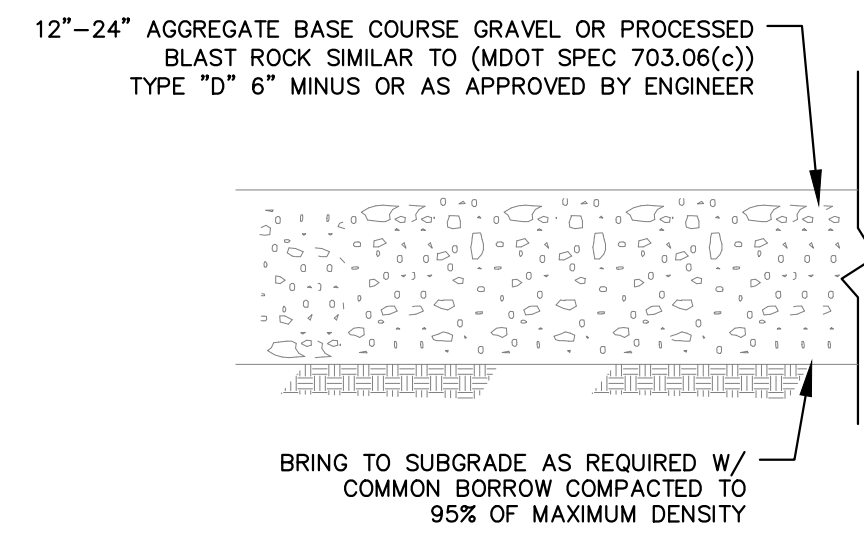


Project No: 113.20.01  
 Engineer: Sewall  
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Phase: PERMIT

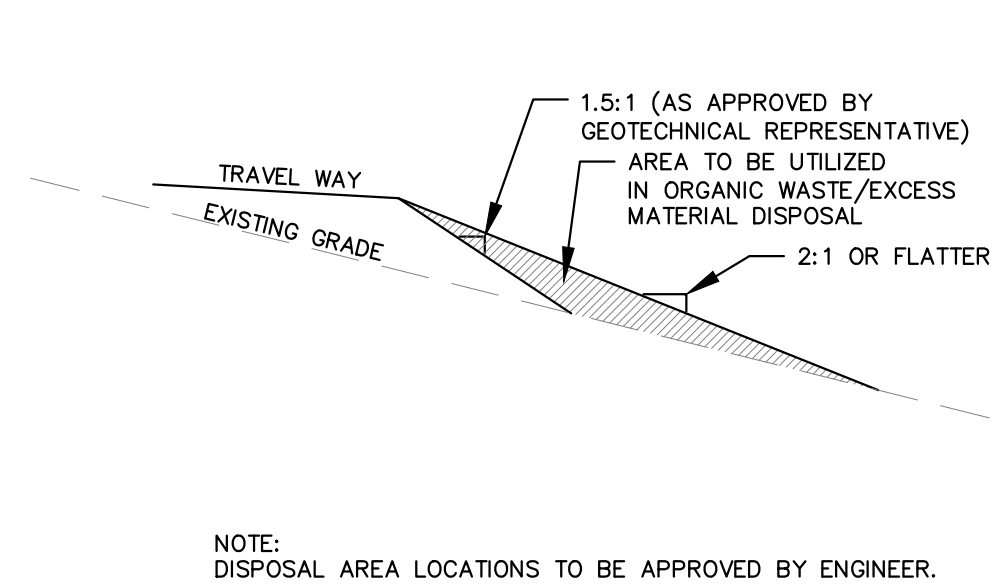
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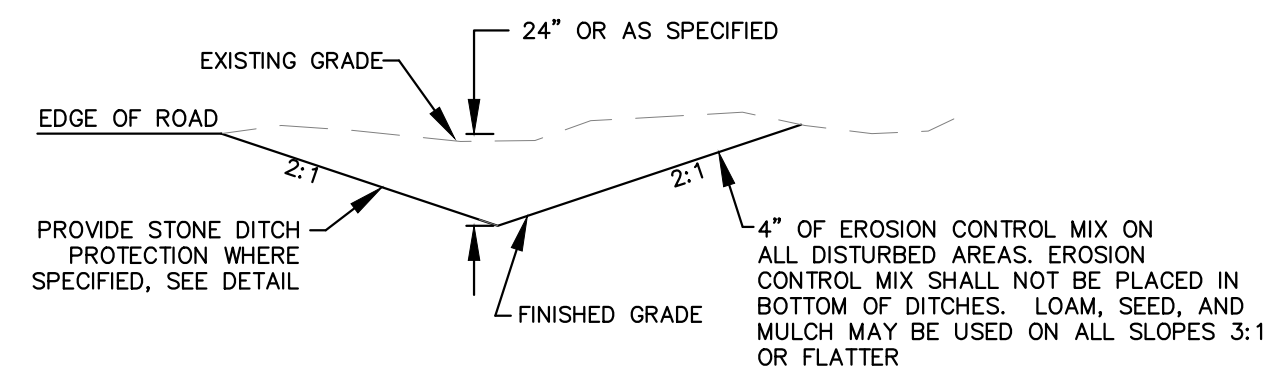


- NOTE:**
1. COMPACT GRAVEL BASE COURSE TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION
  2. ALL CRANE PADS SHALL BE CONSTRUCTED WITH NO CROSS SLOPE IN ANY DIRECTION.
  3. CRANE PADS SHALL BE 75'x120' (MINIMUM). EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY GENERAL CONTRACTOR.
  4. ACTUAL AGGREGATE MATERIALS AND DEPTH SHALL BE DETERMINED IN THE FIELD BASED ON ACTUAL SITE CONDITIONS AND REQUIREMENTS, AS APPROVED BY GEOTECHNICAL REPRESENTATIVE.

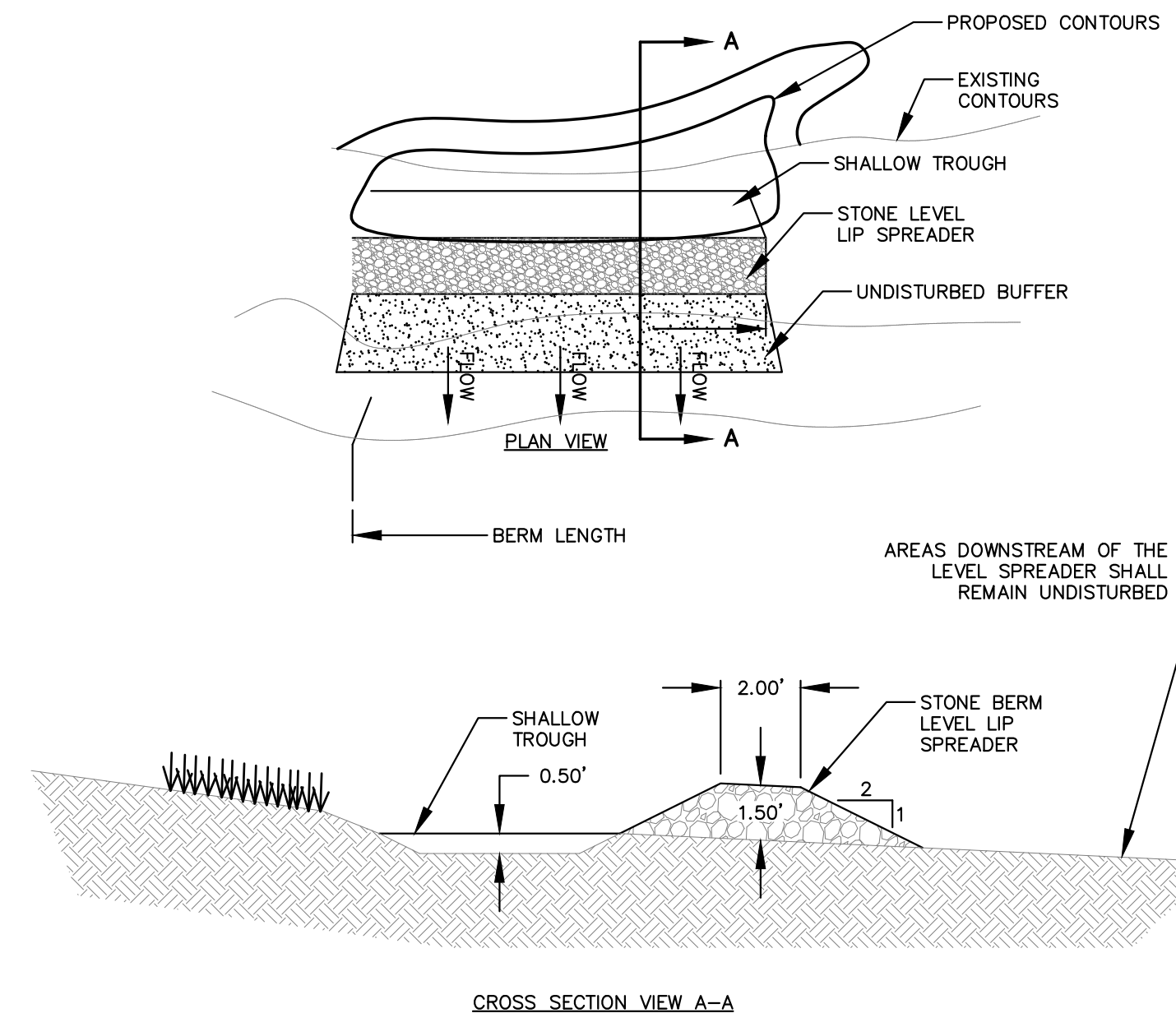
**TYPICAL GRAVEL CRANE PAD SECTION**  
NOT TO SCALE



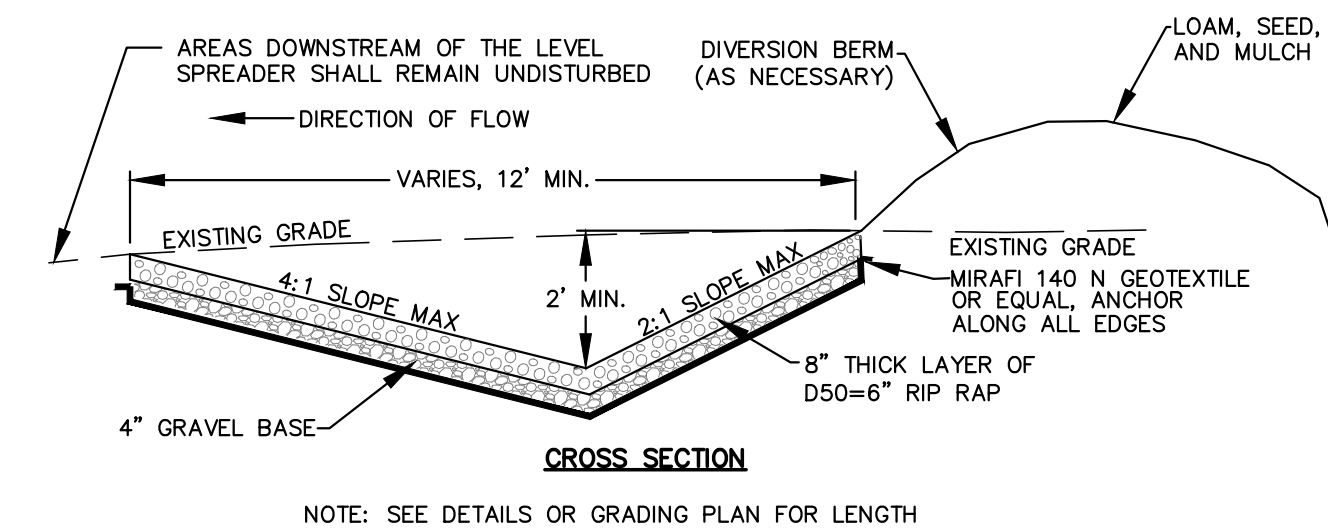
**ORGANIC/DUFF WASTE DISPOSAL DETAIL**  
NOT TO SCALE



**TYPICAL DITCH CROSS SECTION**  
NOT TO SCALE

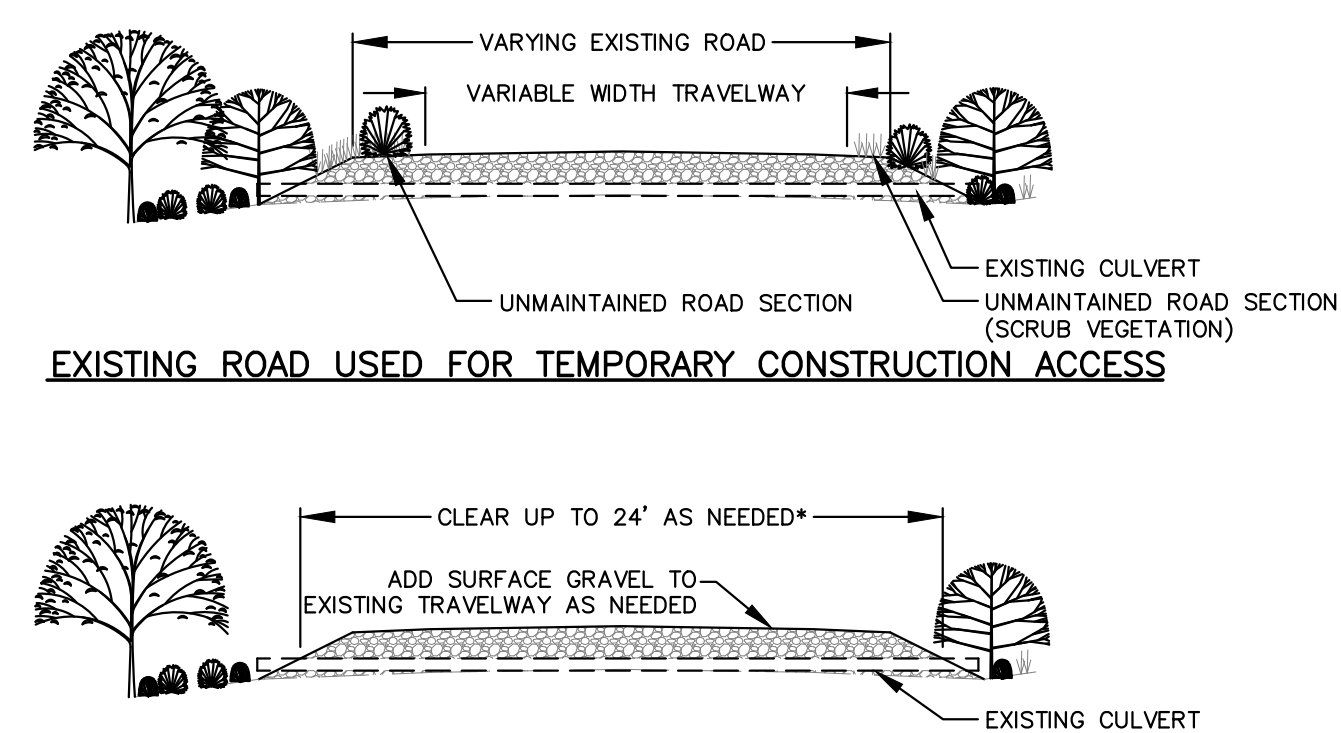


**STONED BERMED LEVEL LIP SPREADER DETAIL**  
NOT TO SCALE

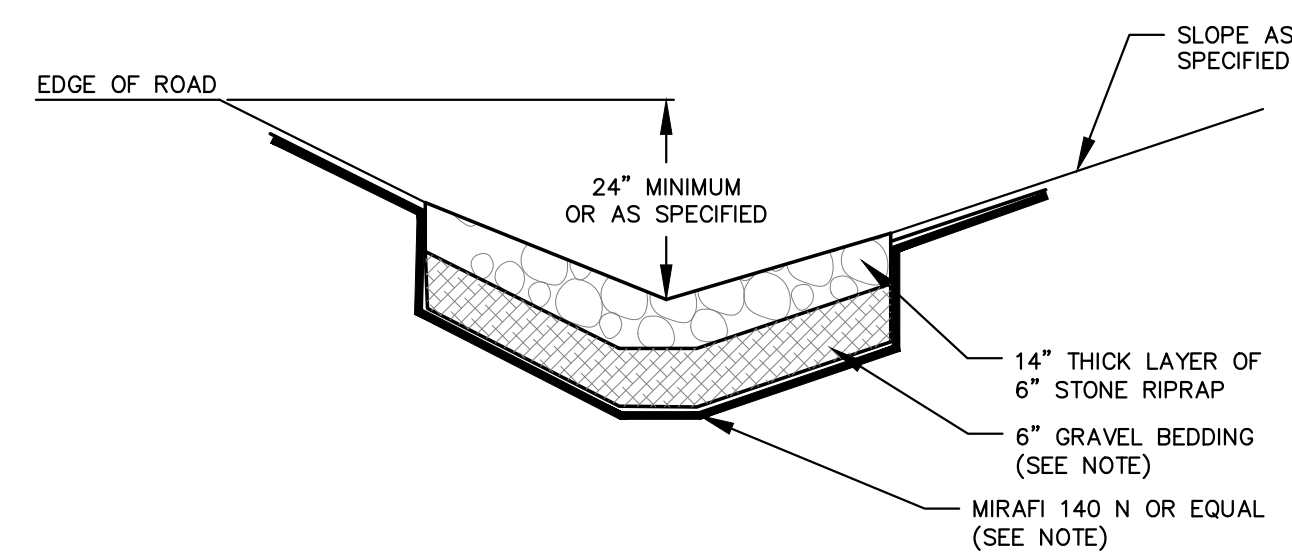


- LEVEL SPREADER NOTES**
1. ALL LEVEL SPREADERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION.
  2. ALL LEVEL SPREADERS SHALL BE CONSTRUCTED IN A CUT SECTION, I.E. THERE SHALL BE NO EARTH FILL ALONG DOWNSTREAM EDGE.
  3. ALL LEVEL SPREADERS SHALL BE ALIGNED PARALLEL TO THE EXISTING CONTOURS.
  4. THE ENTRANCE DITCH TO THE LEVEL SPREADER SHALL HAVE A MAXIMUM GRADE OF 1.0% FOR AT LEAST 50 FEET IMMEDIATELY PRIOR TO ENTERING THE SPREADER.
  5. THE LEVEL SPREADER SHALL HAVE A LONGITUDINAL GRADE OF 0.0%.
  6. LEVEL SPREADERS SHOWN ON THE PLANS ARE APPROXIMATE. LOCATION AND ORIENTATION OF LEVEL SPREADERS SHALL BE FIELD DETERMINED BASED ON ACTUAL SITE CONDITIONS.

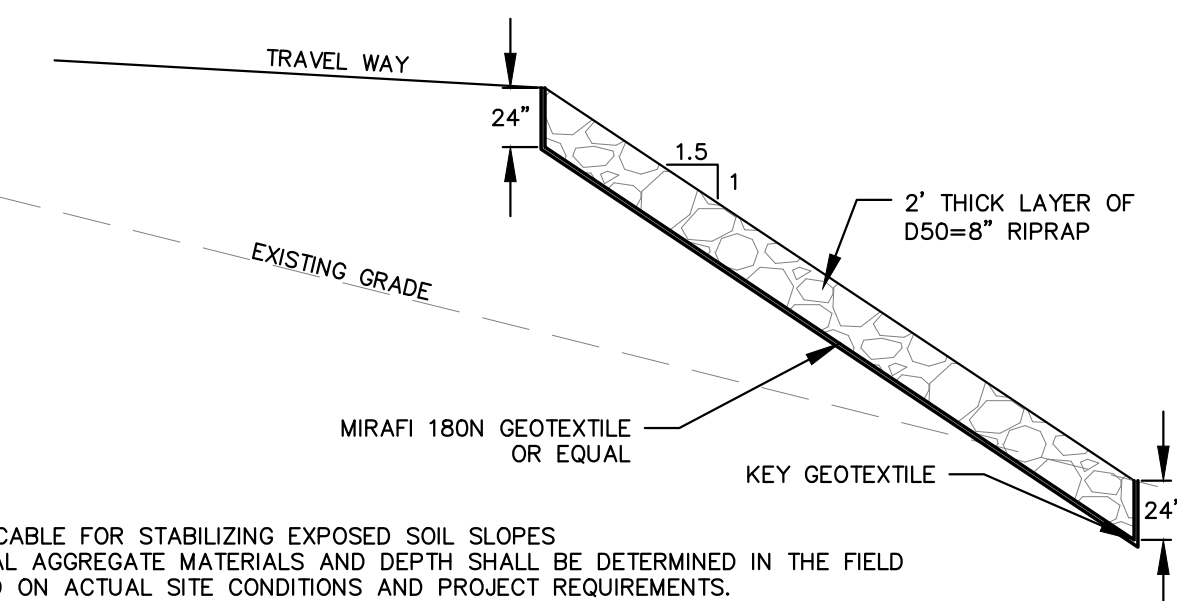
**TYPICAL LEVEL SPREADER**  
NOT TO SCALE



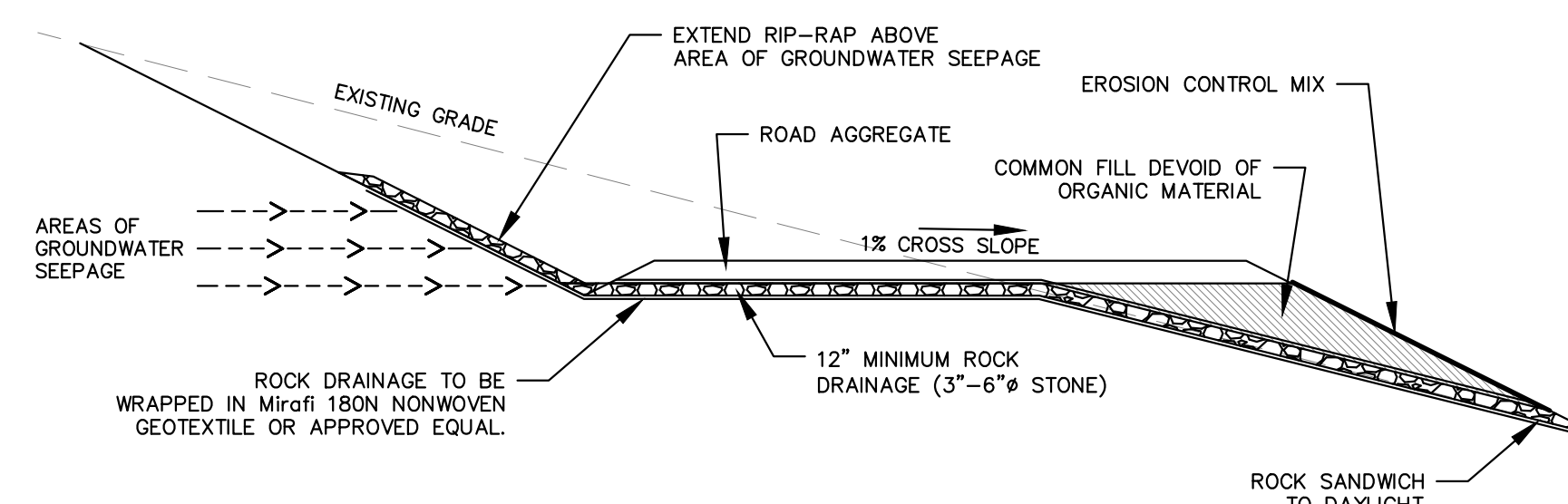
**EXISTING ROAD RECONSTRUCTION**  
NOT TO SCALE



**TYPICAL STONE DITCH PROTECTION DETAIL**  
NOT TO SCALE



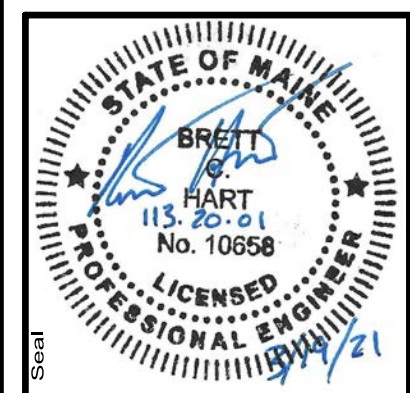
**RIPRAP SLOPE PROTECTION DETAIL**  
NOT TO SCALE



**TYPICAL ROCK SANDWICH DETAIL**  
NOT TO SCALE

- NOTES:**
1. CONTRACTOR SHALL REMOVE EXISTING VEGETATION WITHIN ROAD FOOTPRINT (INCLUDING DRAINAGE DITCHES)
  2. CONTRACTOR SHALL NOT IMPACT PROTECTED NATURAL RESOURCES UNLESS OTHERWISE PERMITTED.
  3. EXISTING DRAINAGE CULVERTS SHALL BE REPLACED IN KIND AS NECESSARY ONLY FOR DRAINAGE CULVERTS NOT CONVEYING A PROTECTED NATURAL RESOURCE UNLESS OTHERWISE PERMITTED. ADDITIONAL DRAINAGE CULVERTS MAY BE INSTALLED AS NECESSARY. COORDINATE REPLACEMENT OF CULVERTS IN EXISTING ROAD WITH LANDOWNER.
  4. BARK MULCH BERMS OR SILT FENCE SHALL BE USED DOWNSTREAM OF ANY MAINTENANCE WORK ALONG ACCESS ROADS AS NEEDED; SEE TYPICAL DETAIL.
- \* ADDITIONAL CLEARING FOR COMPONENT TRANSPORT MAY BE NECESSARY IN ISOLATED LOCATIONS. THIS CLEARING WILL NOT IMPACT PROTECTED RESOURCES UNLESS OTHERWISE DEPICTED.

Drawn By MTEB	Checked JSM
Designed By BCH	Approved BCH
Date 03/18/2021	Scale N/T
<b>APEX CLEAN ENERGY, INC.</b> <b>DOWNEAST WIND FARM</b> Project Location COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE 316 4th ST. N.E., SUITE 200 CHARLOTTEVILLE, VA	
<b>DETAILS</b>	



113.20.01

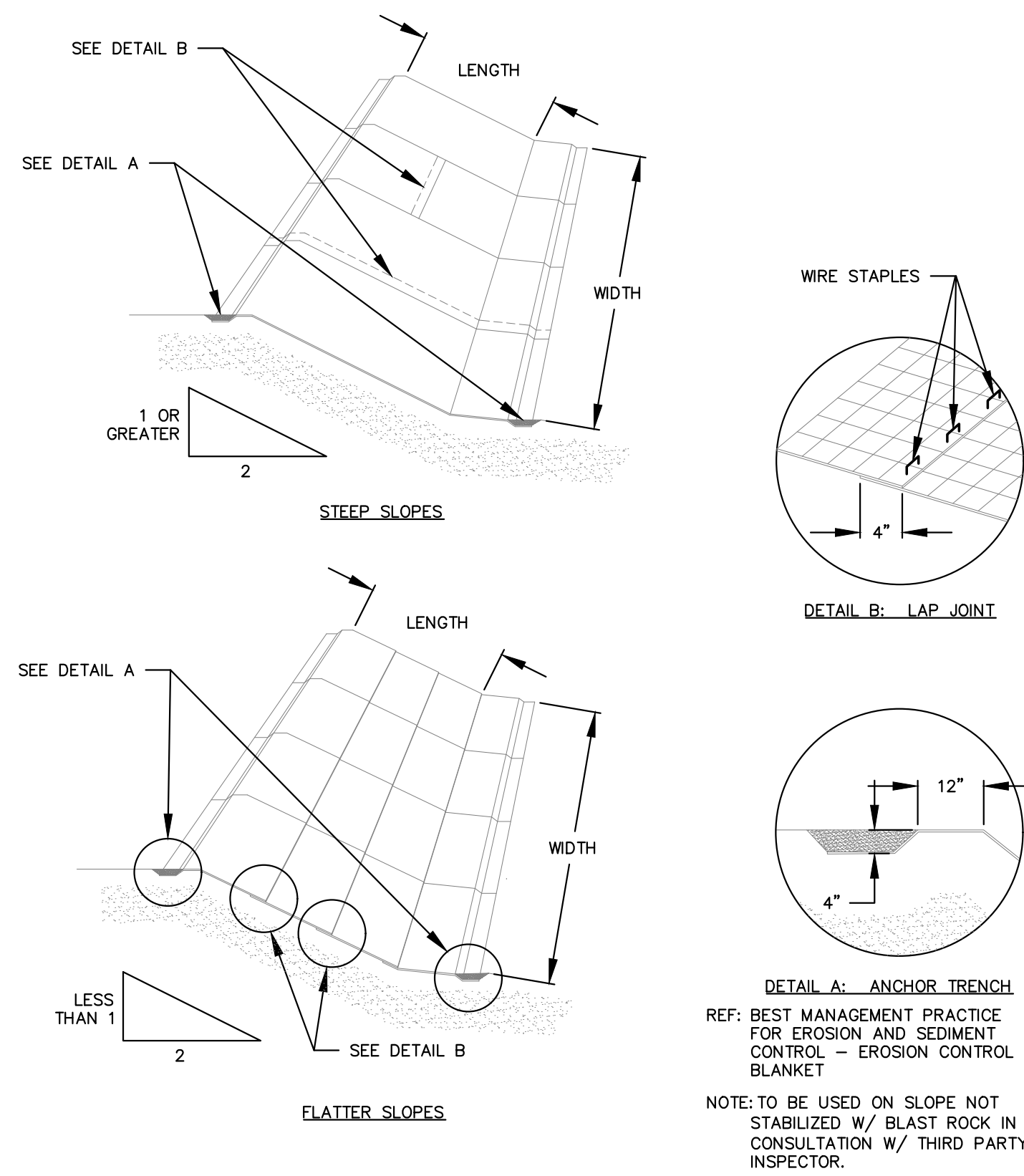
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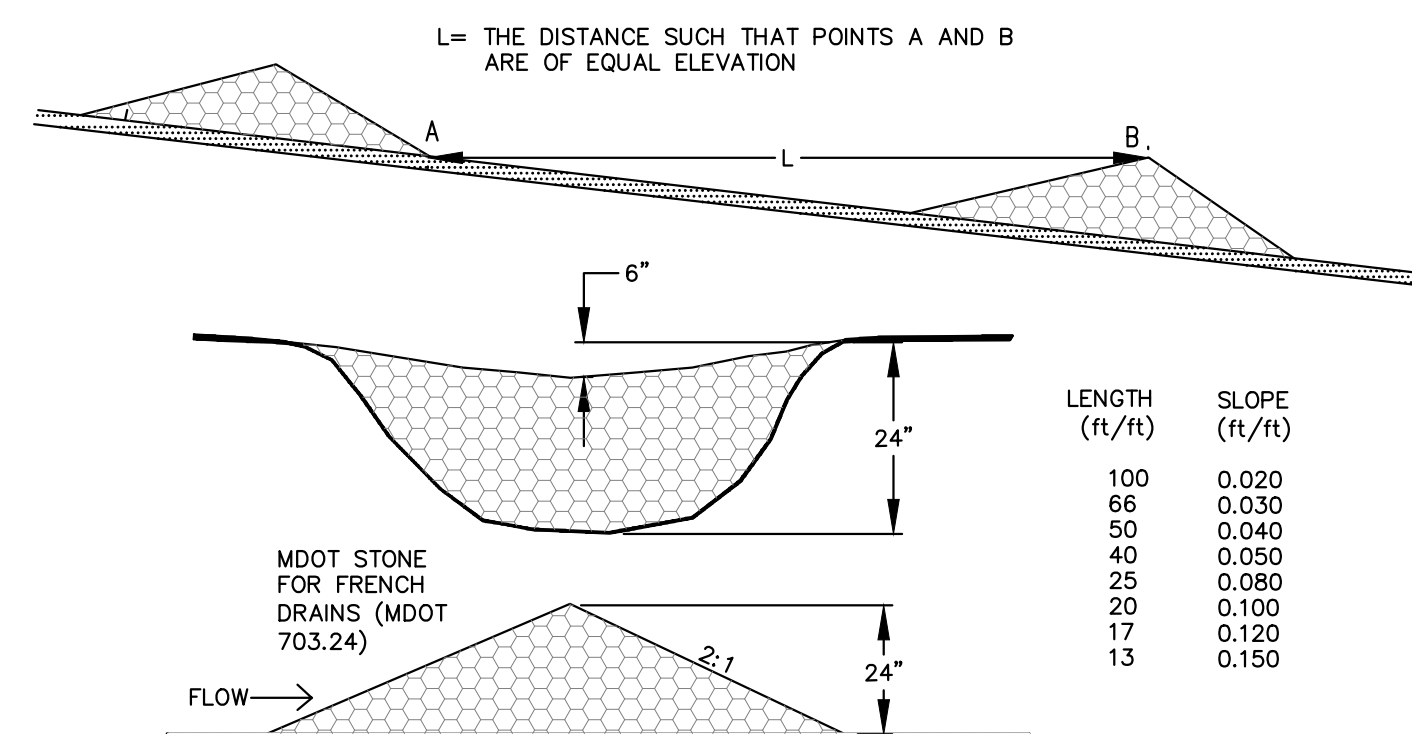
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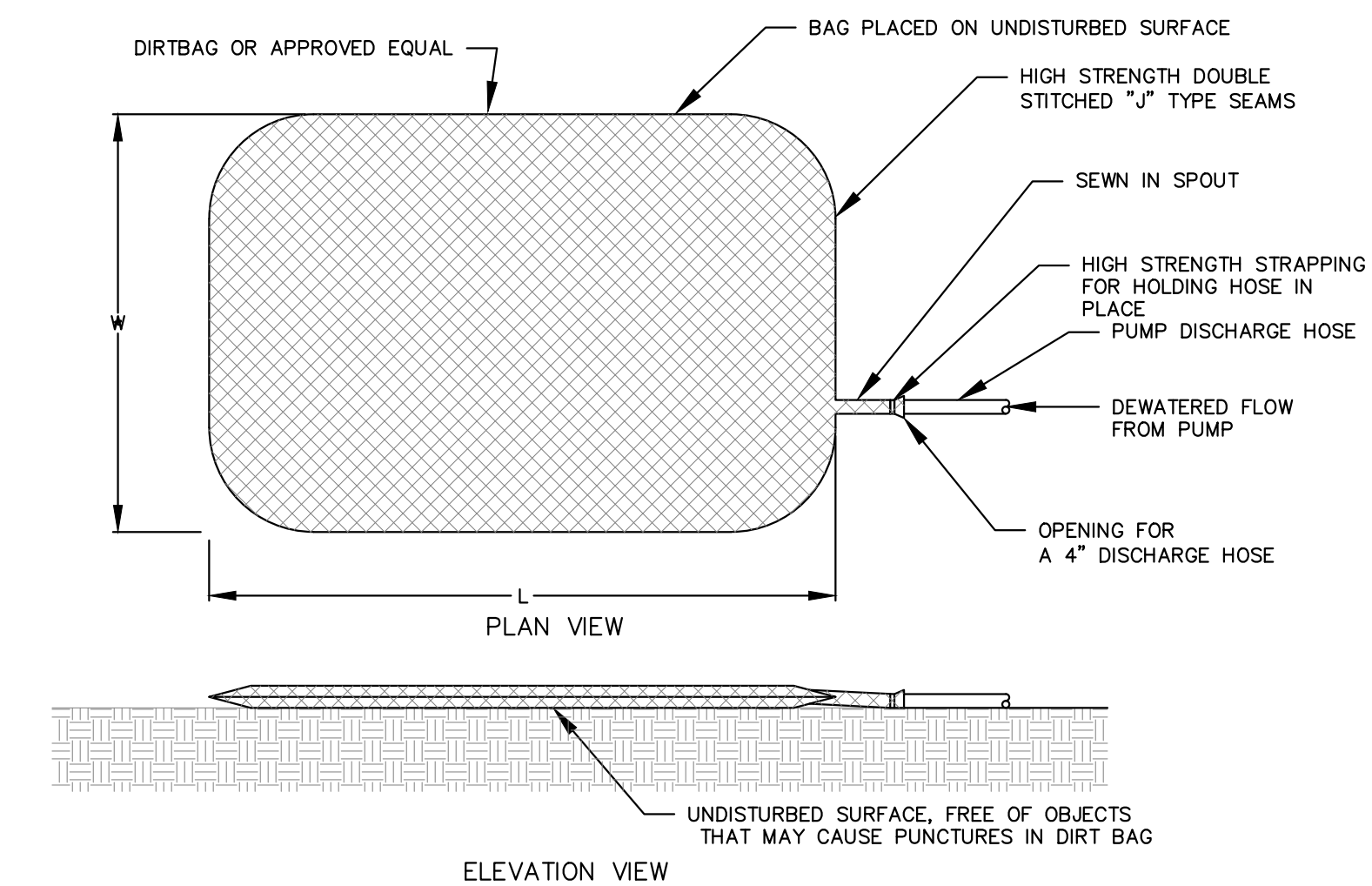




**SLOPE APPLICATION—FOR EROSION CONTROL MESH**  
NOT TO SCALE

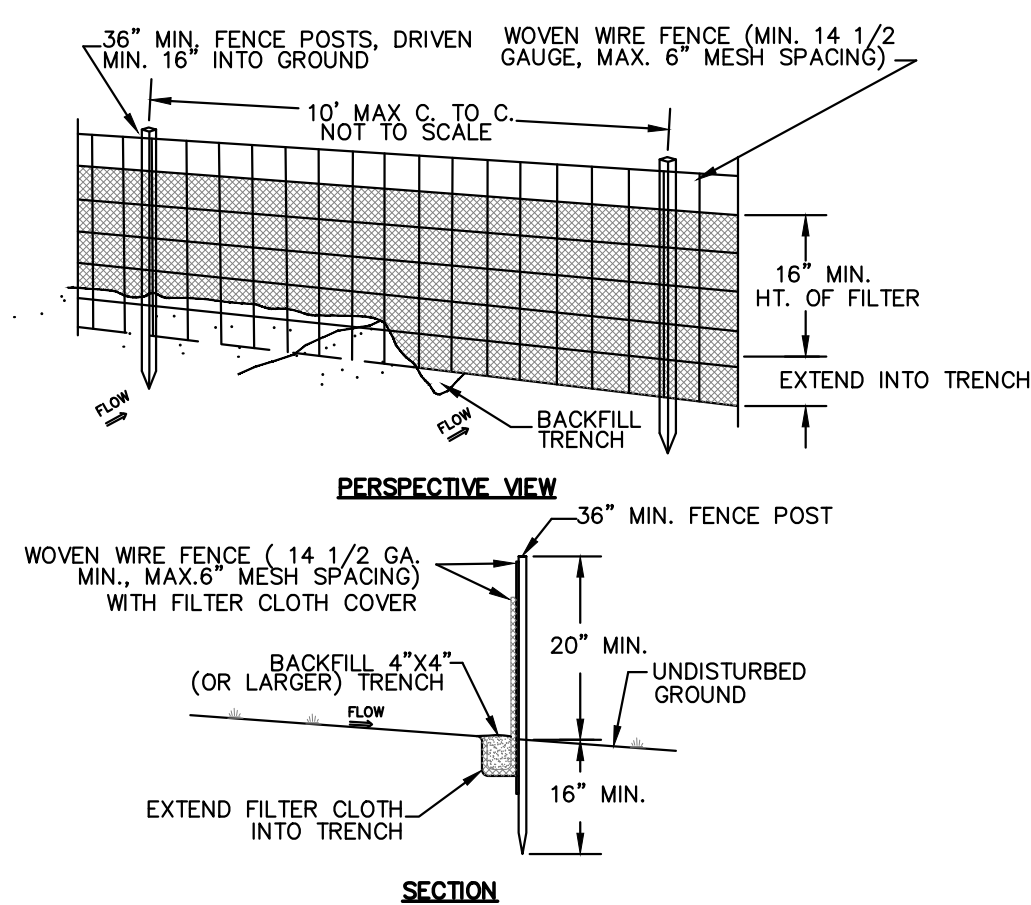


**STONE CHECK DAM DETAILS**  
NOT TO SCALE



- NOTES**
- CONTRACTOR SHALL PROVIDE APPROPRIATE SIZED DEWATERING CONTROL DEVICES TO ACCOMMODATE DEWATERING ACTIVITIES BASED ON MANUFACTURERS RECOMMENDATIONS AND ANTICIPATED FLOW RATES.
  - SEDIMENT CONTROL DEVICES SHALL BE REPLACED WHEN FULL. SEDIMENT CAN BE DISPOSED OF IN NON STRUCTURAL FILL AREAS OUTSIDE OF RESOURCE PROTECTION ZONES.

**DIRT BAG DETAIL**  
NOT TO SCALE

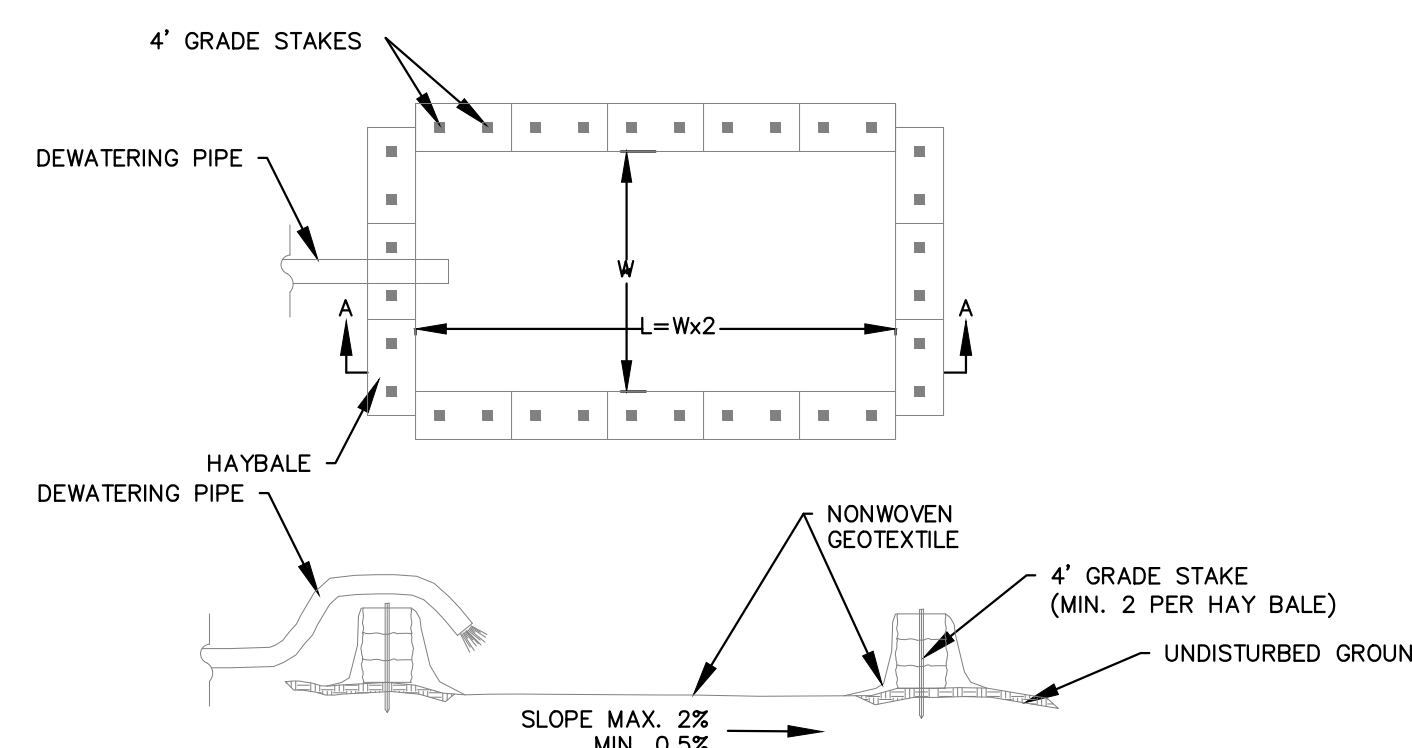


**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

NOTE: THE CONTRACTOR HAS THE OPTION TO NOT USE WOVEN WIRE MESH IF STAKE SPACERS ARE REDUCED TO 6" O.C.

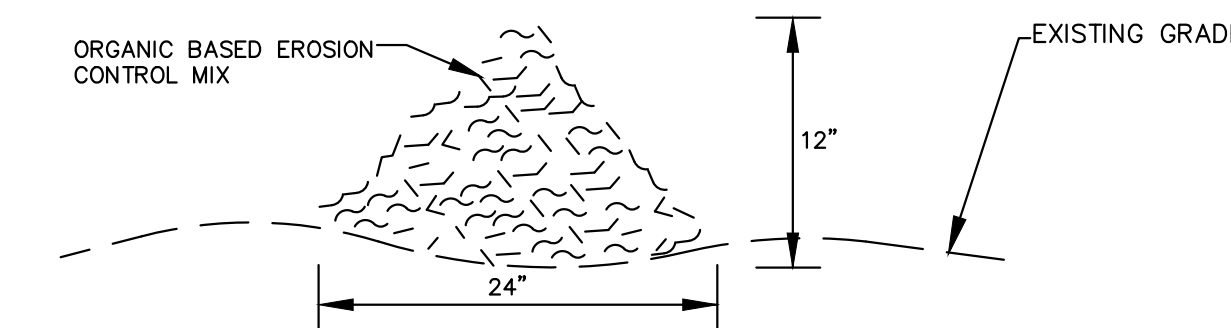
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP OF MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- SILT FENCE SHOWN ON THE PLANS IS SYMBOLIC. ALL SILT FENCE SHALL BE INSTALLED ALONG THE CONTOUR WITH EXACT LOCATION/ORIENTATION TO BE FIELD DETERMINED BASE ON ACTUAL SITE CONDITIONS.
- NO MORE THAN 1/4 ACRE OF DRAINAGE AREA FOR EACH 100 FEET OF FENCING.
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD.
- FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING.
- FILTER CLOTH: FILTER X, MARAFI 100X, STABI- LINKA T140N OR APPROVED EQUAL
- PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

**SILT FENCE DETAIL**  
NOT TO SCALE



- NOTES**
- CONTRACTOR SHALL PROVIDE APPROPRIATELY SIZED DEWATERING CONTROL DEVICES TO ACCOMMODATE DEWATERING ACTIVITIES.
  - ORIENTATION OF HAYBALES MAY BE MODIFIED BASED ON ACTUAL FIELD CONDITIONS.

**TEMPORARY DEWATERING SEDIMENT BASIN**  
NOT TO SCALE



**COMPOSITION**

EROSION CONTROL MIX SHALL BE MANUFACTURED ON OR OFF THE PROJECT SITE SUCH THAT ITS COMPOSITION IS IN ACCORDANCE WITH THE MDEP MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL, LAST REVISED 3/2003 OR LATER. IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, OR ACCEPTABLE MANUFACTURED PRODUCTS. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.

**INSTALLATION:**

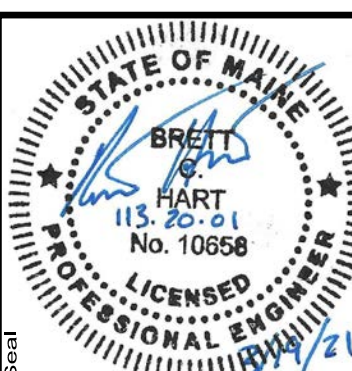
- THE BARRIER MUST BE PLACED ACROSS THE SLOPE, ALONG THE CONTOUR.
- EXISTING GROUND SHALL BE PREPARED SUCH THAT THE BARRIER MAY LIE NEARLY FLAT ALONG THE GROUND TO AVOID THE CREATION OF VOIDS AND BRIDGES IN ORDER TO MINIMIZE THE POTENTIAL OF WASH OUTS UNDER THE BARRIER.
- THE BARRIER SHALL BE A MINIMUM OF 1 FOOT HIGH (AS MEASURED ON THE UPHILL SIDE) AND 2 FEET WIDE FOR SLOPES LESS THAN 5% IN GRADE AND SHALL BE WIDER TO ACCOMMODATE THE ADDITIONAL RUNOFF.
- EROSION CONTROL MIX MAY BE INSTALLED WHERE SILT FENCE IS ILLUSTRATED ON THE DESIGN PLANS EXCEPT IN, BUT NOT LIMITED TO, THE FOLLOWING AREAS: WETLAND AREAS, AT POINTS OF CONCENTRATED FLOW, BELOW CULVERT OUTLET APRONS, AROUND CATCH BASINS AND CLOSED STORM SYSTEMS AND AT THE BOTTOM OF STEEP SLOPES THAT ARE MORE THAN 50 FEET FROM TOP TO BOTTOM.
- EROSION CONTROL MIX BERMS SHOWN ON THE PLANS ARE SYMBOLIC. LOCATION AND ORIENTATION SHALL BE FIELD DETERMINED BASED ON ACTUAL SITE CONDITIONS.

**EROSION CONTROL MIX BERM**  
NOT TO SCALE

Rev. #	Drawn By	Description

Designed By	BCH	Scale	N/T
Drawn By	MTEFB	Checked	JSM
Date	03/19/2021	Approved	BCH

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
CHARLOTTESVILLE, VA  
318 4th ST. N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
Scale: N/T  
Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
Drawing Description: **DETAILS**

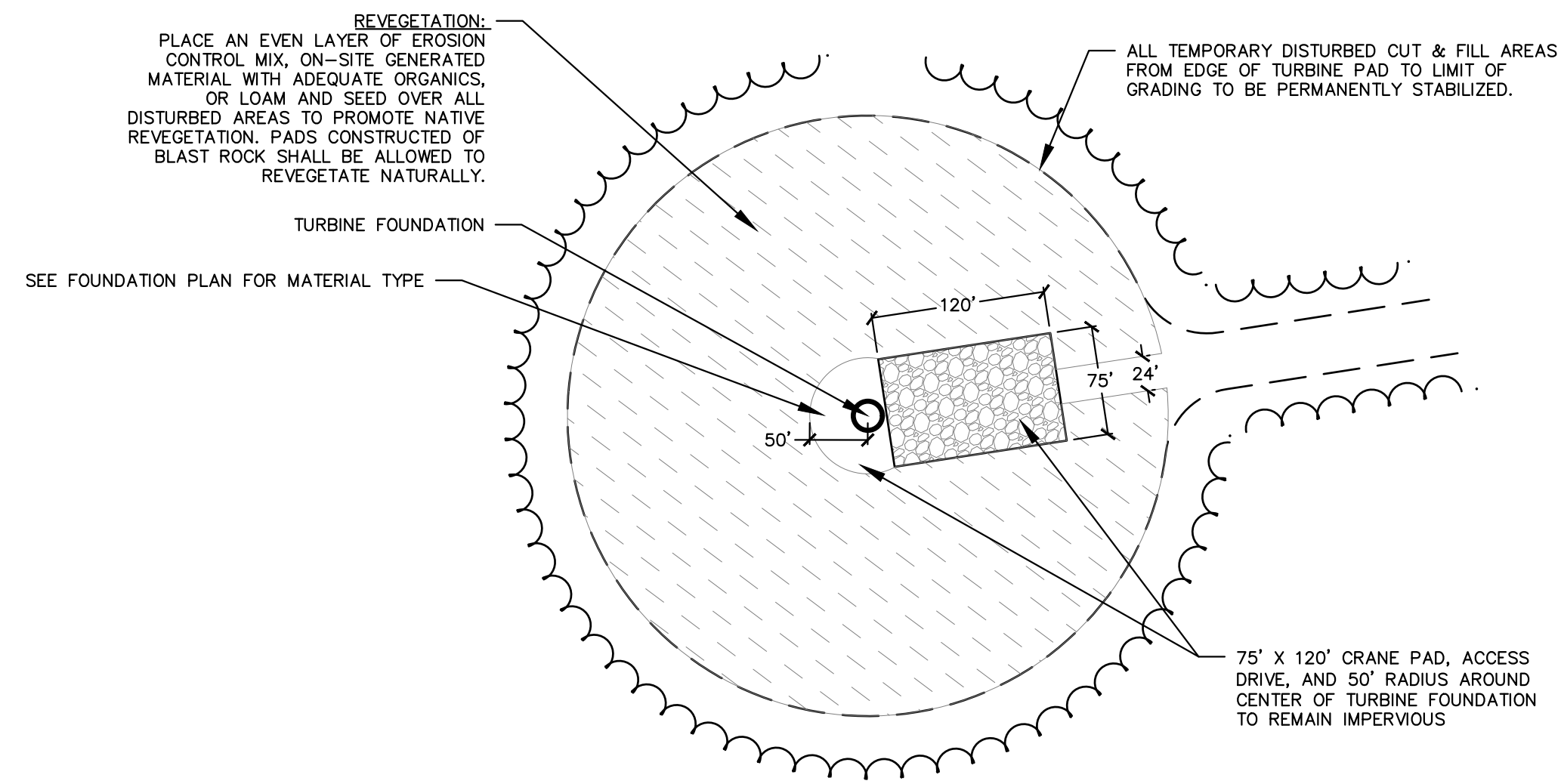


Project No. **113.20.01**  
Engineer **Sewall** ENGINEERING  
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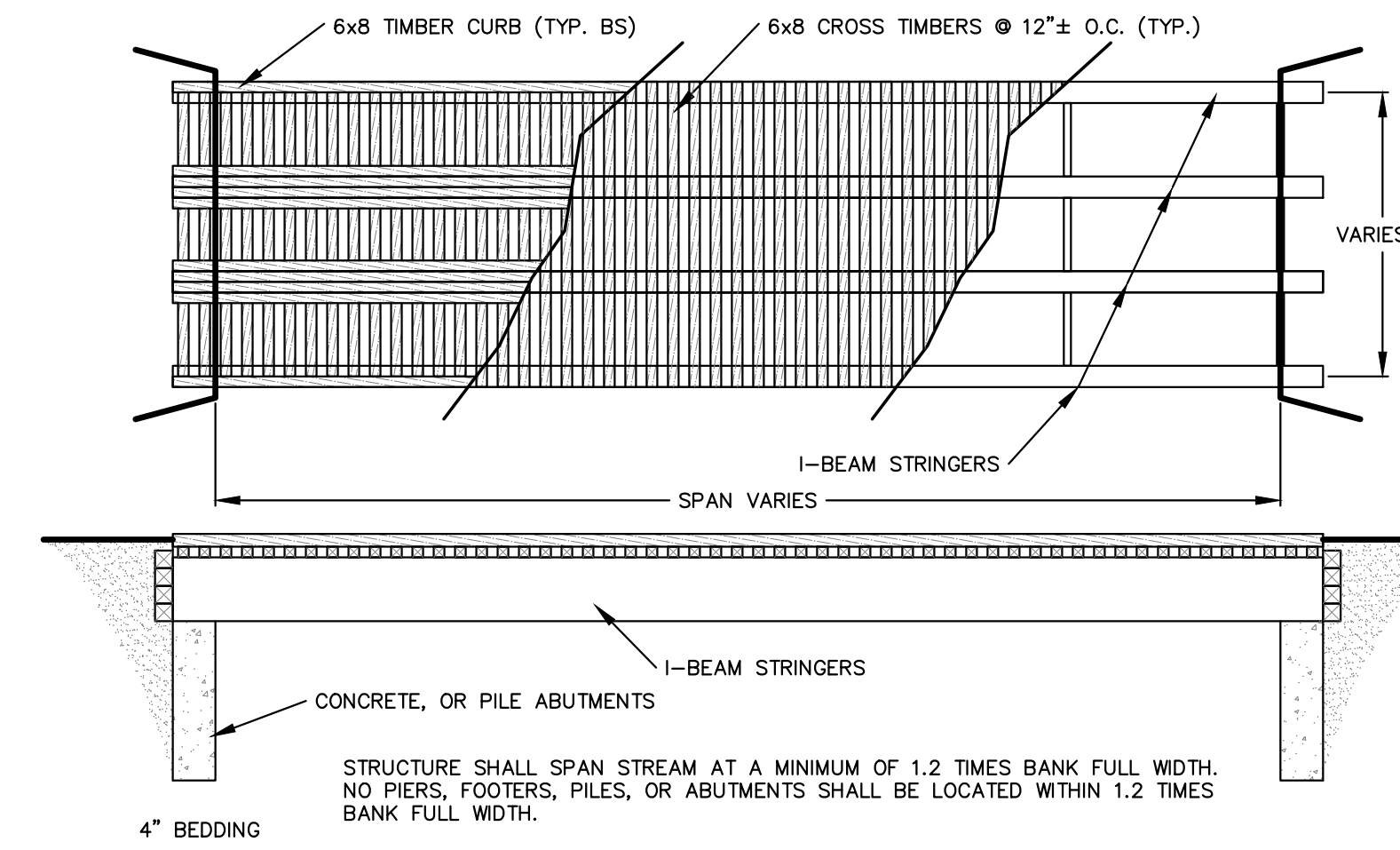
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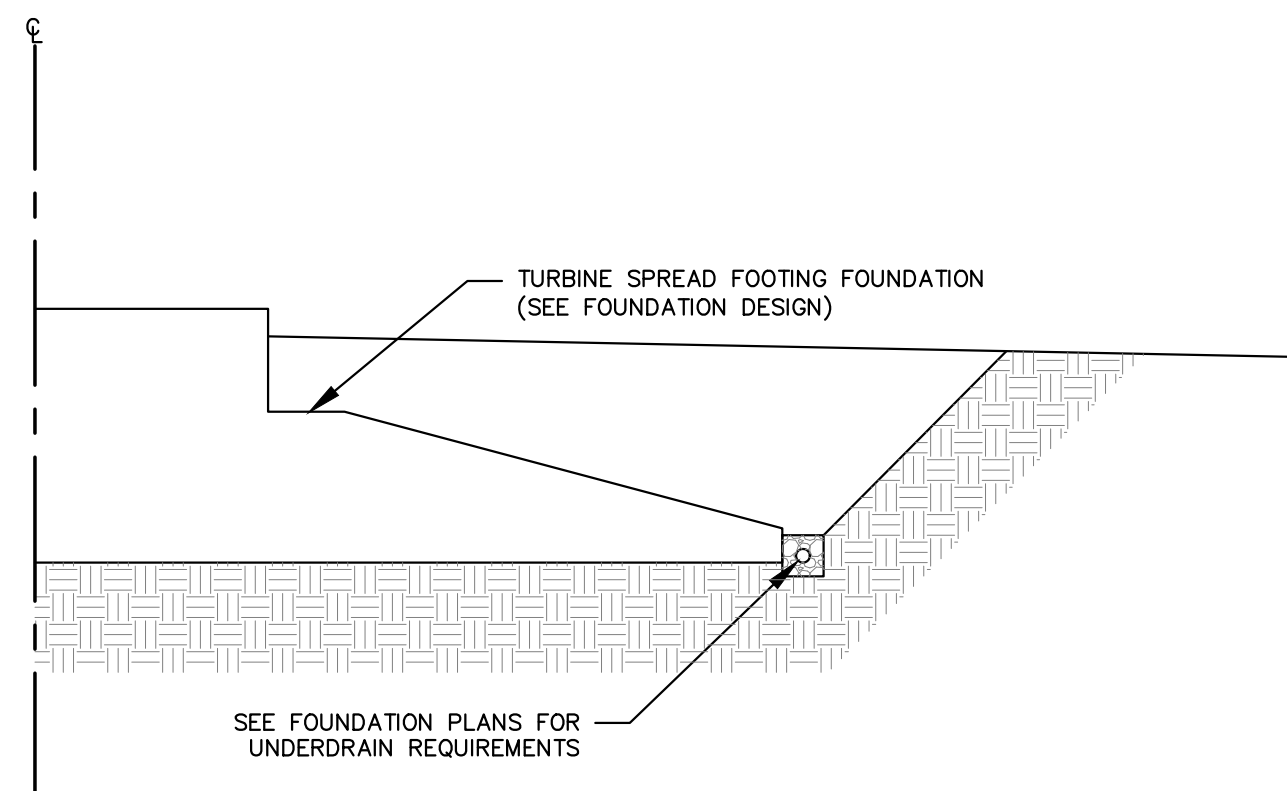
- NOTES:
1. CRANE ASSEMBLY AREAS SHALL ALSO BE ALLOWED TO REVEGETATE IN SIMILAR MANNER.
  2. TURBINE PADS AND CRANE ASSEMBLY AREAS CONSTRUCTED ON EXISTING ROADWAYS SHALL NOT BE REVEGETATED WITHIN THE FOOTPRINT OF THE EXISTING ROAD. ALIGNMENT MODIFICATIONS MAY BE NECESSARY FOR VEHICULAR ACCESS.
  3. THE AREA OF EXISTING ROADS WHICH BISECT PROPOSED TURBINE PADS WILL NOT BE REVEGETATED.

TYPICAL TURBINE PAD STABILIZATION DETAIL  
NOT TO SCALE

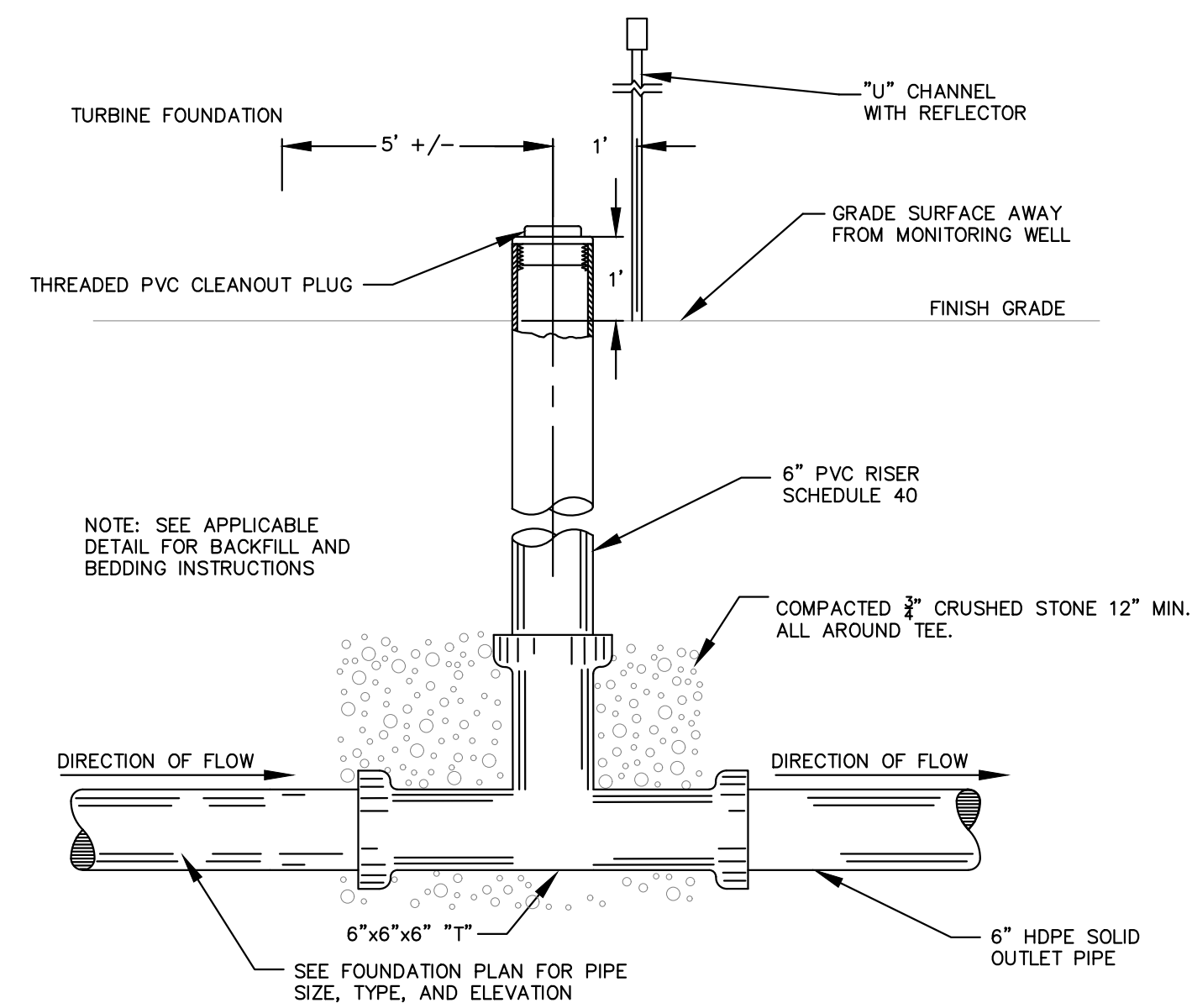


STRUCTURE SHALL SPAN STREAM AT A MINIMUM OF 1.2 TIMES BANK FULL WIDTH. NO PIERS, FOOTERS, PILES, OR ABUTMENTS SHALL BE LOCATED WITHIN 1.2 TIMES BANK FULL WIDTH.

SPAN DETAIL  
NOT TO SCALE



UNDERDRAIN AT SPREAD FOOTING: TYPICAL SECTION  
NOT TO SCALE

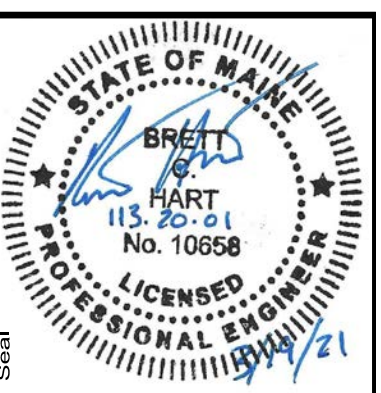


- NOTES:
1. PROVIDE 2" THICK BY 4" SQUARE RIGID INSULATION WITH PIPE SLEEVE CUT OUT 18" BELOW FINISH GRADE.
  2. CONTRACTOR TO PROVIDE APPROPRIATE FITTING FOR 6" PVC AND 6" HDPE CONNECTION.
  3. CONSULT FOUNDATION DESIGN PRIOR TO INSTALLATION.

FOUNDATION DRAIN MONITORING WELL DETAIL  
NOT TO SCALE

Rev. #	Date	By	Description

Drawn By MTFB	Designed By BCH	Scale N.T.S.	Checked JSM
Date 03/18/2021	Project Location COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE	Approved BCH	
<b>APEX CLEAN ENERGY, INC.</b> <b>DOWNEAST WIND FARM</b> <small>315 4th ST. N.E., SUITE 200 CHARLOTTESVILLE, VA</small>			
<b>DETAILS</b>			



Project No. **113.20.01**

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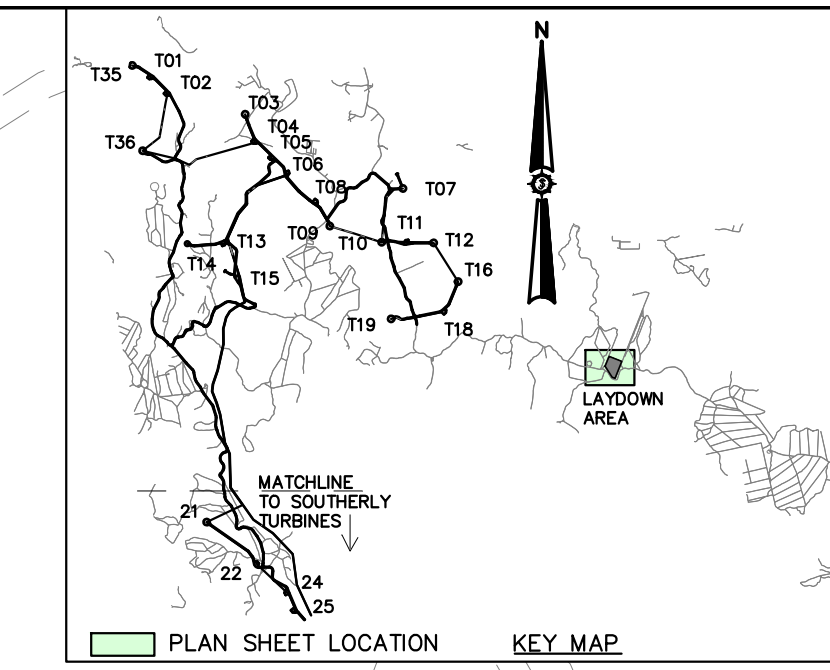
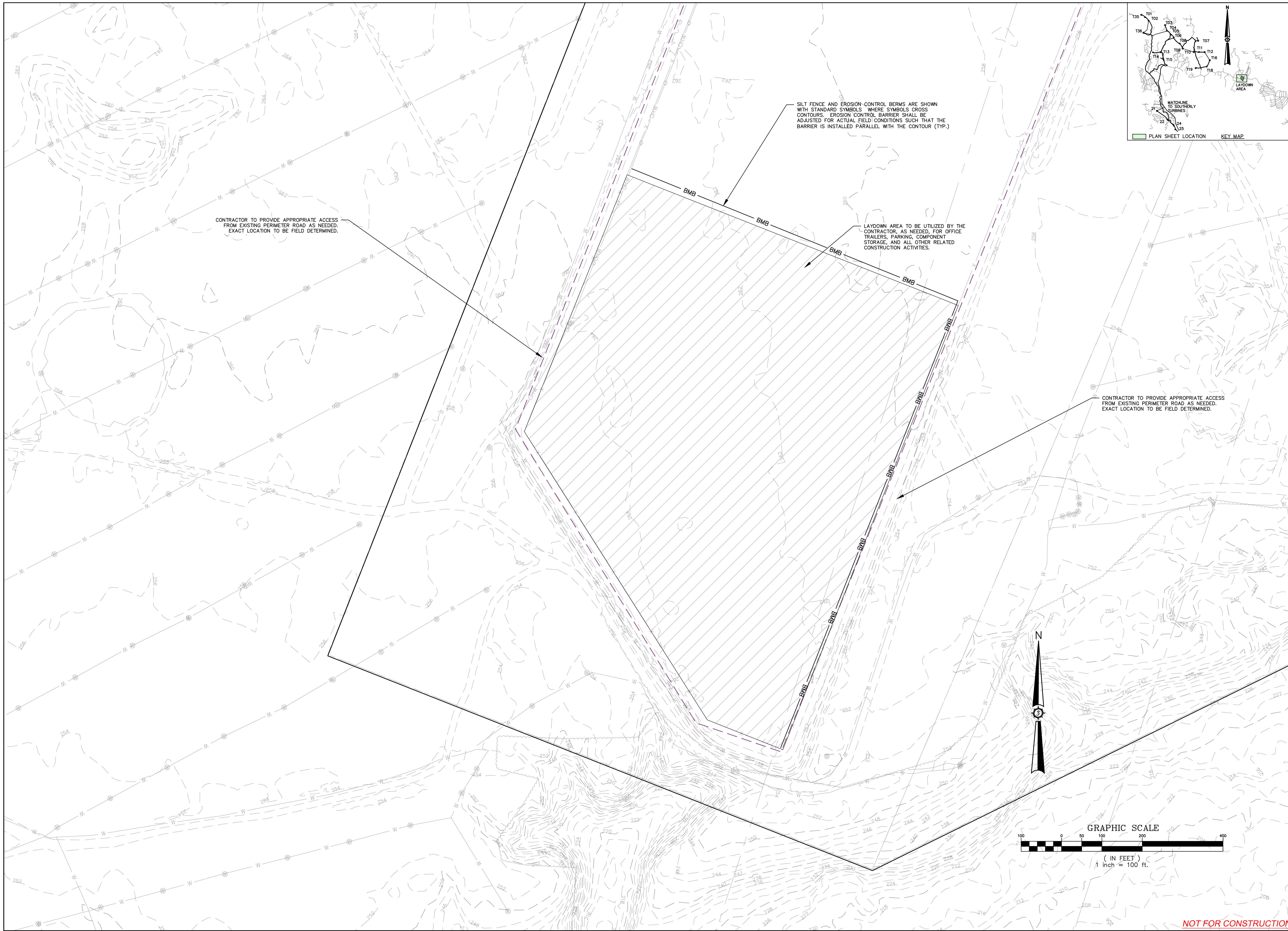
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Phase  
**PERMIT**

Sheet No.  
**2.5**

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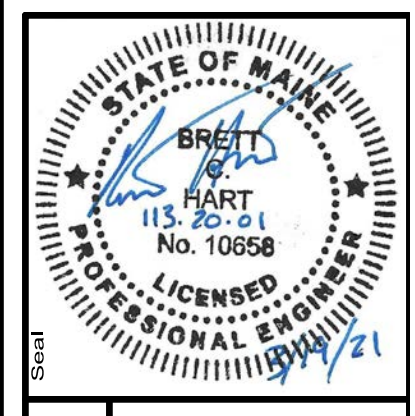




Date	Drawn By	Description
	MTEFB	

Designed By	BCH	Drawn By	MTEFB
Checked By	JSM	Date	03/19/2021
Scale			
Approved	BCH	Checked	JSM

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 LAYDOWN AREA

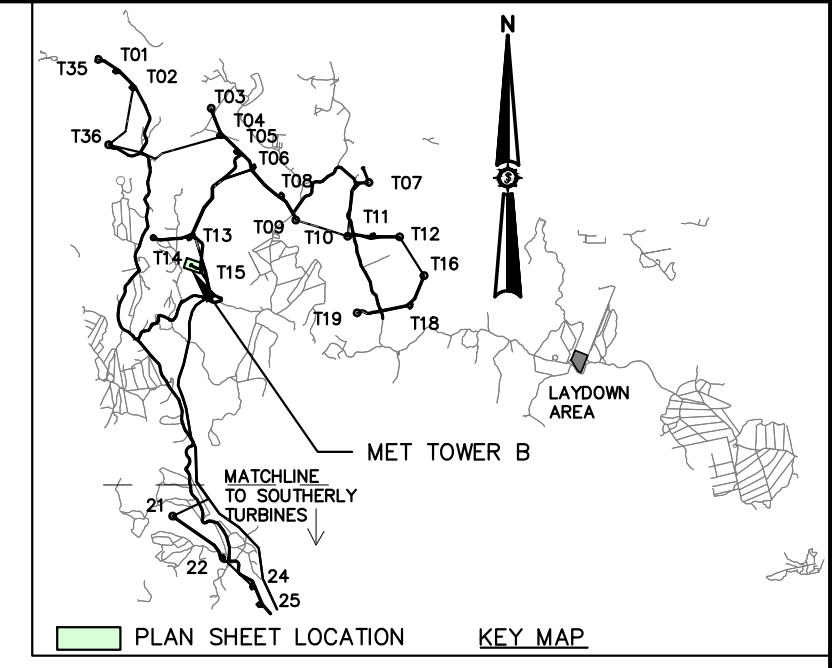
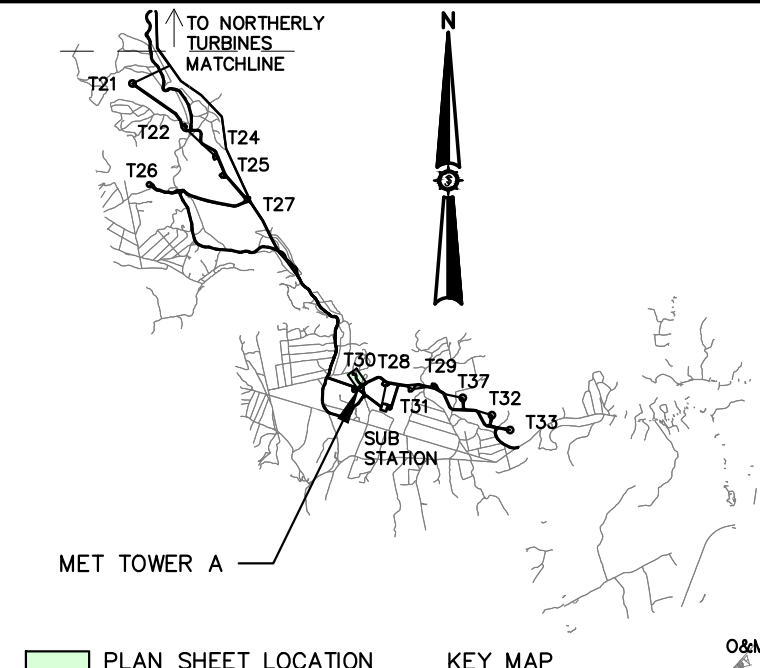
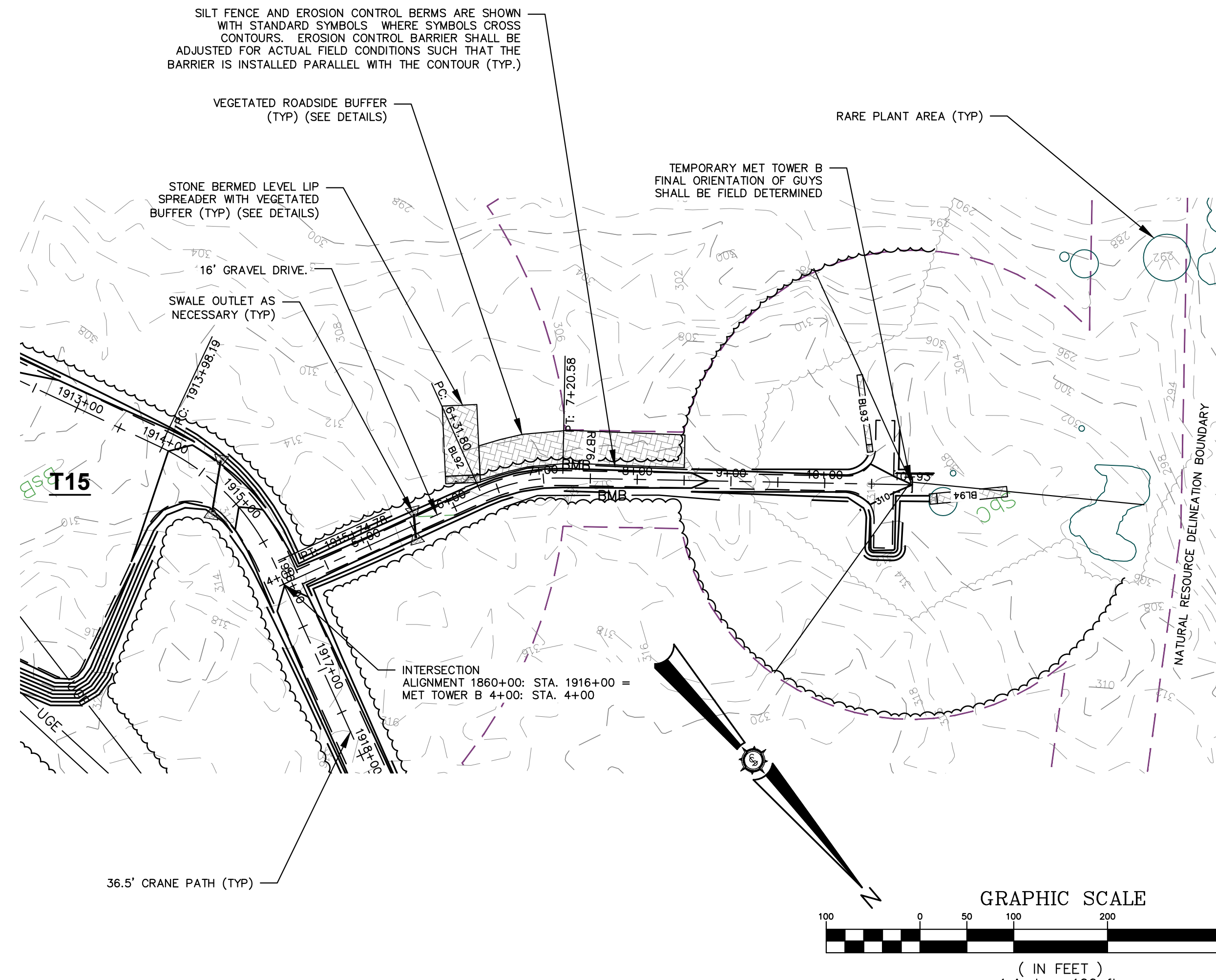
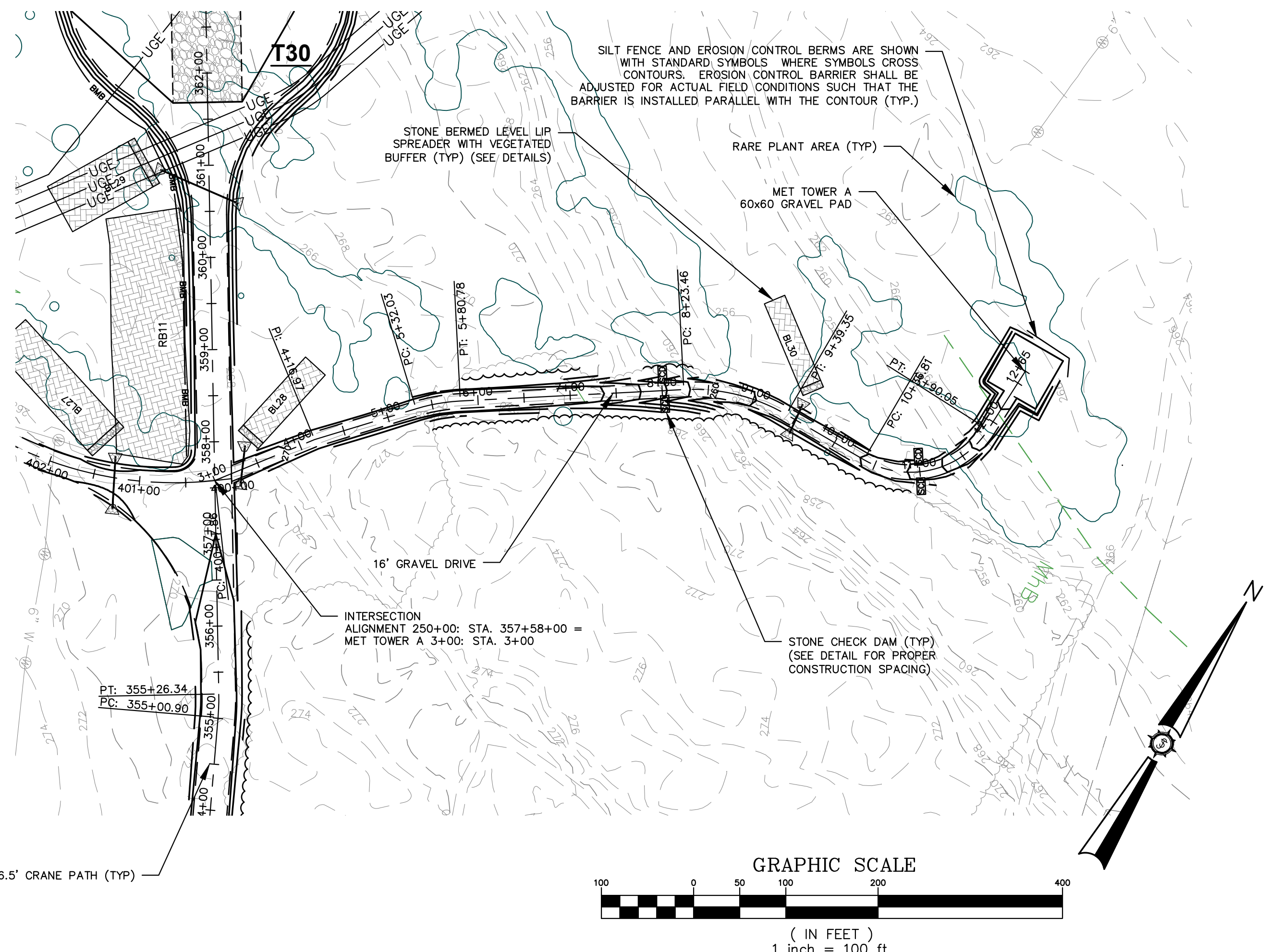


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Phase: PERMIT  
 Sheet No. 7.1

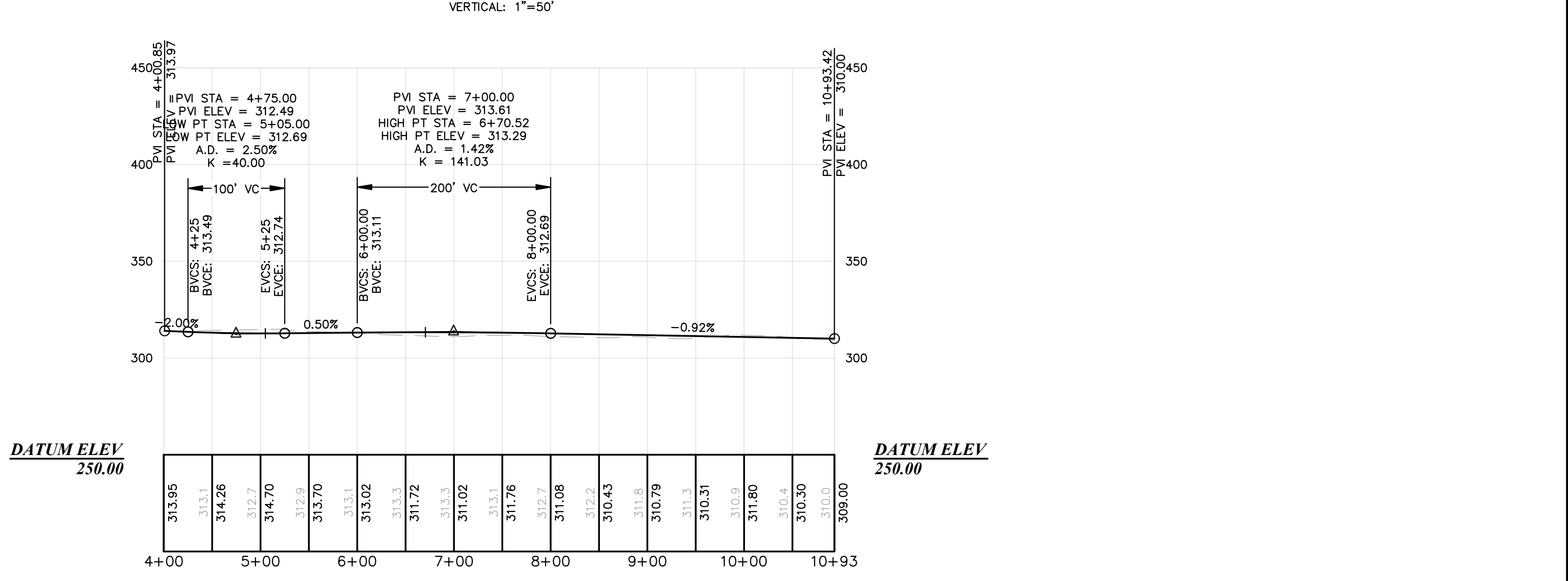
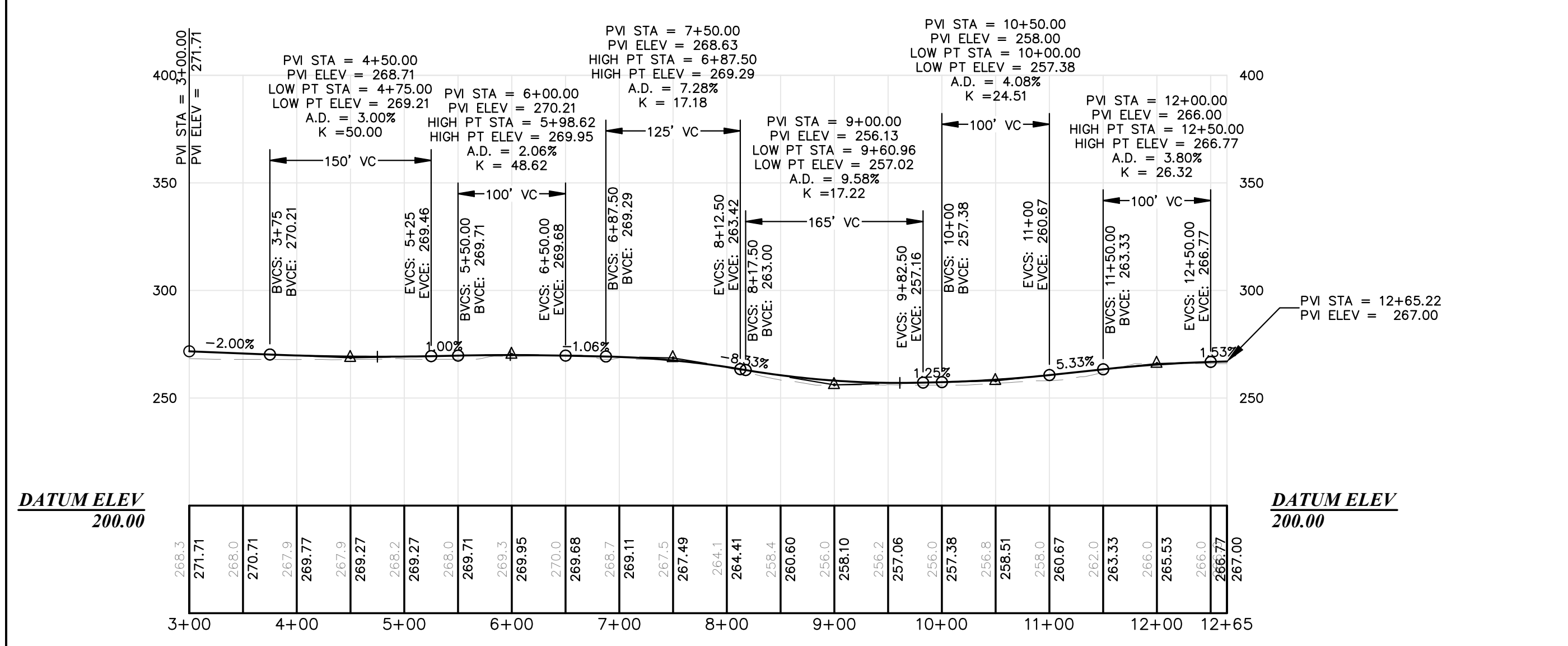
NOT FOR CONSTRUCTION





HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'  
**MET TOWER A**  
3+00.00 - 12+65.22

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'  
**MET TOWER B**  
4+00.00 - 10+93.42

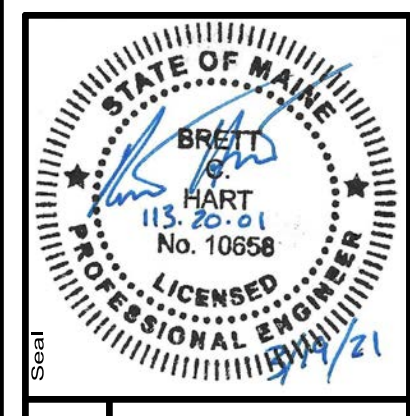


Drawn By	MITFB
Checked By	JSM
Approved By	BCH
Designated By	BCH
Date	03/19/2021
Scale	

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
CHARLOTTESVILLE, VA

Project Location  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawing Description  
**MET TOWERS**



113.20.01

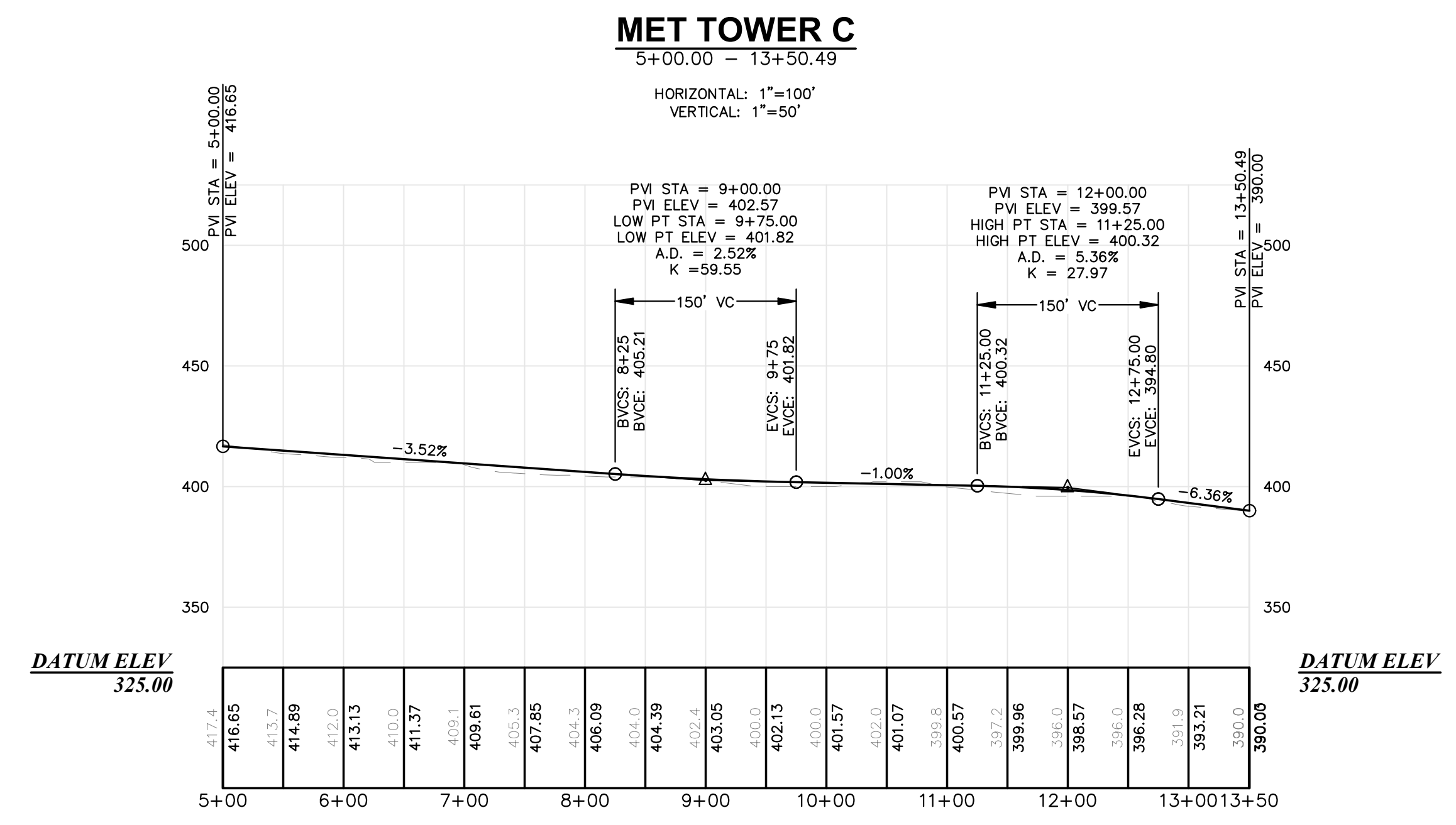
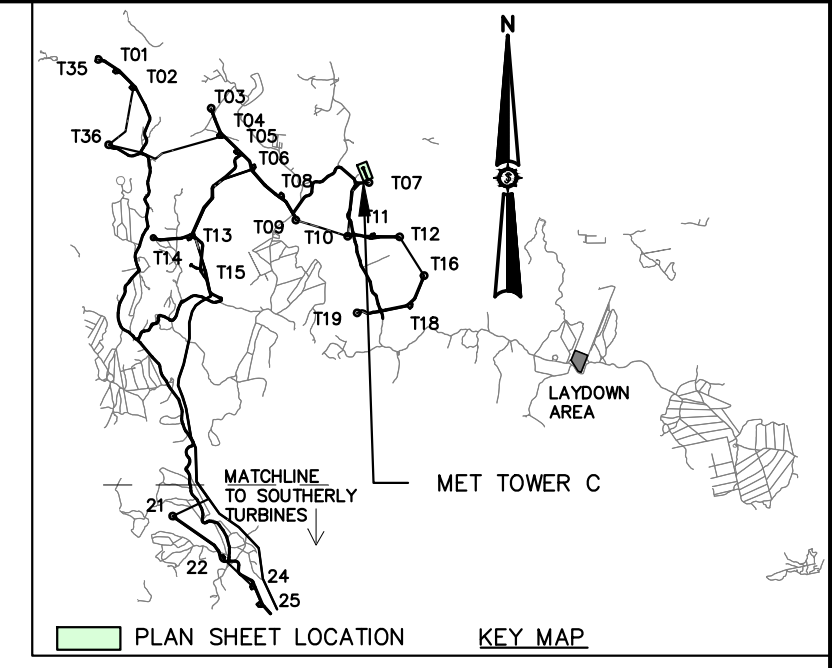
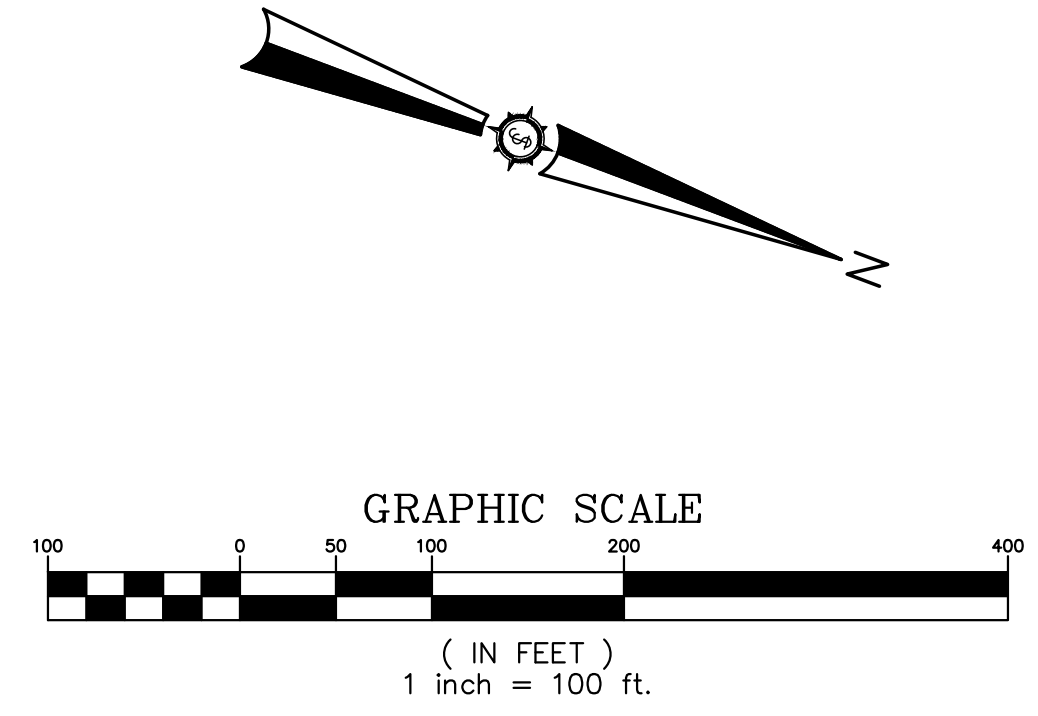
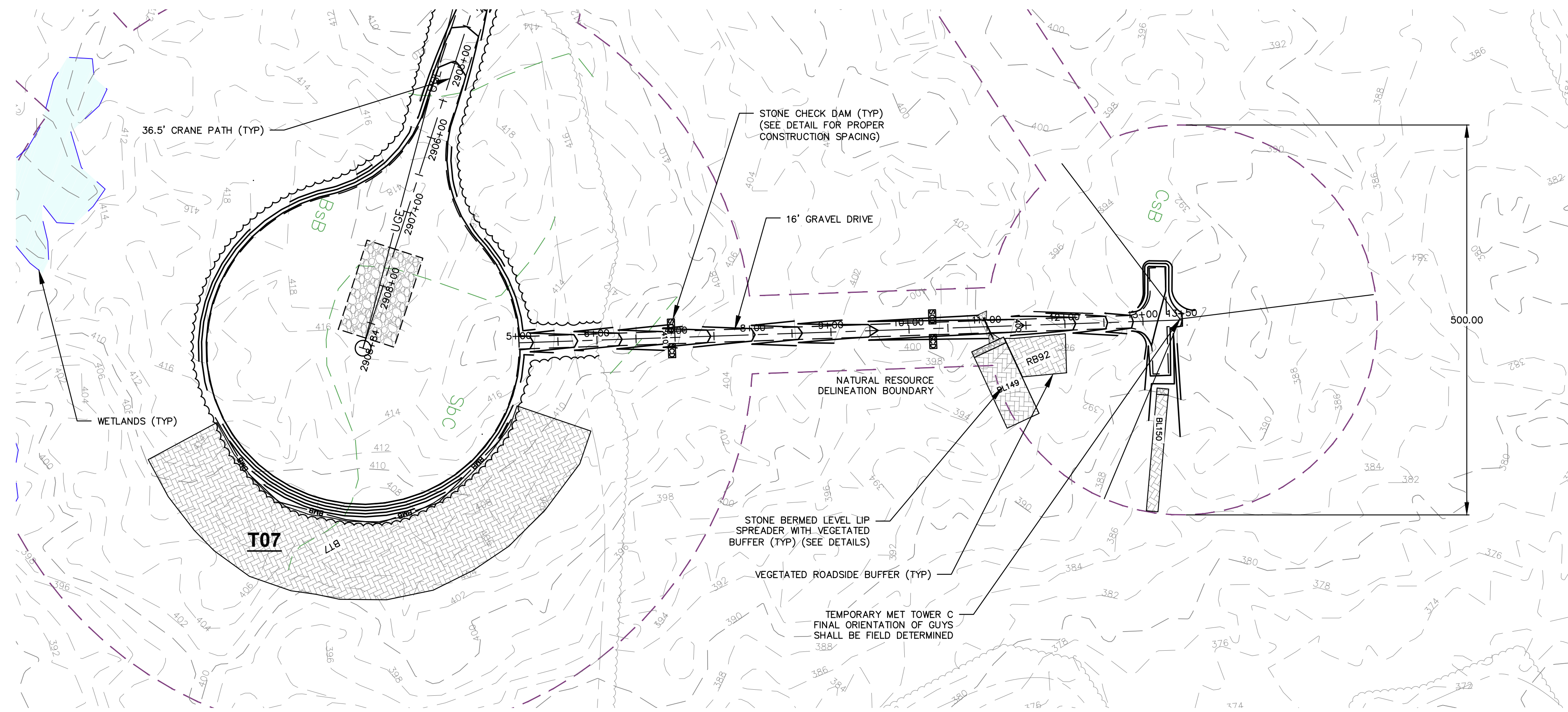
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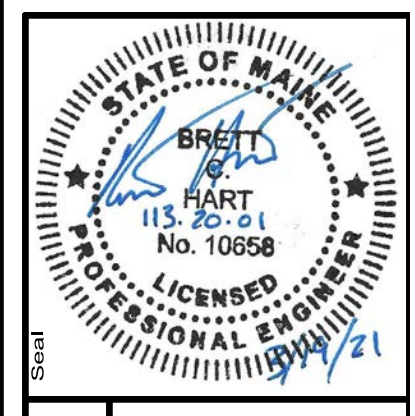




Rev. #	Drawn By	Description	Date

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Drawn By: MTFB  
Date: 03/19/2021  
Scale:   
Approved: BCH  
Checked: JSM

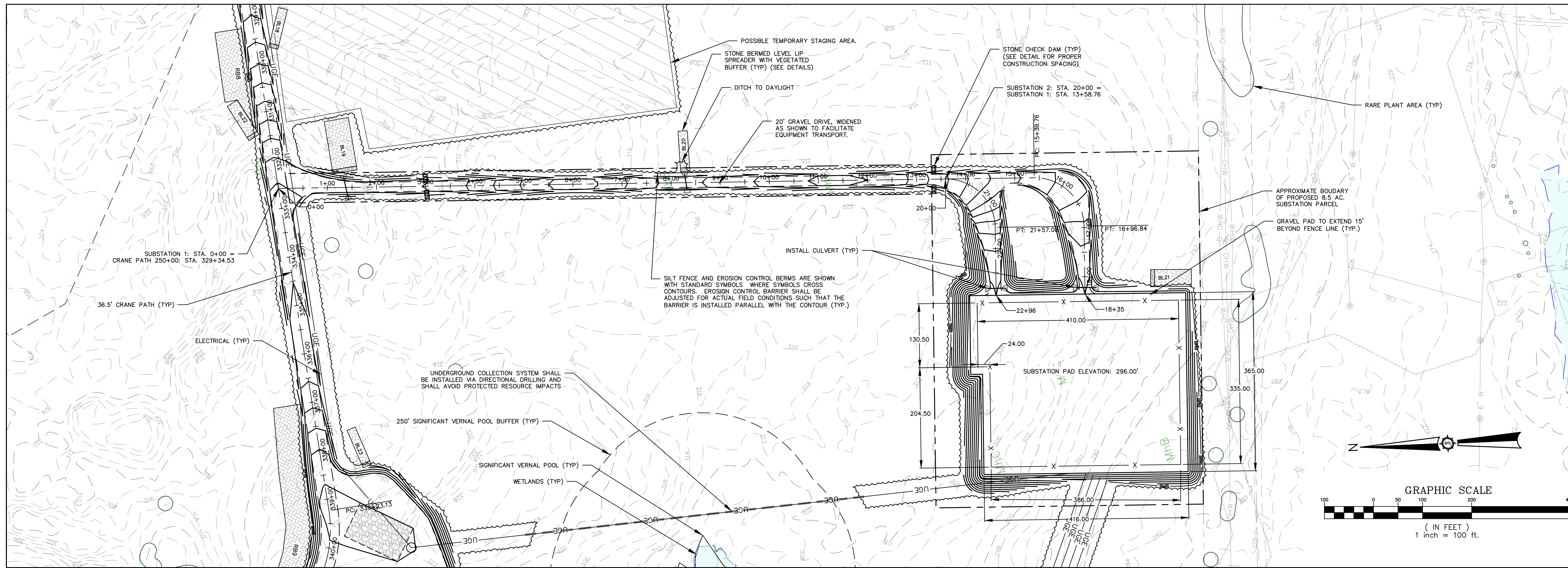
**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
Drawing Description: **MET TOWERS**



Project No.: 113.20.01  
Phase: SURVEYING  
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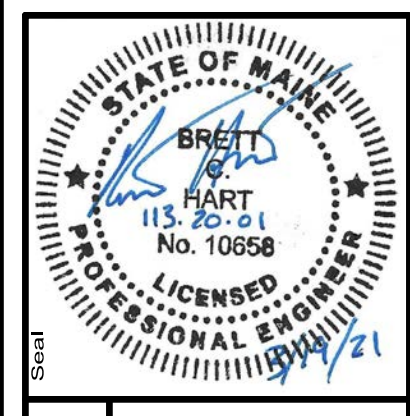




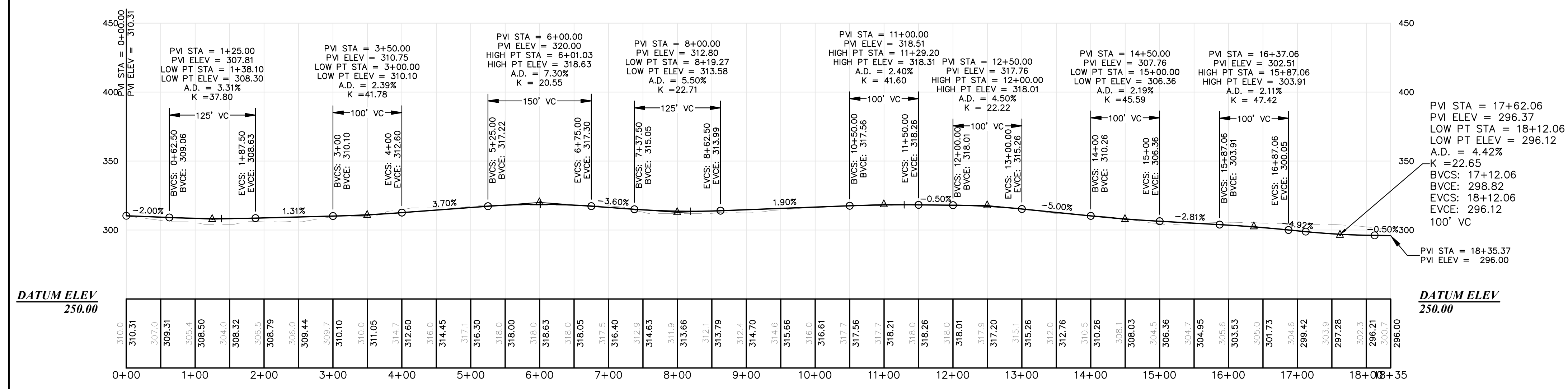
Drawn By	MIFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Approved	BCH
Drawing Description	

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 310 4th ST N.E., SUITE 200  
 CHARLOTTEVILLE, VA

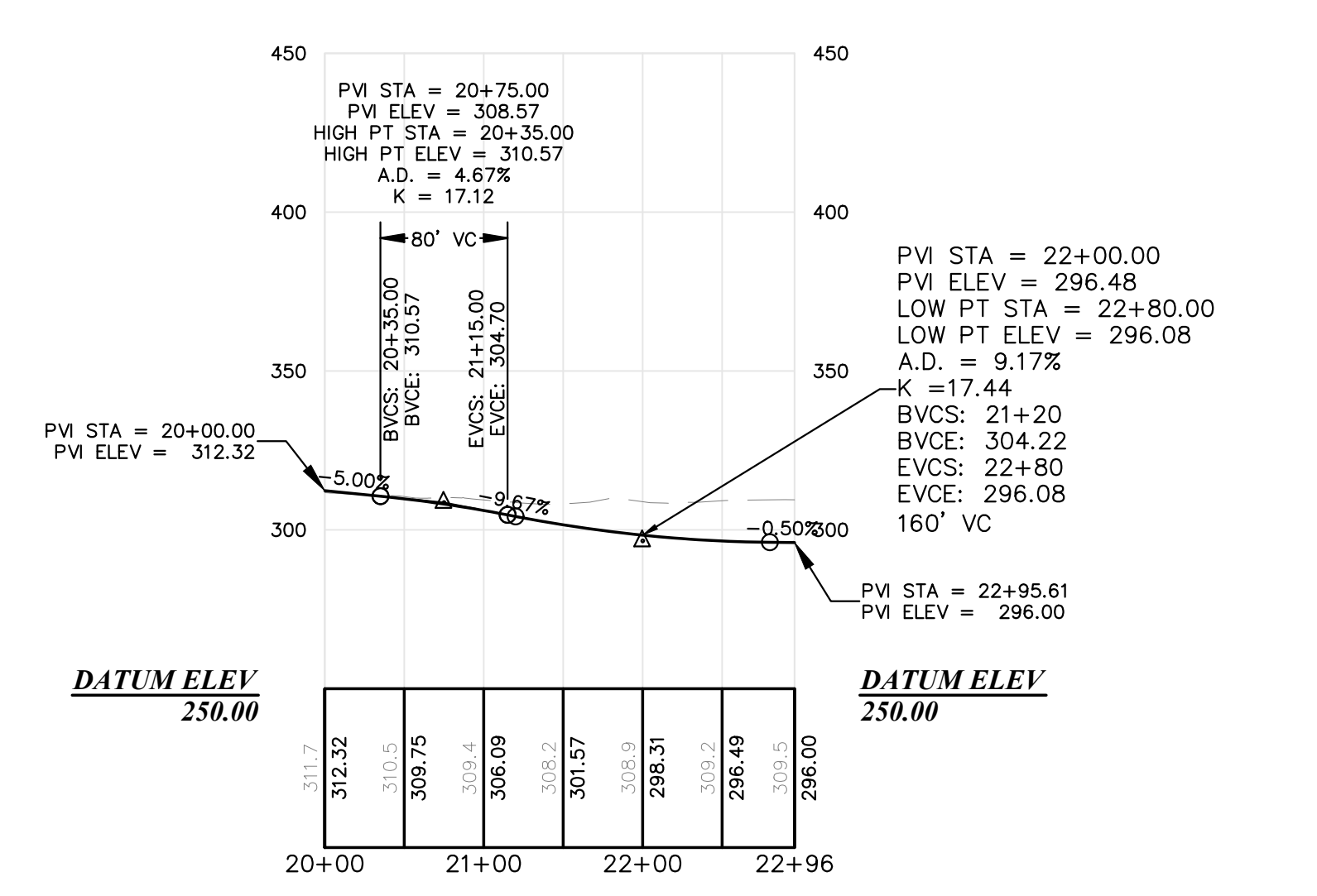
Substation



**SUBSTATION 1**  
 0+00.00 - 18+35.37



**SUBSTATION 2**  
 20+00.00 - 22+95.61

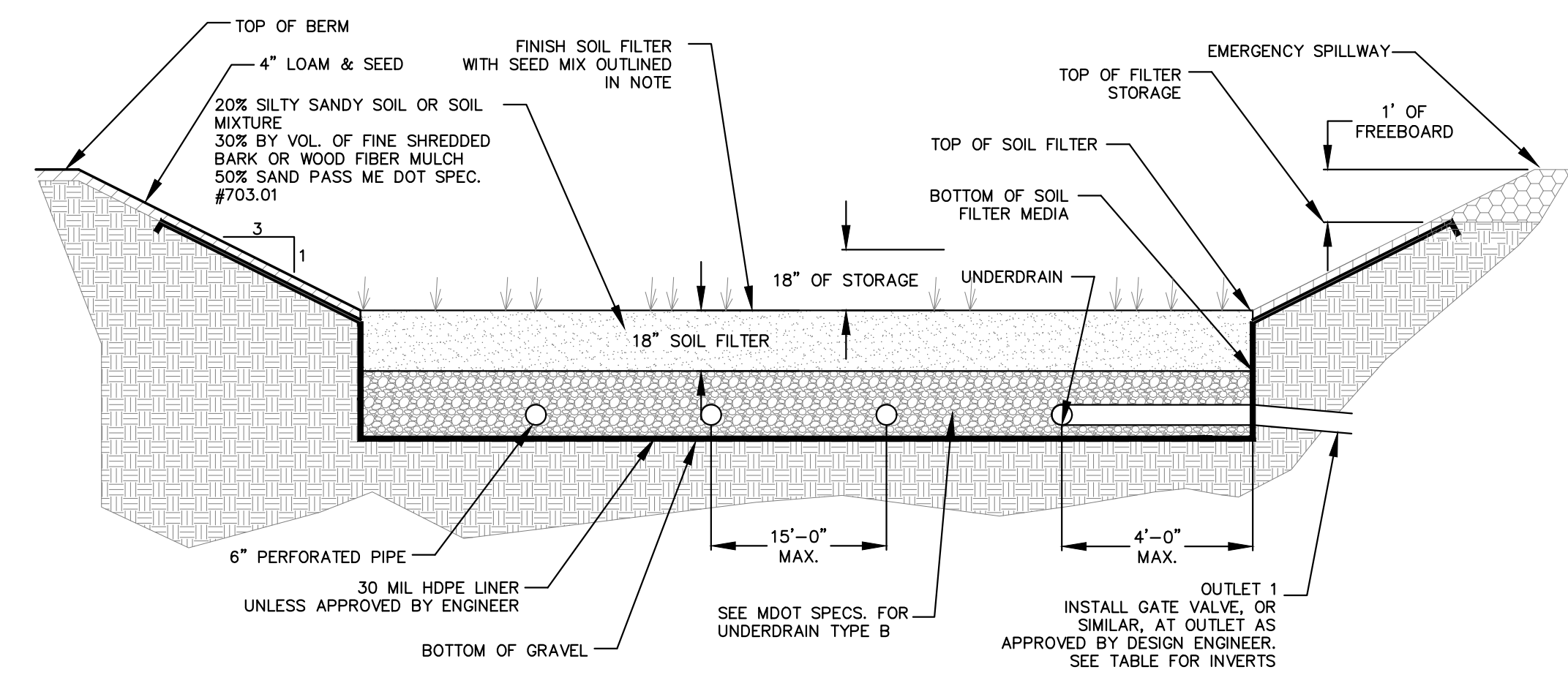
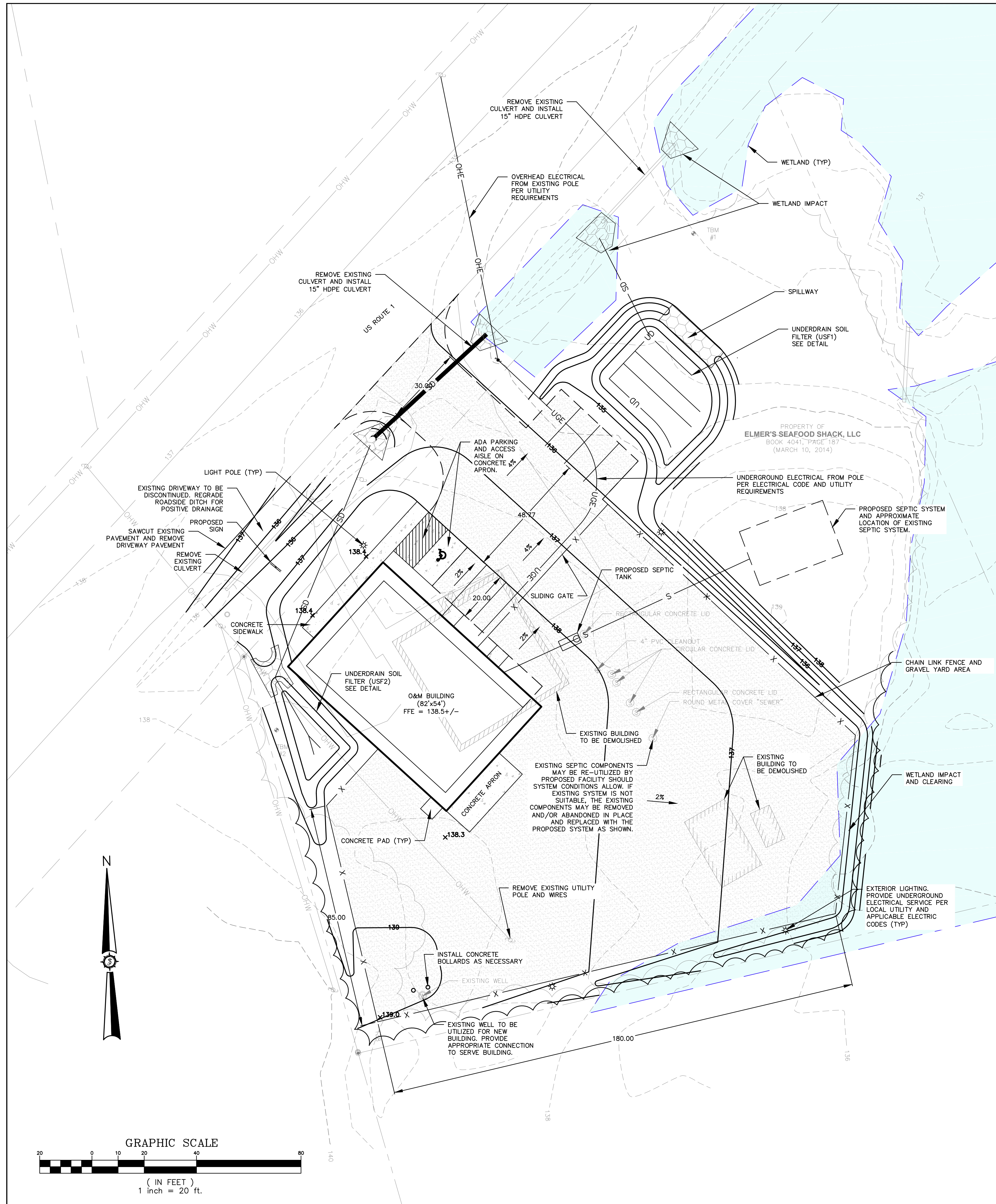


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 Sheet No. 9.1





ME DOT Specifications for Aggregate (MDDOT #703.01)

Sieve Size	% by Weight
#3/4"	100
#4	95-100
#8	80-100
#16	50-85
#30	25-60
#60	10-30
#100	2-10
#200	0-5

Sandy Loam to Fine Sandy Loam Specifications

Sieve Size	% by Weight
#4	75-95
#10	60-90
#40	35-85
#200	20-70
200(clay size)	<2.0

NOTE: UNDERDRAIN PIPE DIAMETER SHALL BE 6" UNLESS OTHERWISE NOTED.  
 THE UNDERDRAINED SOIL FILTER MUST BE PLANTED WITH A SPECIES TOLERANT OF FREQUENT INUNDATION SUCH AS A NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AS AVAILABLE FROM NEW ENGLAND WETLAND PLANTS, INC., AMHERST, MA, CONTAINING THE FOLLOWING:  
 UPLAND BENTGRASS, CREEPING BENTGRASS, FOX SEDGE, SOFT RUSH, GREEN BULRUSH, WOOL GRASS, GRASS-LEAVED GOLDENROD, BLUE VERVAIN, VIRGINIA WLD RYE, CREEPING RED FESCUE, SWITCH GRASS, LITTLE BLUESTEM, BONESET, SENSITIVE FERN, BIG BLUESTEM, NIAGRA NEW ENGLAND ASTER.  
 APPLIED AT A RATE OF 35 LBS/ACRE. LIGHTLY MULCH WITH CLEAN WEED FREE STRAW TO CONSERVE MOISTURE.

ME DOT Specifications for Underdrain Type B

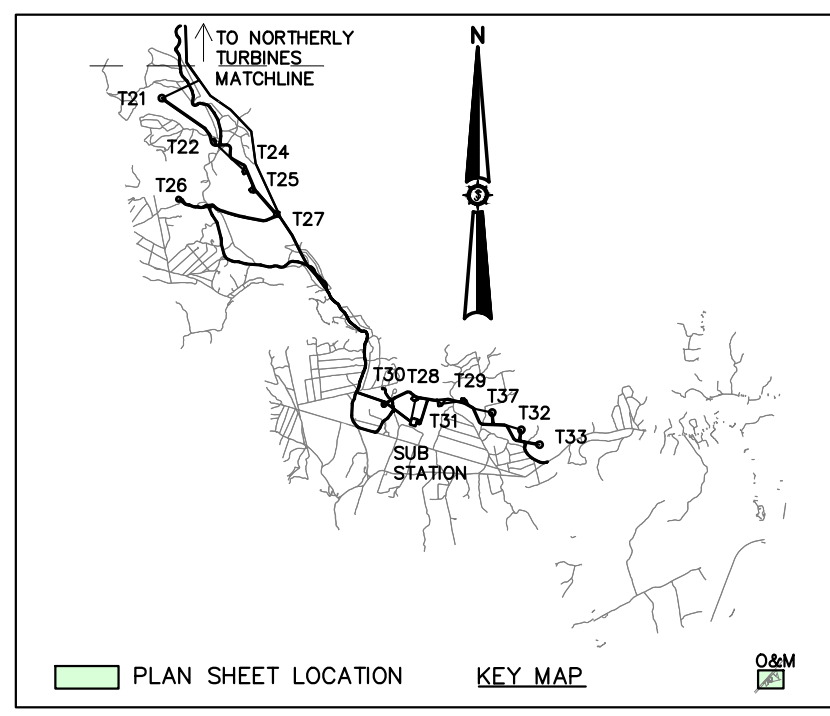
Sieve Size	% by Weight
1"	90-100
1/2"	75-100
#4	50-100
#20	15-80
#50	0-15
#200	0-5

	TOP OF BERM	TOP OF SPILLWAY ELEV./LENGTH	TOP OF SOIL FILTER	BOTTOM OF SOIL MEDIA	BOTTOM OF GRAVEL	OUTLET 1 (UD) DIA./LENGTH	OUTLET 1 (UD) ELEV. IN/OUT
USF 1	135.00	134.50/25 FT	133.00	131.50	130.33	4"/36 FT	130.67/130.30
USF 2	137.50	137.00/15 FT	135.50	134.00	132.83	4"/100 FT	133.17/132.17

GENERAL NOTES FOR UNDERDRAIN FILTER BASINS:

- CONSTRUCTION SEQUENCE:**
1. THE SOIL FILTER MEDIA AND VEGETATION MUST NOT BE INSTALLED UNTIL THE AREA THAT DRAINS TO THE FILTER HAS BEEN PERMANENTLY STABILIZED WITH PAVEMENT OR OTHER STRUCTURE, 90% VEGETATION COVER, OR OTHER PERMANENT STABILIZATION UNLESS THE RUNOFF FROM THE CONTRIBUTING AREA IS DIVERTED AROUND THE FILTER INTO A TEMPORARY BASIN FOR SEDIMENT REMOVAL UNTIL STABILIZATION IS COMPLETED.
- COMPACTION OF SOIL FILTER:**
1. FILTER SOIL MEDIA AND UNDERDRAIN BEDDING MATERIAL MUST BE COMPACTED TO BETWEEN 90% AND 92% STANDARD PROCTOR. THE BED SHOULD BE INSTALLED IN AT LEAST TWO LIFTS OF 9 INCHES TO PREVENT POCKETS OF LOOSE MEDIA.
- CONSTRUCTION OVERSIGHT - INSPECTION BY A PROFESSIONAL ENGINEER WILL OCCUR AT A MINIMUM:**
1. AFTER THE PRELIMINARY CONSTRUCTION OF THE FILTER GRADES AND ONCE THE UNDERDRAIN PIPES ARE INSTALLED BUT NOT BACKFILLED.
  2. AFTER THE DRAINAGE LAYER IS CONSTRUCTED AND PRIOR TO THE INSTALLATION OF THE FILTER MEDIA.
  3. AFTER THE FILTER MEDIA HAS BEEN INSTALLED AND SEEDED. BIO-RETENTION CELLS MUST BE STABILIZED PER THE PROVIDED PLANTING SCHEME AND DENSITY FOR THE CANOPY COVERAGE OF 30 AND 50%.
  4. WITHIN 30 DAYS OF COMPLETION OF THE UNDERDRAINED FILTER BASIN, THE APPLICANT MUST SUBMIT A LOG OF INSPECTION REPORTS DETAILING THE ITEMS INSPECTED, PHOTOS TAKEN, AND THE DATES OF EACH INSPECTION TO THE BUREAU OF LAND RESOURCES FOR REVIEW.
  5. AFTER ONE YEAR TO INSPECT HEALTH OF THE VEGETATION AND MAKE CORRECTIONS, AND ALL MATERIAL USED FOR THE CONSTRUCTION OF THE FILTER BASIN MUST BE CONFIRMED AS SUITABLE BY THE DESIGN ENGINEER. TESTING MUST BE DONE BY A CERTIFIED LABORATORY TO SHOW THAT THEY HAVE PASSED DEP SPECIFICATIONS.
- TESTING AND SUBMITTALS:**
1. THE CONTRACTOR SHALL IDENTIFY THE LOCATION AND SOURCE OF EACH COMPONENT OF THE FILTER MEDIA. ALL RESULTS OF FIELD AND LABORATORY TESTING SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR CONFIRMATION. THE CONTRACTOR SHALL:
    - A. SELECT SAMPLES FOR SAMPLING OF EACH TYPE OF MATERIAL TO BE BLENDED FOR THE MIXED FILTER MEDIA AND SAMPLES OF THE UNDERDRAIN BEDDING MATERIAL. SAMPLES MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS (GRABS) FROM THE STOCKPILE OR PIT FACE. SAMPLE SIZE REQUIRED WILL BE DETERMINED BY THE TESTING LABORATORY.
    - B. PERFORM A SIEVE ANALYSIS CONFORMING TO ASTM C136 (STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COURSE AGGREGATES 1996A) ON EACH TYPE OF THE SAMPLE MATERIAL. THE RESULTING SOIL FILTER MEDIA MIXTURE MUST HAVE 8% TO 12% BY WEIGHT PASSING THE #200 SIEVE, A CLAY CONTENT OF LESS THAN 2% (DETERMINED HYDROMETER GRAIN SIZE ANALYSIS) AND HAVE 10% DRY WEIGHT OF ORGANIC MATTER.
    - C. PERFORM A PERMEABILITY TEST ON THE SOIL FILTER MEDIA MIXTURE CONFORMING TO ASTM D2434 WITH THE MIXTURE COMPACTED TO 90-92% OF MAXIMUM DRY DENSITY BASED ON ASTM D698.
- OUTLET VALVE SETTING:**
1. SET VALVE AT THE OUTLET TO THE CLOSED POSITION.
  2. INSPECT SOIL FILTER AFTER RAIN EVENT, ONCE THE SOIL FILTER IS FULL OF WATER OPEN THE VALVE. NOTE THE TIME THAT THE VALVE WAS OPENED AND THE POSITION OF THE VALVE.
  3. CHECK THE SOIL FILTER 24 HOURS AFTER THE VALVE WAS OPENED. AT THE 24 HOUR MARK WATER SHOULD STILL BE COMING OUT OF THE OUTLET.
  4. CHECK THE FILTER AGAIN IN ANOTHER 24 HOURS (48 HOURS FROM THE VALVE BEING OPENED). AT THIS TIME THERE SHOULD BE NO MORE WATER COMING OUT OF THE OUTLET.
  5. THIS PROCESS SHOULD BE REPEATED UNTIL THE VALVE IS AT THE CORRECT POSITION SUCH THAT THE WATER DOES NOT DRAIN FROM THE FILTER BEFORE 24 HOURS BUT IS DRAINED BY 48 HOURS.
  6. MARK THE FINAL VALVE POSITION. CONTINUE THE REGULAR INSPECTIONS AND MAINTENANCE.

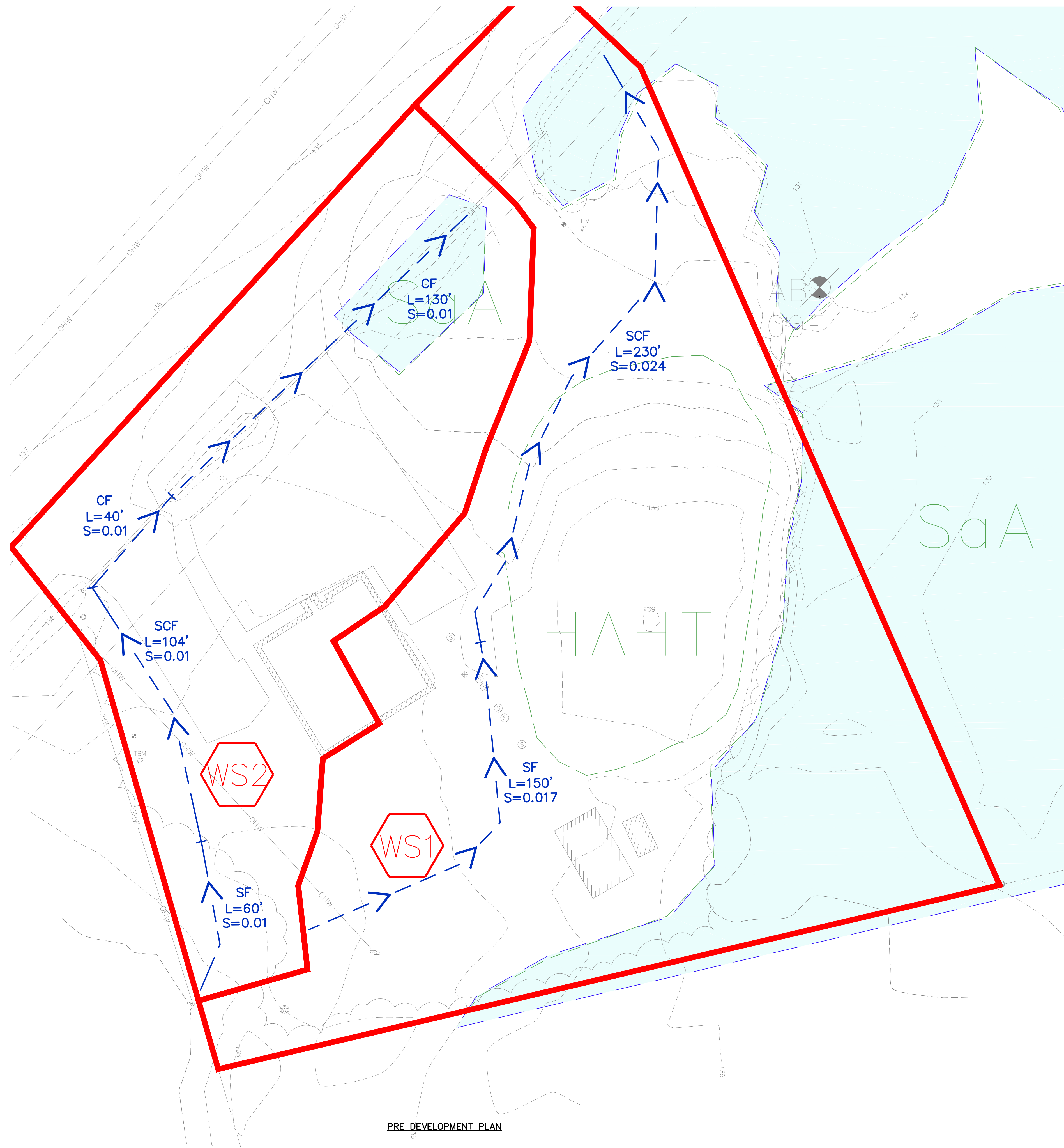
TYPICAL UNDERDRAIN SOIL FILTER  
 NOT TO SCALE



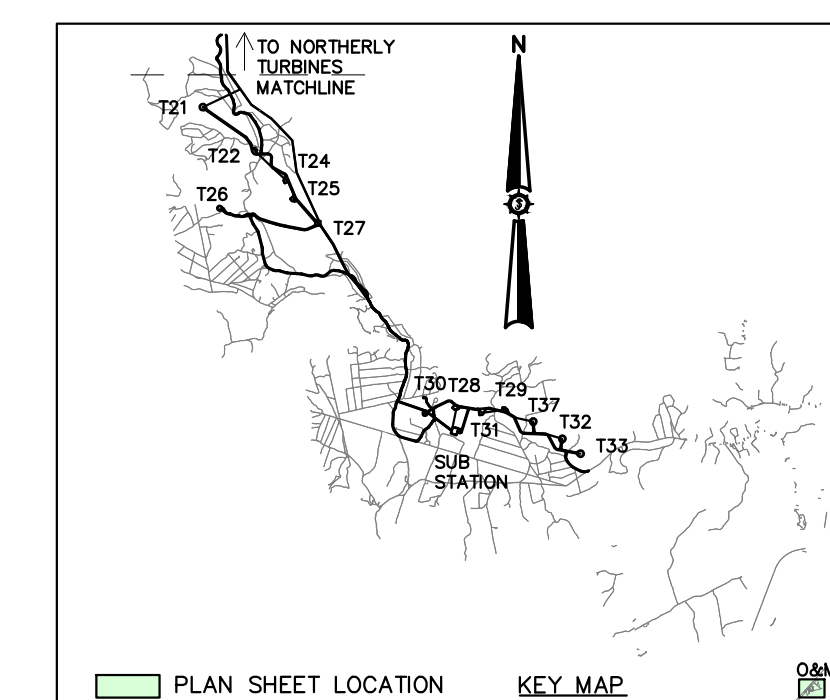
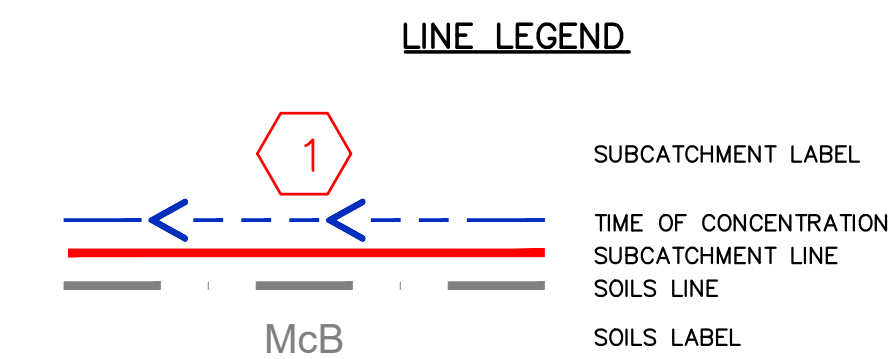
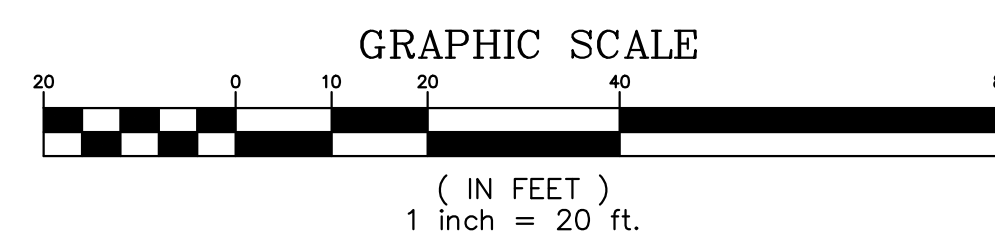
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 Checked By: JSM  
 Designated By: BCH  
 Scale: 03/19/2021  
 Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 Drawing Description: O&M  
 State of Maine Professional Engineer License No. 10858  
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 Phase: PERMIT  
 Sheet No.: 9.2

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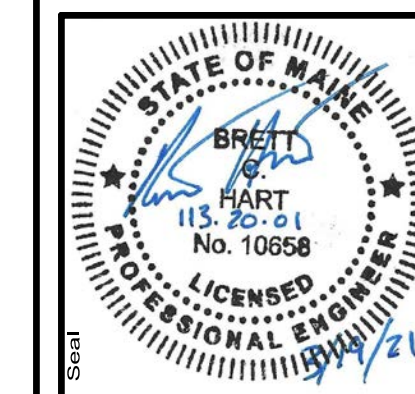
PRE DEVELOPMENT PLAN



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Rev. #	Drawn By	Description	Date

Designed By BCH	Drawn By MTFB
Date 03/19/2021	Scale
Project Location COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE	
Approved BCH	Checked JSM



Project No. 113.20.01

ENGINEERING SURVEYING

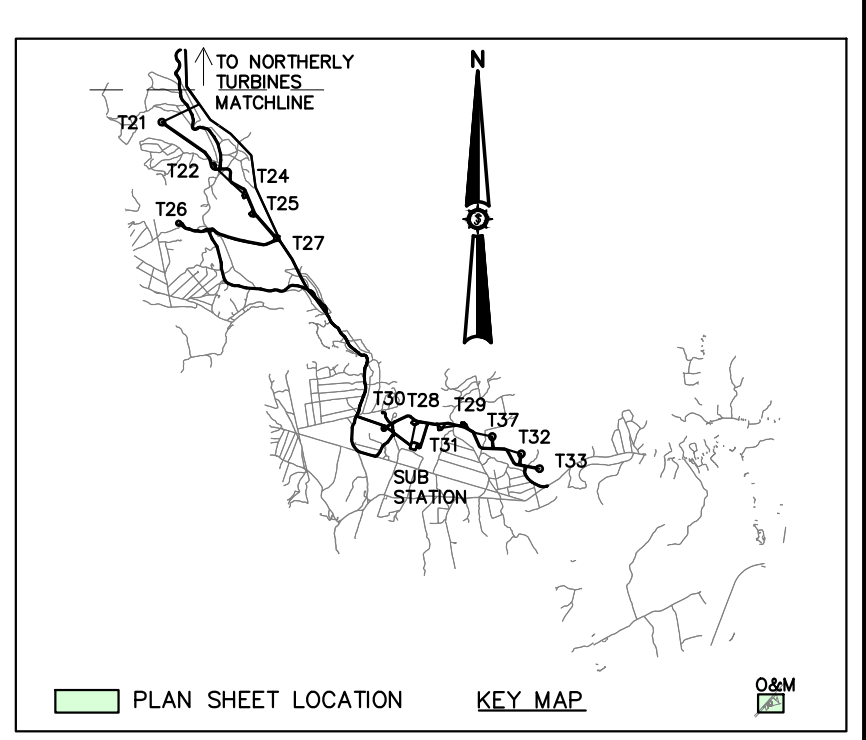
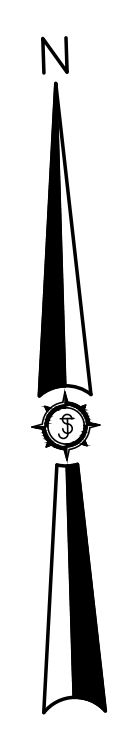
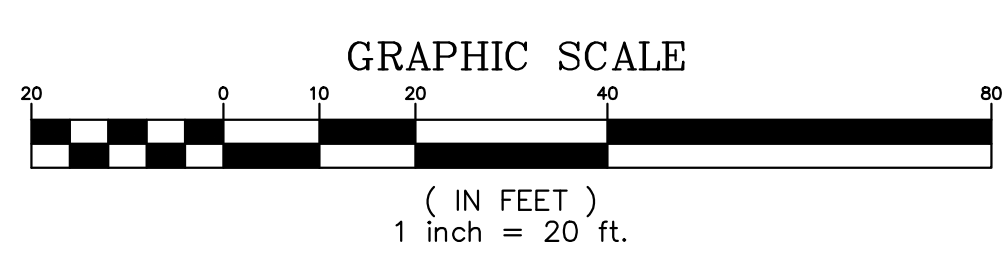
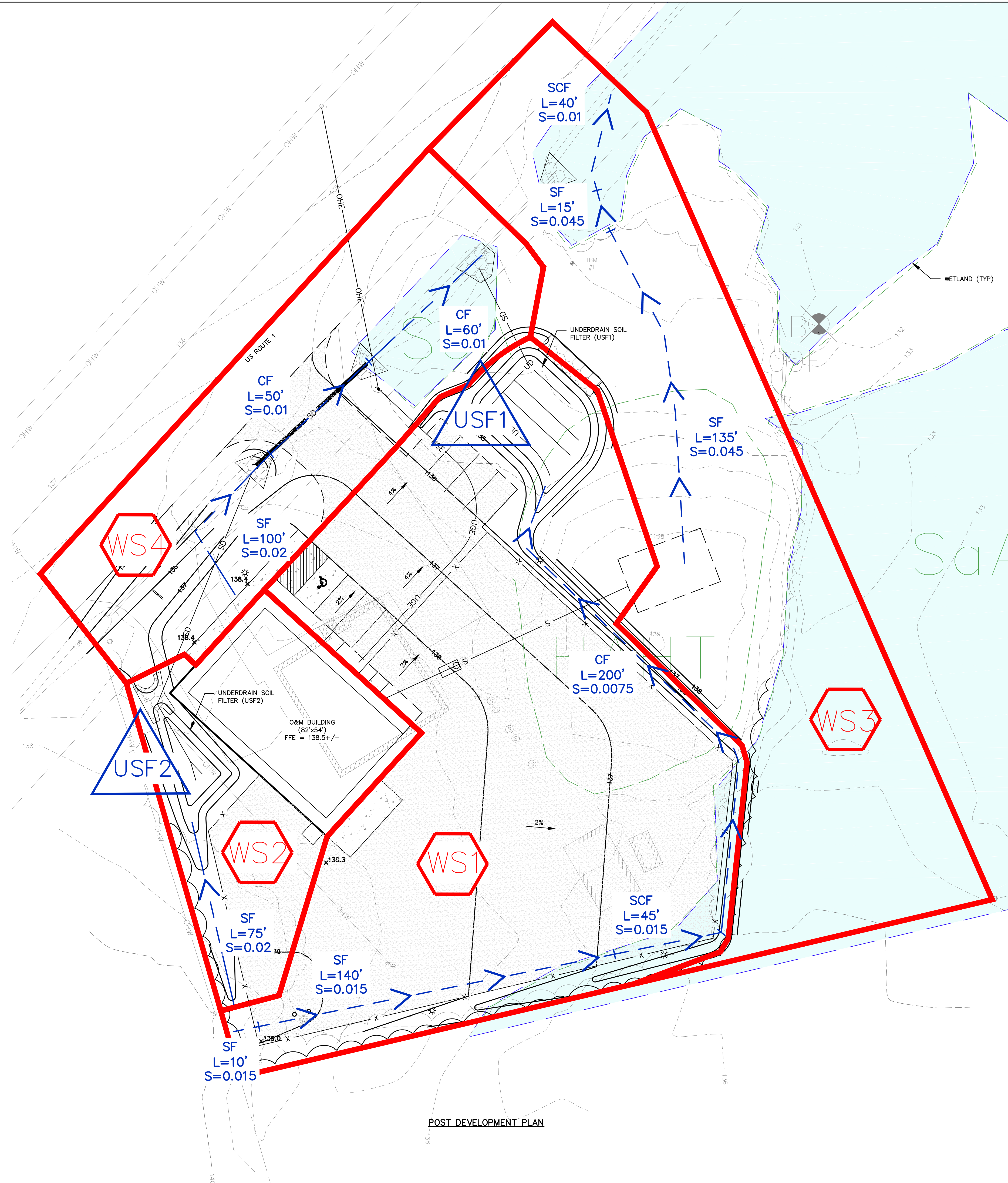
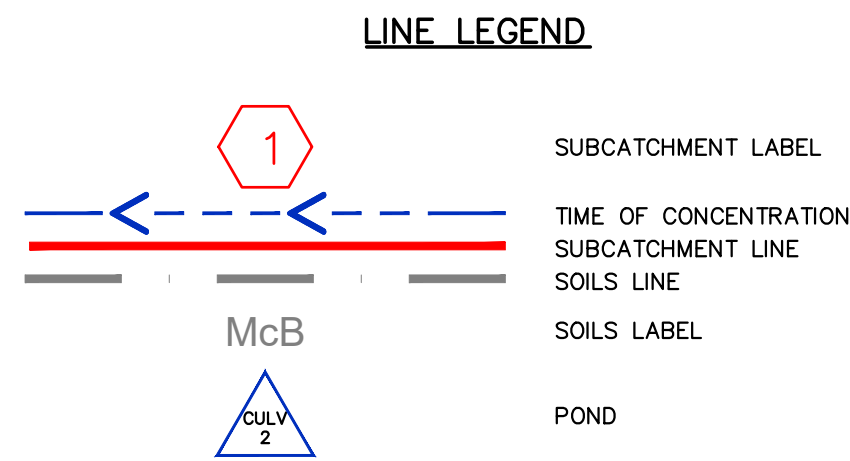
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Phase  
**PERMIT**

Sheet No.  
**9.3**





POST DEVELOPMENT PLAN

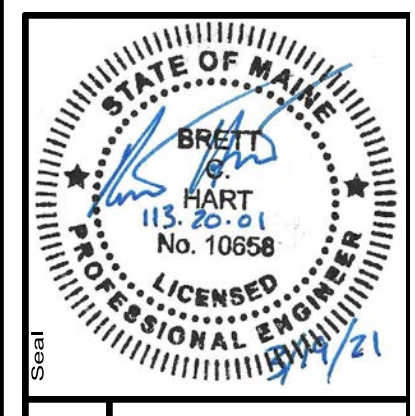
Rev.	Date	By	Description

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawn By: MITFB  
Design By: BCH  
Date: 03/19/2021  
Scale:      

Approved: BCH  
Checked: JSM

**O&M POST DEVELOPMENT DRAINAGE PLAN**



113.20.01

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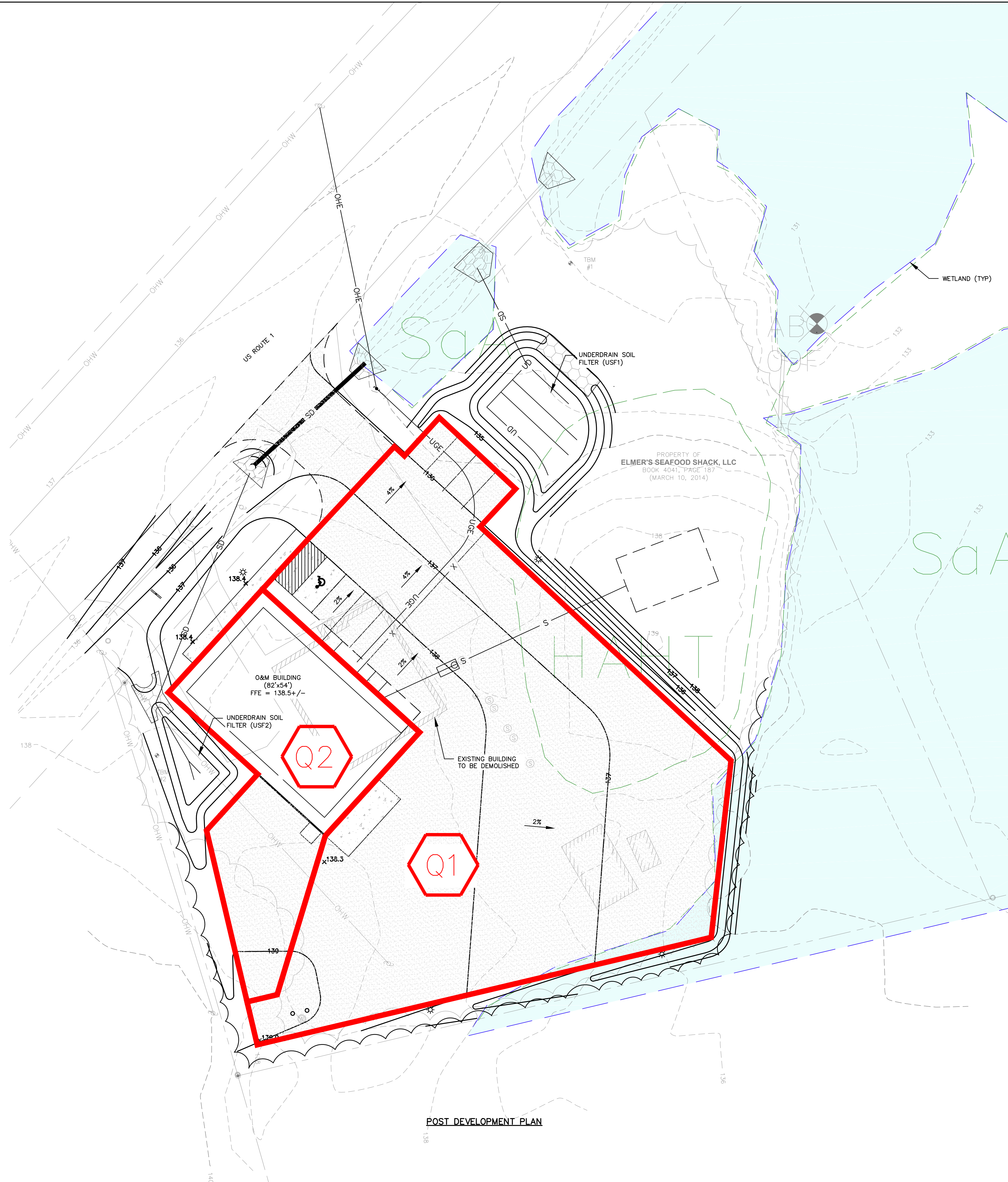
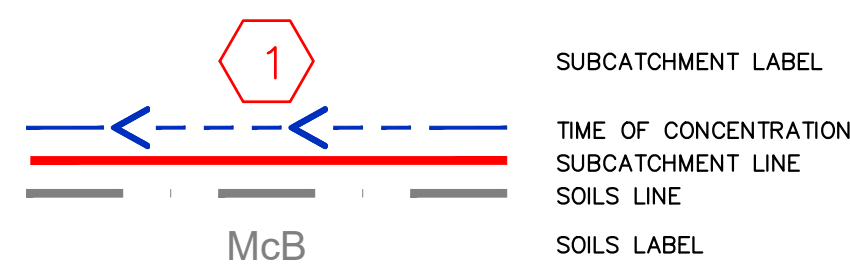
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Sheet No. **9.4**

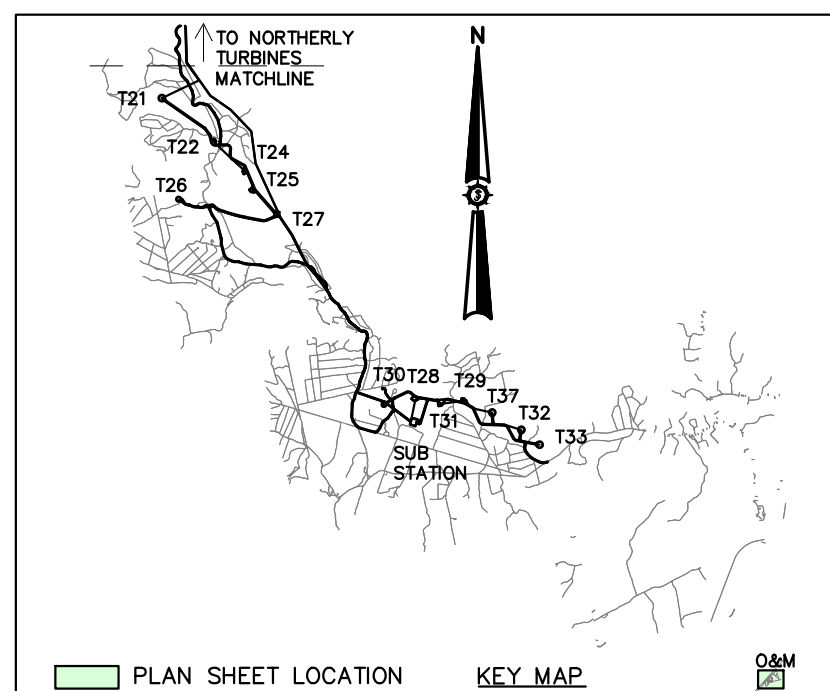
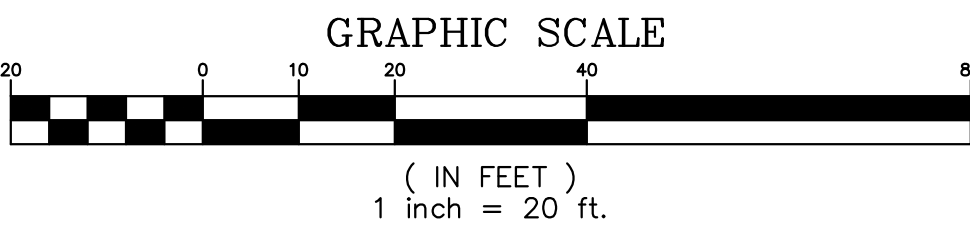
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LINE LEGEND



POST DEVELOPMENT PLAN



NOT FOR CONSTRUCTION

Rev. #	Drawn By	Description	Date

**DESIGNED BY**  
BCH

**DRAWN BY**  
MITFB

**DATE**  
03/19/2021

**SCALE**  
AS SHOWN

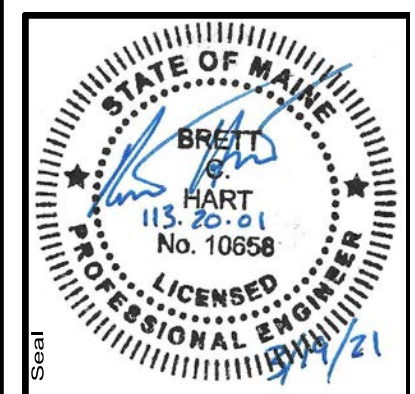
**APPROVED BY**  
BCH

**CHECKED BY**  
JSM

**PROJECT LOCATION**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

**PROJECT NAME**  
APEX CLEAN ENERGY, INC.  
DOWNEAST WIND FARM

**PROJECT DESCRIPTION**  
O&M POST DEVELOPMENT QUALITY  
DRAINAGE PLAN



Project No. 113.20.01

ENGINEERING SURVEYING

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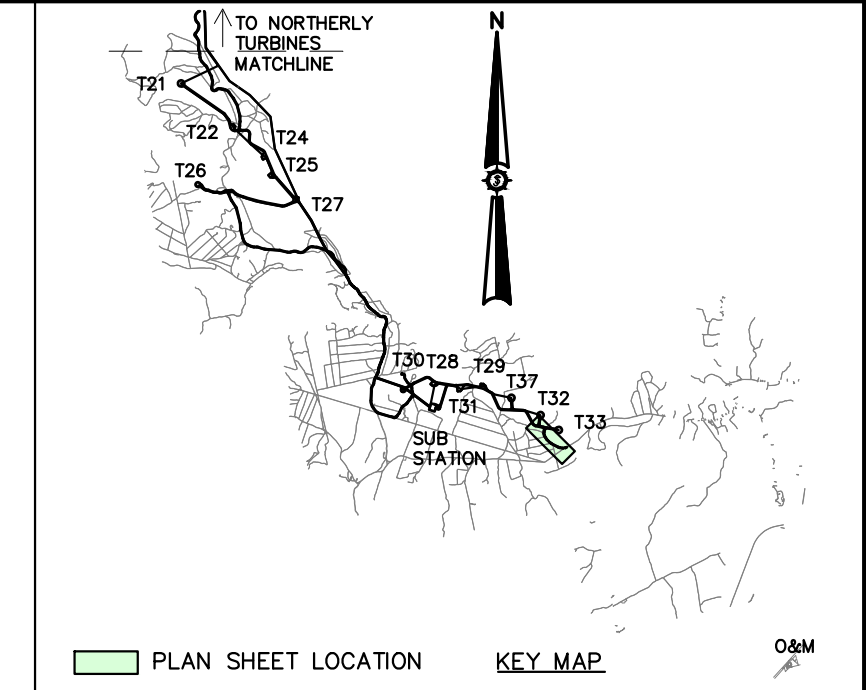
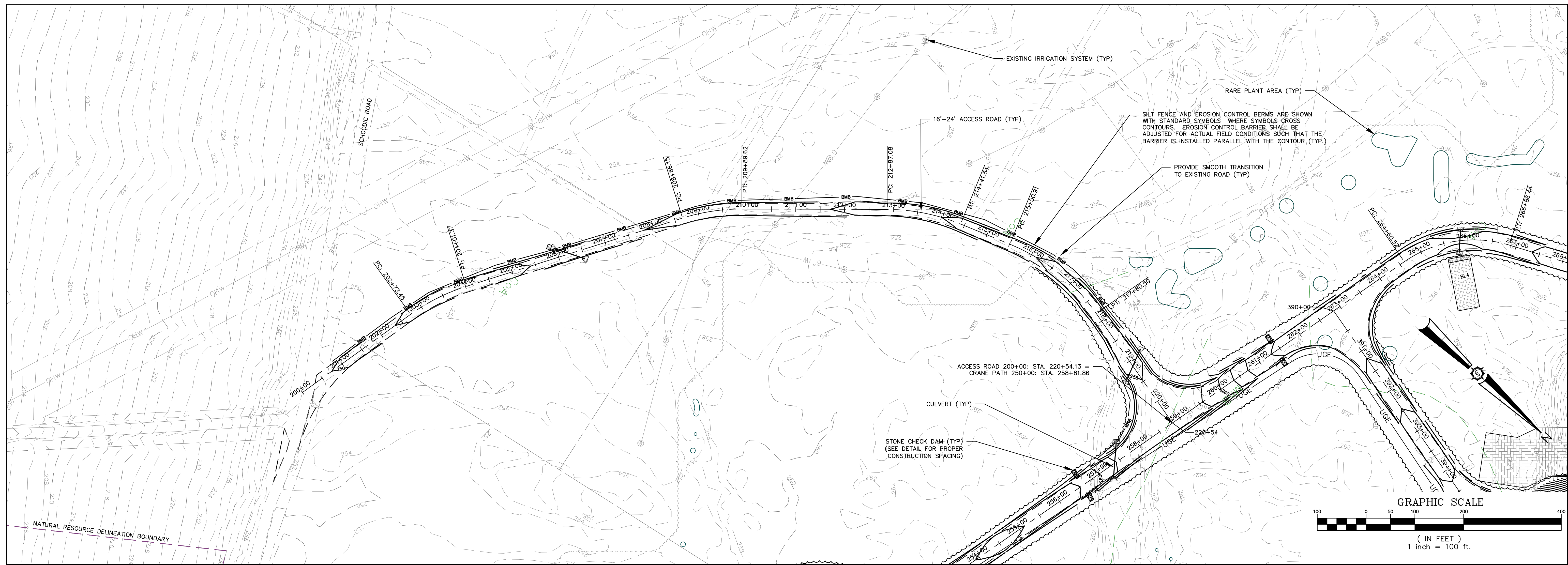
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PERMIT

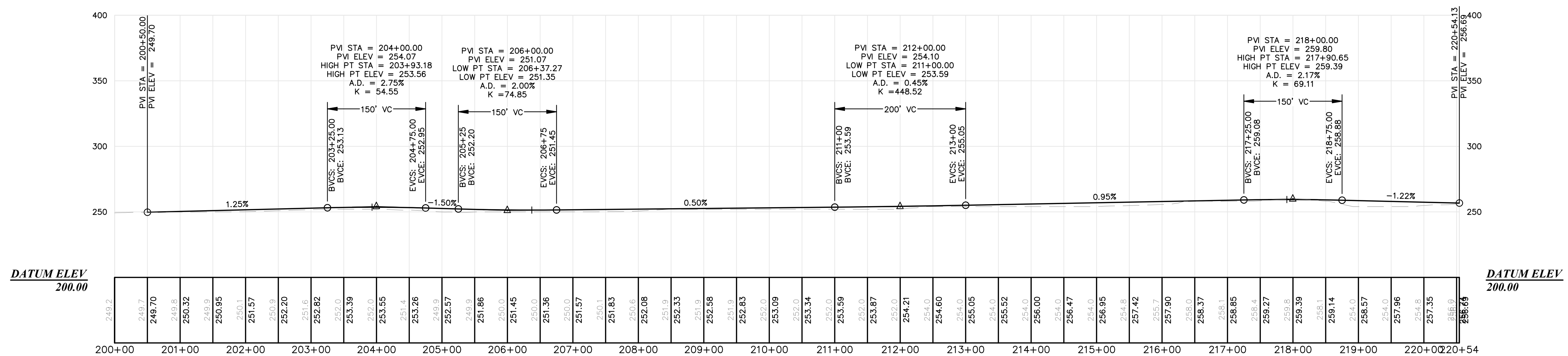
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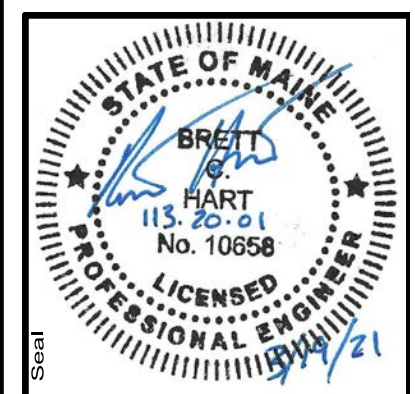


Drawn By	MITFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Approved	BCH
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	PLAN AND PROFILE

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawing Description: PLAN AND PROFILE



Project No. 113.20.01

Phase: PERMIT

Sheet No. 10.1

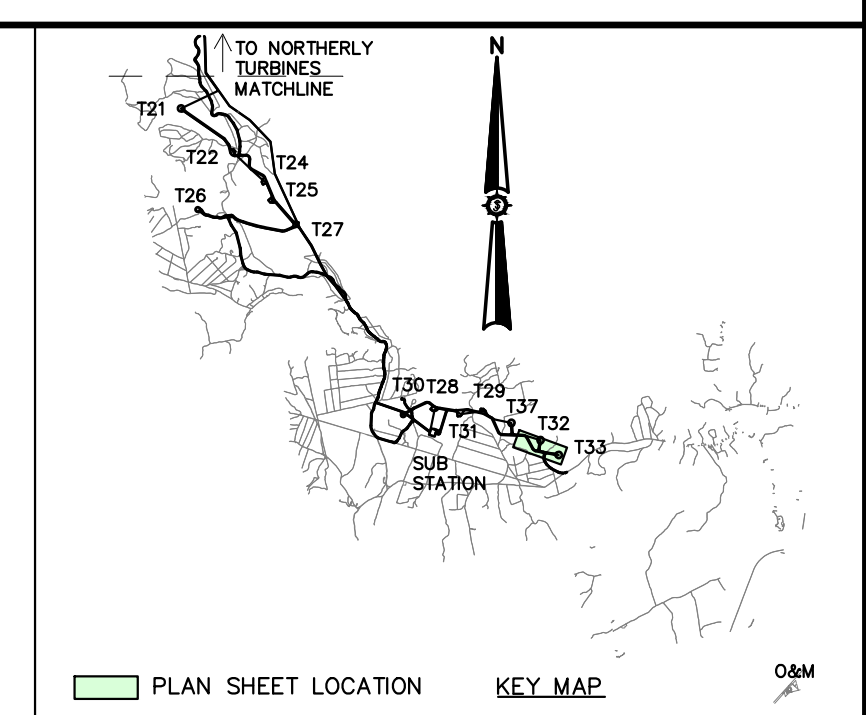
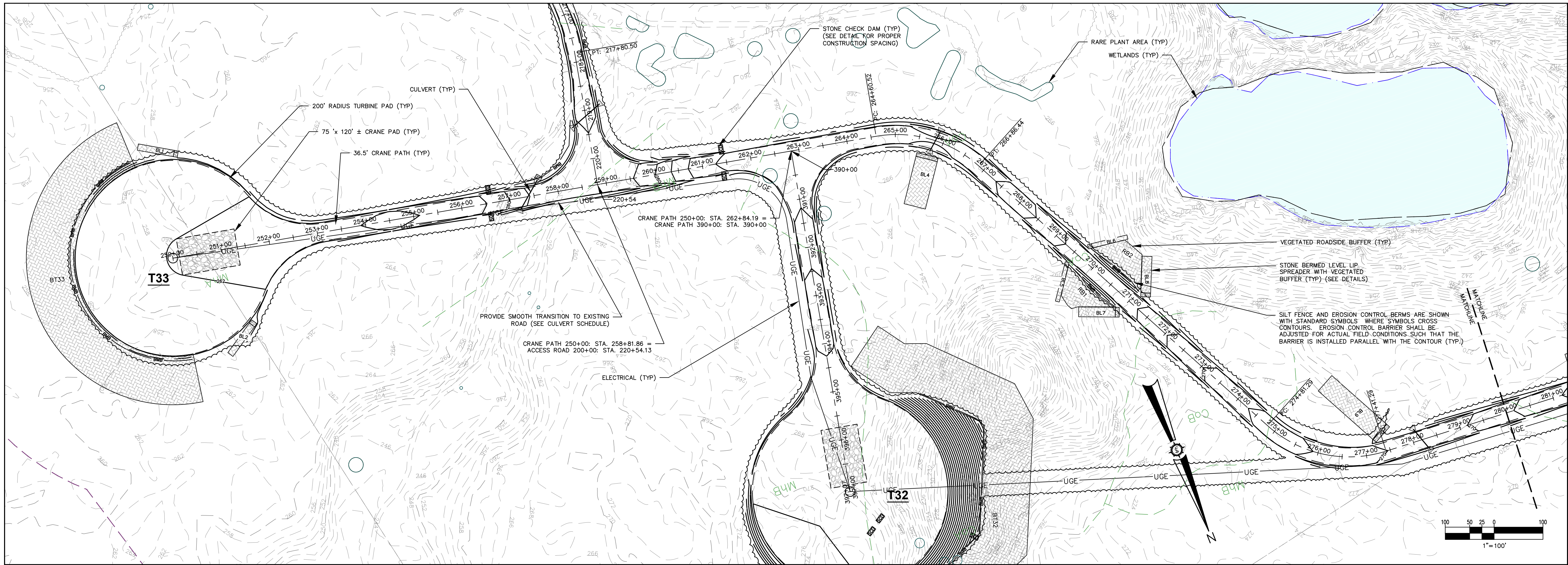
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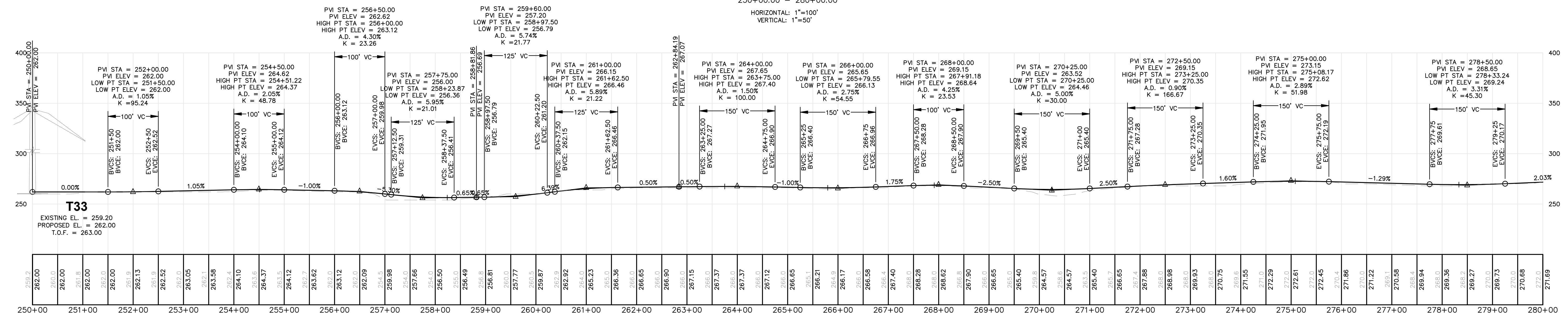
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250+00.00 - 280+00.00

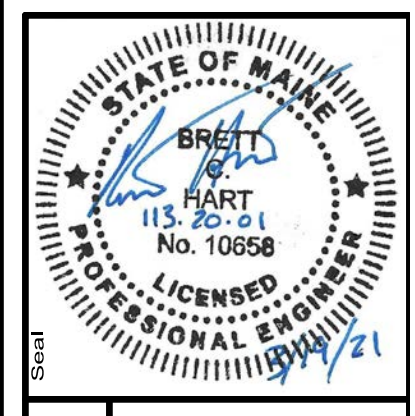
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VERTICAL: 1"=50'



Drawn By	MIFB
Checked By	JSM
Designated By	BCH
Class	03/19/2021
Scale	
Approved	BCH
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	PLAN AND PROFILE

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

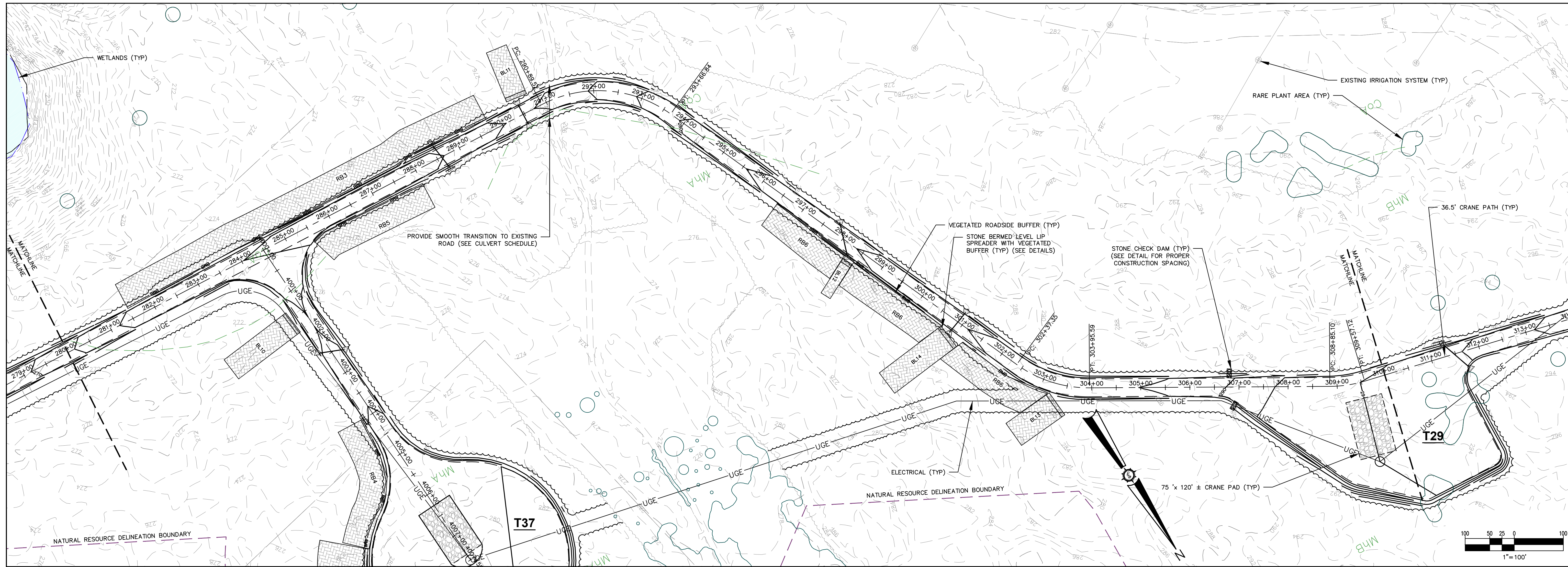
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Drawing Description: PLAN AND PROFILE



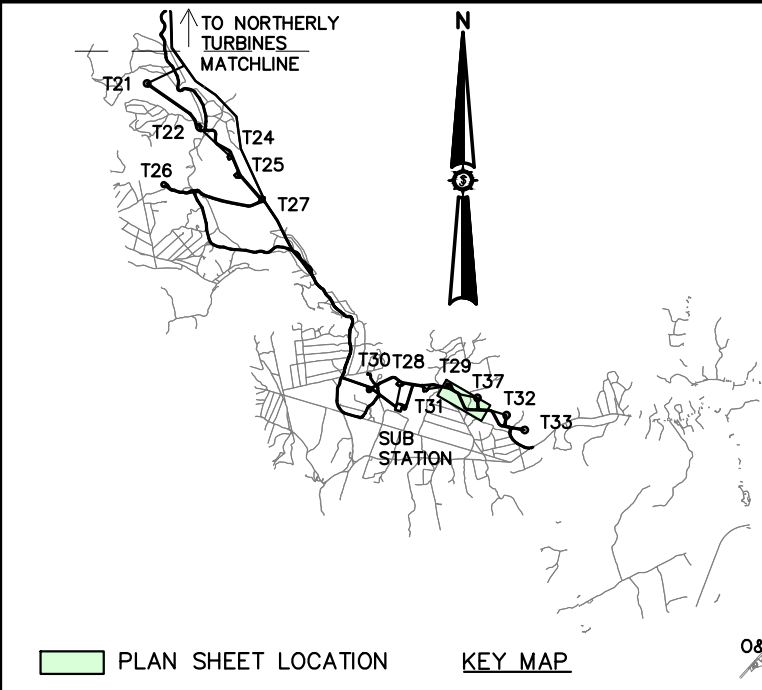
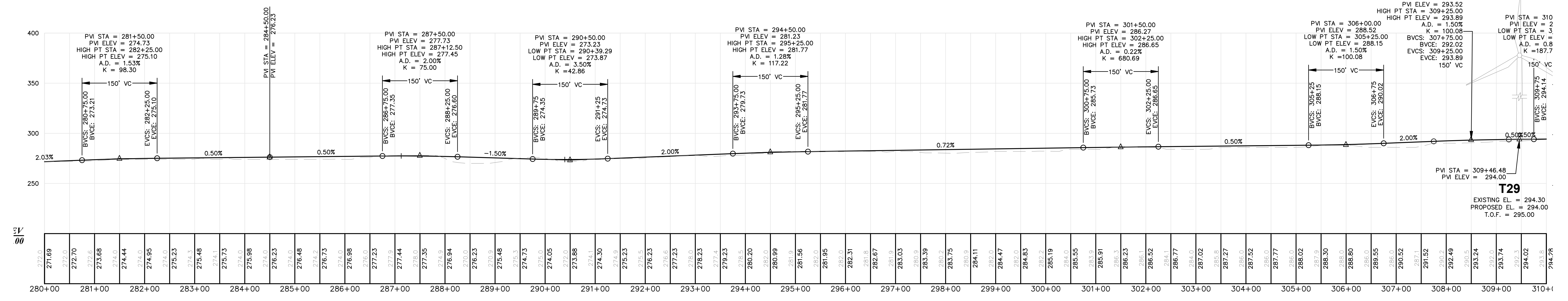
113.20.01  
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**CRANE PATH 250+00**  
 280+00.00 - 310+00.00  
 HORIZONTAL: 1"=100'  
 VERTICAL: 1"=50'



**APEx CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 310 4th ST N.E., SUITE 200, CHARLOTTESVILLE, VA

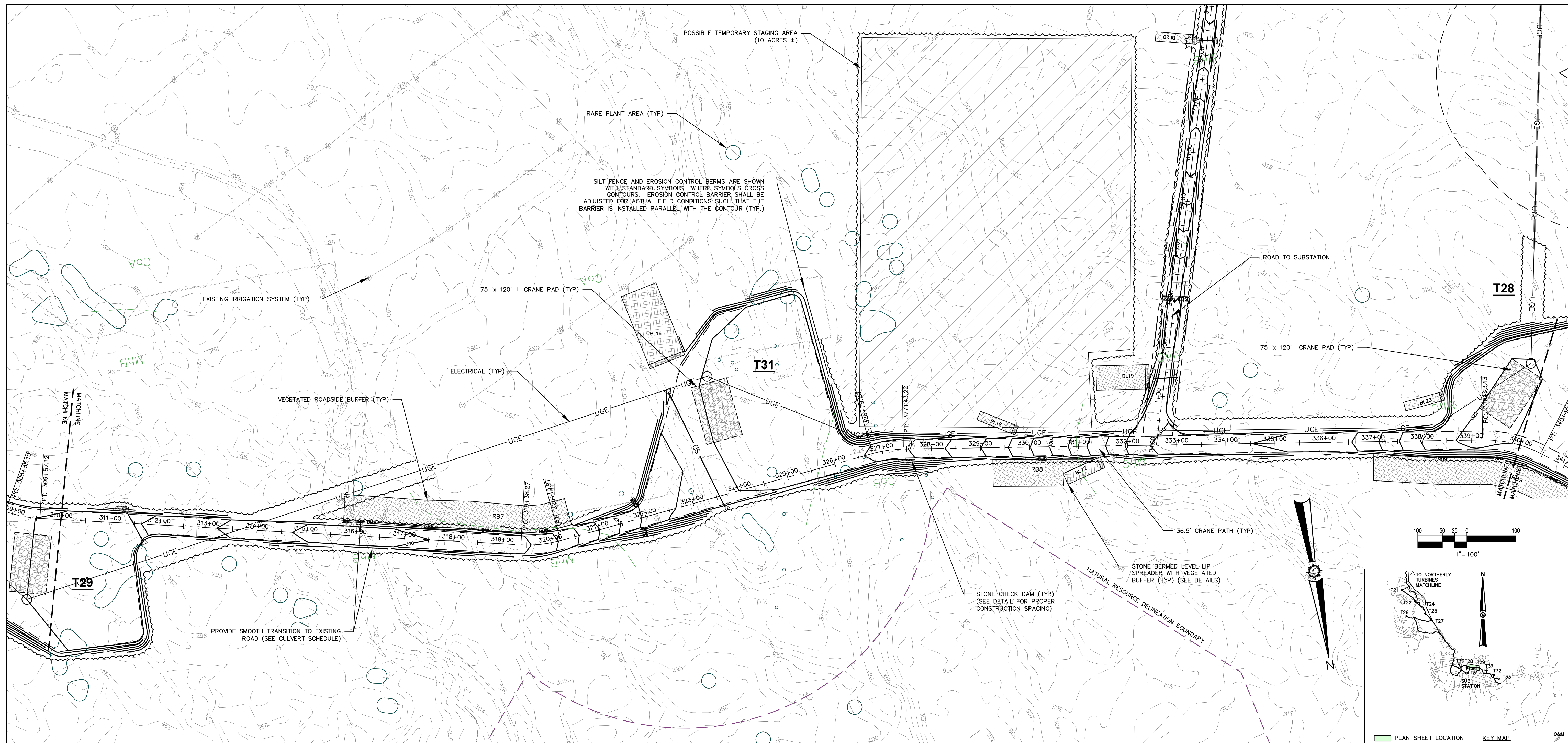
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 ENGINEERING SURVEYING  
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**PERMIT**  
 Sheet No. **11.2**

DRAWING DESCRIPTION: **PLAN AND PROFILE**  
 Drawn By: MITFB, BCH  
 Date: 03/19/2021, Scale: BCH  
 Approved: BCH, Checked: JSM

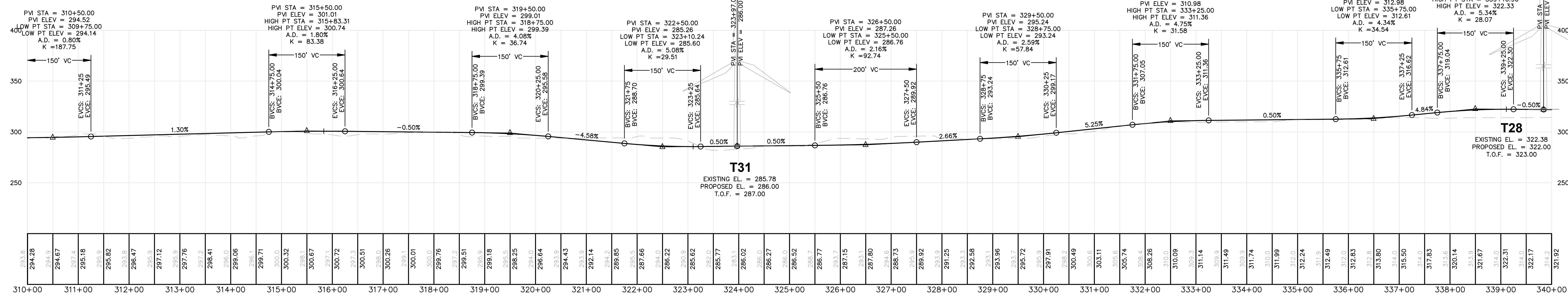
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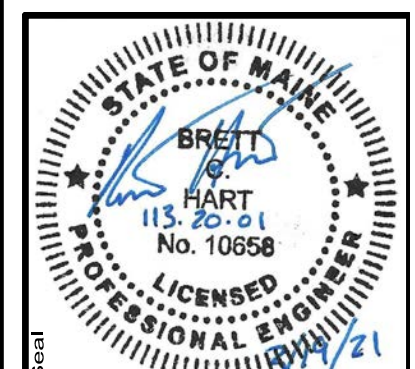
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Rev. #	Date	By	Description

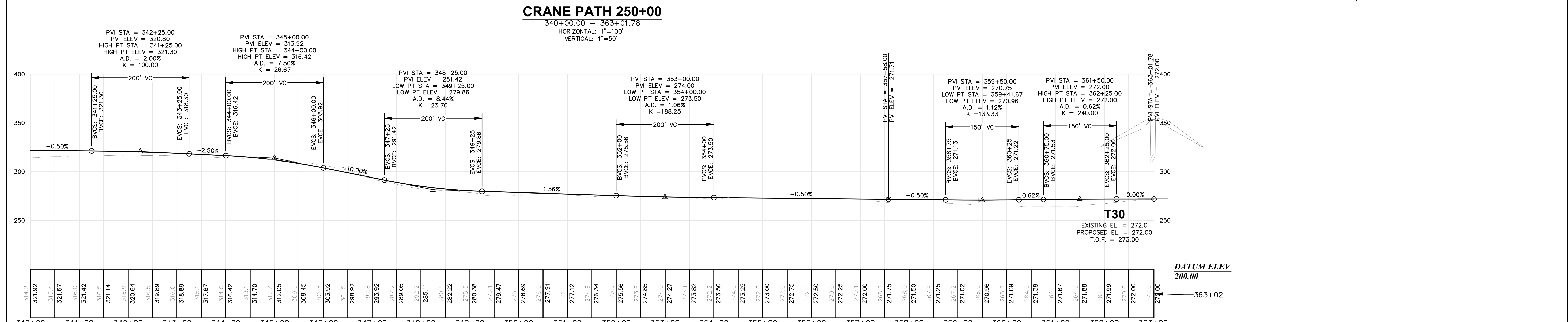
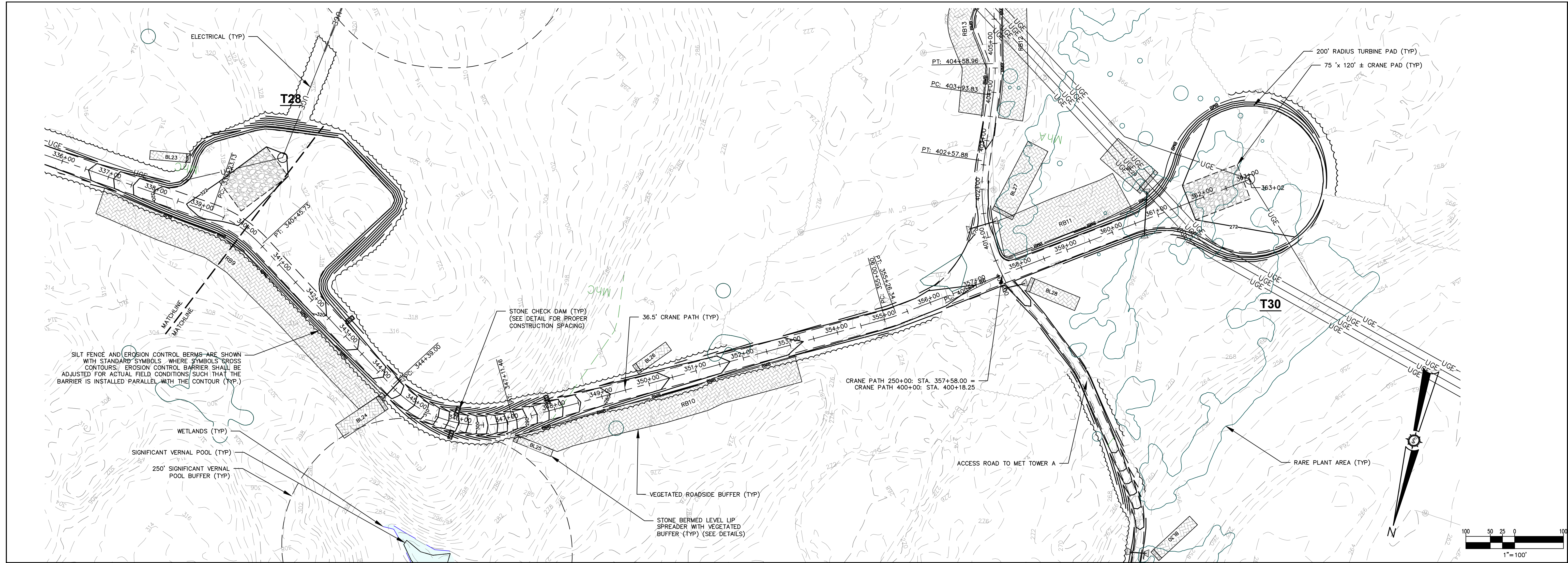
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 Checked: JSM  
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 Scale: 1"=100'  
 Date: 03/19/2021  
 Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 CHARLESTONVILLE, VA  
 Drawing Description: PLAN AND PROFILE



Project No: 113.20.01  
 Engineer: **Sewal** ENGINEERING  
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Phase: **PERMIT**  
 Sheet No: **11.3**  
 NOT FOR CONSTRUCTION



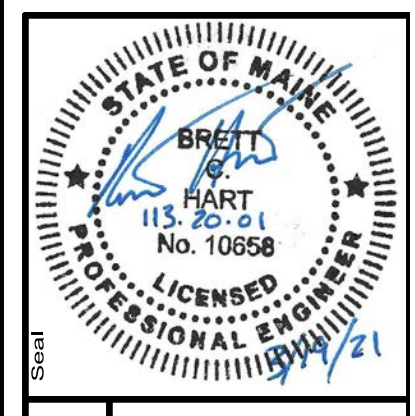


Rev.	Drawn By	Description

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 Project Location  
 Drawing Description

Designed By: BCH  
 Drawn By: MITFB  
 Date: 03/19/2021  
 Scale:   
 Approved: BCH  
 Checked: JSM

**PLAN AND PROFILE**



113.20.01

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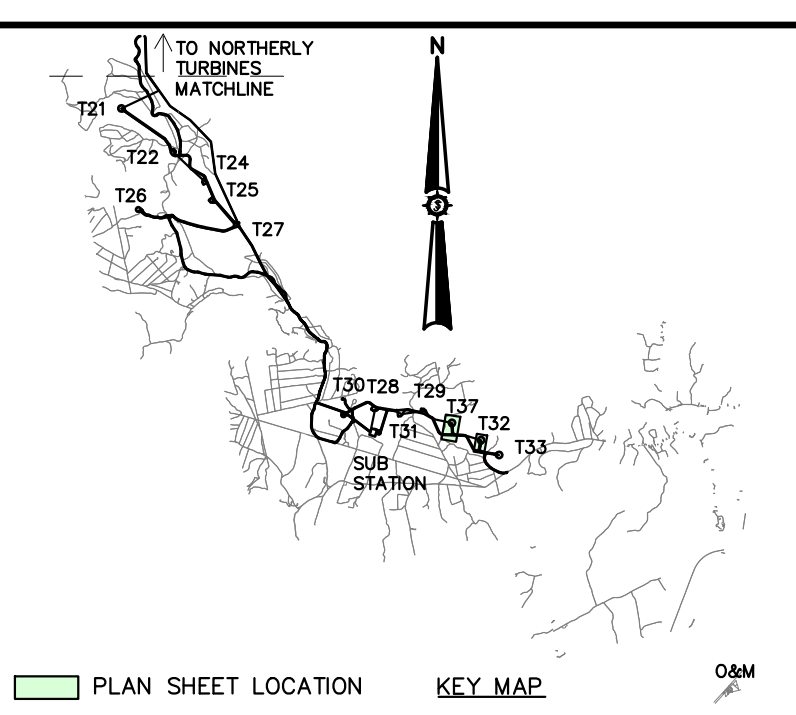
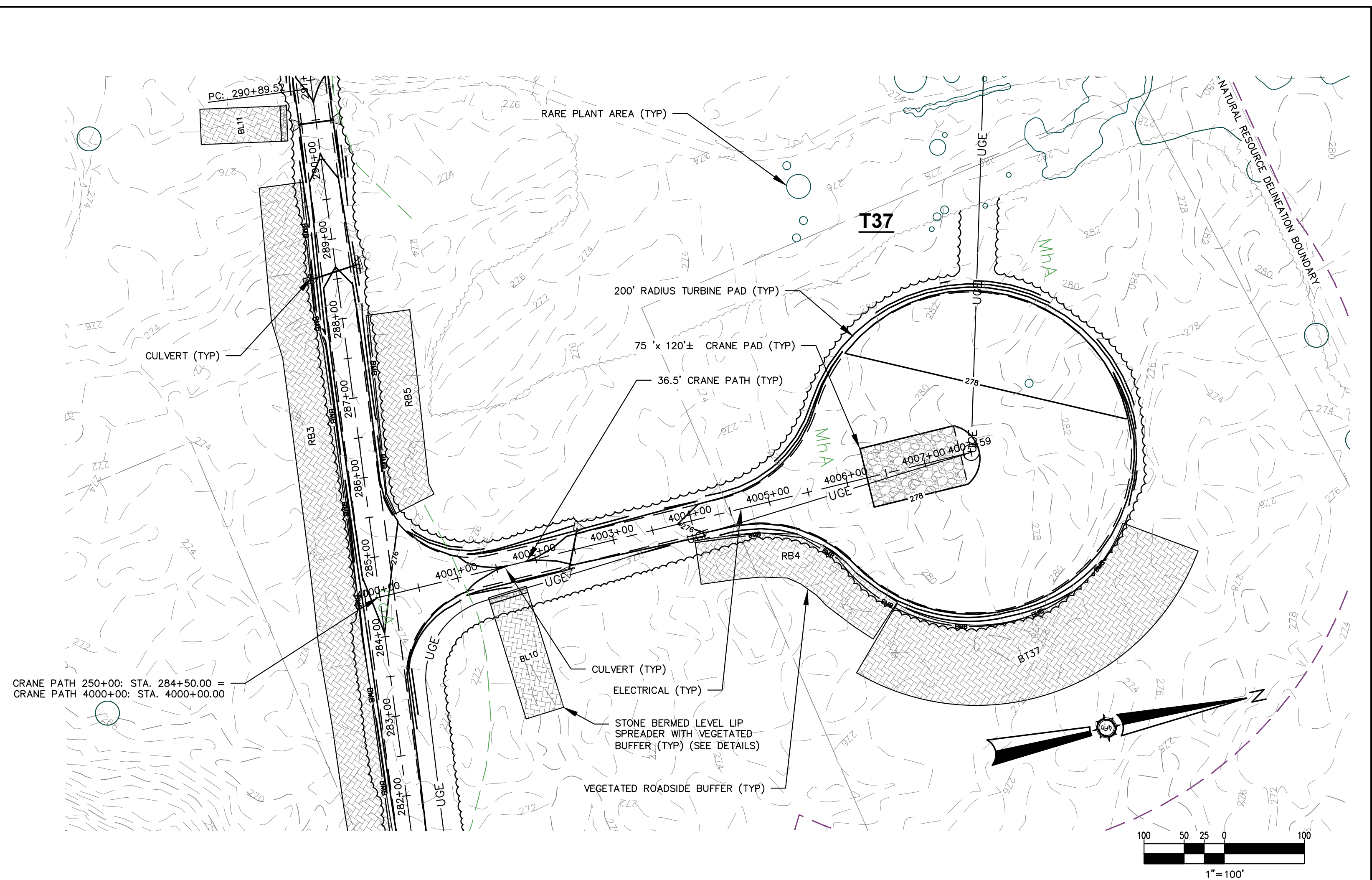
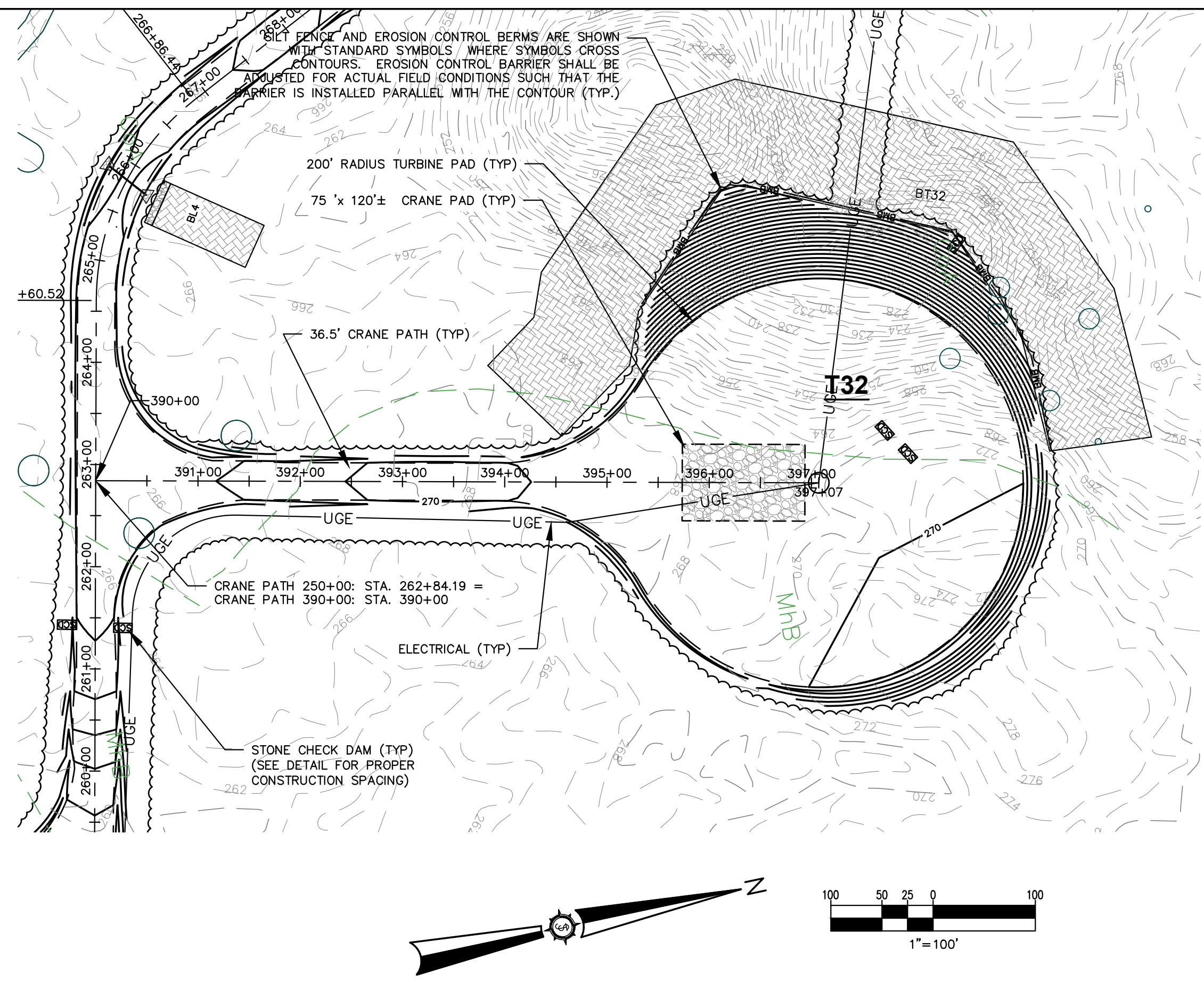
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Phase: **PERMIT**

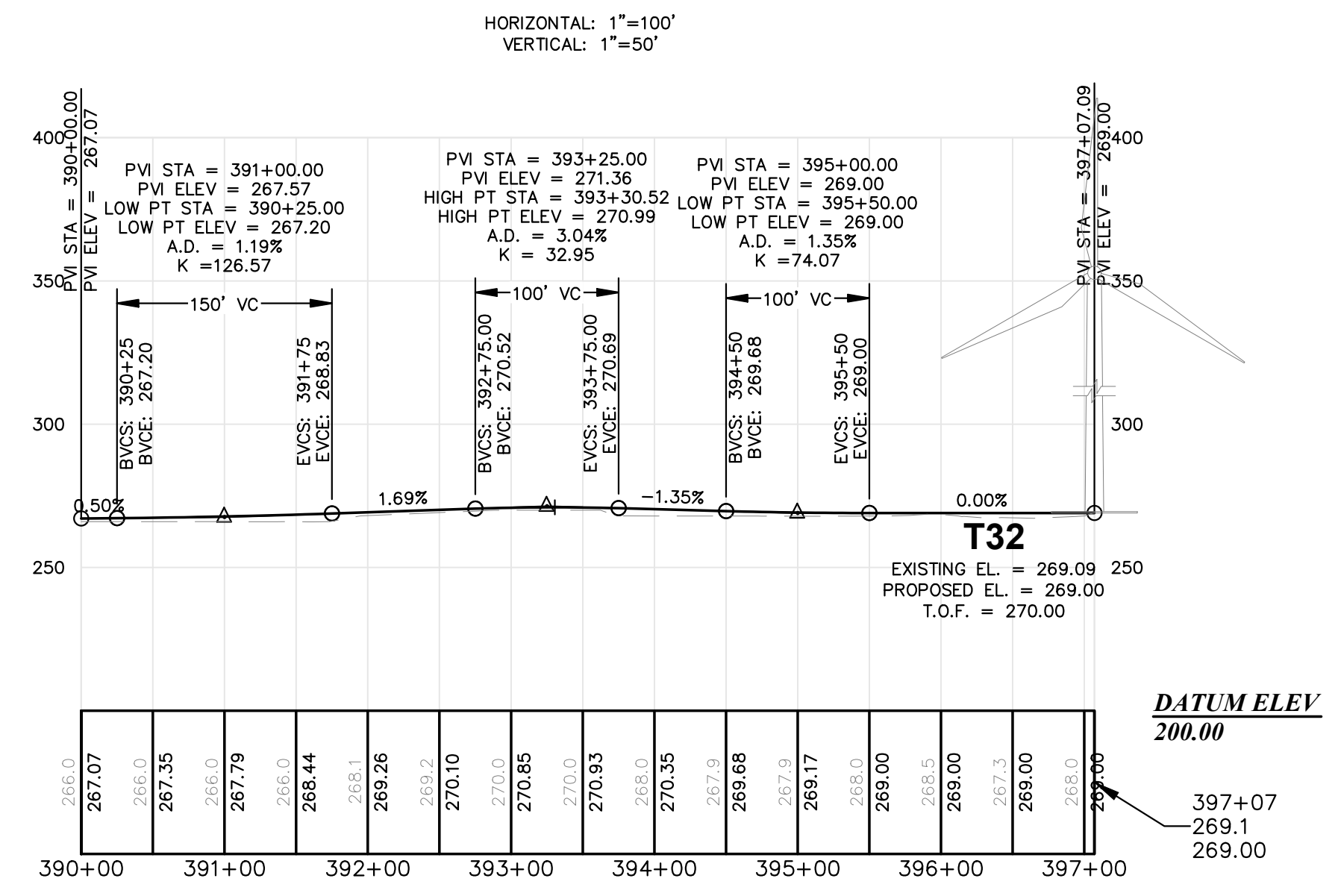
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NOT FOR CONSTRUCTION

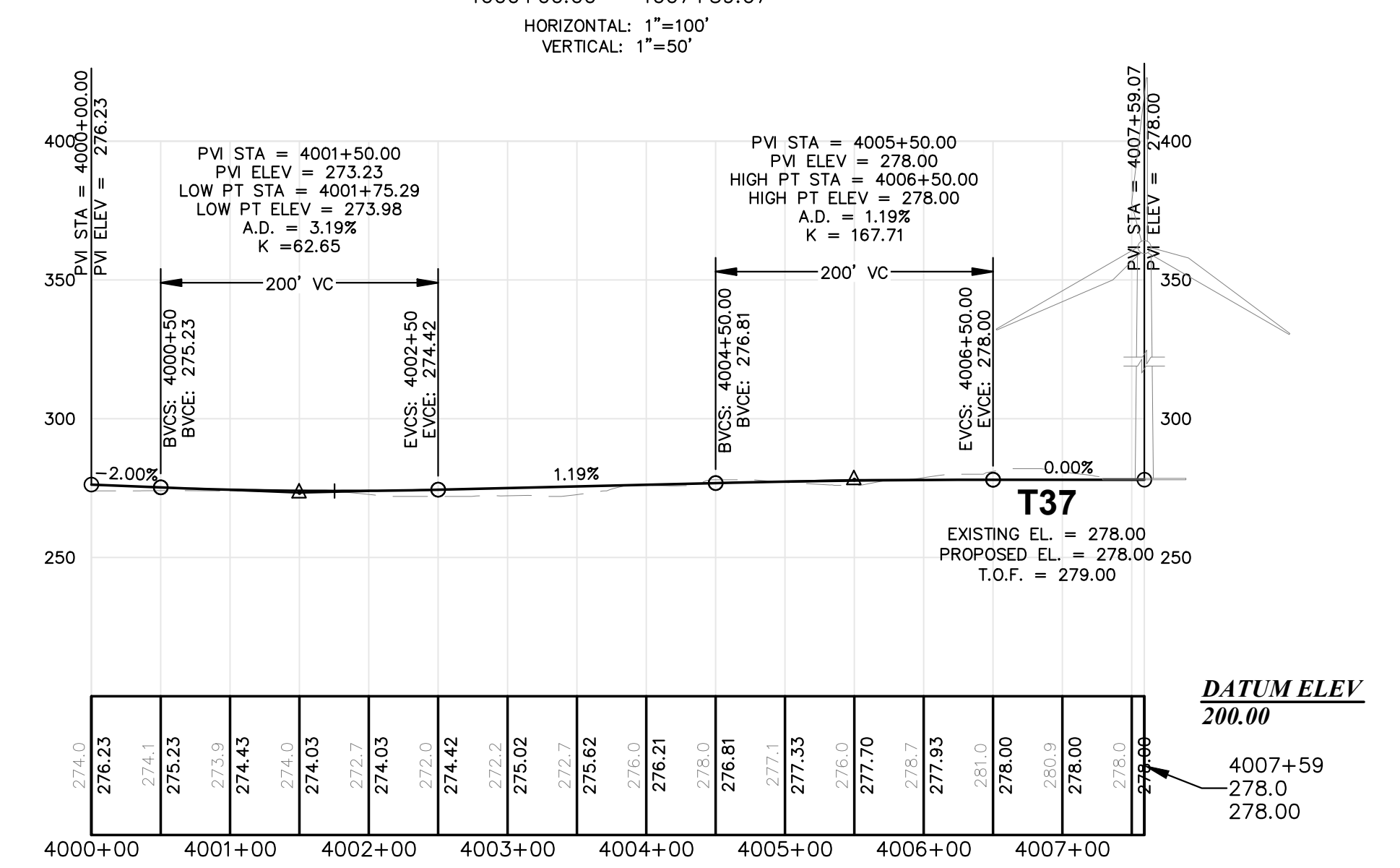




**CRANE PATH 390+00**  
390+00.00 - 397+07.09



**CRANE PATH 4000+00**  
4000+00.00 - 4007+59.07

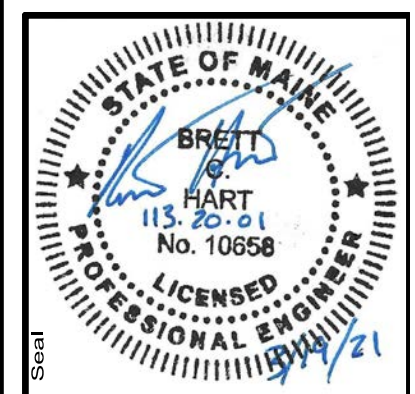


Rev.	Drawn By	Description

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST. N.E., SUITE 200  
COLUMBIA, T19 MD BPP, T19 MD BPP, T24 MD BPP, MAINEProject Location: CARRINGTONVILLE, VA

Drawn By: MITFB  
Checked: JSM  
Scale: 03/19/2021  
Approved: BCH

**PLAN AND PROFILE**



113.20.01

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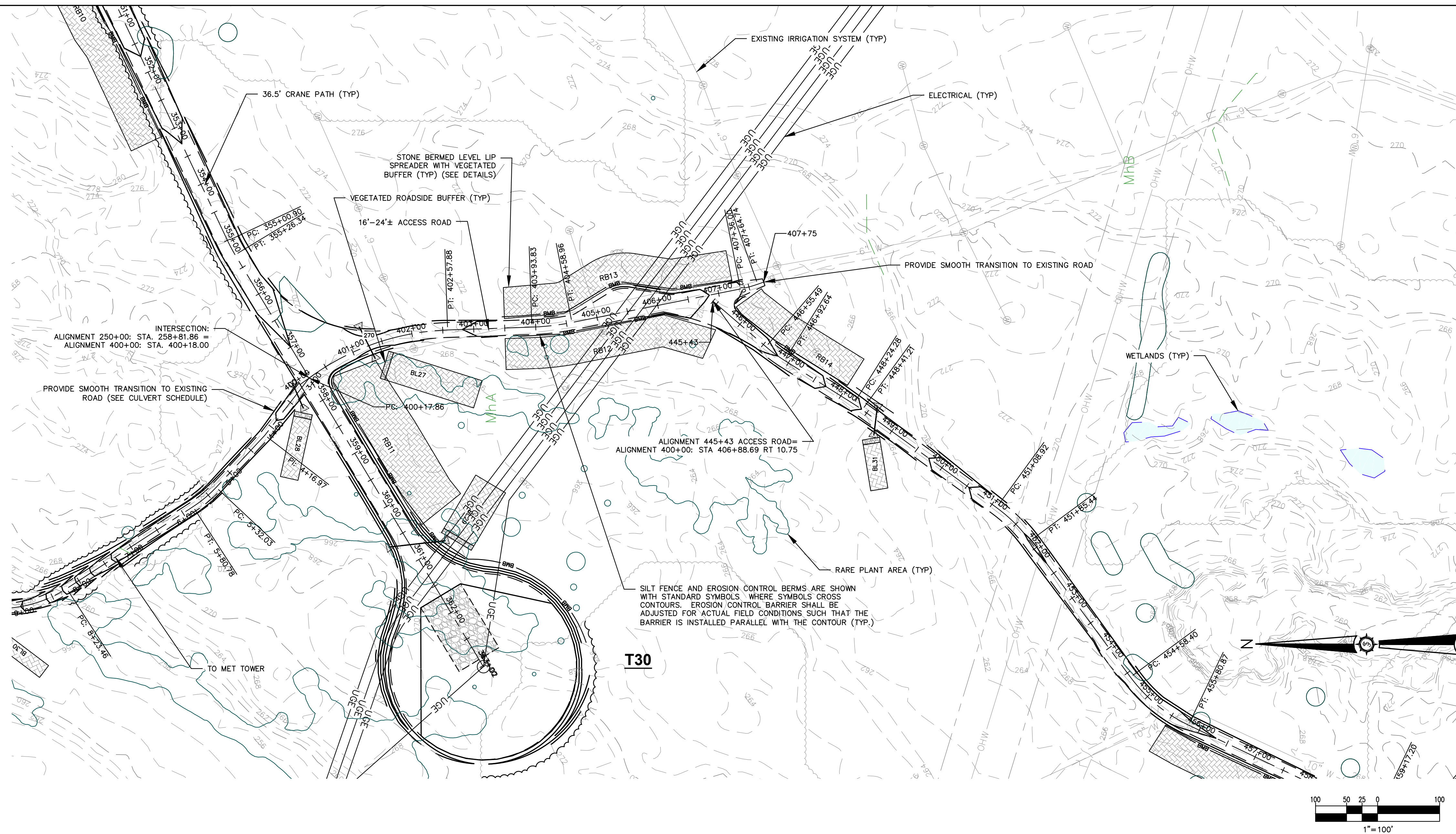
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**PERMIT**

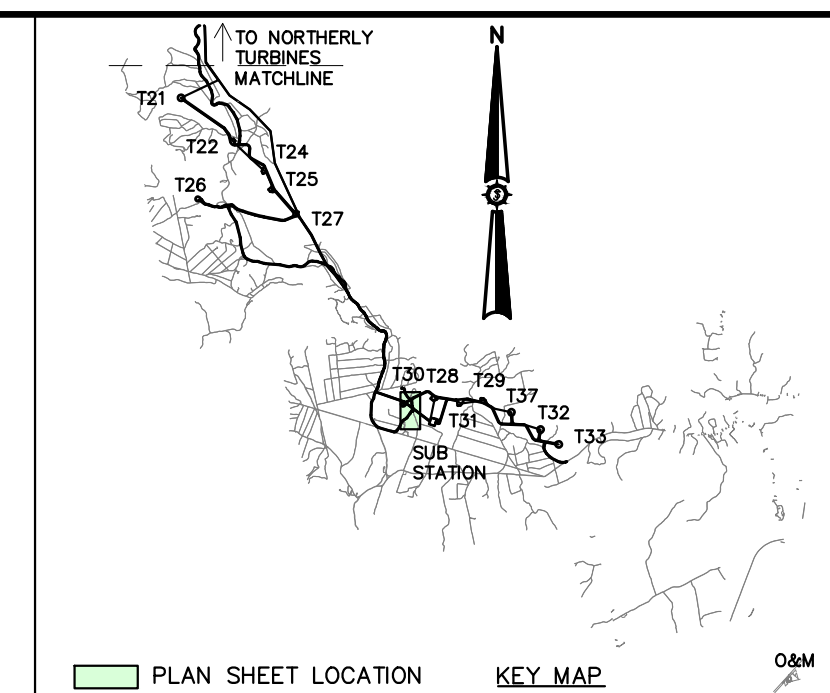
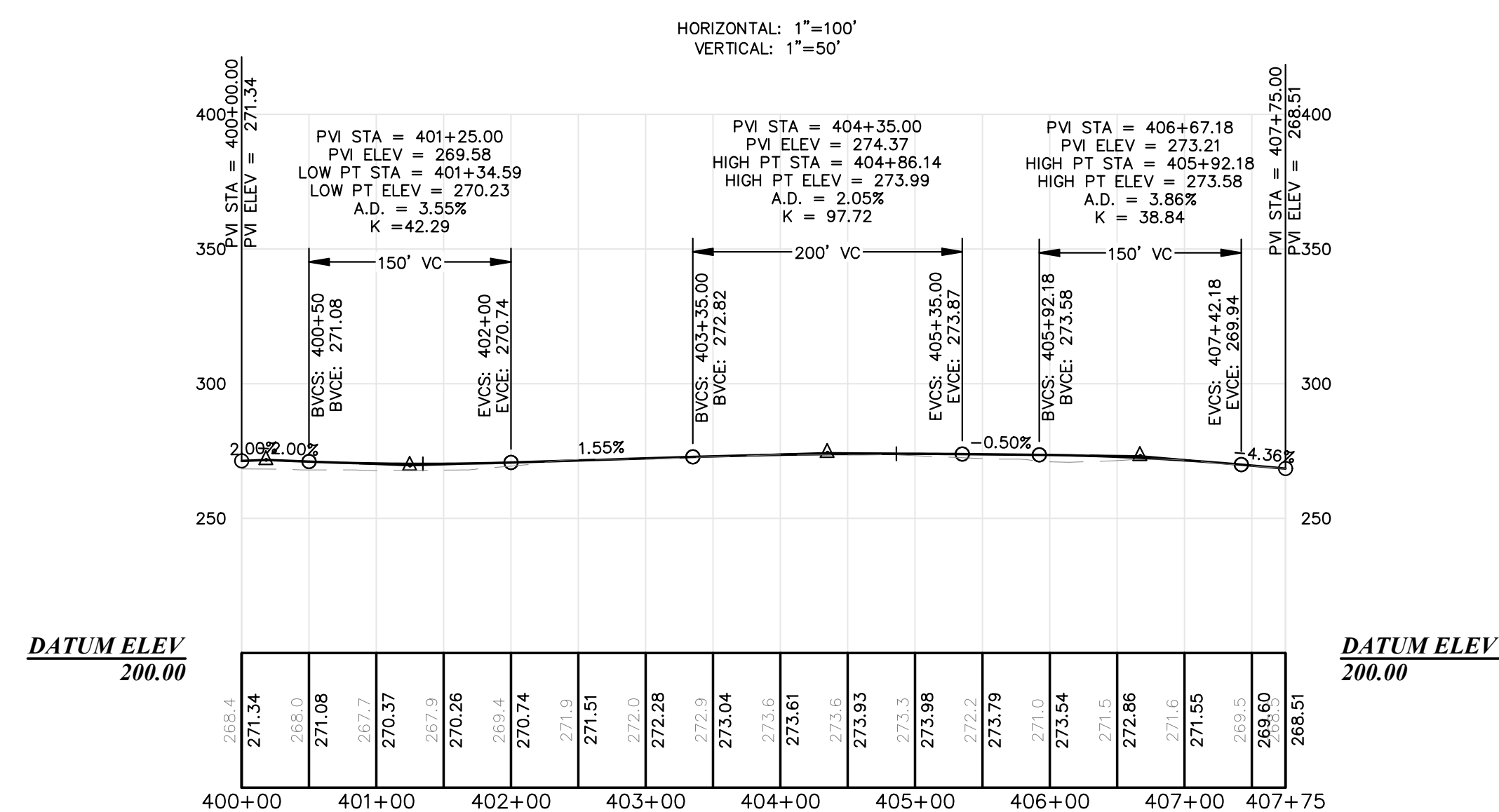
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NOT FOR CONSTRUCTION





**ACCESS ROAD 400+00**  
400+00.00 - 407+75.00



Rev.	Date	By	Description

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

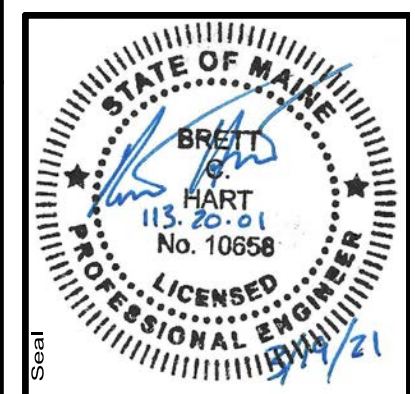
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Checked: JSM

Design By: BCH  
Scale: 1"=100'

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Approved: BCH

**PLAN AND PROFILE**



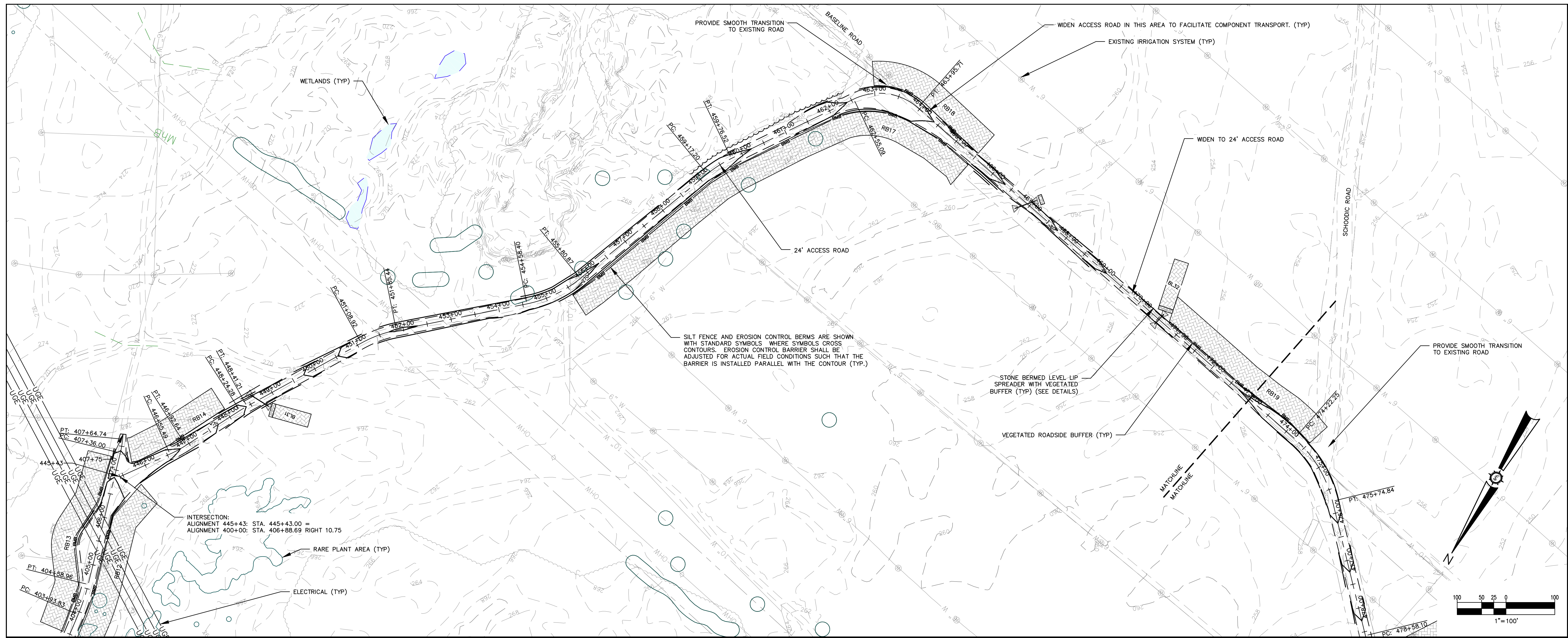
113.20.01

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Project No. 113.20.01  
Phase: PERMIT  
Sheet No. 12.1

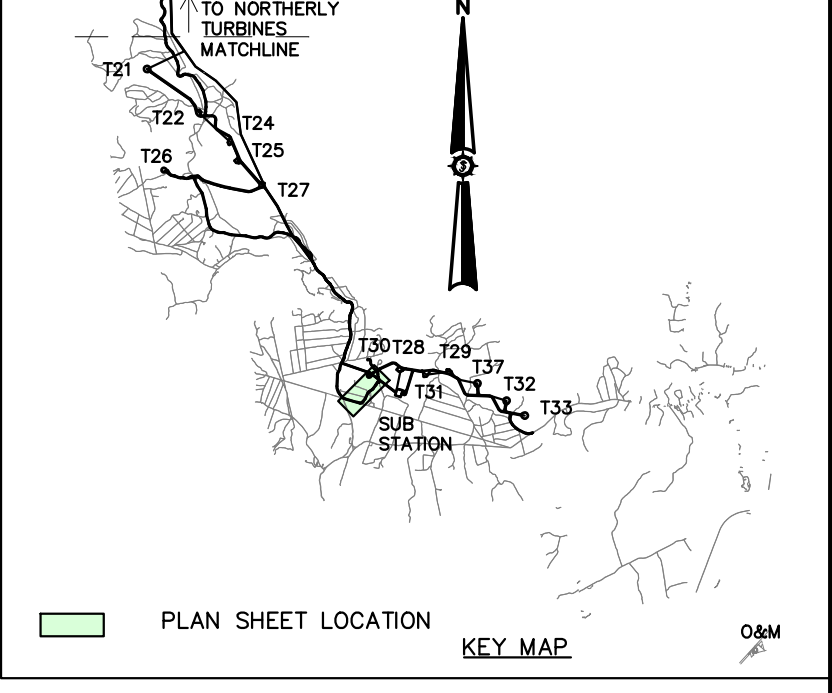
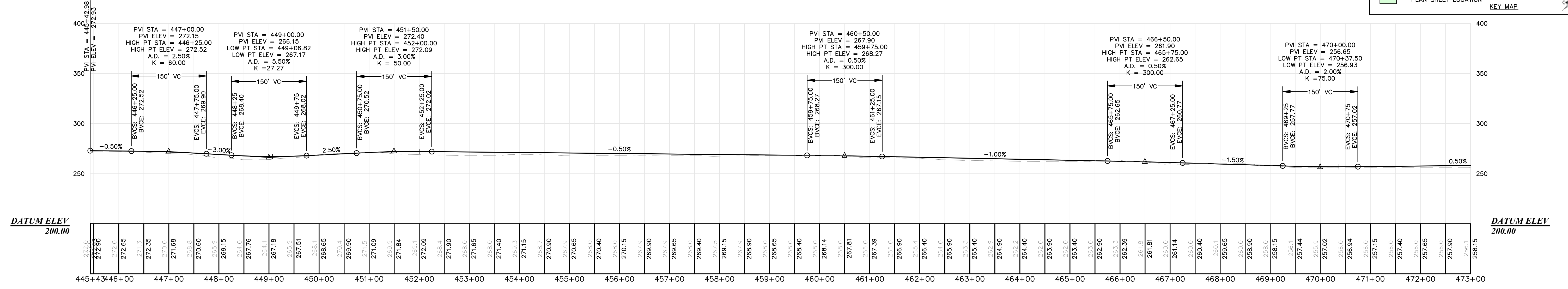
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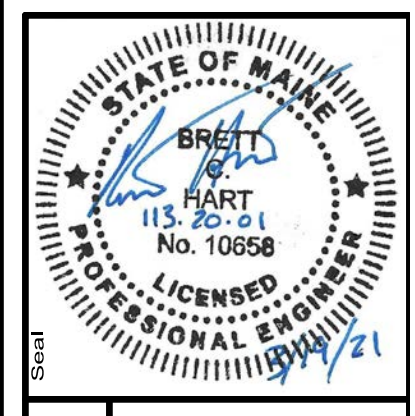
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VERTICAL: 1"=50'



Date	
Drawn By	MITFB
Checked By	JSM
Approved By	BCH
Designation	BCH
Scale	
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Project Name	APEX CLEAN ENERGY, INC. DOWNEAST WIND FARM
Project Address	310 4th ST N.E., SUITE 200 CHARLOTTEVILLE, VA
Drawn By	MITFB
Checked By	JSM
Approved By	BCH
Designation	BCH
Scale	
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Project Name	APEX CLEAN ENERGY, INC. DOWNEAST WIND FARM
Project Address	310 4th ST N.E., SUITE 200 CHARLOTTEVILLE, VA

**APEX CLEAN ENERGY, INC. DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200 CHARLOTTEVILLE, VA

**PLAN AND PROFILE**



113.20.01

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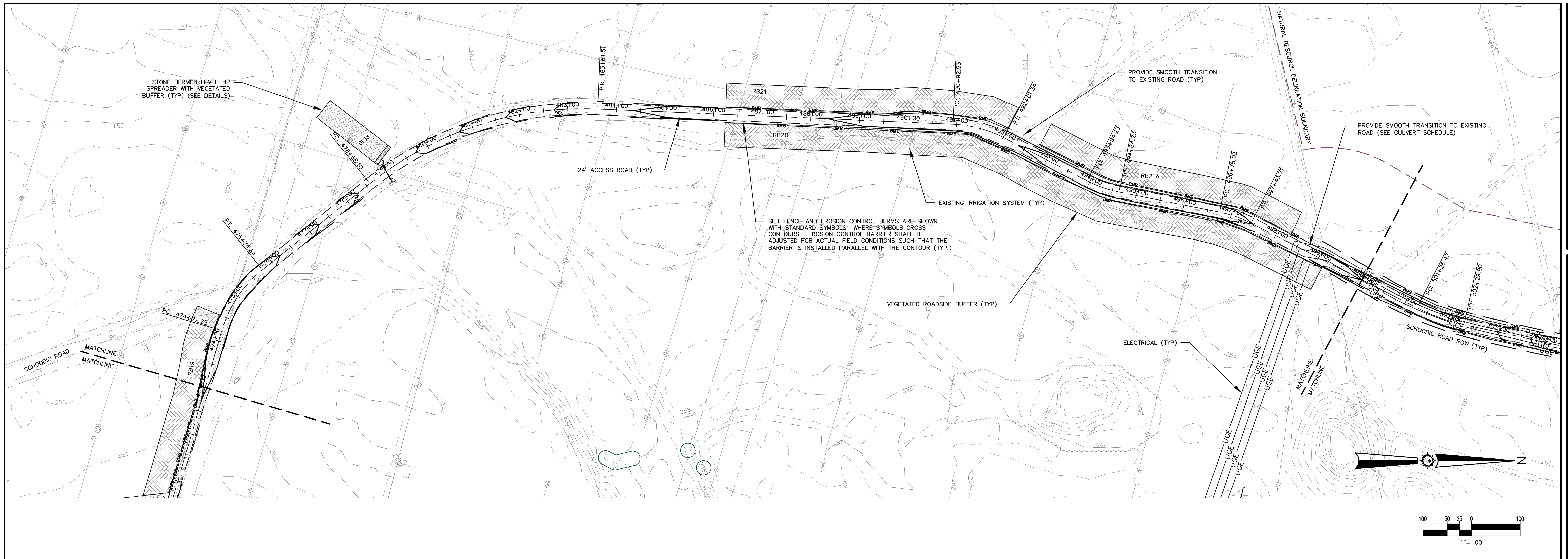
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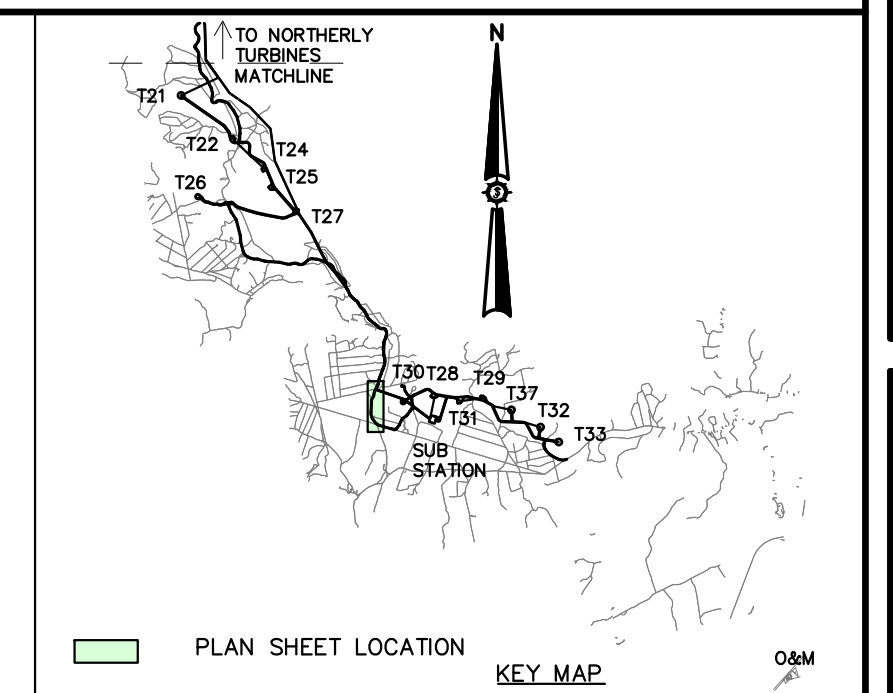
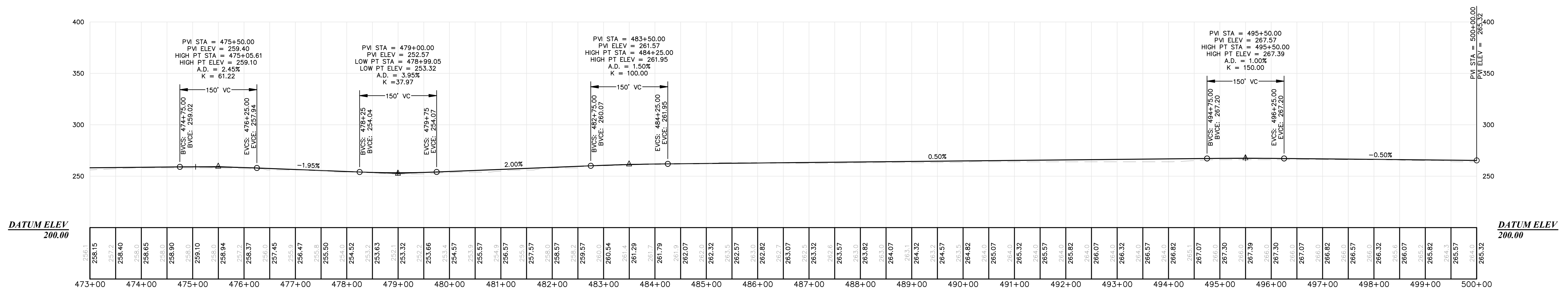




**ACCESS ROAD 445+43**

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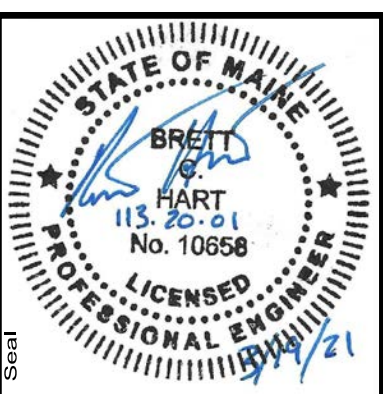


Rev. #	Drawn By	Description	Date

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawn By: MTFB  
Checked: JSM  
Scale: 03/19/2021  
Approved: BCH

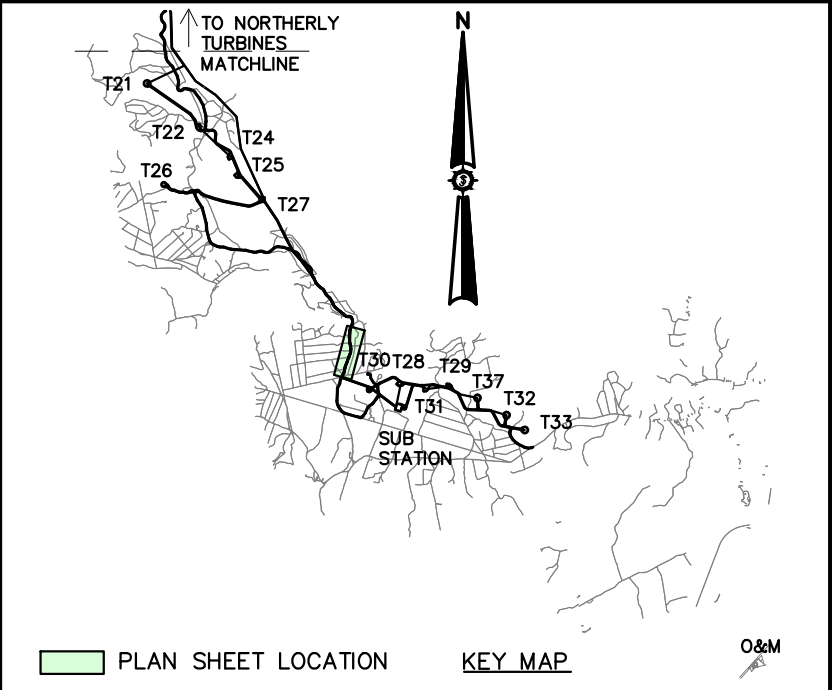
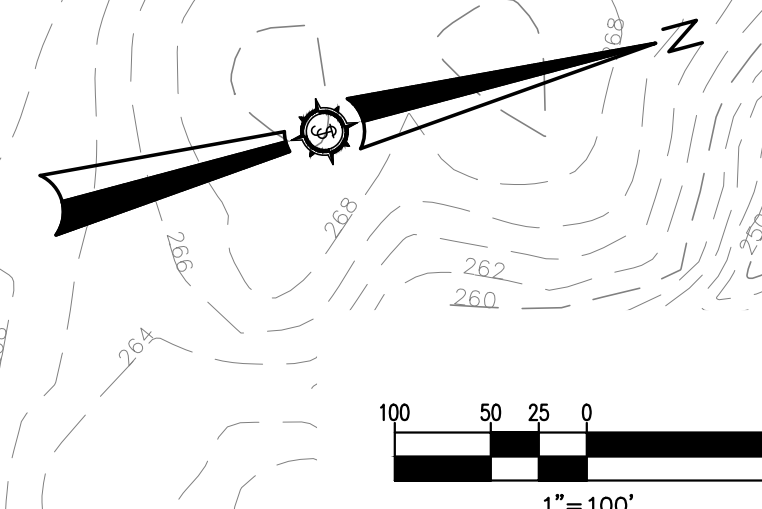
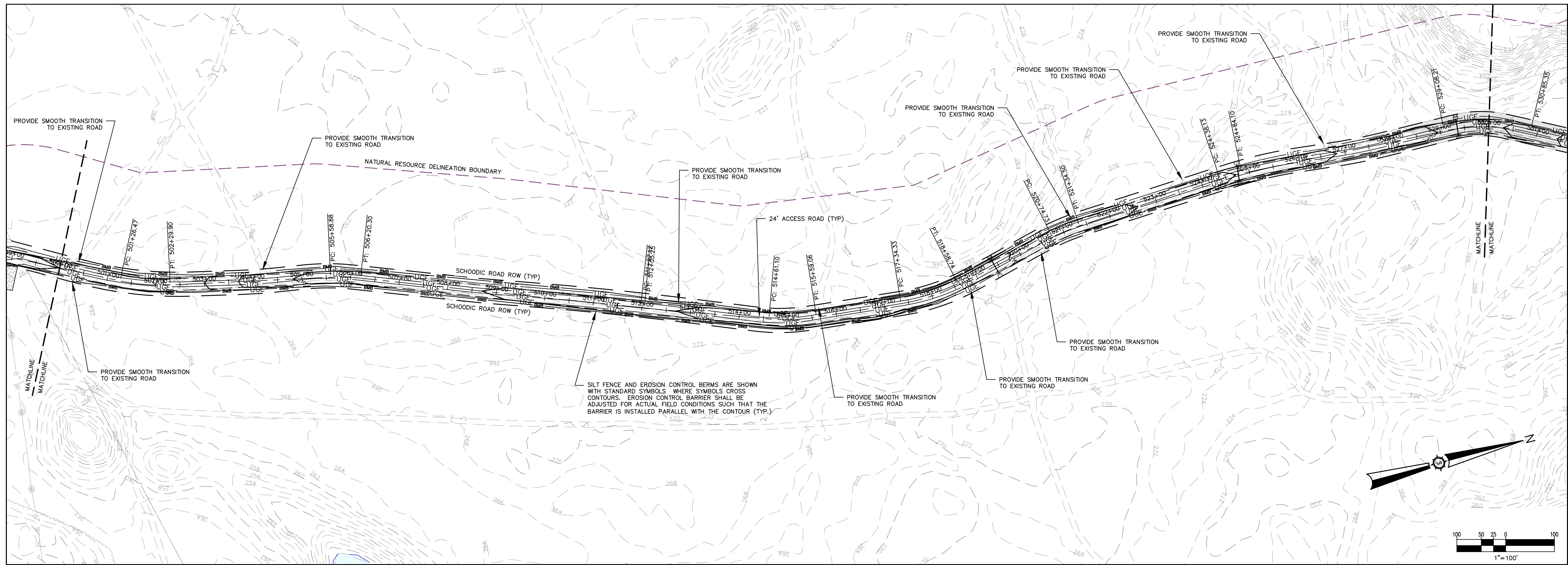
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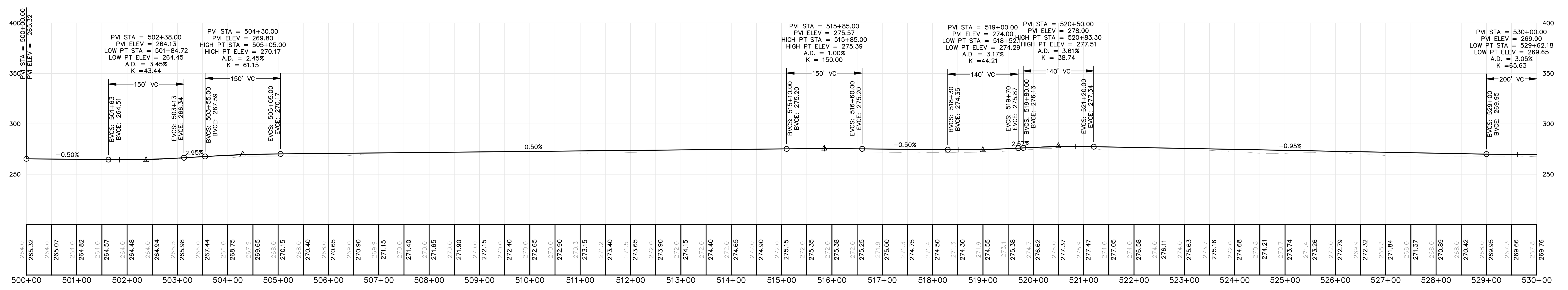
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Phase: SURVEYING  
Engineer: Sewal  
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NOT FOR CONSTRUCTION



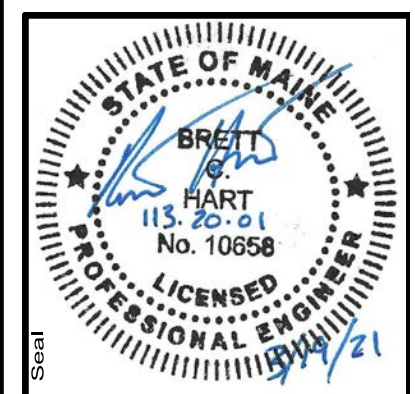


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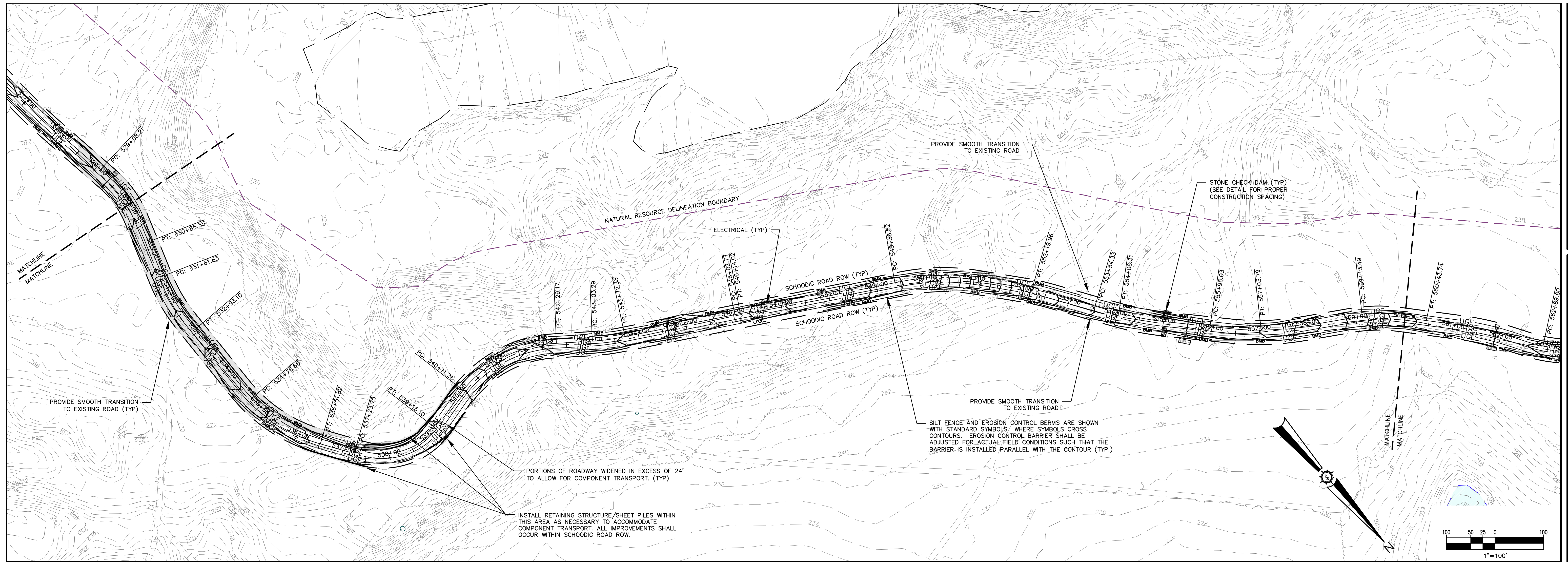
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Phase	PERMIT
Sheet No.	14.1
Drawn By	MTEB
Checked By	JSM
Approved By	BCH
Scale	As Shown
Date	03/19/2021

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
Project Location  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
Drawing Description  
**PLAN AND PROFILE**



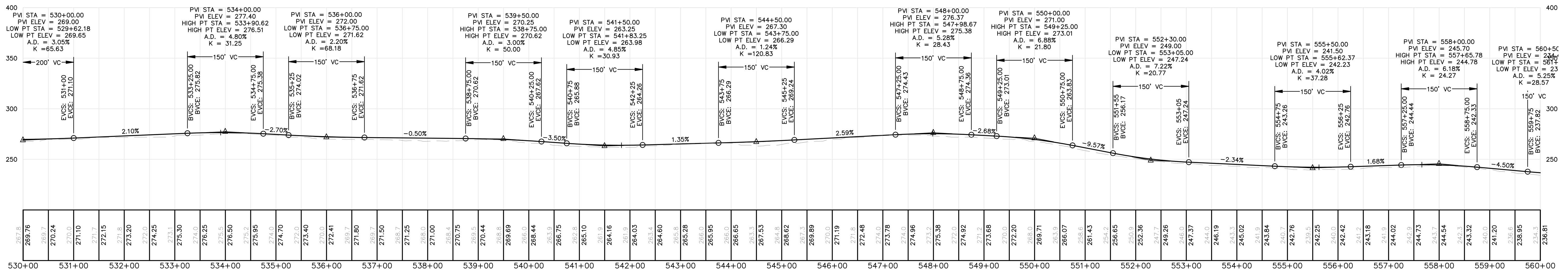
113.20.01  
ENGINEERING  
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SURVEYING





**ACCESS ROAD 500+00**

530+00.00 - 560+00.00  
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 VERTICAL: 1"=50'

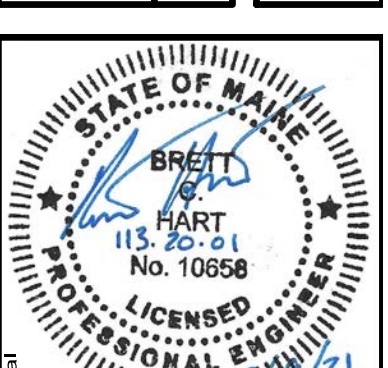


NOT FOR CONSTRUCTION

Drawn By	MIFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	PLAN AND PROFILE

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST NE, SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

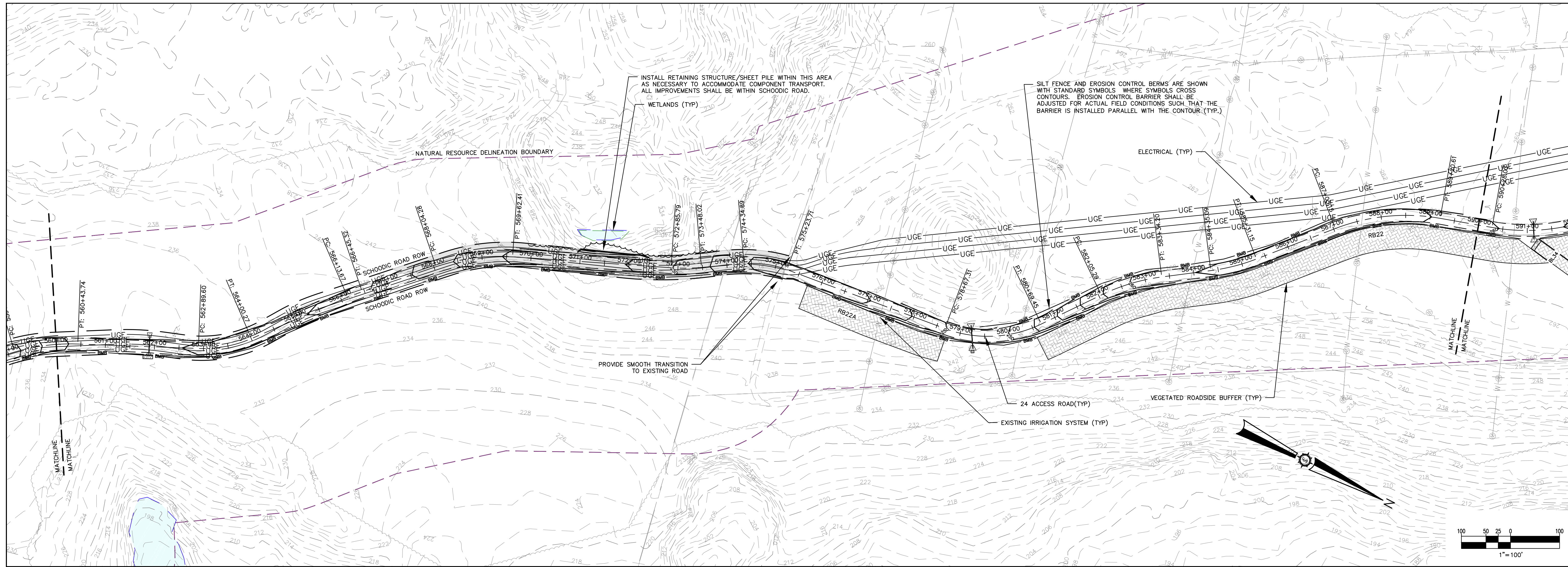
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113.20.01

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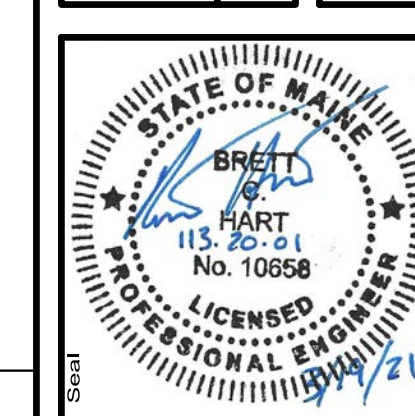
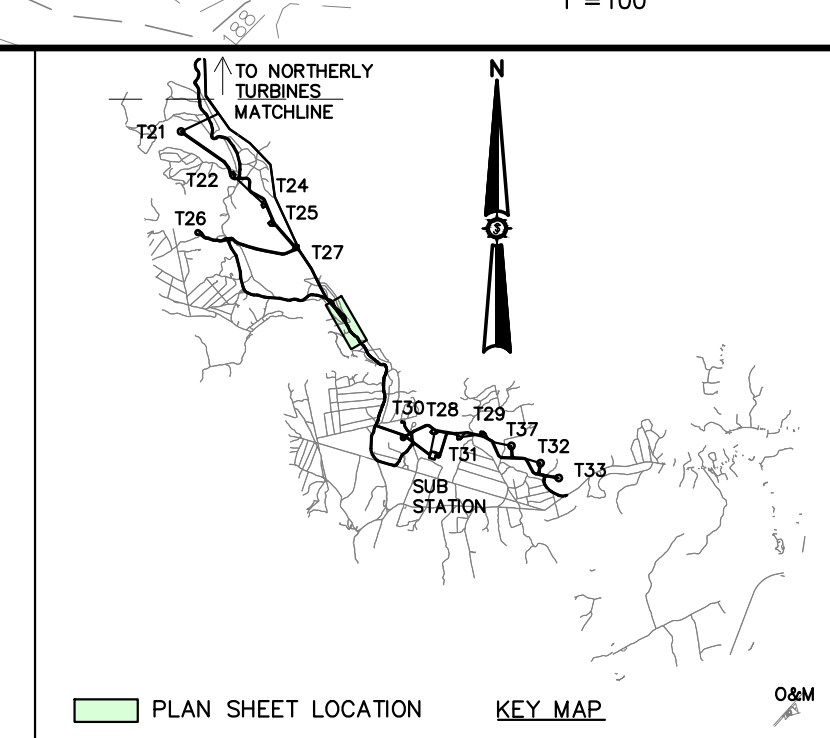


Drawn By	MITFB
Checked By	JSM
Approved By	BCH
Designated By	BCH
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Checked By	JSM
Approved By	BCH
Designated By	BCH

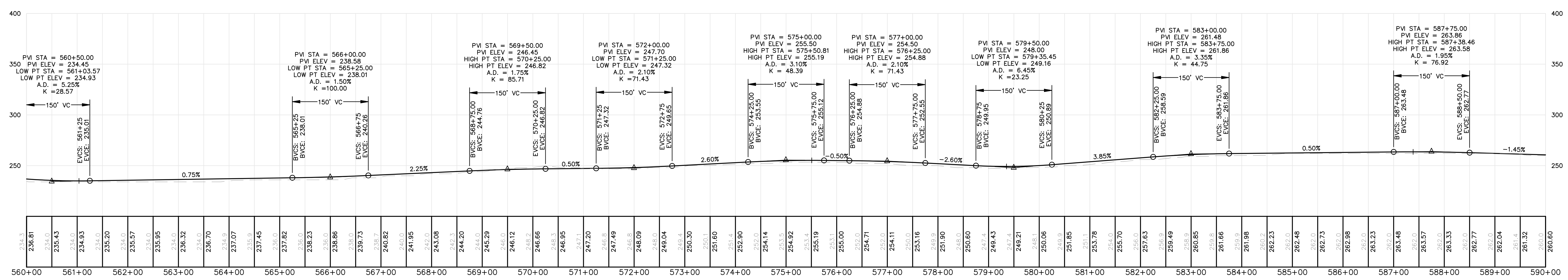
**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST NE, SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawing Description: PLAN AND PROFILE



**ACCESS ROAD 500+00**  
 560+00.00 - 590+00.00  
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NOT FOR CONSTRUCTION

Project No. 113.20.01

ENGINEERING SURVEYING

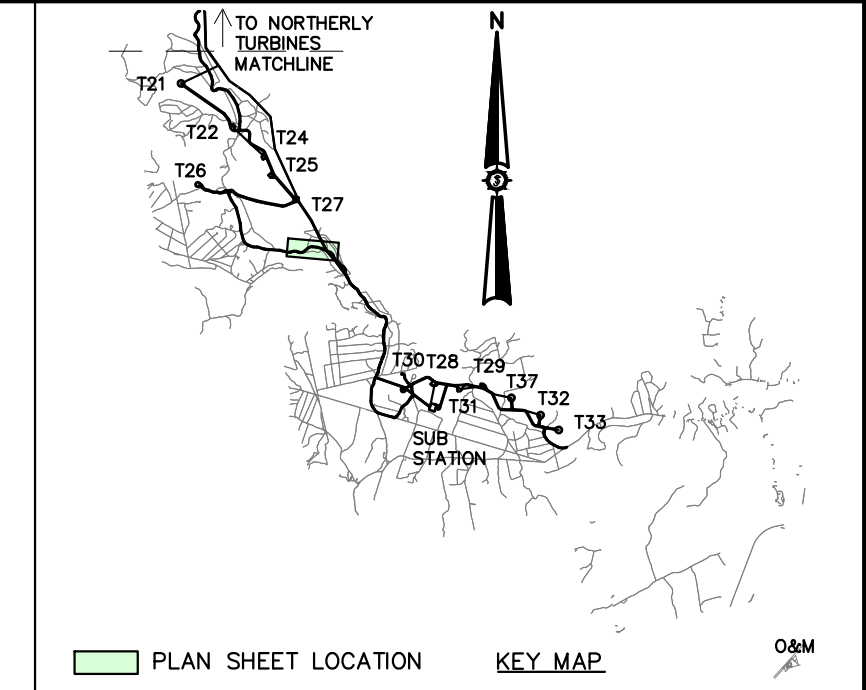
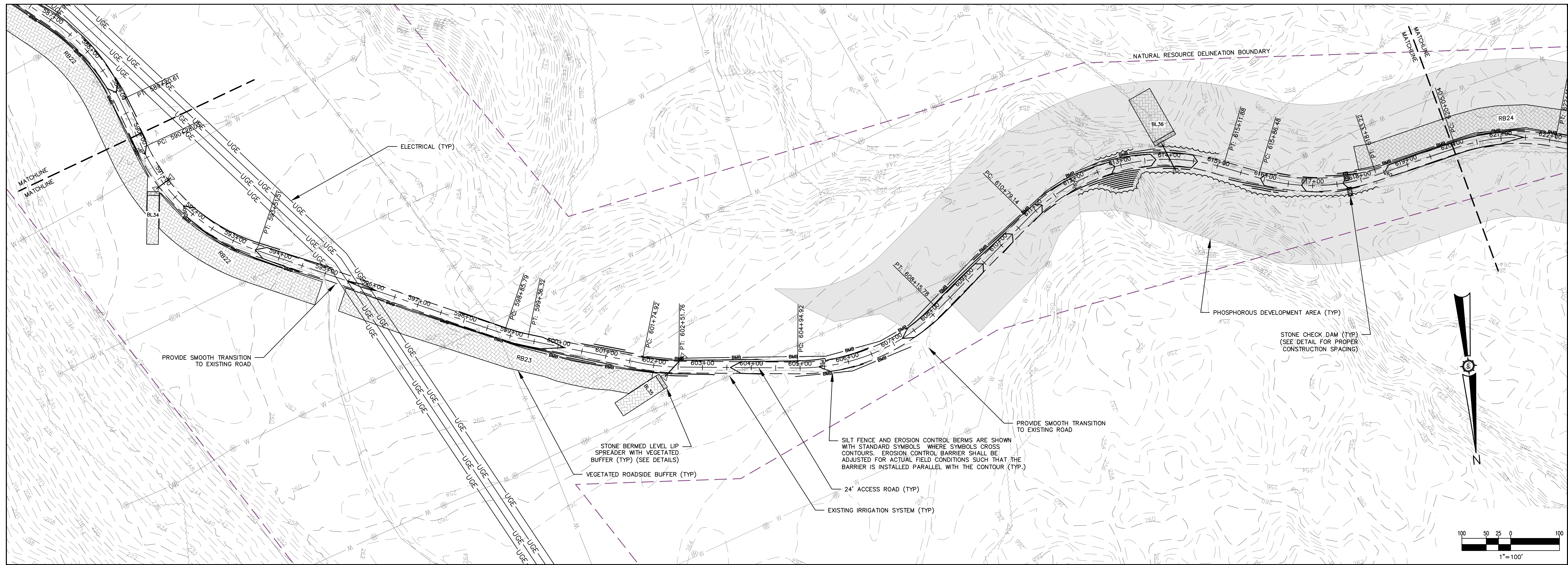
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Phase: PERMIT

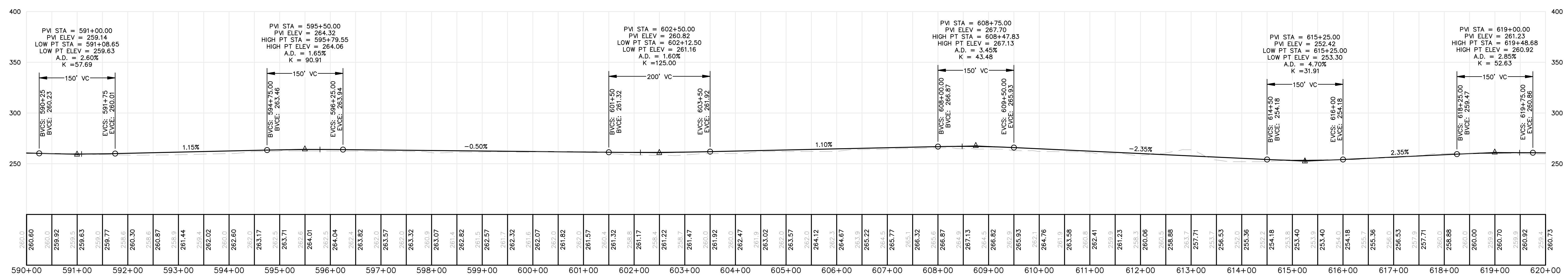
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**ACCESS ROAD 500+00**  
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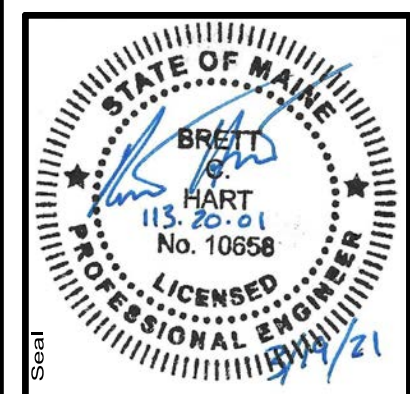
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VERTICAL: 1"=50'



Drawn By	MITFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	PLAN AND PROFILE

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 Drawing Description: PLAN AND PROFILE



113.20.01

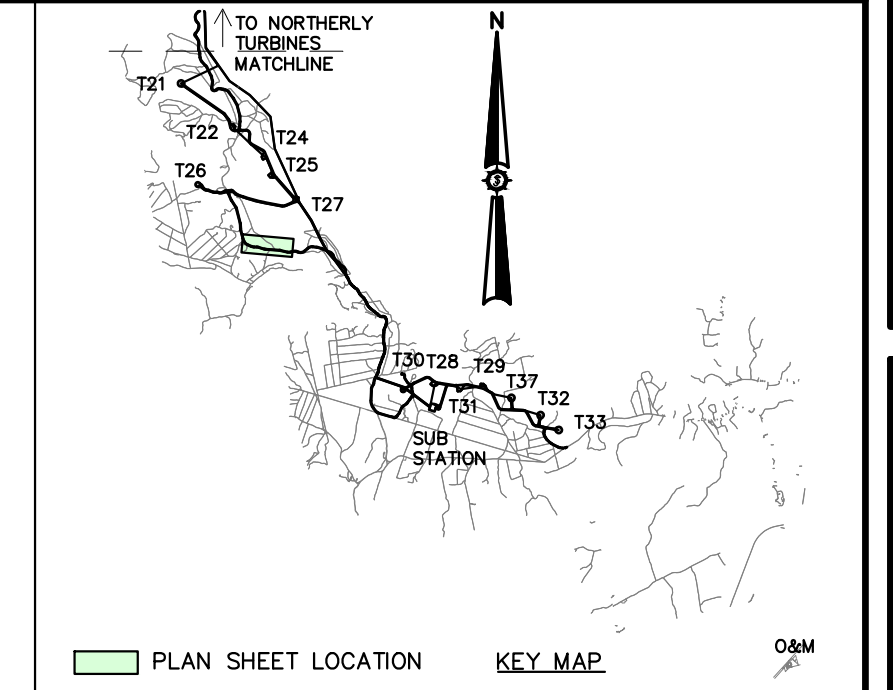
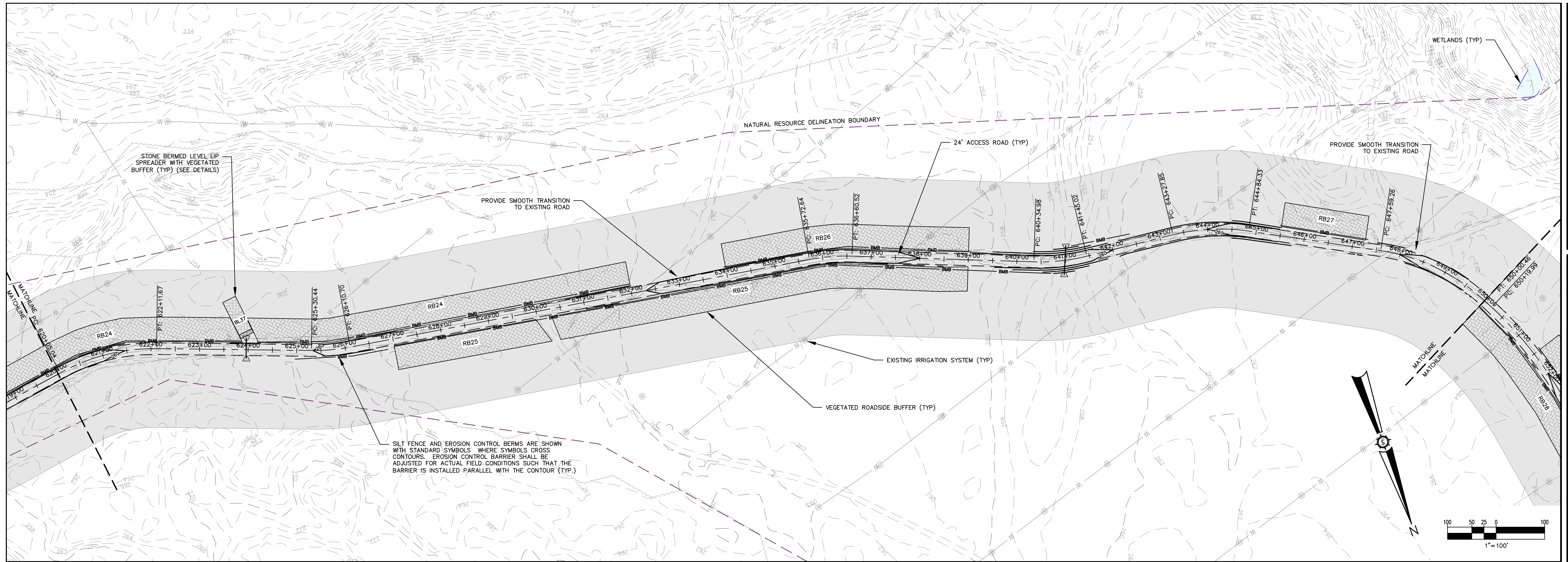
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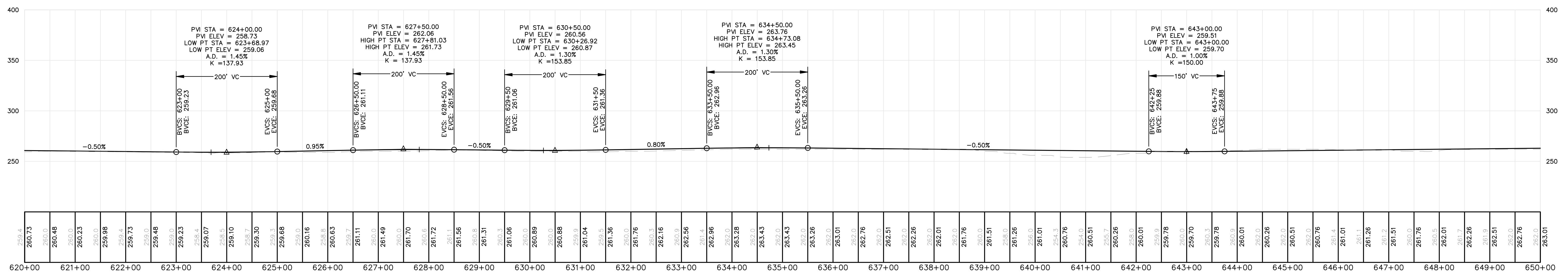
NOT FOR CONSTRUCTION





**ACCESS ROAD 500+00**  
620+00.00 - 650+00.00

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



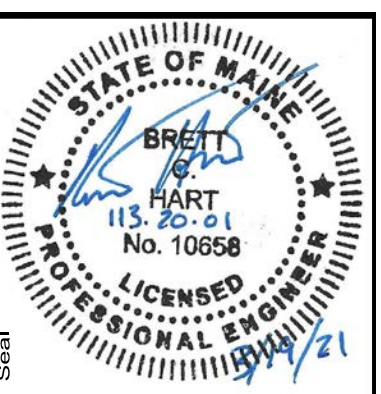
NOT FOR CONSTRUCTION

Date	
Drawn By	MTFB
Checked By	JSM
Approved By	BCH
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Scale	
Drawn By	MTFB
Checked By	JSM
Approved By	BCH

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawing Description: PLAN AND PROFILE



113.20.01

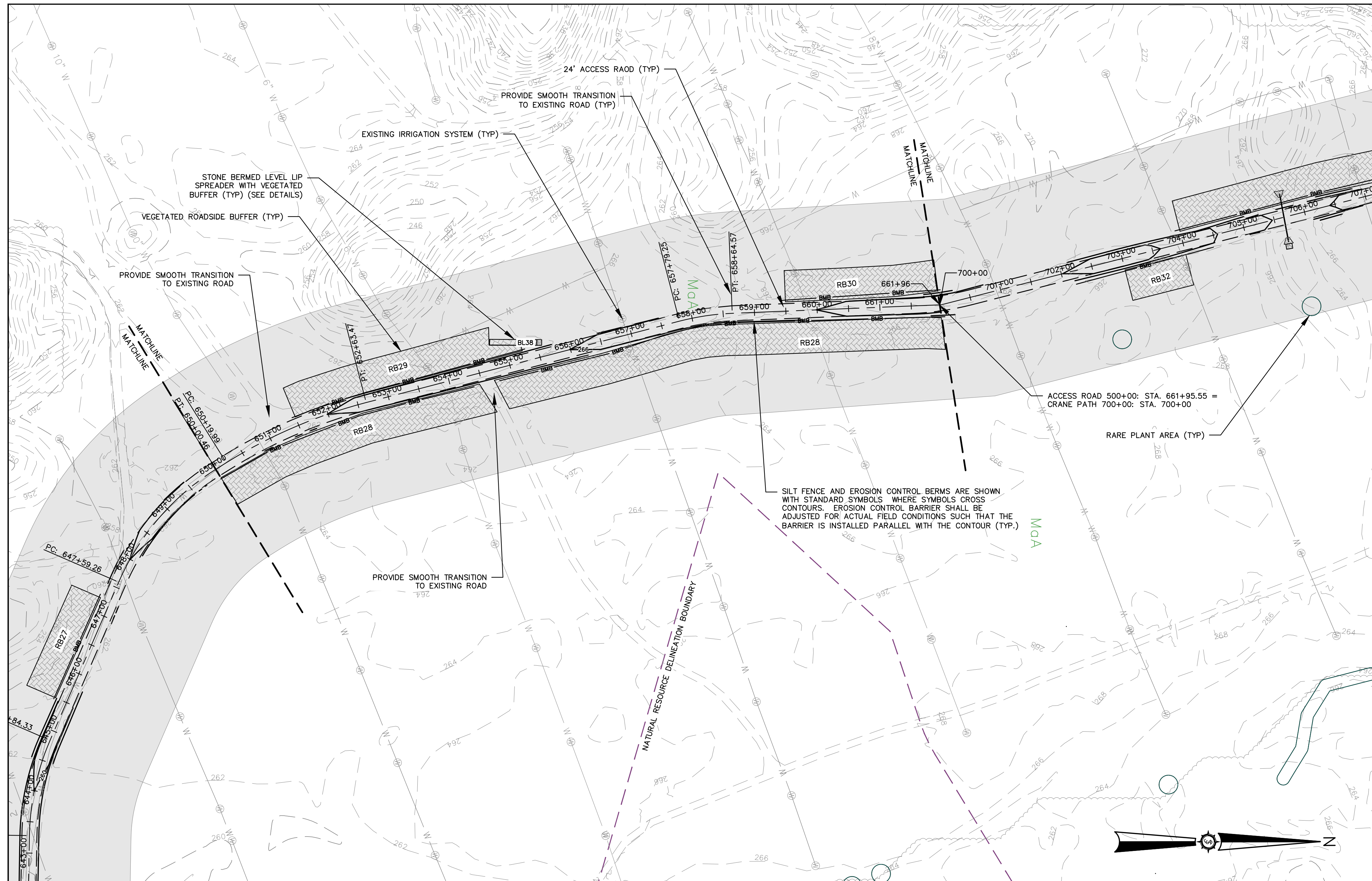
ENGINEERING SURVEYING

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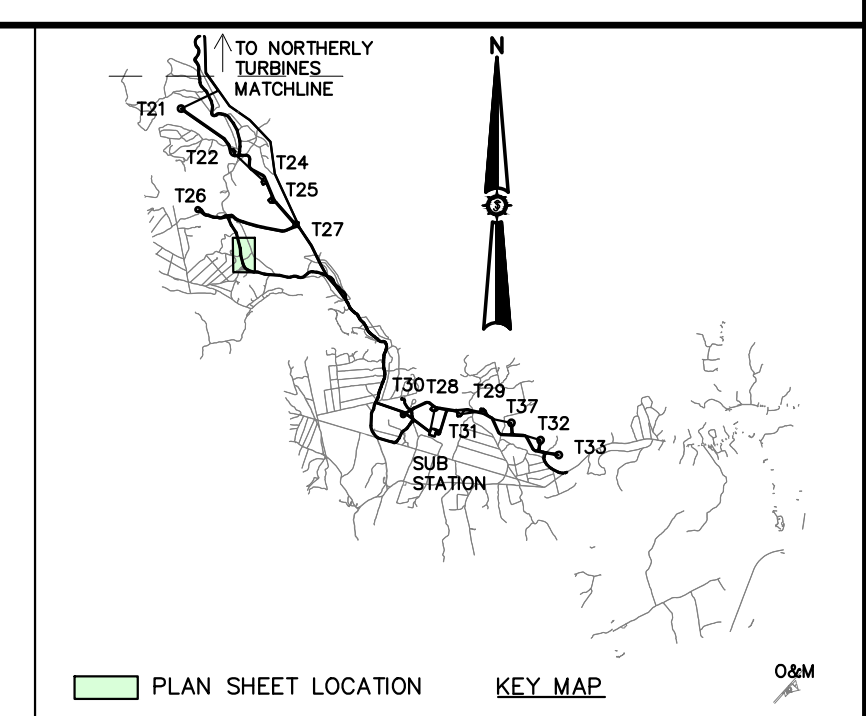
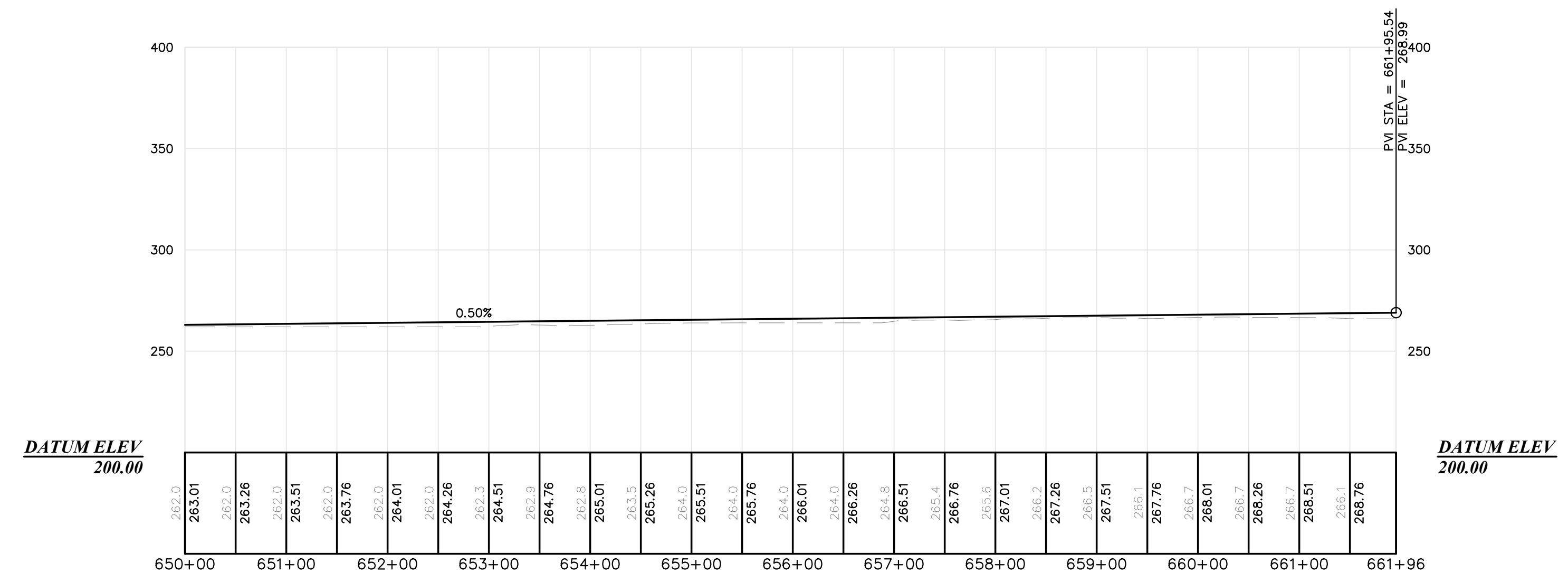


SILT FENCE AND EROSION CONTROL BERMS ARE SHOWN WITH STANDARD SYMBOLS WHERE SYMBOLS CROSS CONTOURS. EROSION CONTROL BARRIER SHALL BE ADJUSTED FOR ACTUAL FIELD CONDITIONS SUCH THAT THE BARRIER IS INSTALLED PARALLEL WITH THE CONTOUR (TYP.)



**ACCESS ROAD 500+00**

650+00.00 - 661+95.55  
 HORIZONTAL: 1"=100'  
 VERTICAL: 1"=50'



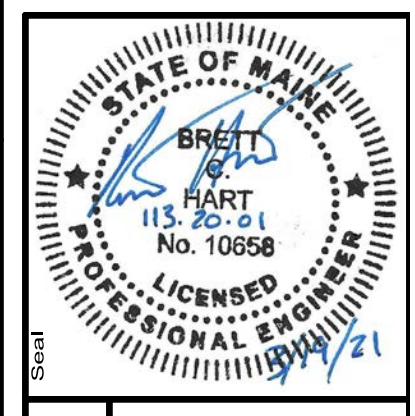
Date		
Rev. #	Prop. By	Description

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 310 4th ST N.E., SUITE 200, CHARLOTTEVILLE, VA

Drawn By: MITFB  
 Checked By: JSM  
 Approved By: BCH

Scale: 1"=100'

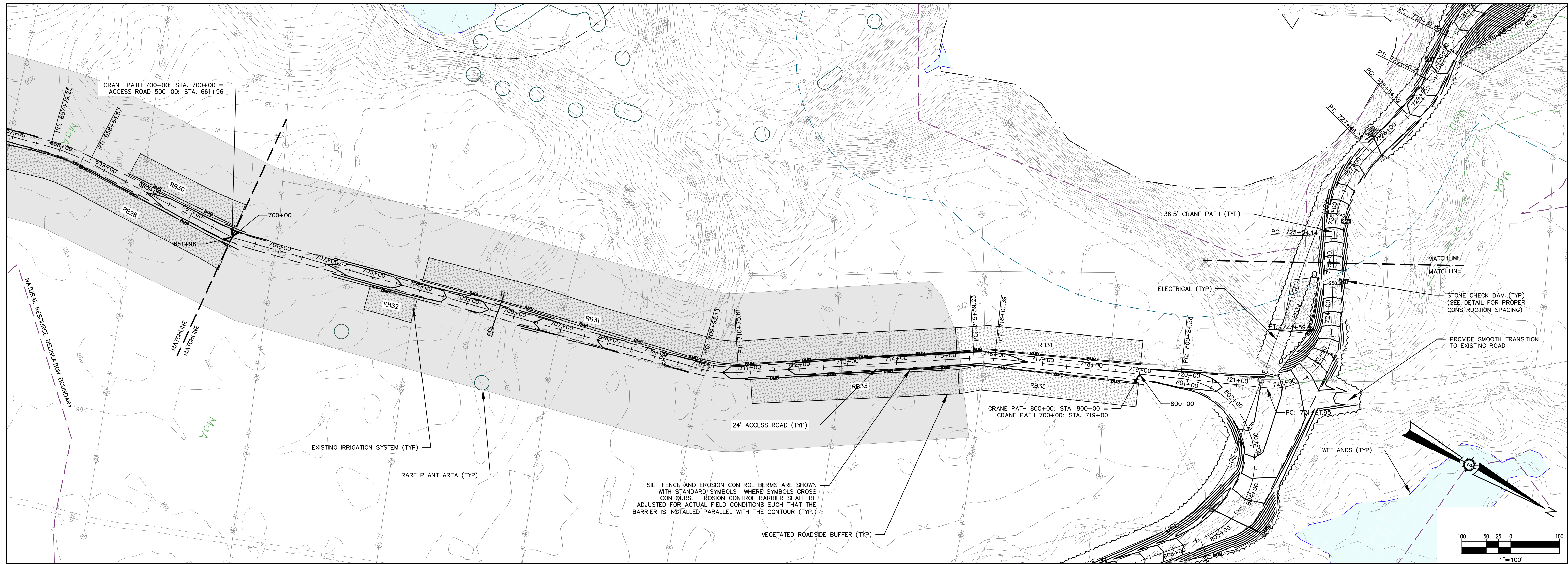
**PLAN AND PROFILE**



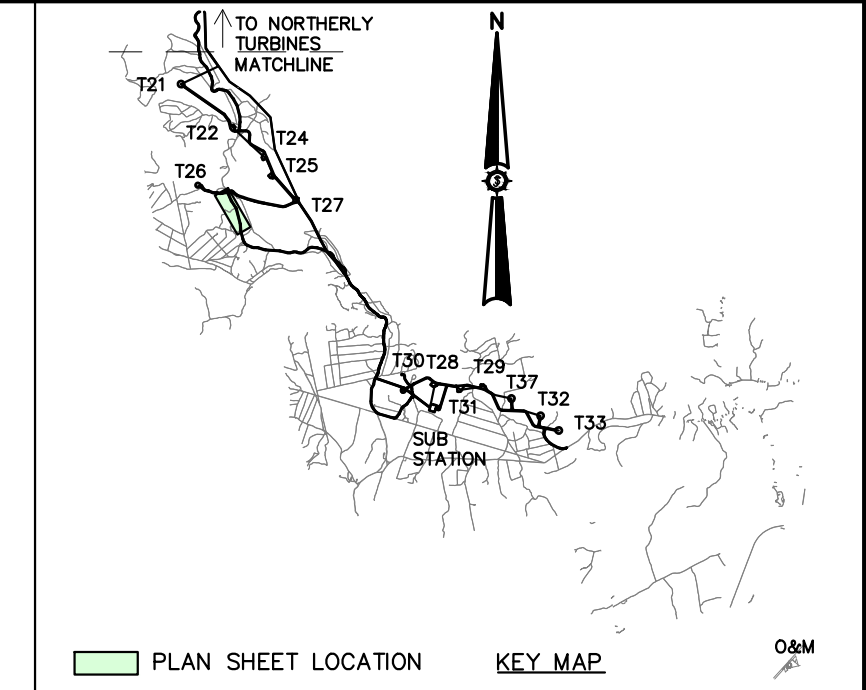
Project No. 113.20.01  
 Phase: SURVEYING  
 ENGINEERING  
 www.sewall.com  
 1 800 648 4202  
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NOT FOR CONSTRUCTION



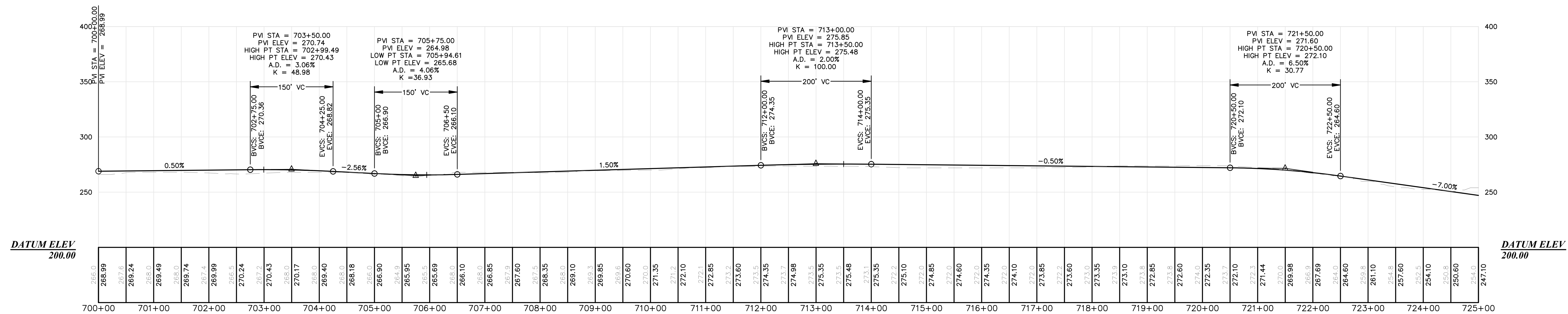


SILT FENCE AND EROSION CONTROL BERMS ARE SHOWN WITH STANDARD SYMBOLS. WHERE SYMBOLS CROSS CONTOURS, EROSION CONTROL BARRIER SHALL BE ADJUSTED FOR ACTUAL FIELD CONDITIONS SUCH THAT THE BARRIER IS INSTALLED PARALLEL WITH THE CONTOUR (TYP.)



**CRANE PATH 700+00**  
700+00.00' - 725+00.00'

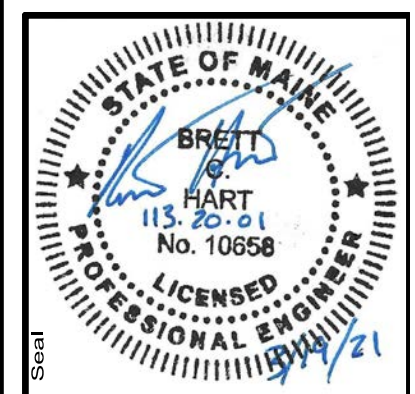
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VERTICAL: 1"=50'



NOT FOR CONSTRUCTION

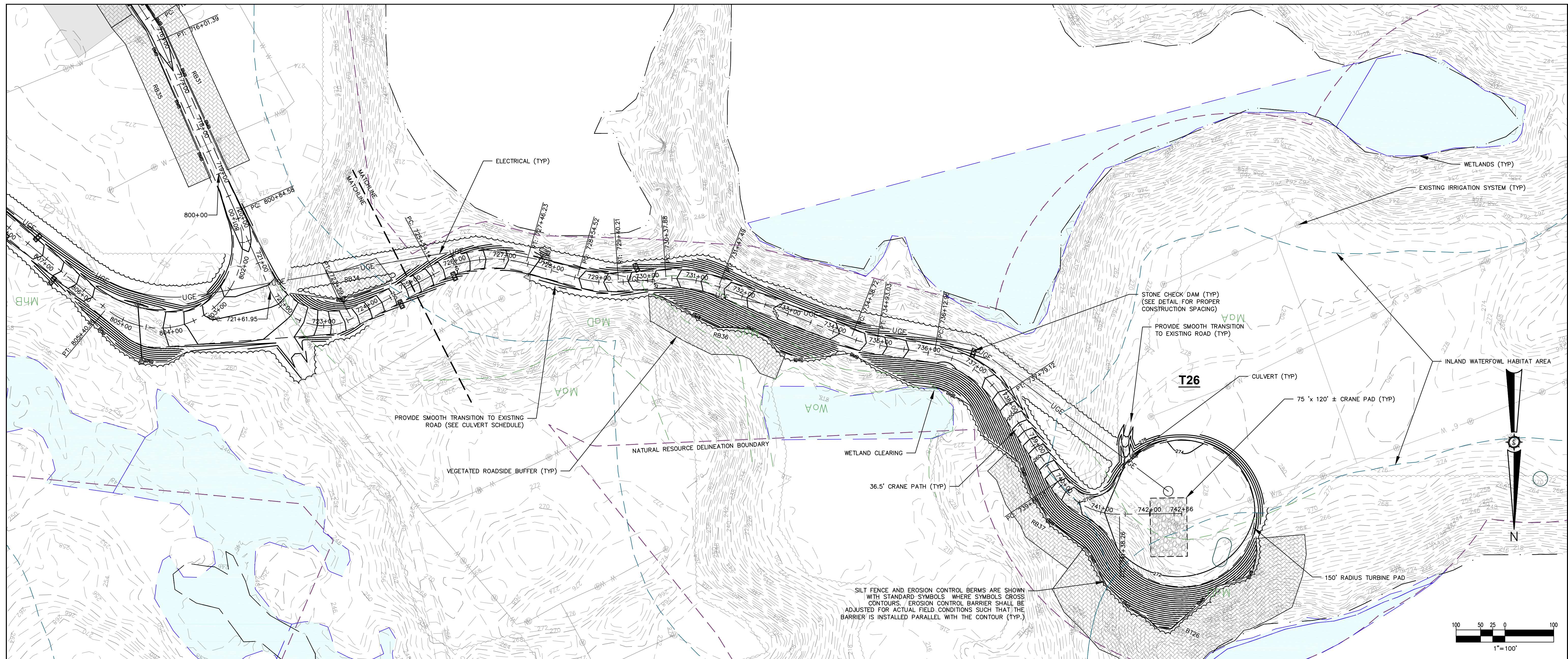
Drawn By	MTEB
Checked By	JSM
Approved By	BCH

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T19 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
Project Location: COLUMBIA, T19 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
Drawing Description: PLAN AND PROFILE



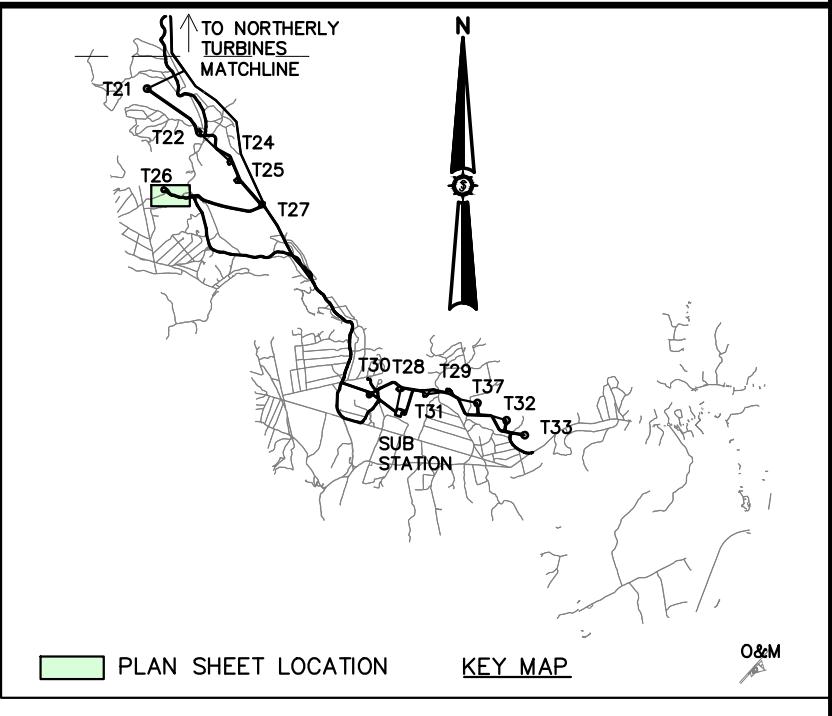
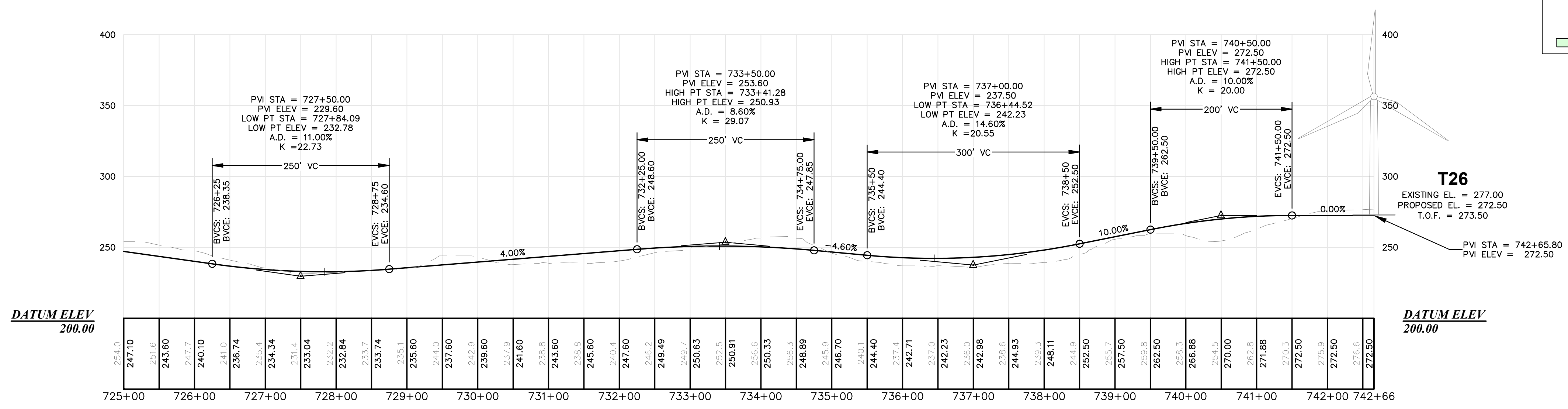
113.20.01  
SURVEYING  
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1 800 648 4202





**CRANE PATH 700+00**

725+00.00 - 742+65.81  
 HORIZONTAL: 1"=100'  
 VERTICAL: 1"=50'



Rev.	Date	By	Description

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

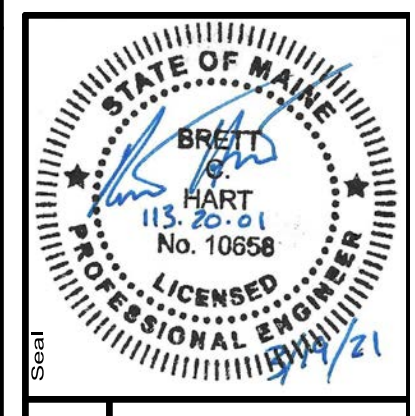
Drawn By: MITFB  
 Checked: JSM

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Scale: 1"=100'

Approved: BCH

**PLAN AND PROFILE**

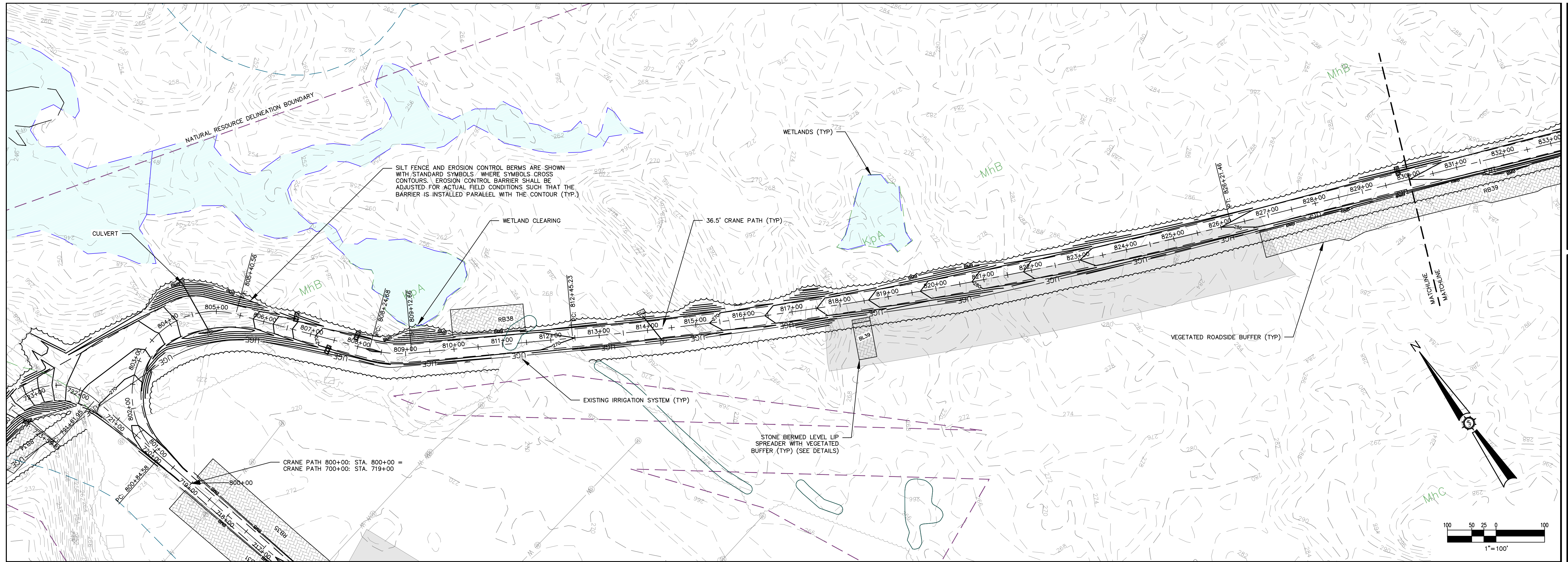


113.20.01

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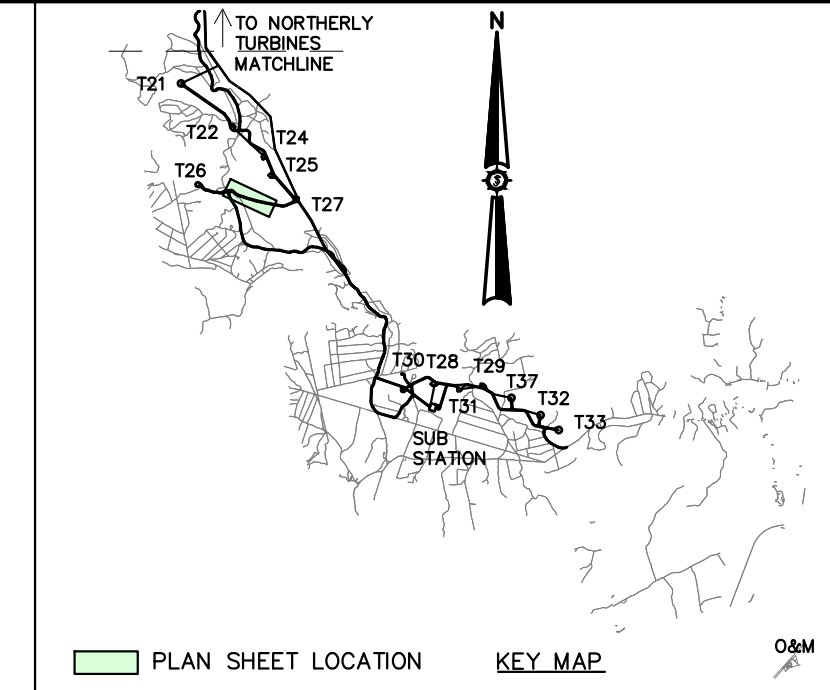
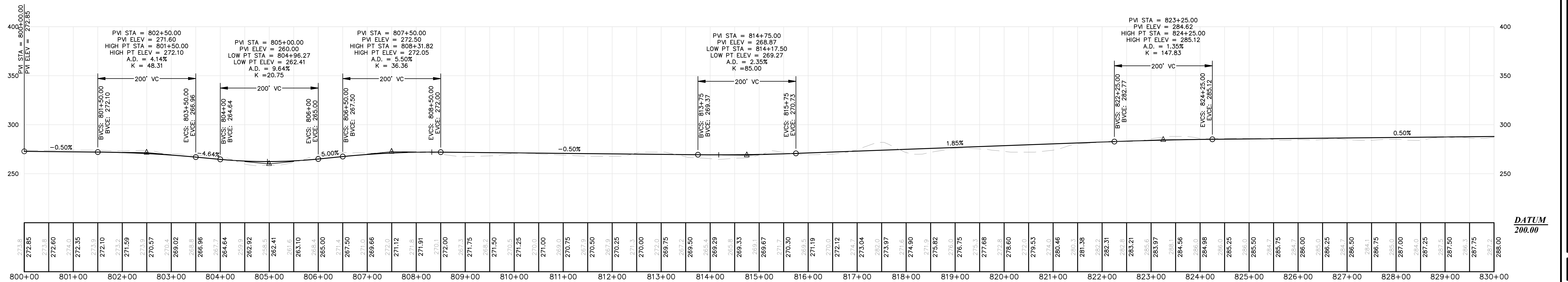
NOT FOR CONSTRUCTION





**CRANE PATH 800+00**

800+00.00 - 830+00.00  
 HORIZONTAL: 1"=100'  
 VERTICAL: 1"=50'

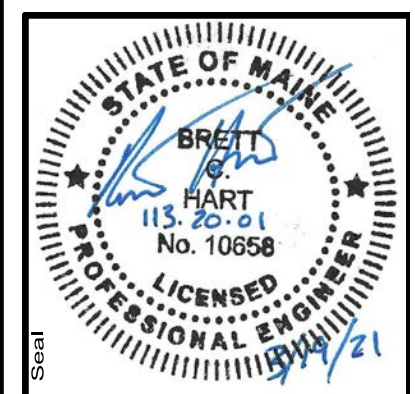


Drawn By	MIFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Approved	BCH
Checked	JSM

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 CHARDOTTESVILLE, VA

Project Location  
 COLUMBIA, T19 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawing Description  
**PLAN AND PROFILE**



Project No. 113.20.01

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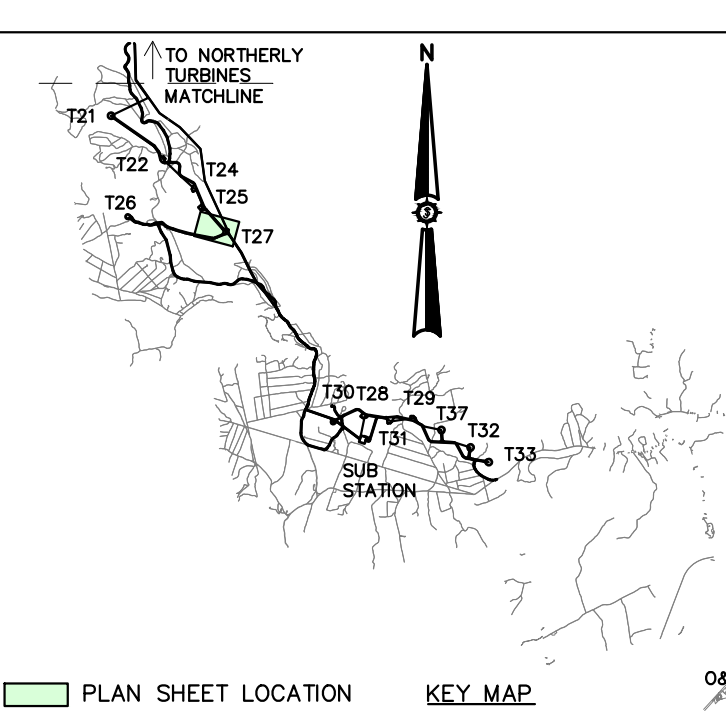
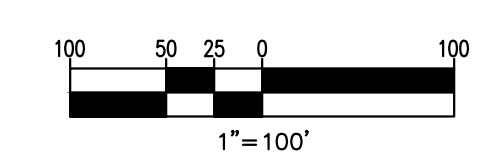
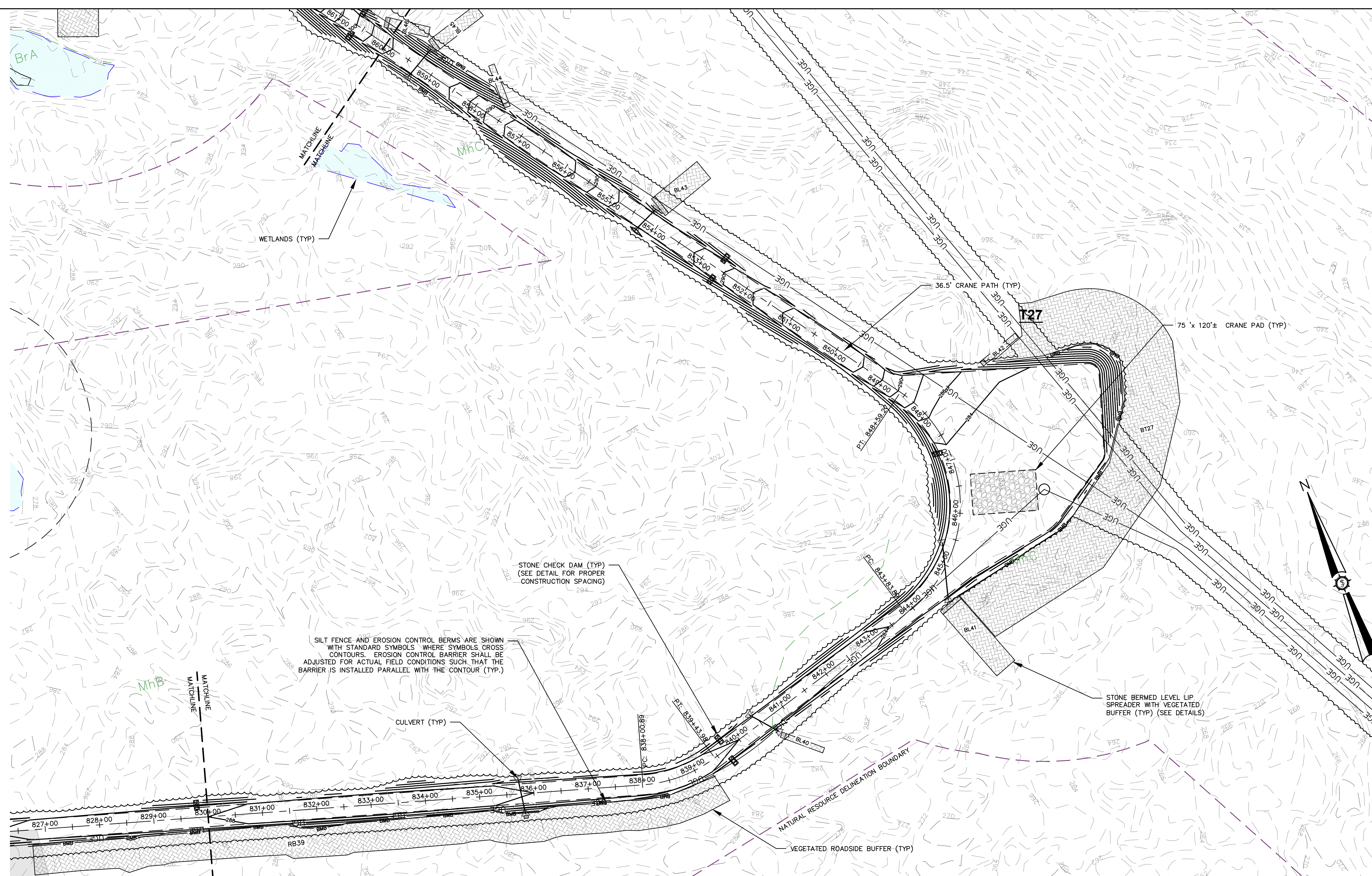
www.sewal.com 1 800 648 4202

Phase: **PERMIT**

Sheet No. **16.1**

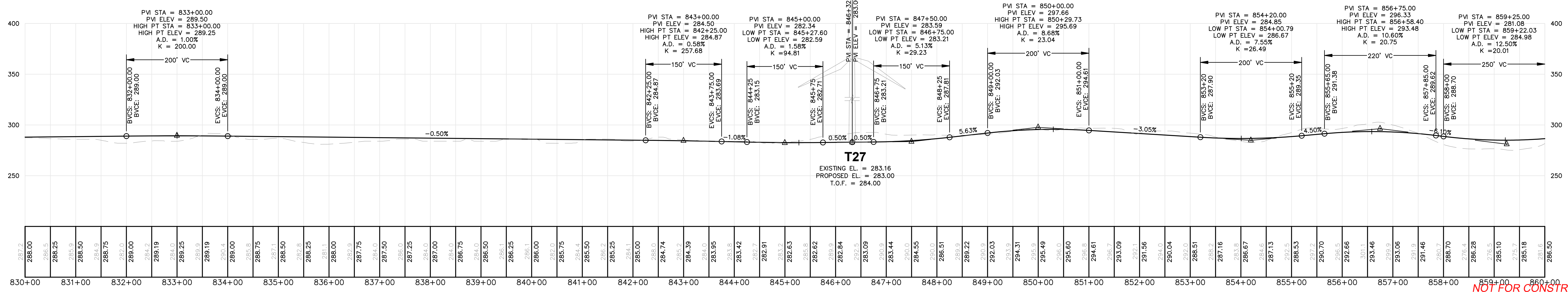
NOT FOR CONSTRUCTION





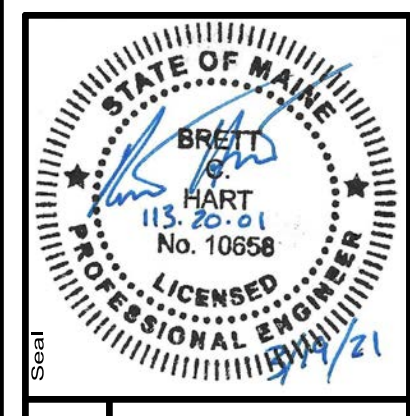
**CRANE PATH 800+00**  
830+00.00 - 860+00.00

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



Drawn By	MIFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
CHARLESTOWN, VA  
Project Location  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
Drawing Description  
**PLAN AND PROFILE**

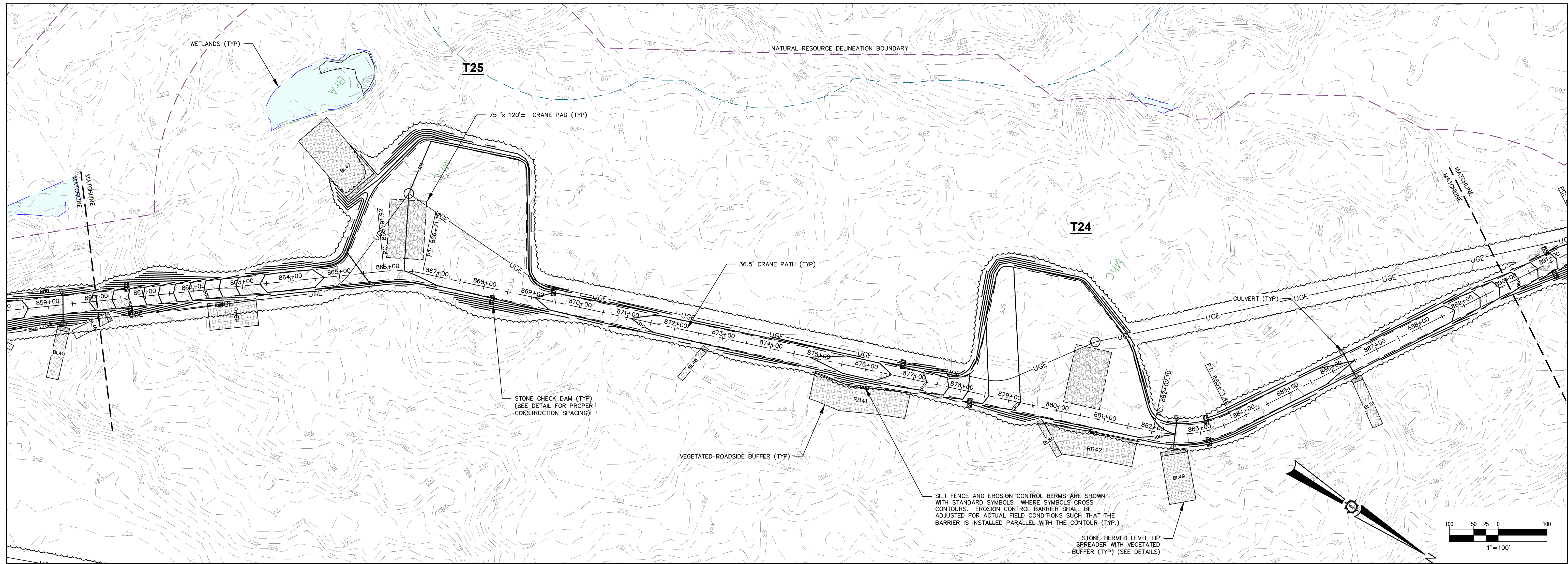


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SURVEYING  
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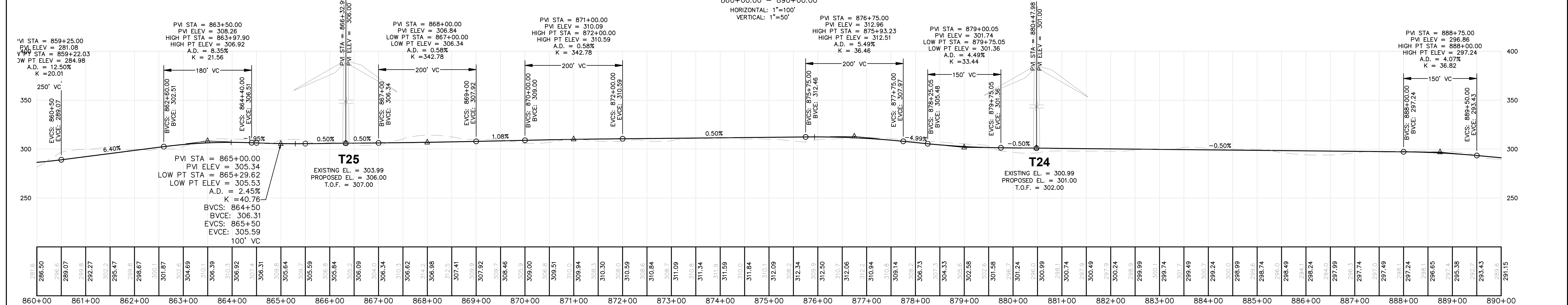
Phase  
**PERMIT**  
Sheet No.  
**16.2**

NOT FOR CONSTRUCTION





**CRANE PATH 800+00**  
860+00.00 - 890+00.00

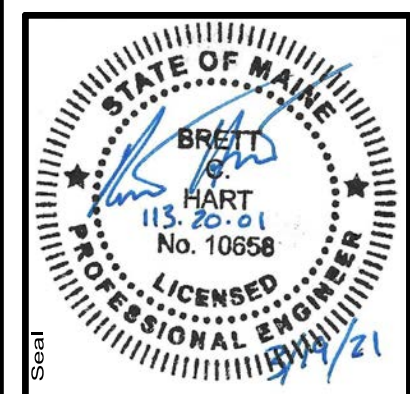


Drawn By	MTEB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawn By: MTEB  
Checked By: JSM  
Designated By: BCH  
Date: 03/19/2021  
Scale:   
Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
Drawing Description:   
Approved: BCH  
Checked: JSM

**PLAN AND PROFILE**



113.20.01

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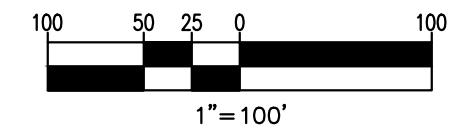
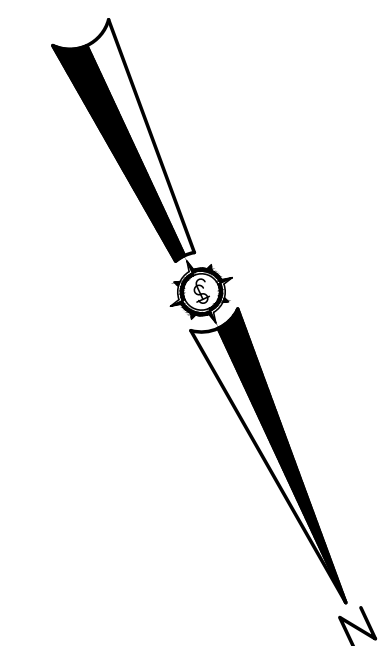
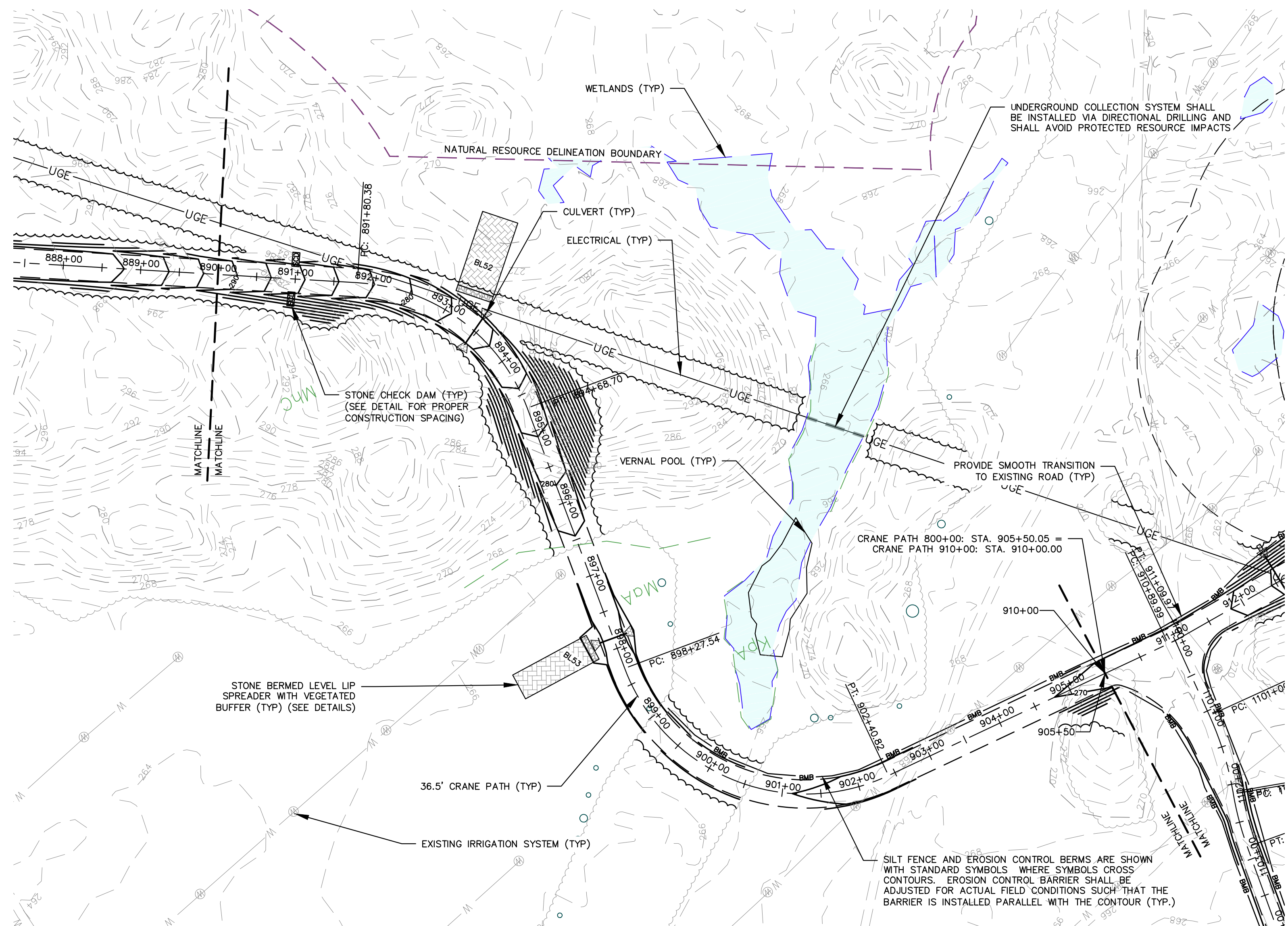
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PERMIT

Sheet No. **16.3**

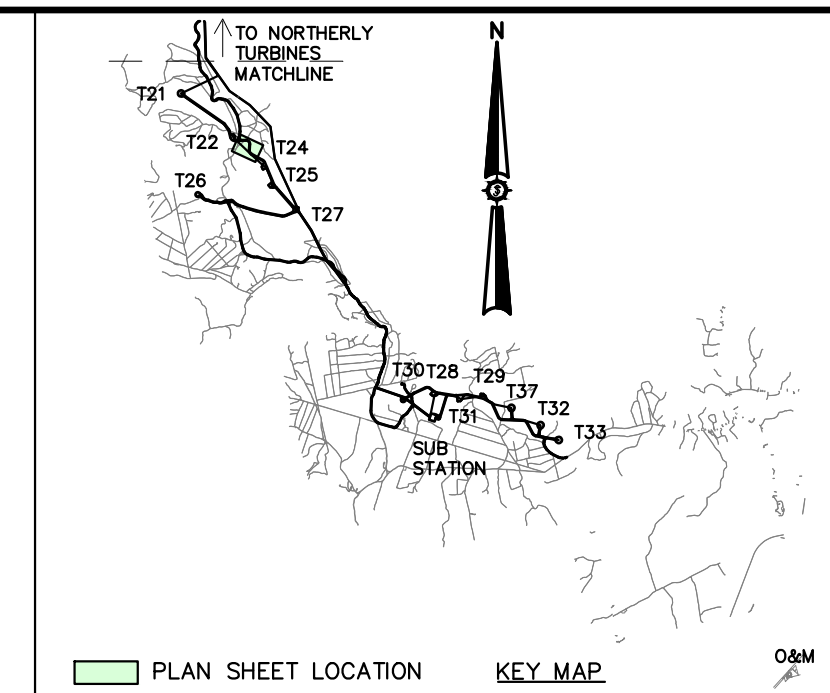
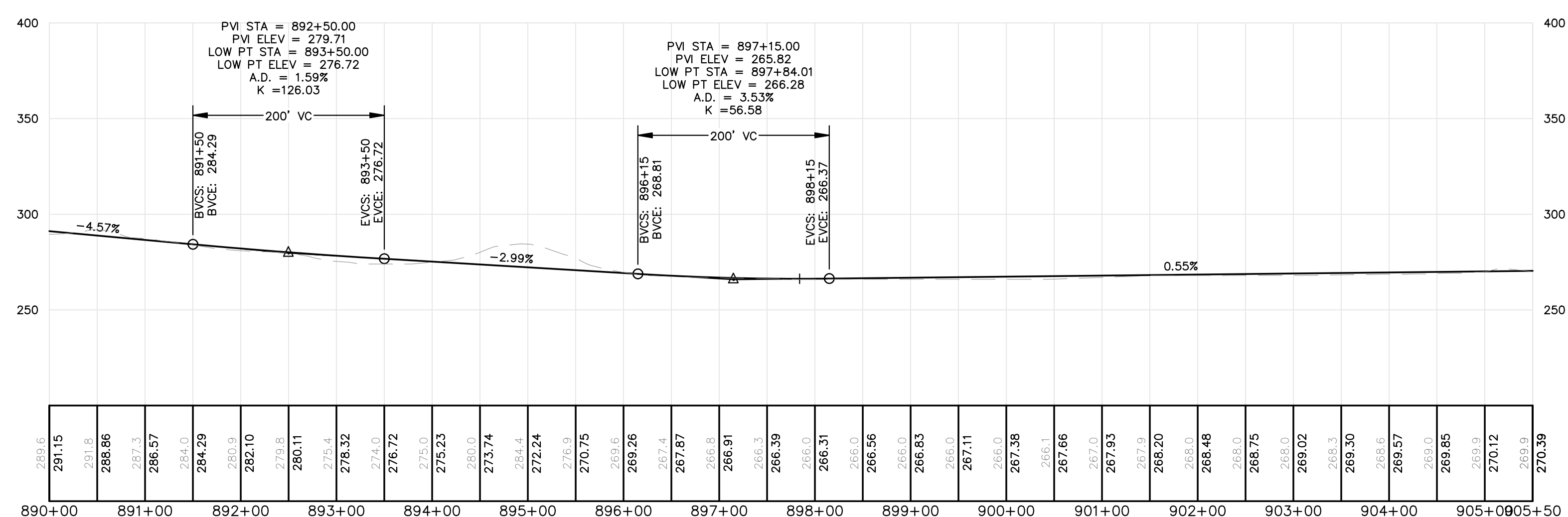
NOT FOR CONSTRUCTION





**CRANE PATH 800+00**  
890+00.00 — 905+50.05

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'

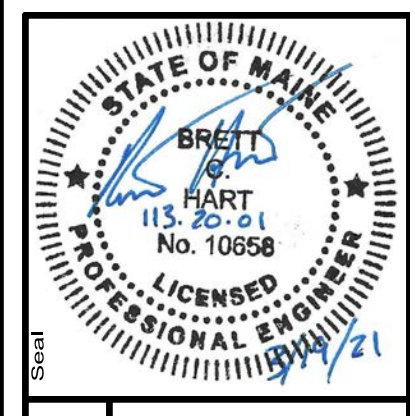


Rev. #	Drawn By	Description	Date

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINEProject Location: CHARLOTTEVILLE, VA

Drawn By: MITFB  
Checked: JSM  
Approved: BCH

**PLAN AND PROFILE**



Project No. 113.20.01

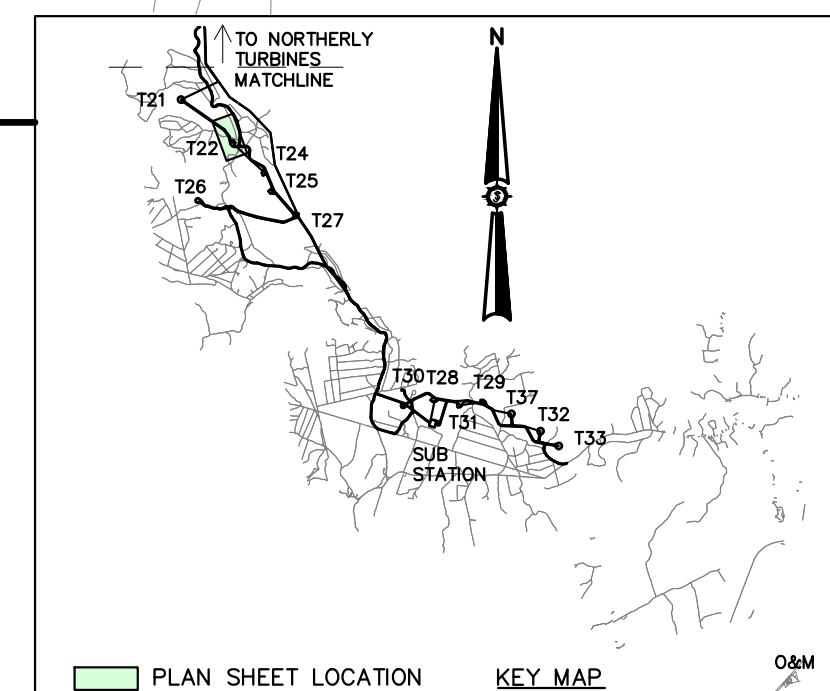
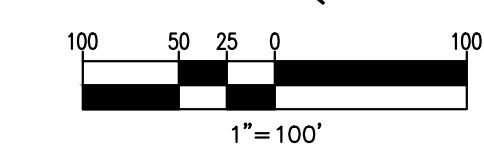
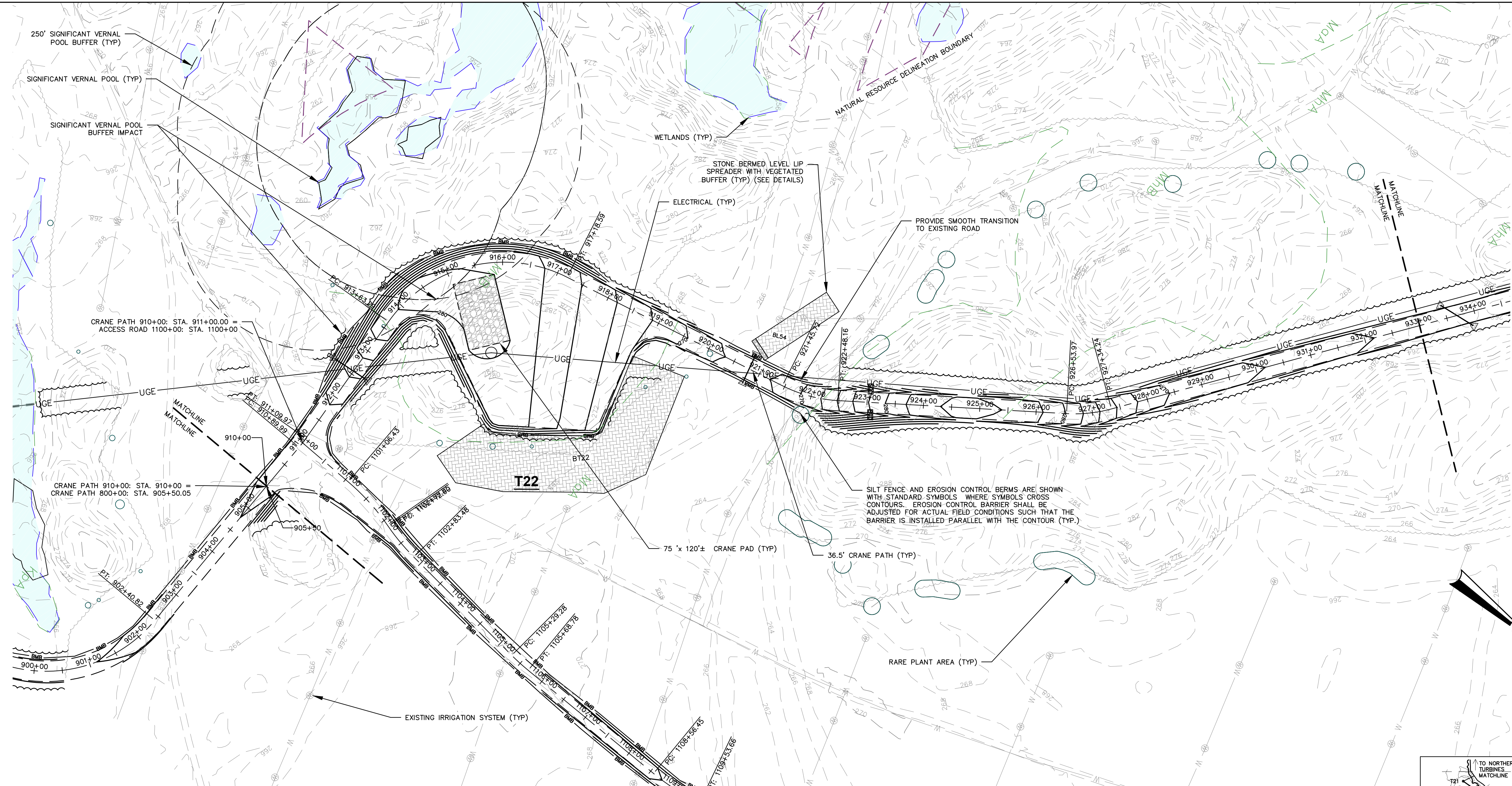
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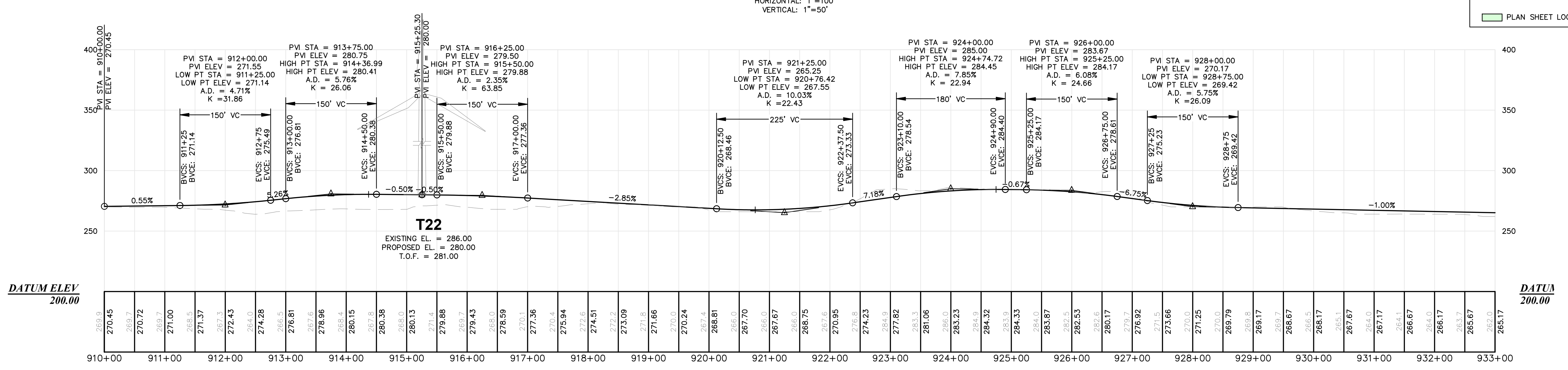
NOT FOR CONSTRUCTION





### CRANE PATH 910+00

910+00.00 - 933+00.00  
 HORIZONTAL: 1"=100'  
 VERTICAL: 1"=50'



Drawn By	MIFB
Designated By	BCH
Date	03/19/2021
Scale	
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	PLAN AND PROFILE
Checked	JSM
Approved	BCH

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

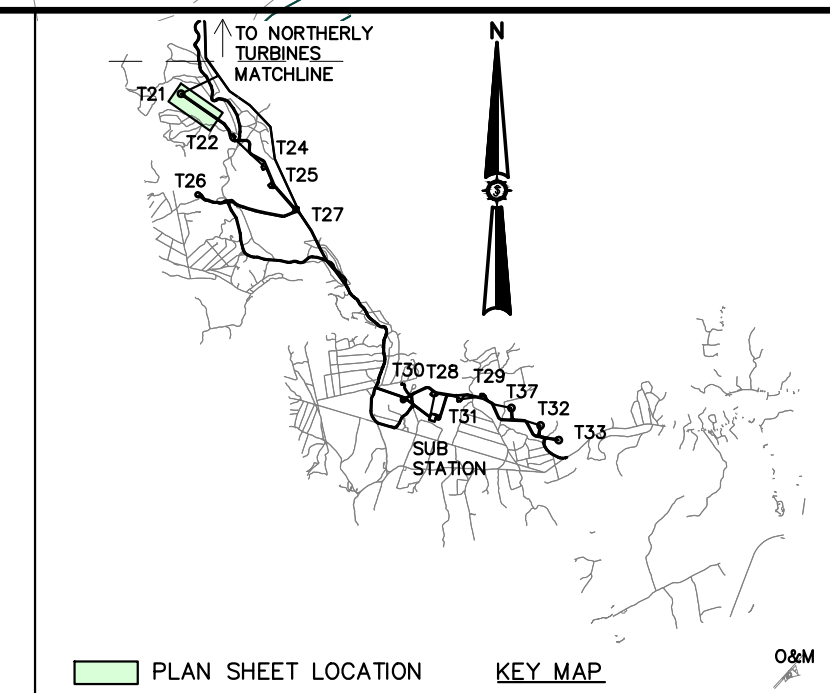
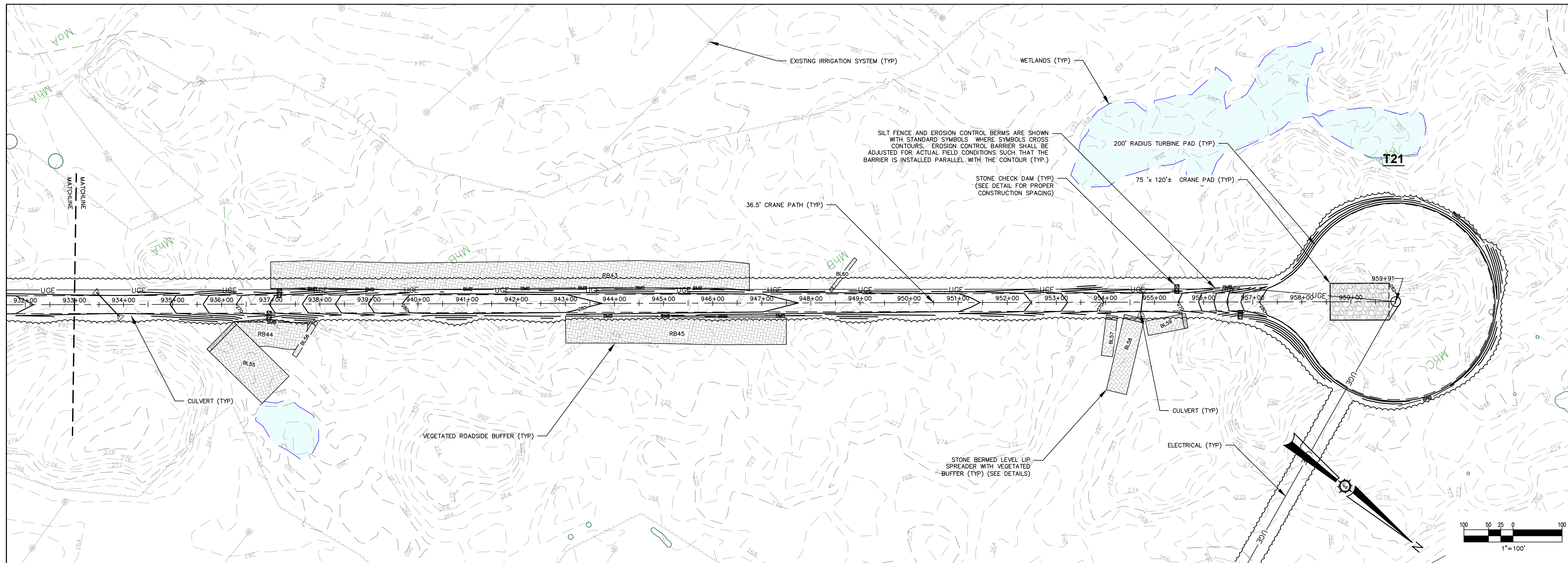
STATE OF MAINE  
 BRITT  
 HART  
 113.20.01  
 LICENSED PROFESSIONAL ENGINEER  
 No. 10858

113.20.01  
 SURVEYING  
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Phase: **PERMIT**  
 Sheet No.: **17.1**

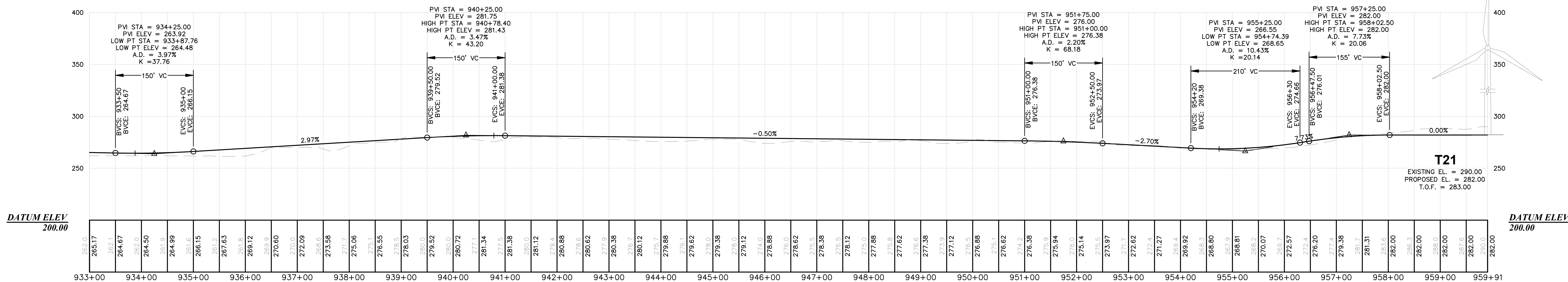
NOT FOR CONSTRUCTION





### CRANE PATH 910+00

933+00.00 - 959+91.13  
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 VERTICAL: 1"=50'

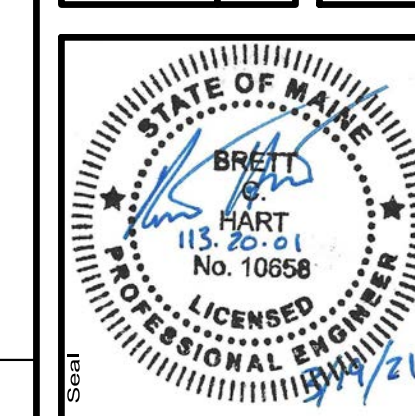


Rev.	Date	By	Description

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 310 4th ST NE, SUITE 200, CHARLOTTEVILLE, VA

Drawn By: MITFB  
 Checked By: JSM  
 Designated By: BCH  
 Scale: 03/19/2021  
 Approved By: BCH

**PLAN AND PROFILE**

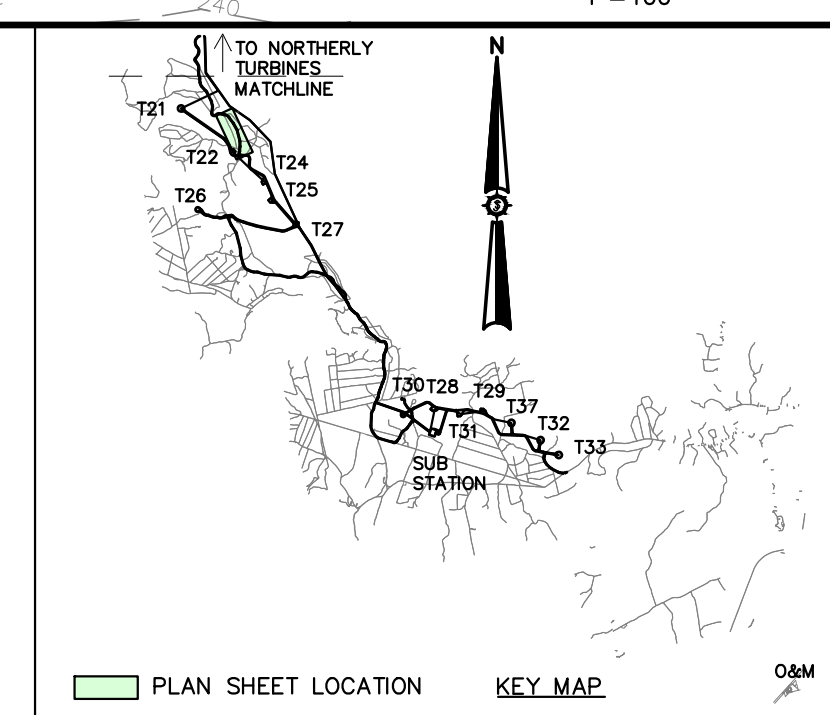
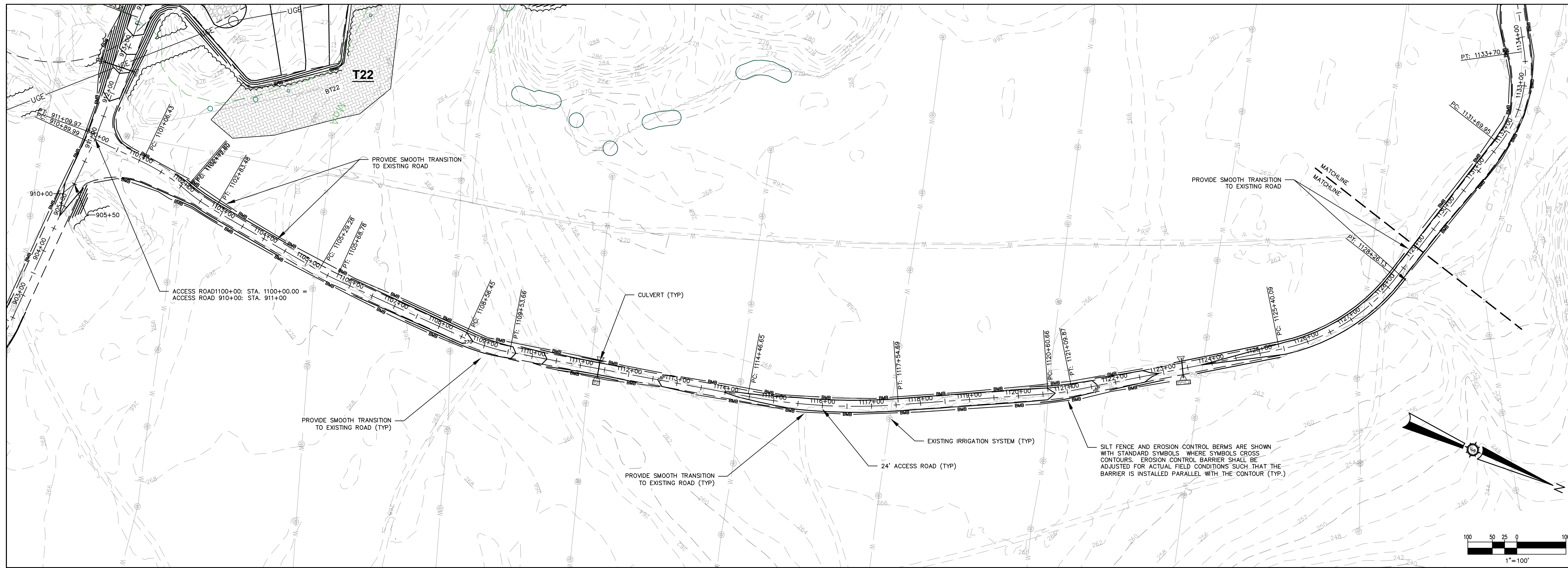


113.20.01  
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Phase: **PERMIT**  
 Sheet No.: **17.2**

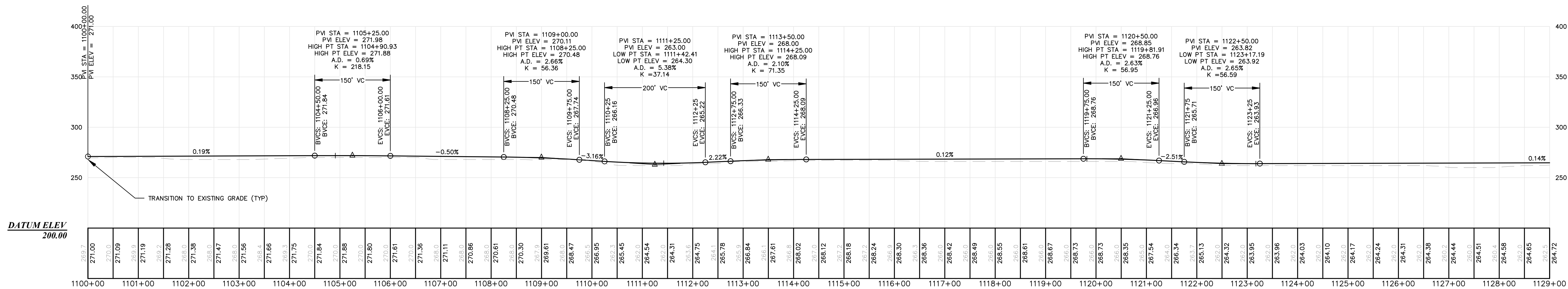
NOT FOR CONSTRUCTION





**ACCESS ROAD 1100+00**  
1100+00.00 - 1129+00.00

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VERTICAL: 1"=50'

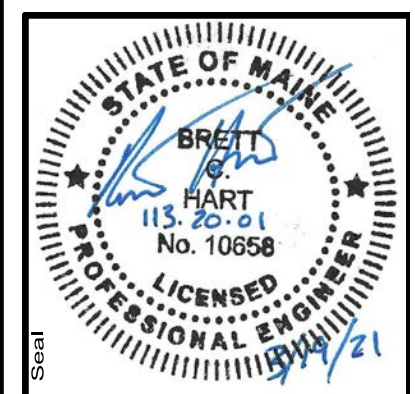


Drawn By	MTEB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawing Description: **PLAN AND PROFILE**



Project No: **113.20.01**

ENGINEERING SURVEYING

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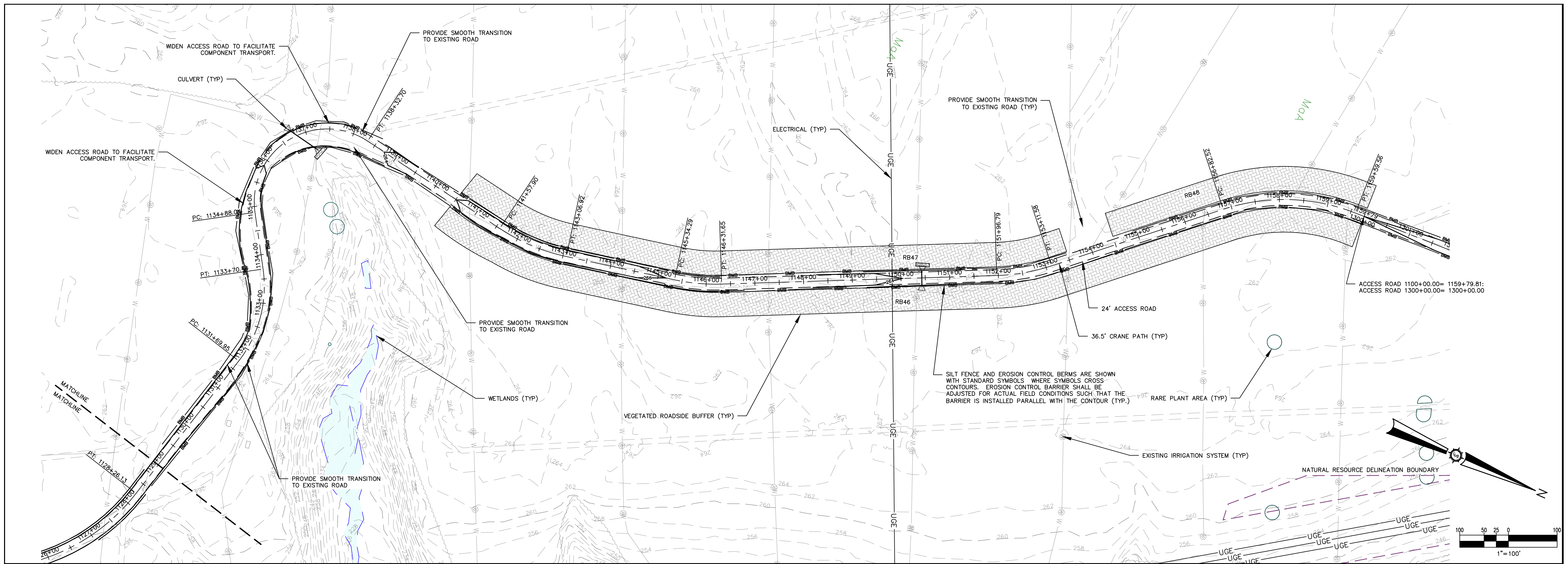
www.sewal.com 1 800 648 4202

Phase: **PERMIT**

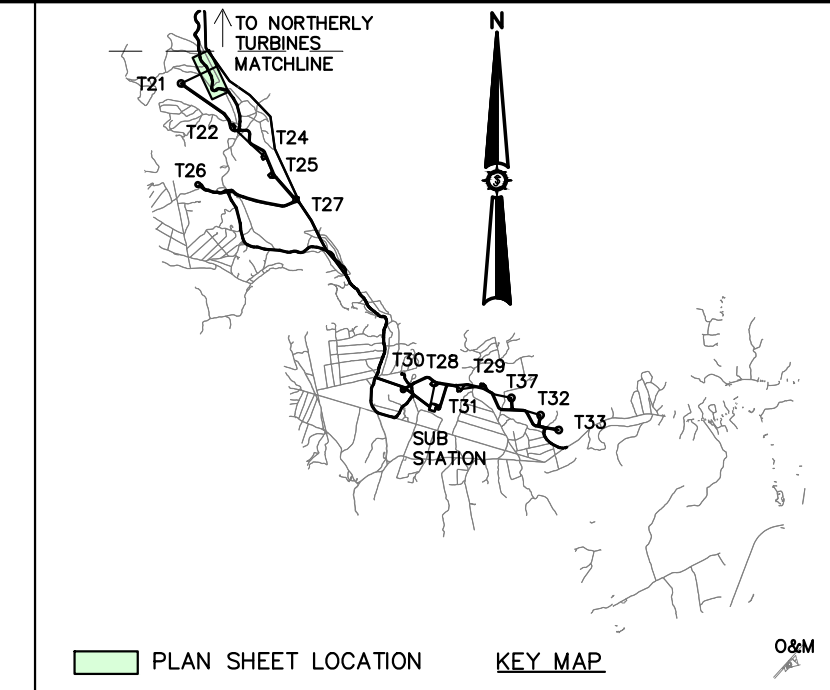
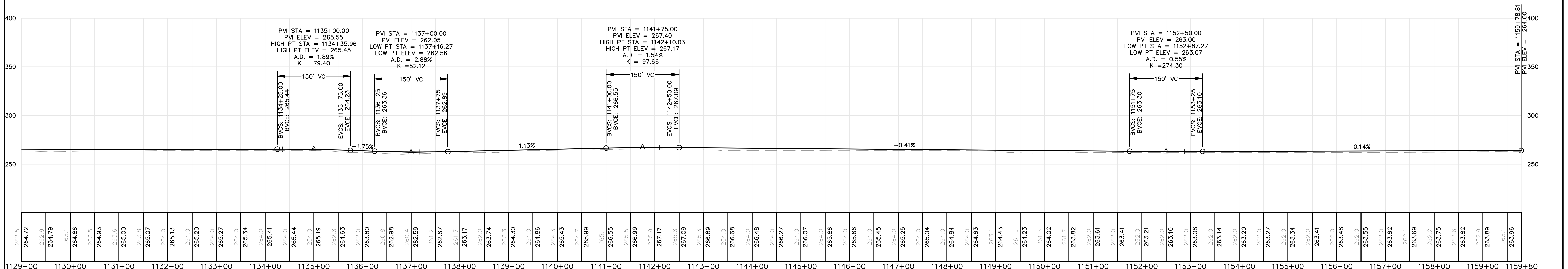
Sheet No: **18.1**

NOT FOR CONSTRUCTION





**ACCESS ROAD 1100+00**  
 1129+00.00 — 1159+80.00  
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 VERTICAL: 1"=50'

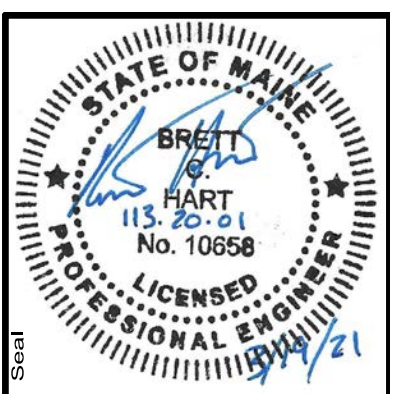


Date	
Drawn By	MTFB
Checked By	JSM
Approved By	BCH
Designated By	BCH
Scale	1"=100'
Drawn Date	03/19/2021
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	PLAN AND PROFILE

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 Drawing Description: PLAN AND PROFILE

Approved By: BCH  
 Checked By: JSM



Project No. 113.20.01

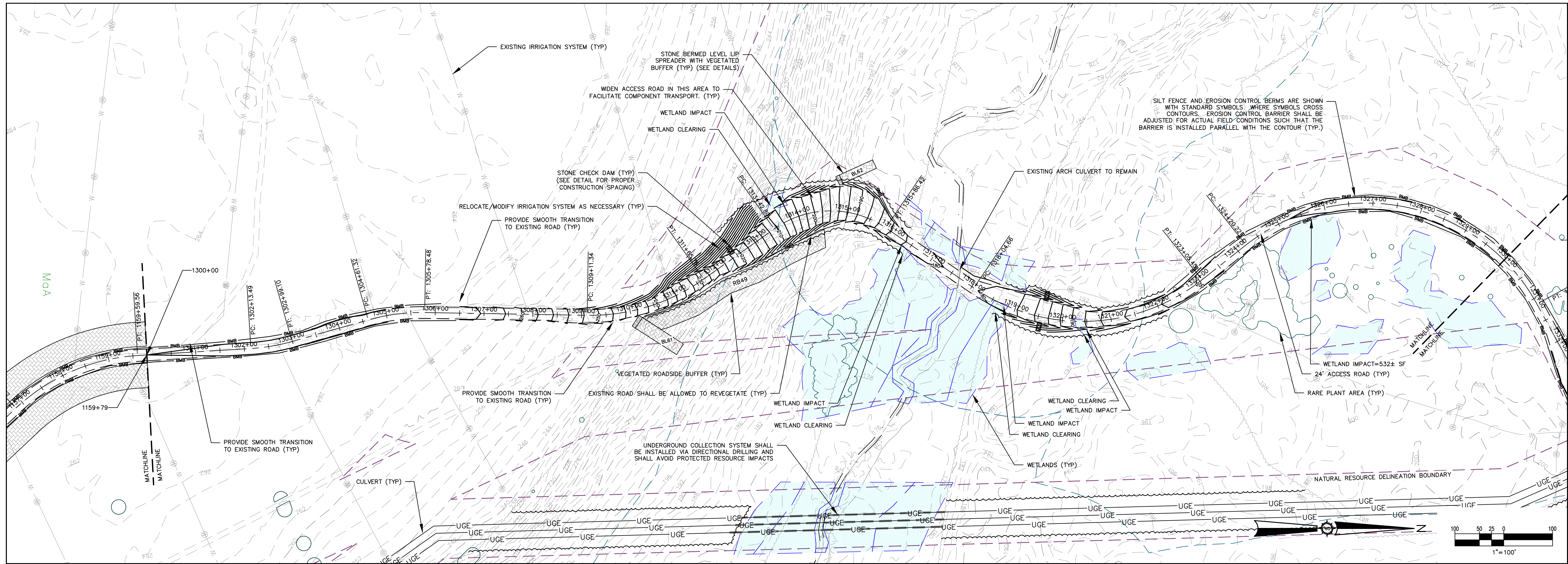
ENGINEERING SURVEYING

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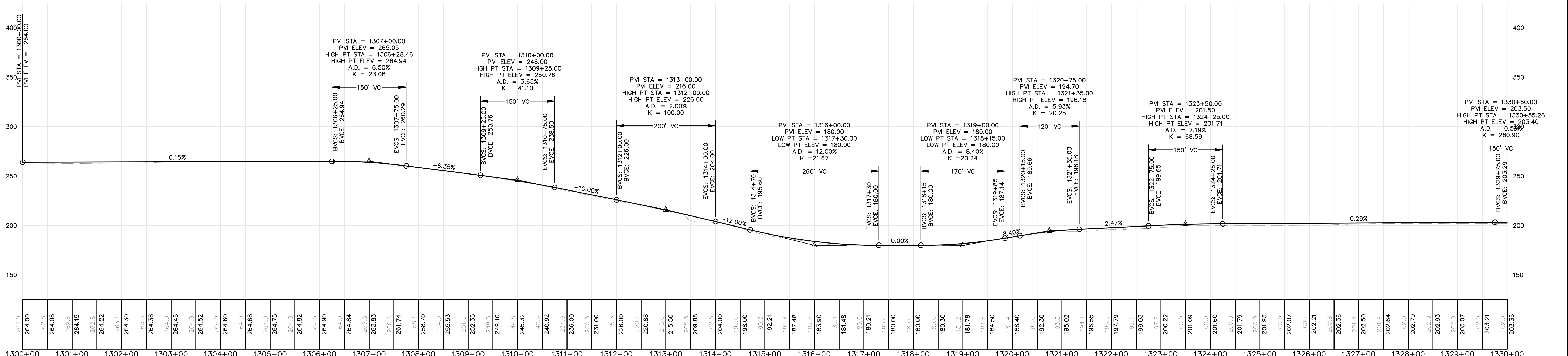
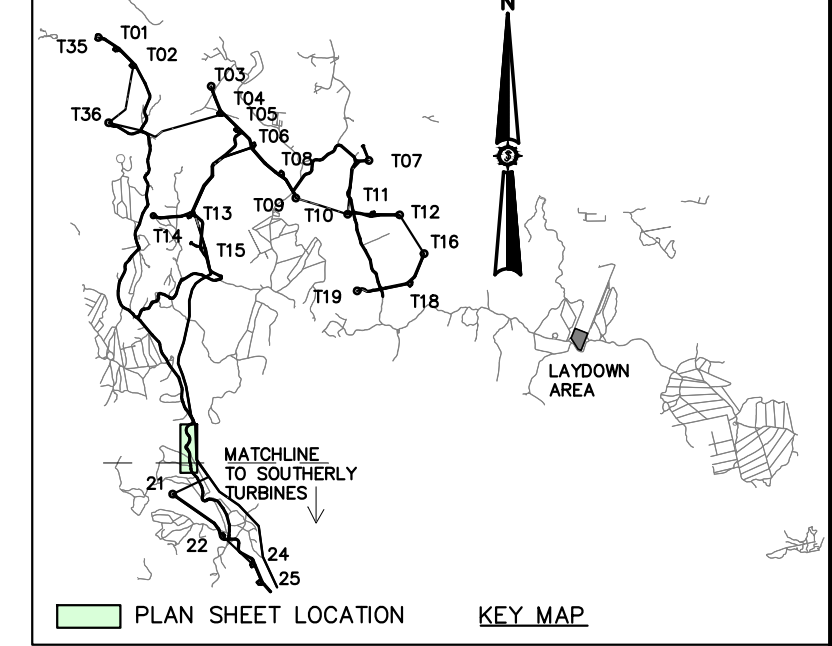
NOT FOR CONSTRUCTION





**ACCESS ROAD 1300+00**  
1300+00.00 - 1330+00.00

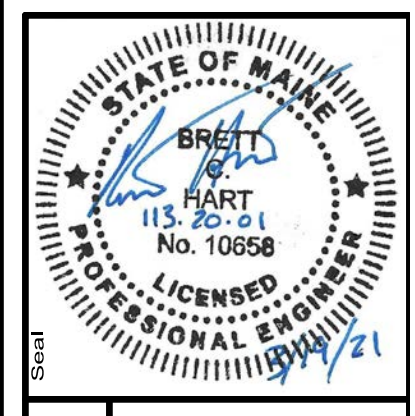
HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



Drawn By	MITFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	PLAN AND PROFILE

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th STREET, SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

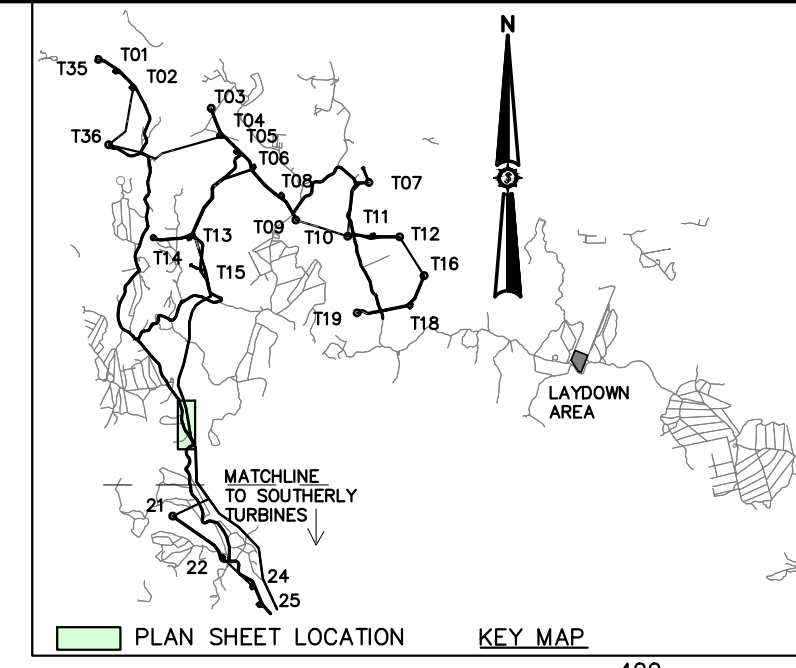
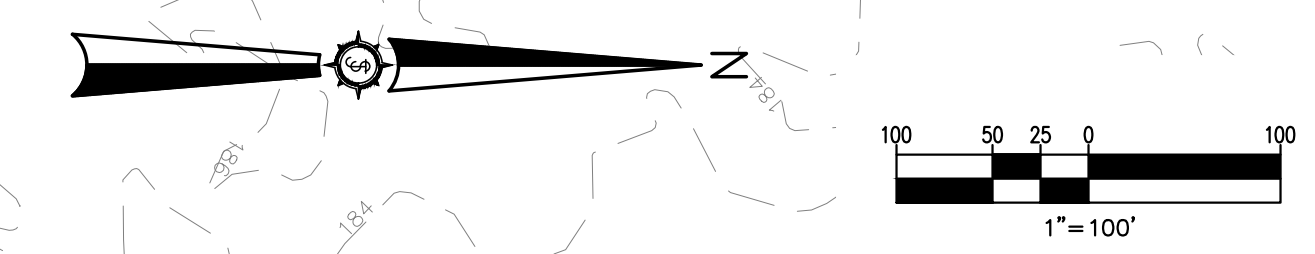
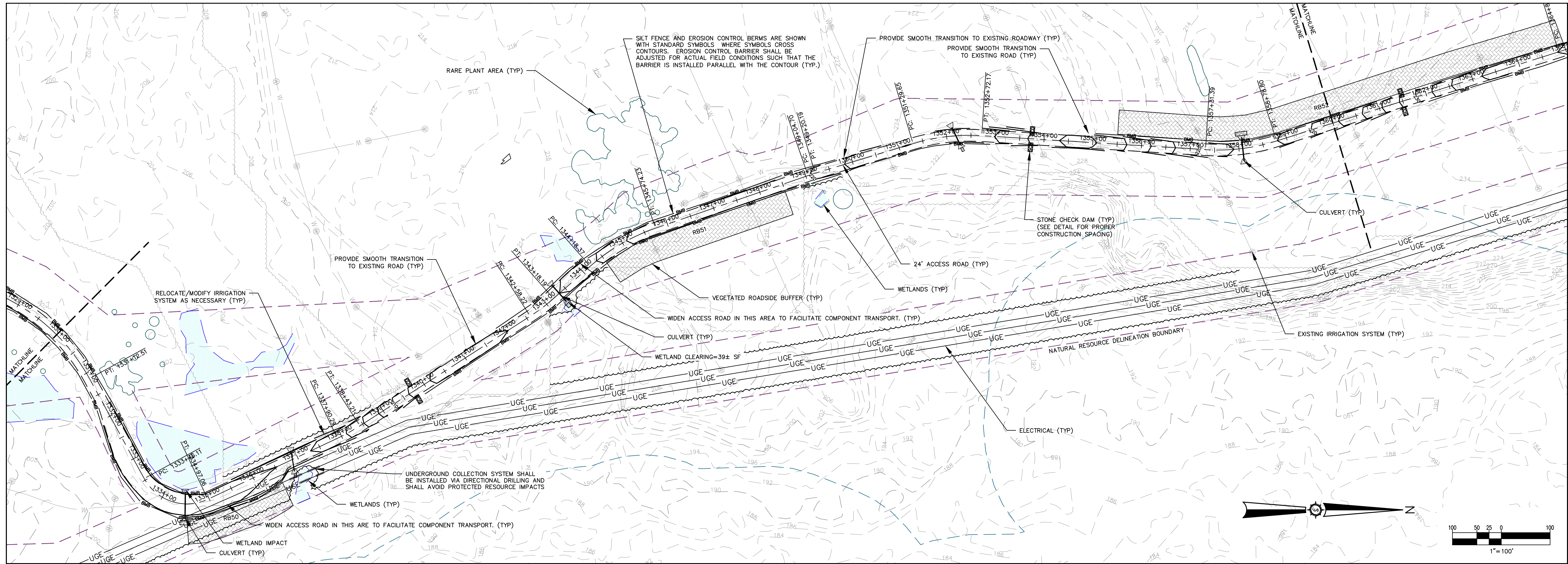
Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
Drawing Description: PLAN AND PROFILE



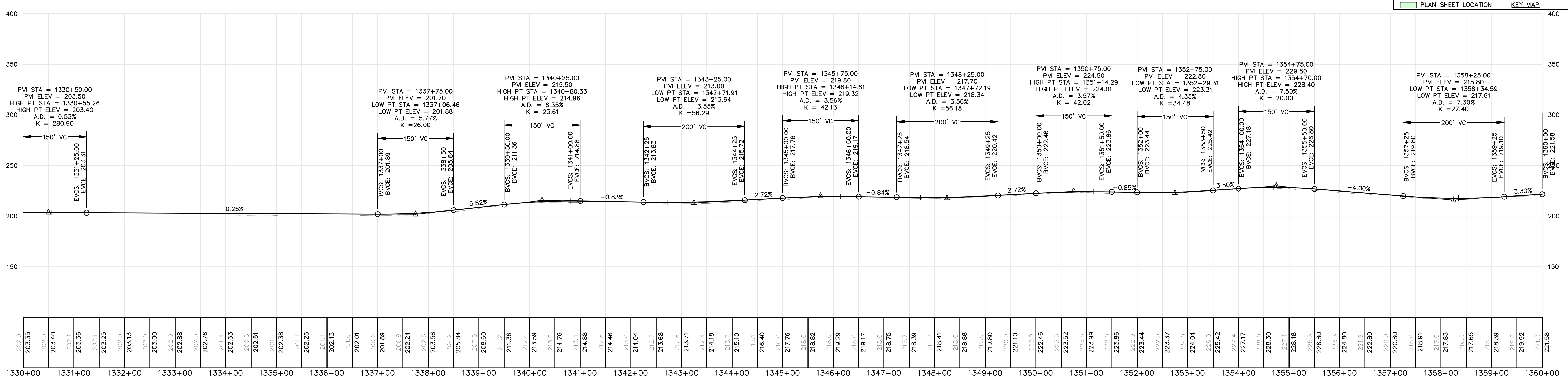
113.20.01  
ENGINEERING SURVEYING  
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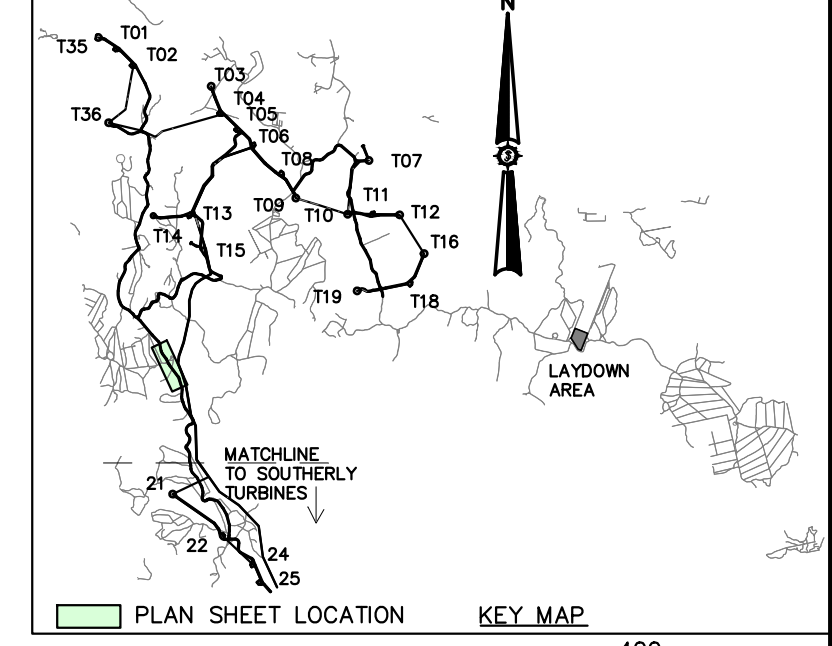
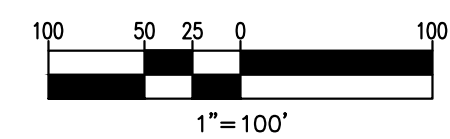
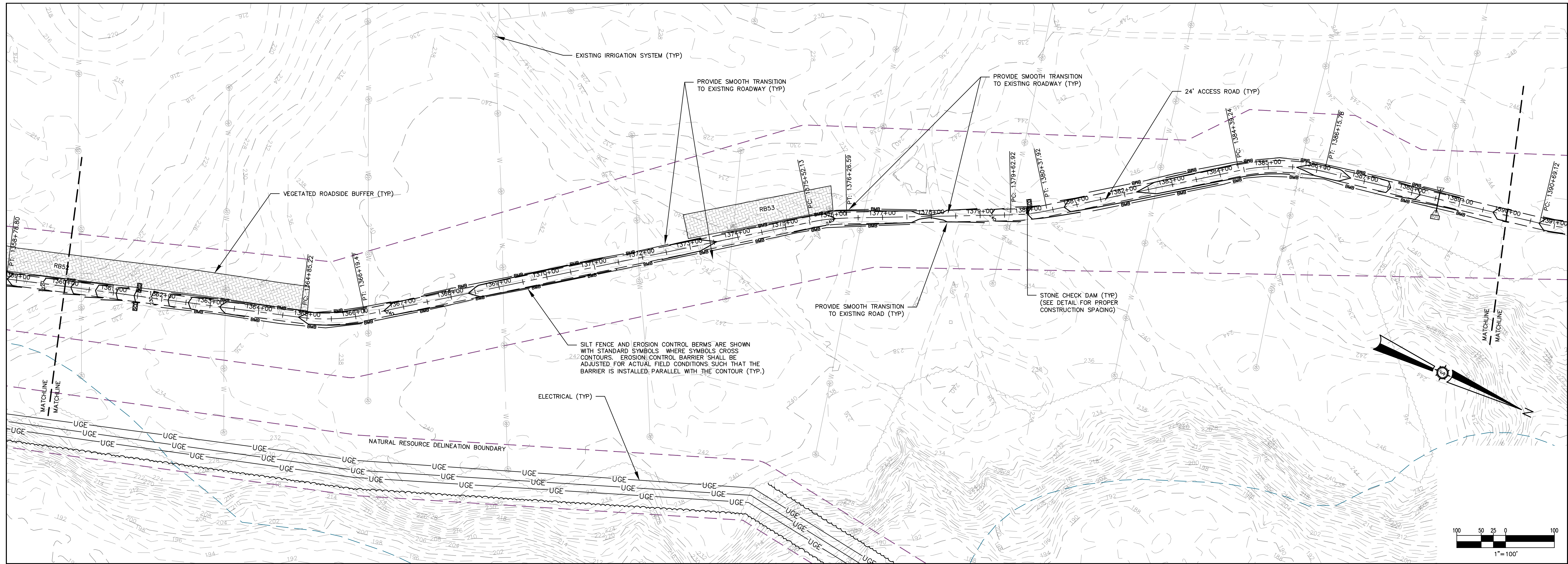




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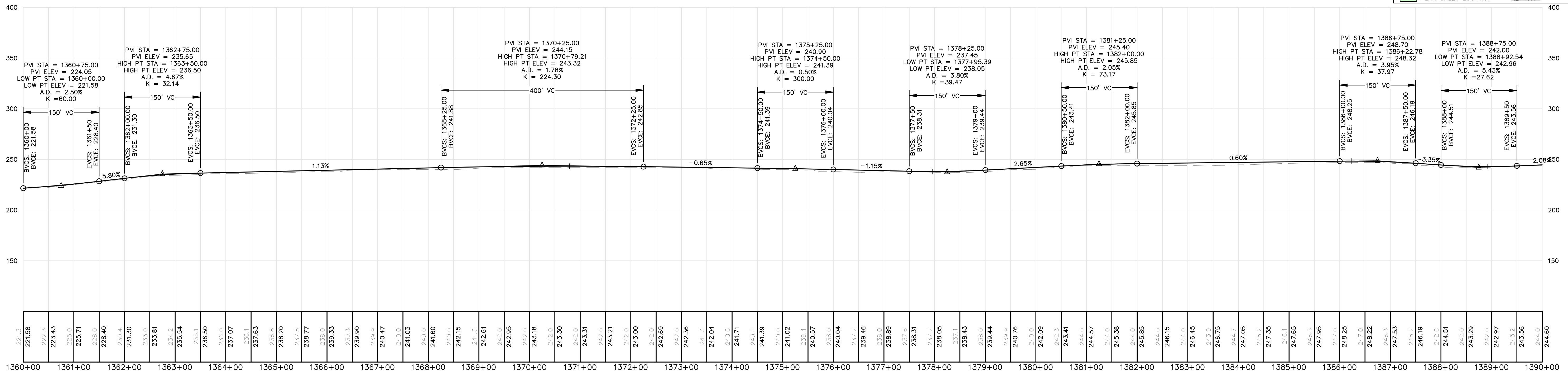






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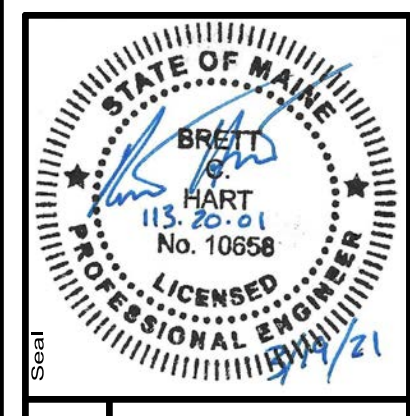


Drawn By	MTEB
Checked By	JSM
Scale	As Shown
Date	03/19/2021

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawing Description: PLAN AND PROFILE



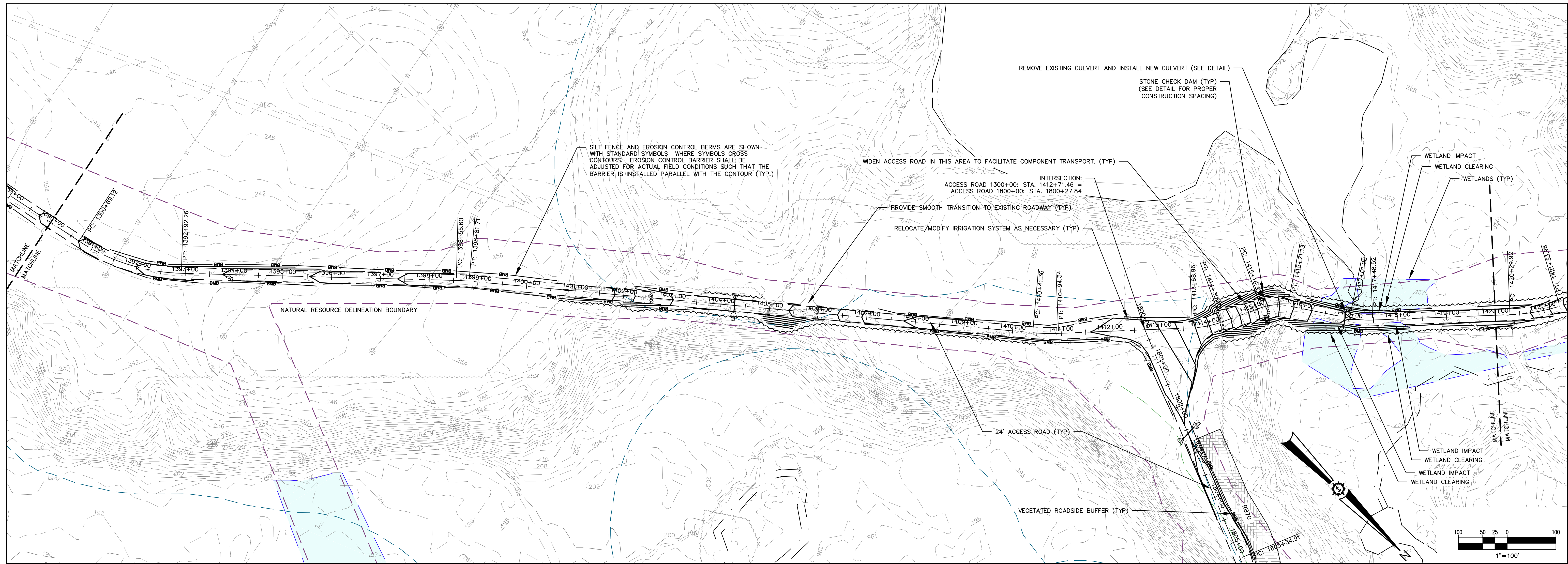
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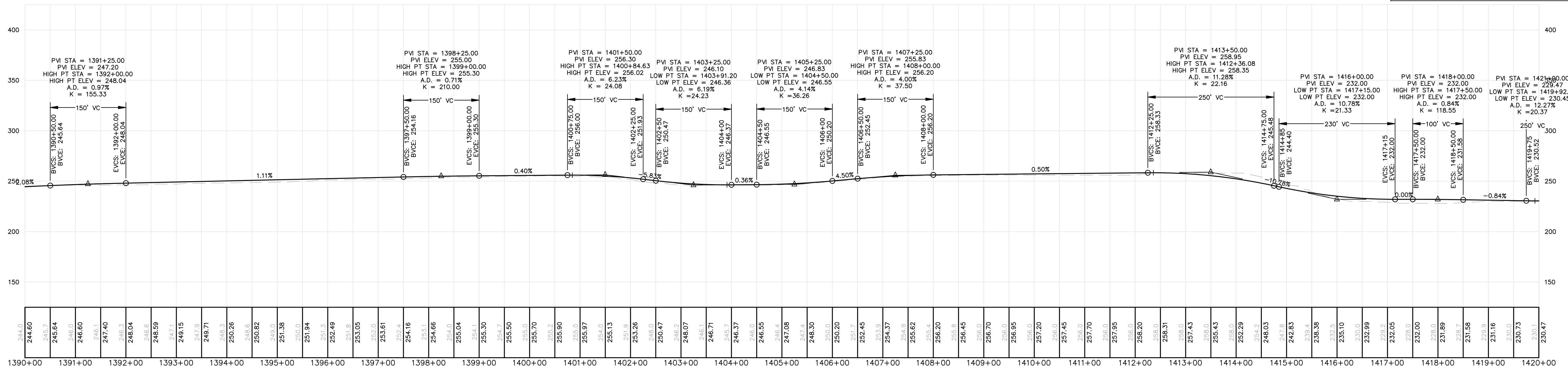
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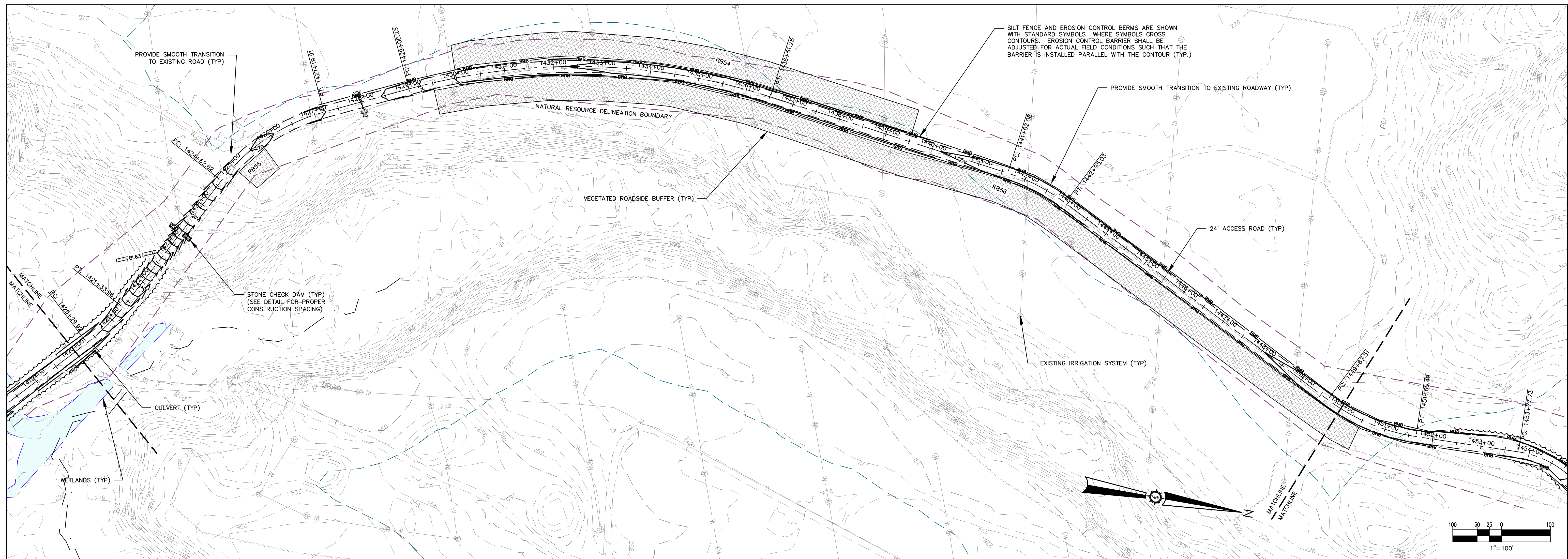


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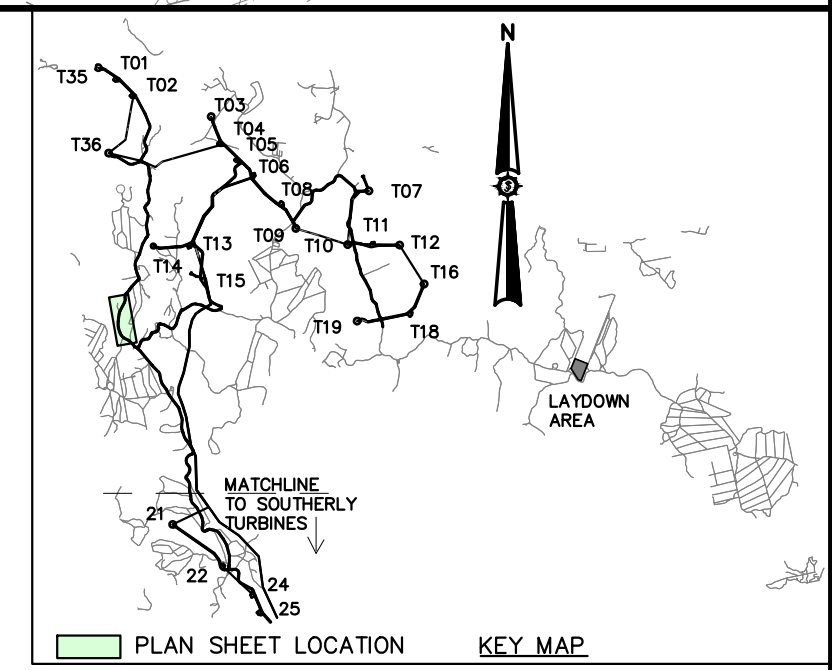
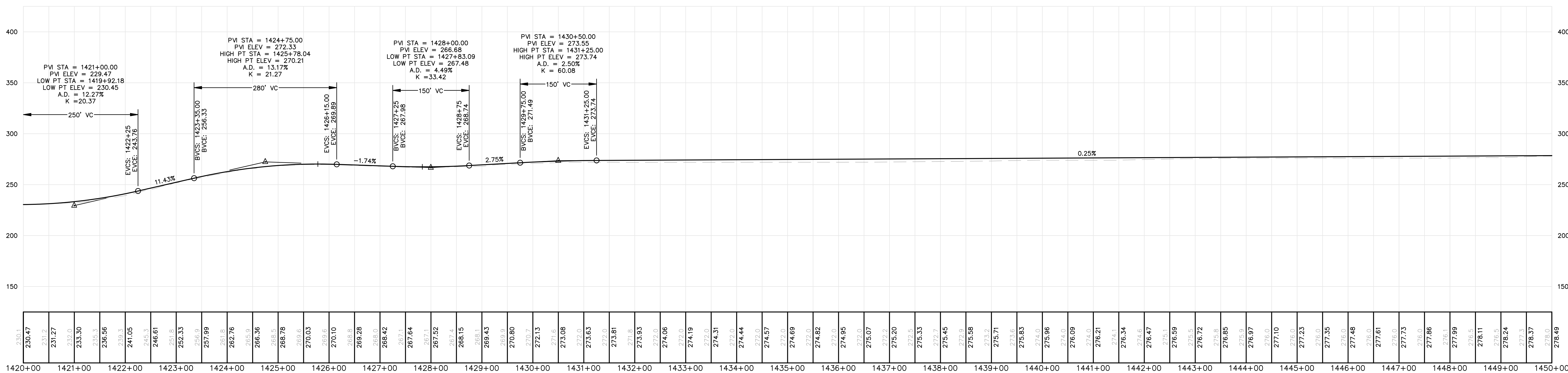
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VERTICAL: 1"=50'





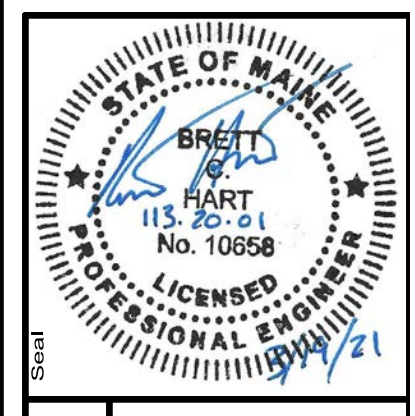


**ACCESS ROAD 1300+00**  
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 HORIZONTAL: 1"=100'  
 VERTICAL: 1"=50'



Date	
Drawn By	MITFB
Checked By	JSM
Approved By	BCH
Designated By	BCH
Class	03/19/2021
Scale	

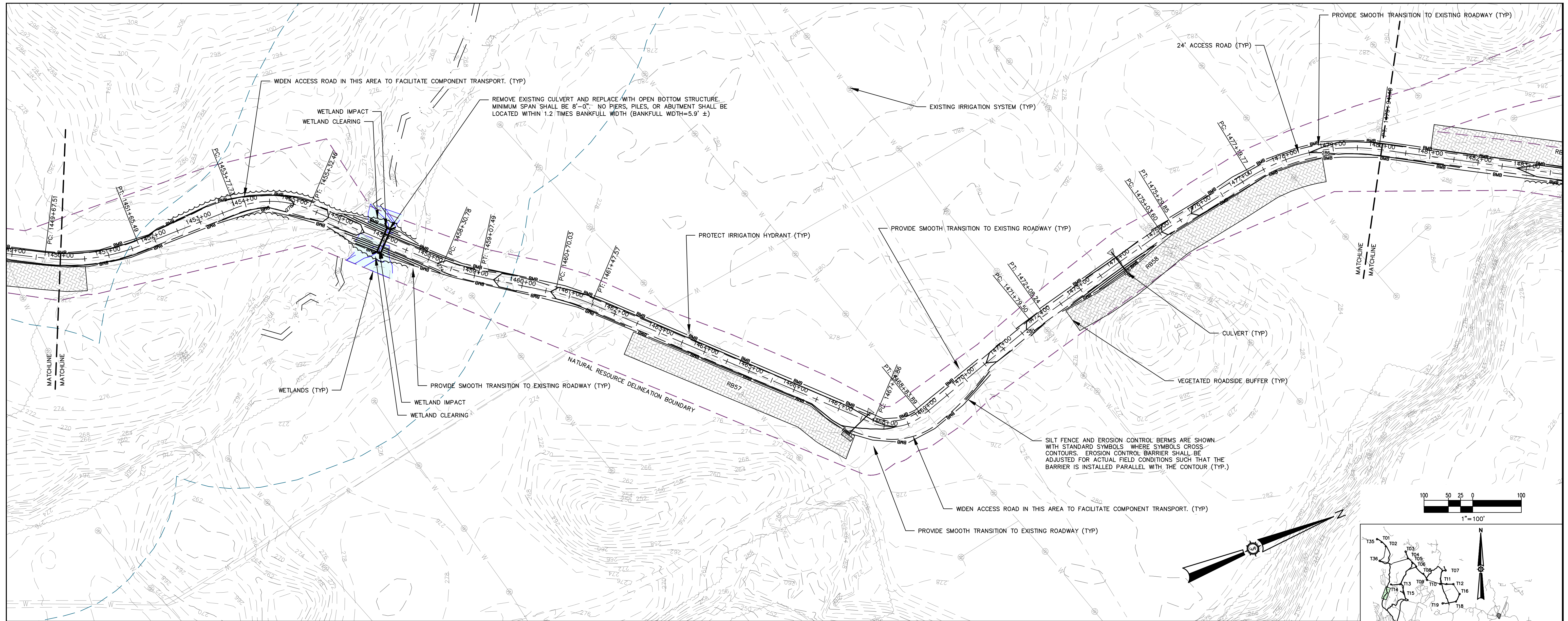
**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 Drawing Description: PLAN AND PROFILE



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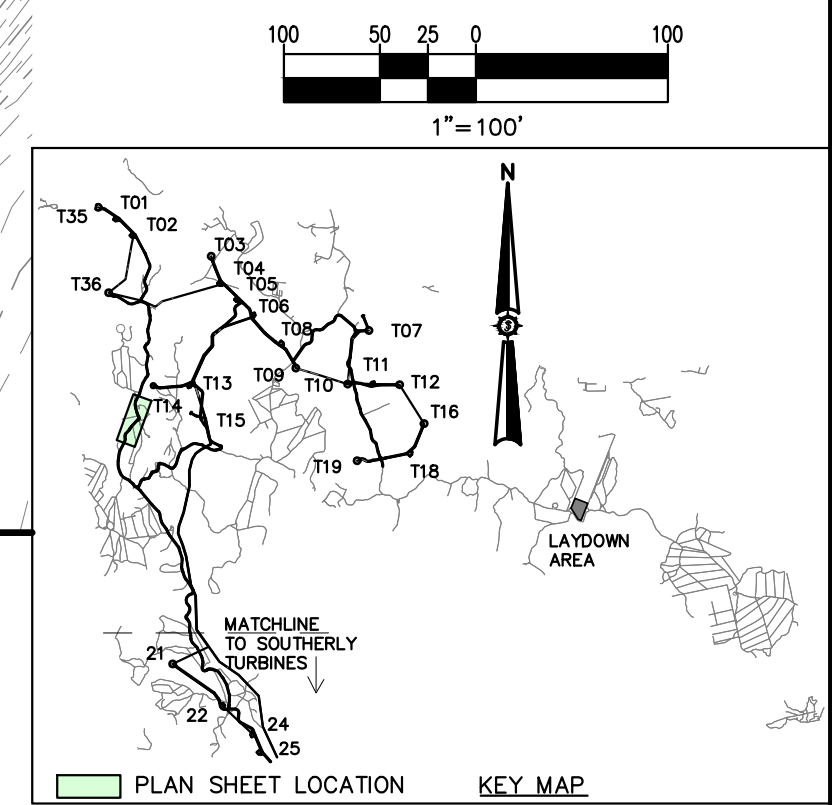
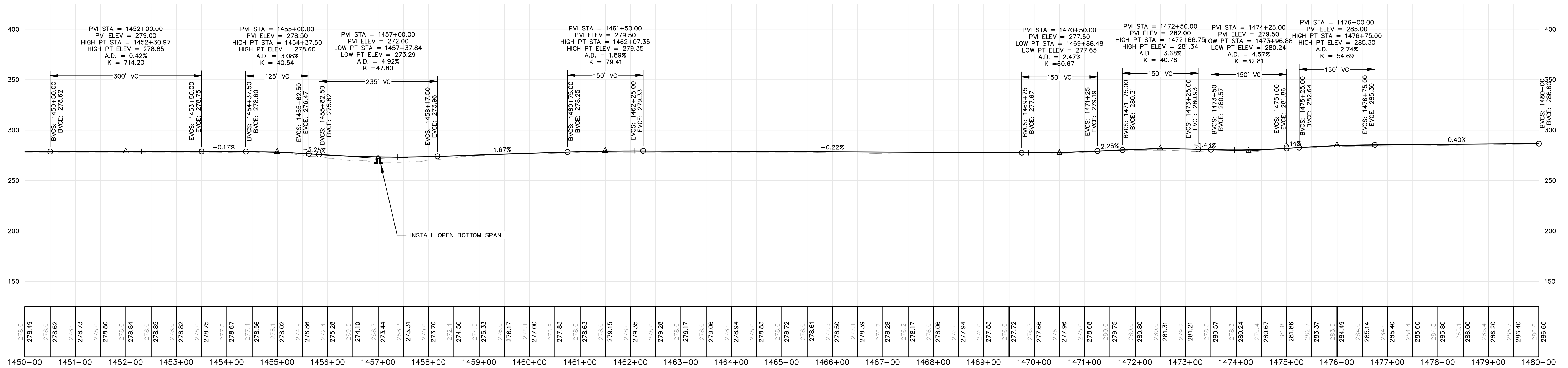




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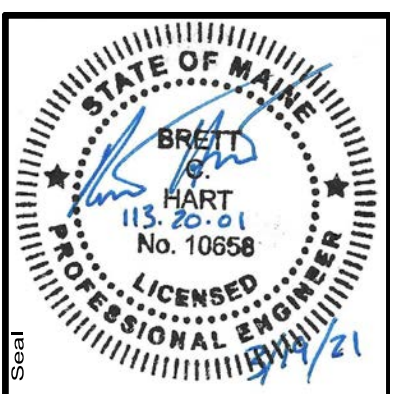
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HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



Drawn By	MIFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	

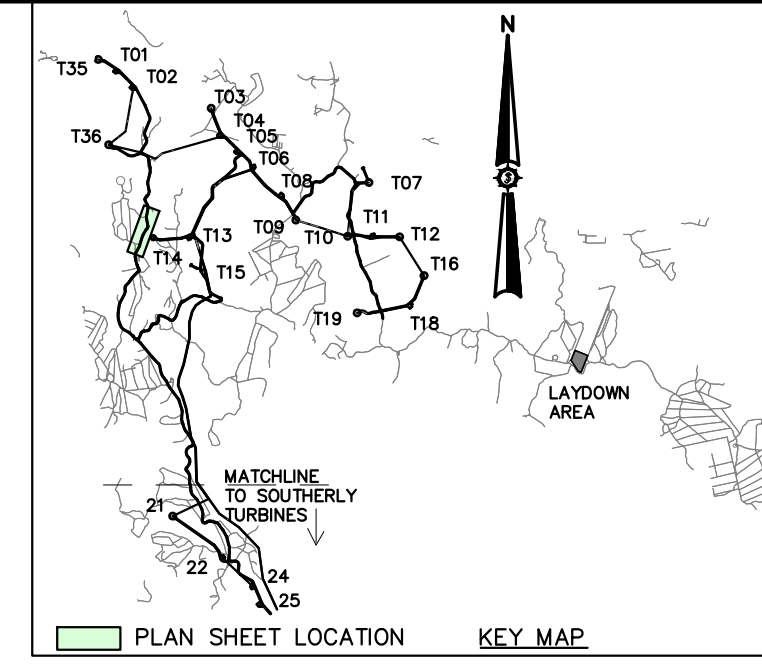
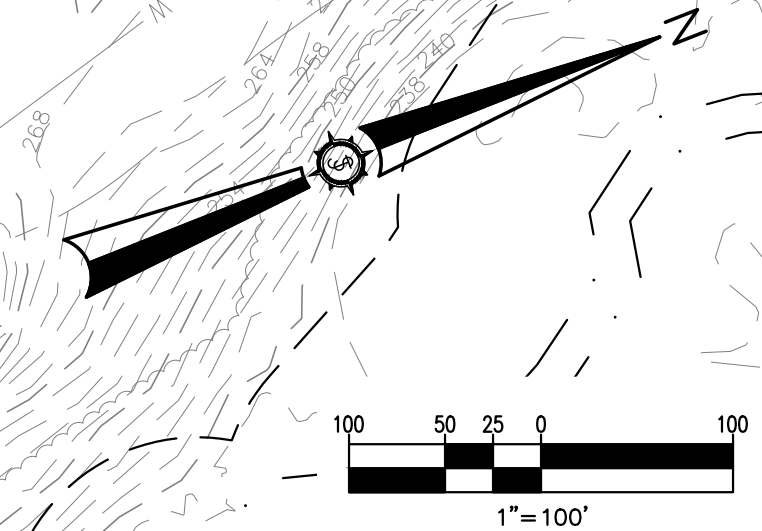
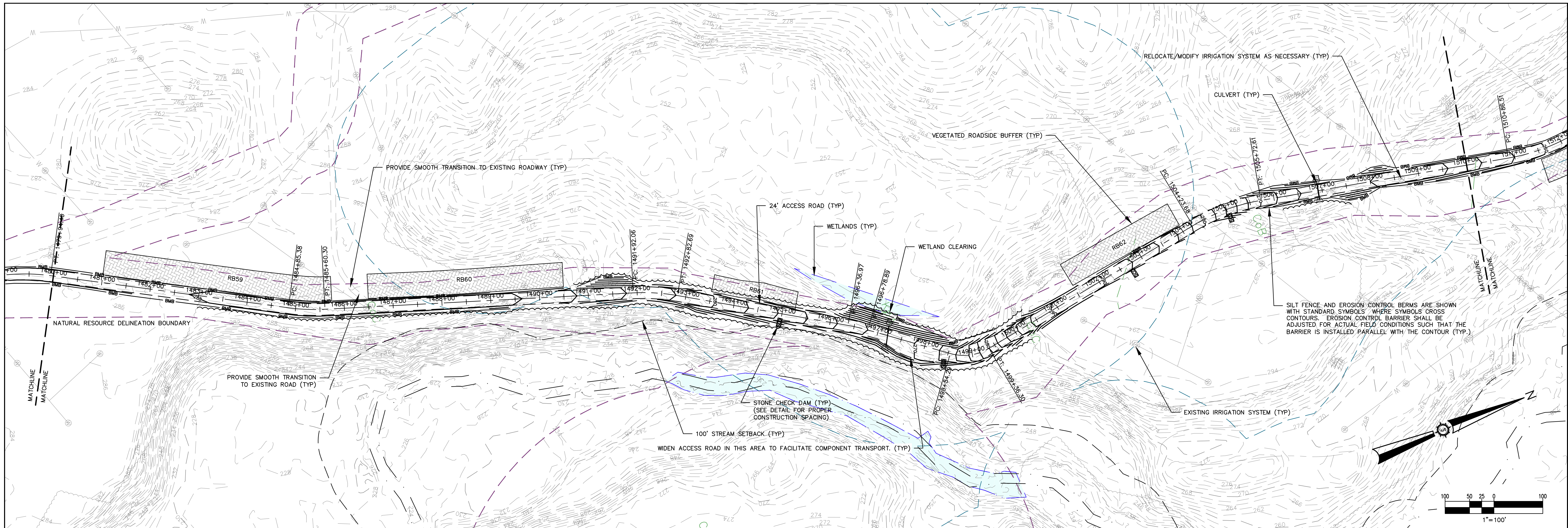
**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 Drawing Description: PLAN AND PROFILE



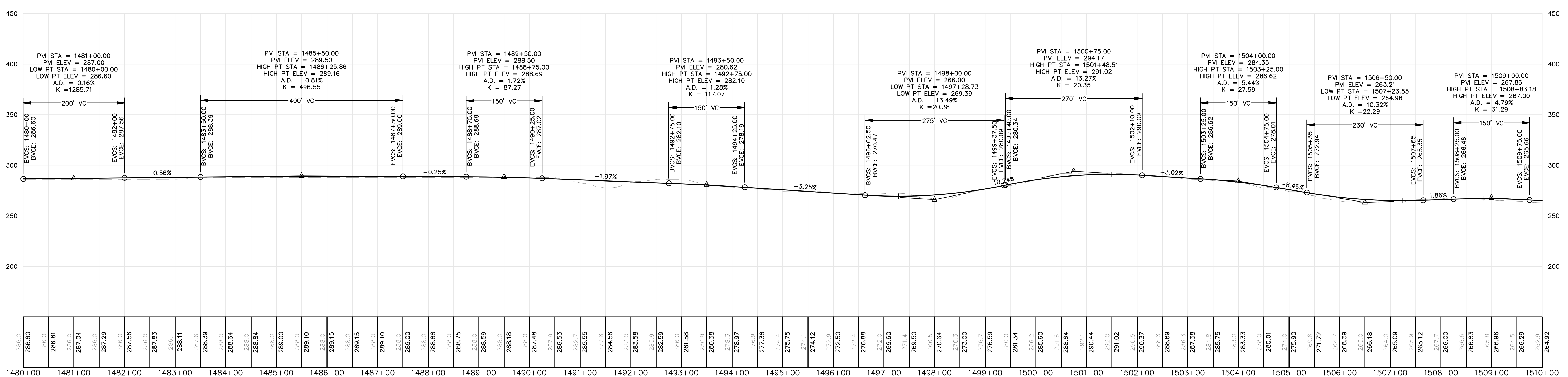
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**ACCESS ROAD 1300+00**  
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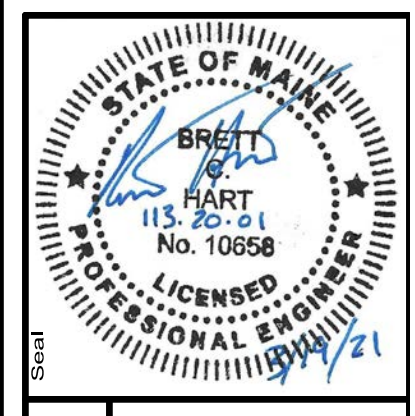


Drawn By	MTEB
Checked By	JSM
Approved By	BCH
Scale	
Date	

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawing Description: **PLAN AND PROFILE**



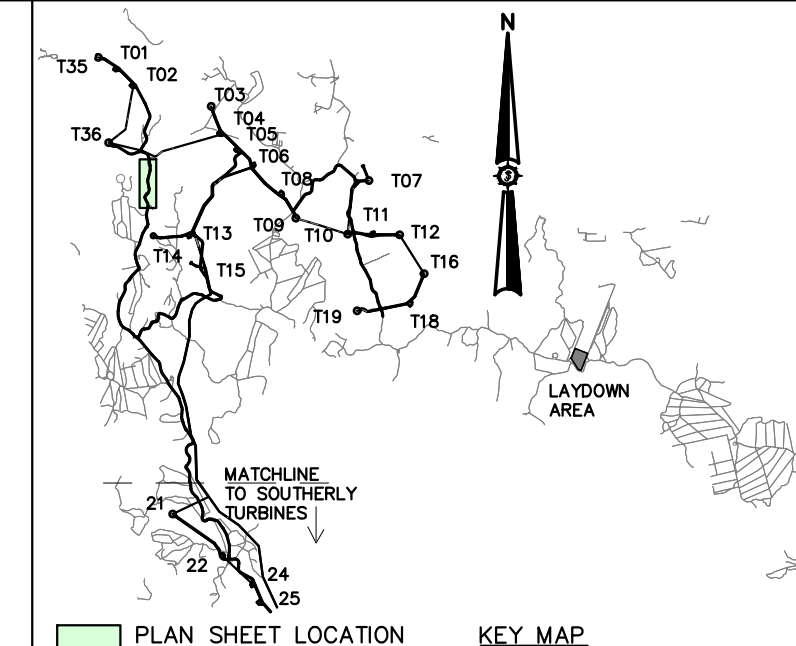
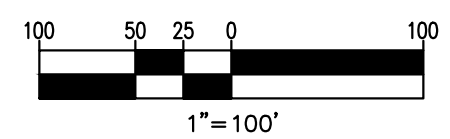
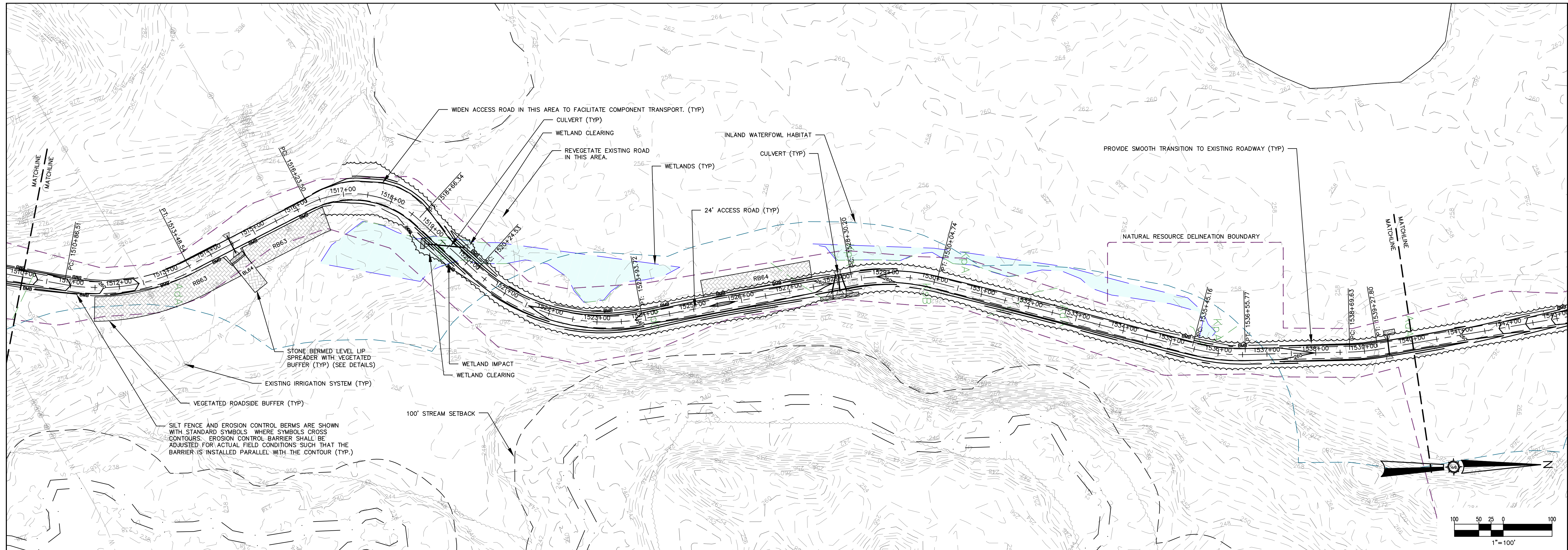
113.20.01

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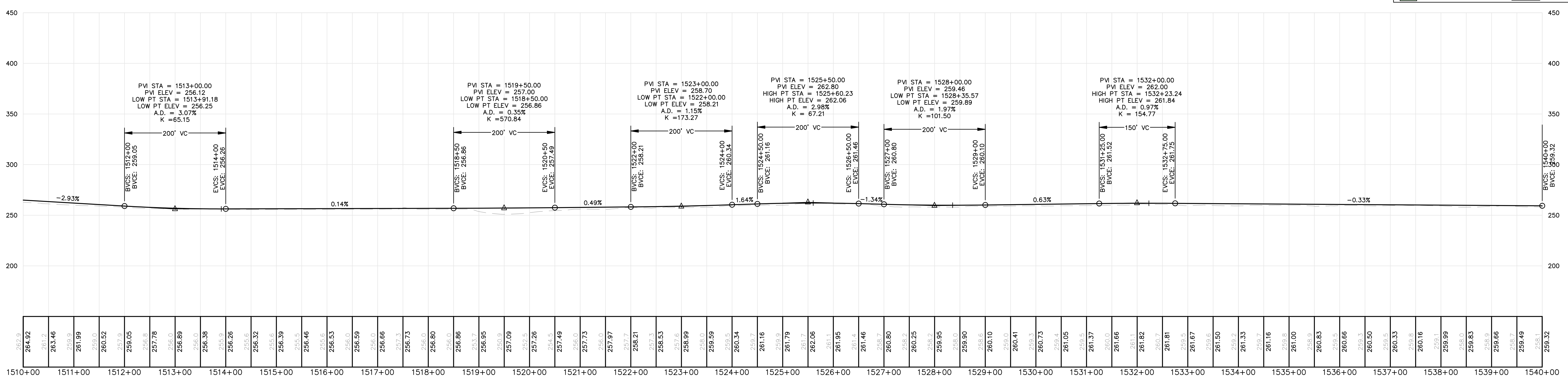
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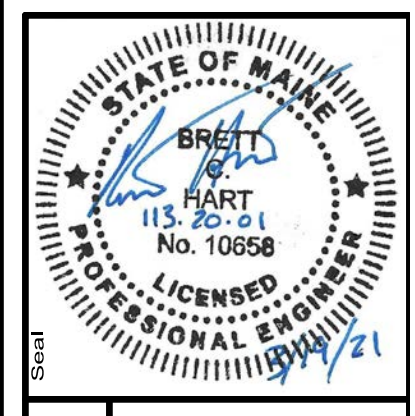
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 HORIZONTAL: 1"=100'  
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Rev.	Date	By	Description

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

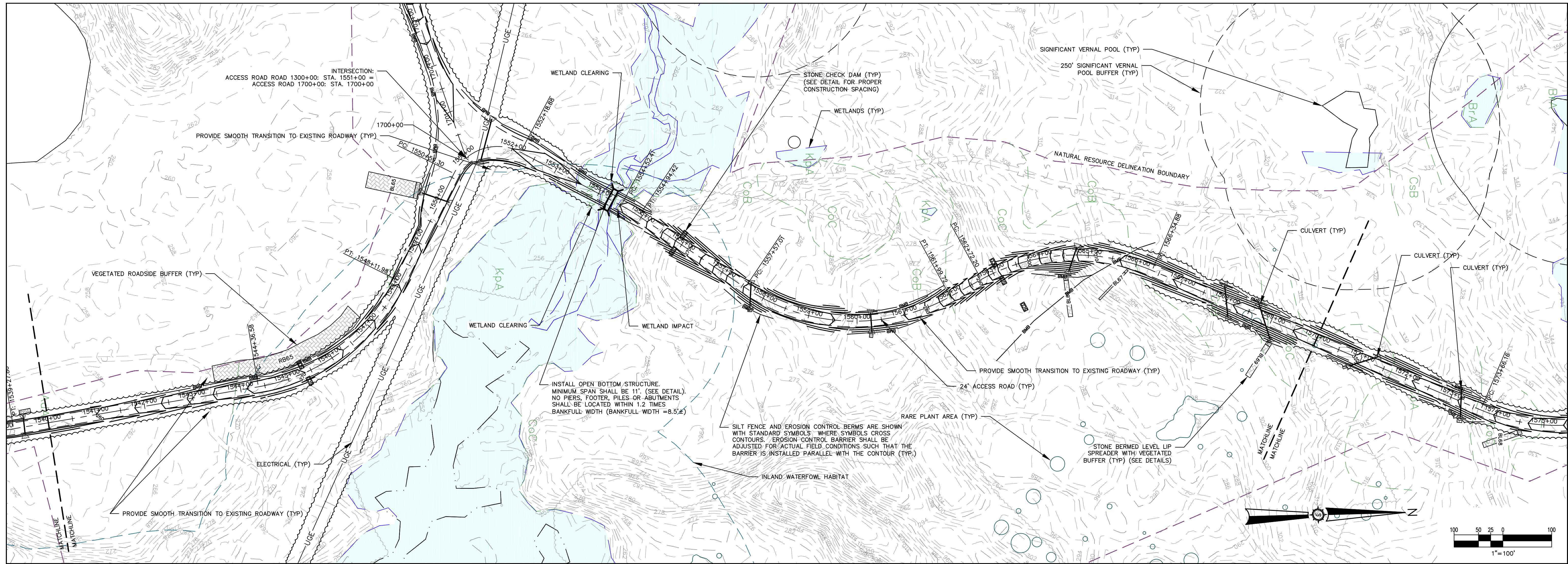
Drawn By: MITFB  
 Checked: JSM  
 Designated By: BCH  
 Scale: 03/19/2021  
 Approved: BCH



Project No: 113.20.01  
 Engineer: SURVEYING  
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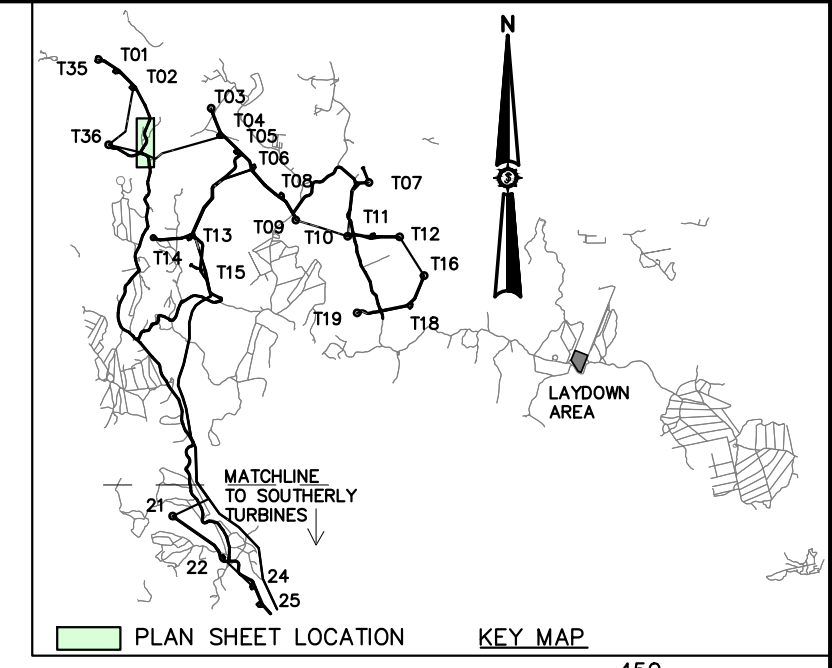
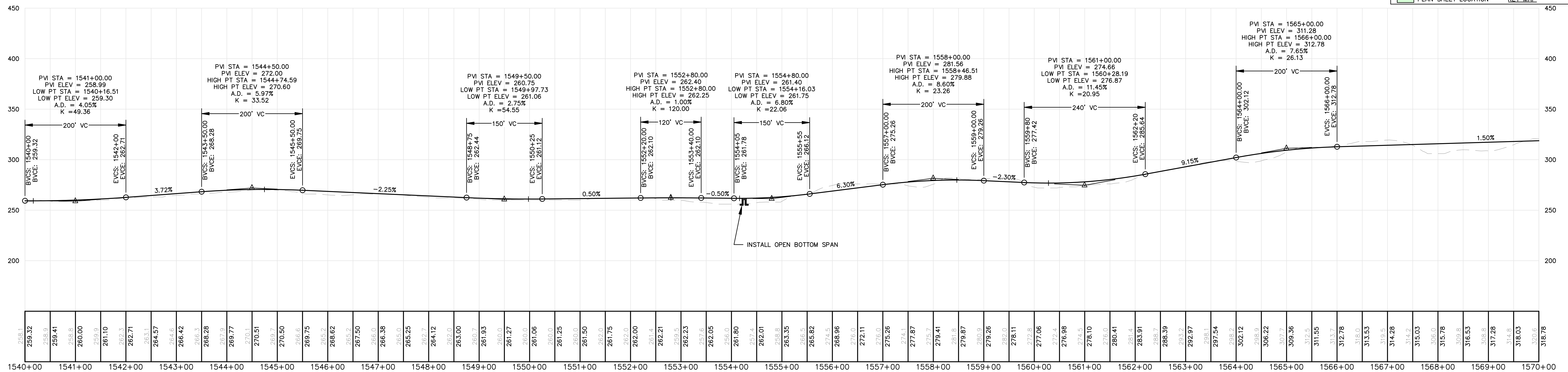
NOT FOR CONSTRUCTION





**ACCESS ROAD 1300+00**  
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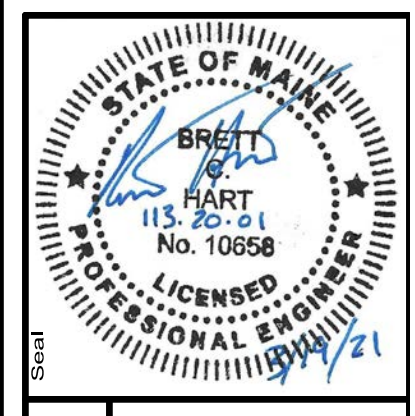
HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



Rev.	Date	By	Description

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST. N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawn By: MITFB  
Checked: JSM  
Scale: 03/19/2021  
Approved: BCH

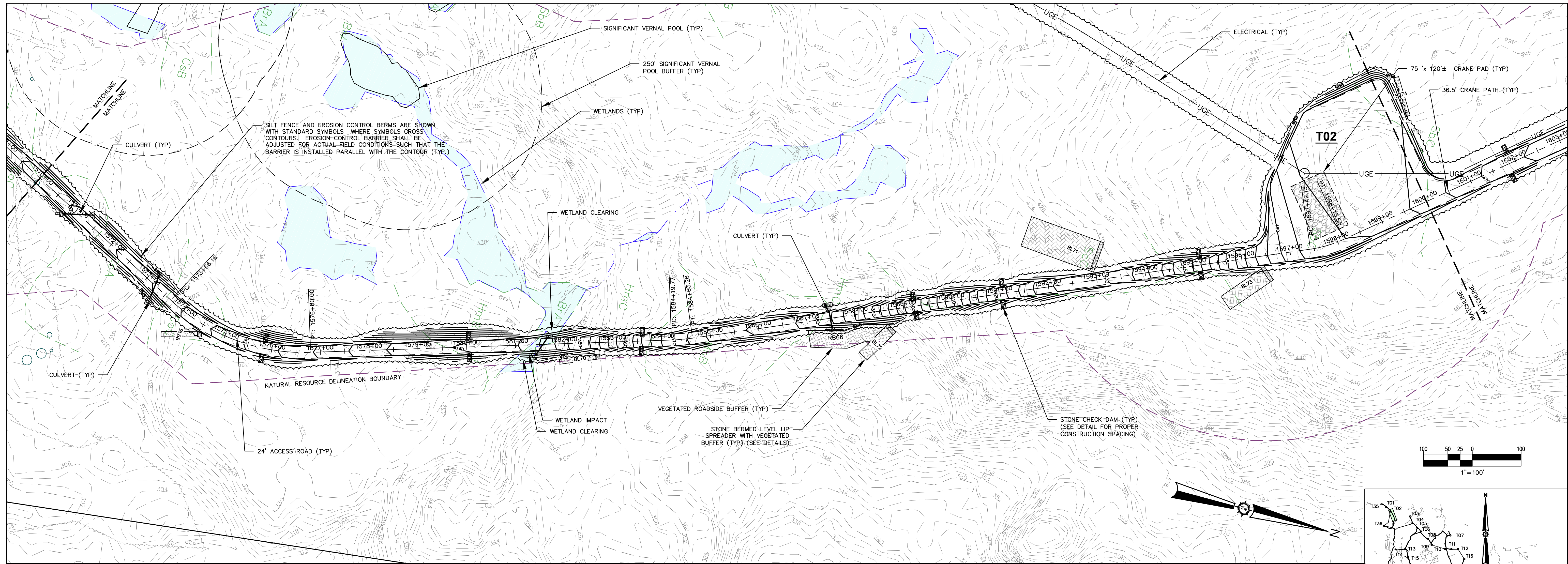


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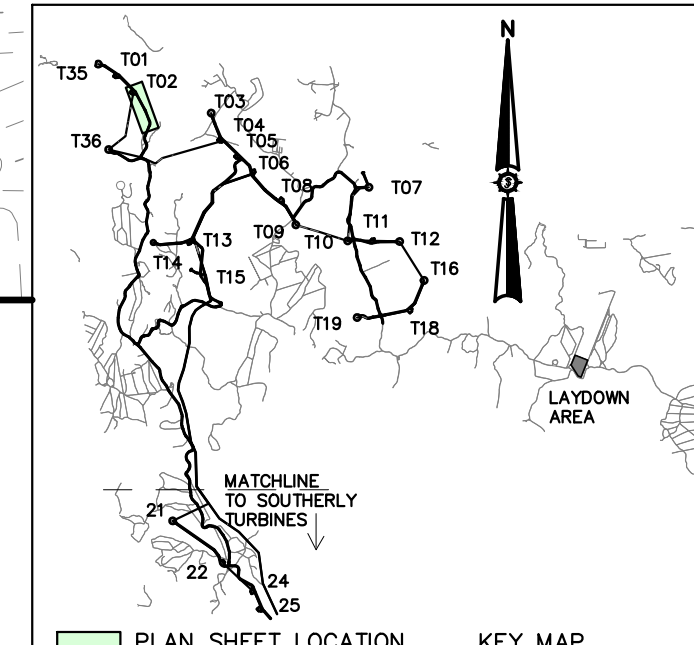
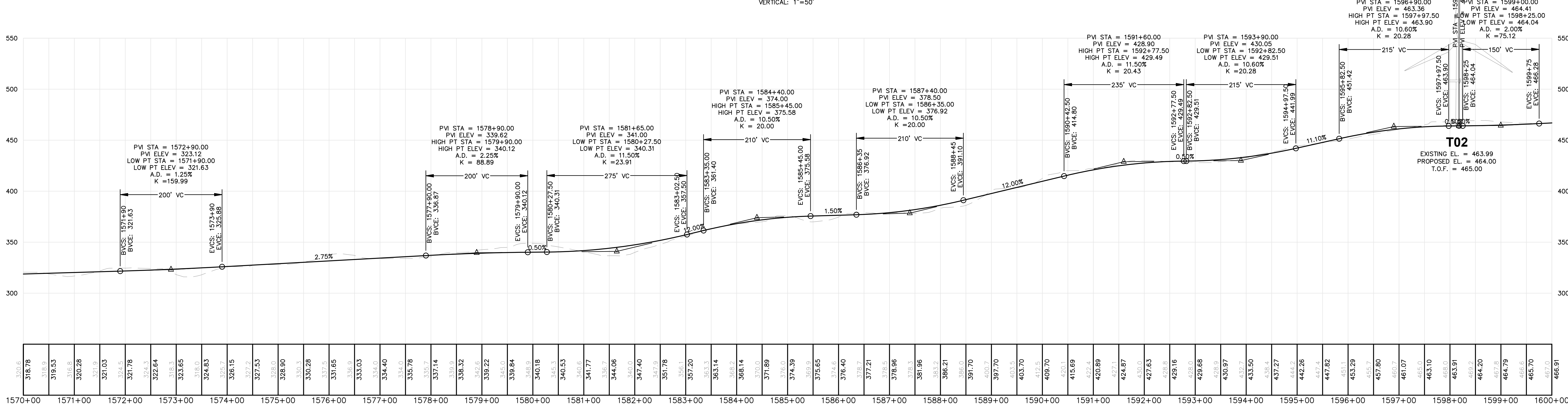
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Sheet No.: **19.9**

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**ACCESS ROAD 1300+00**  
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 VERTICAL: 1"=50'



**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawn By: MTFB  
 Checked: JSM  
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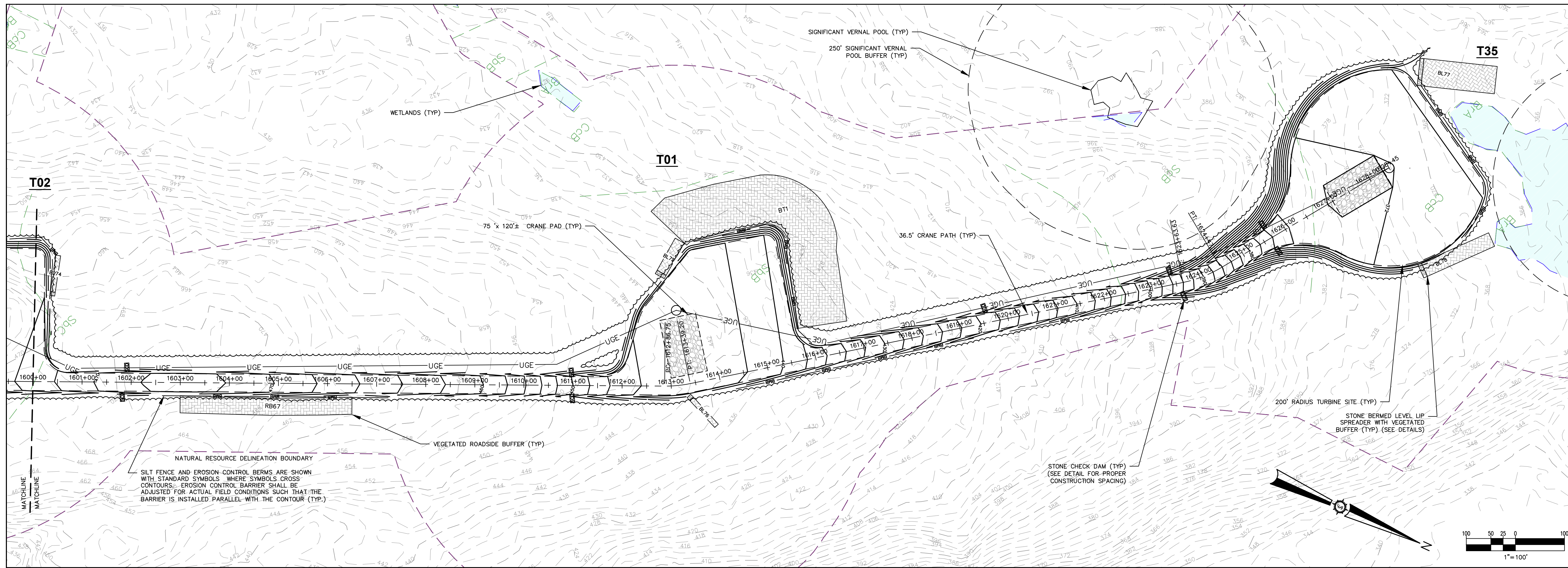
**PLAN AND PROFILE**

113.20.01  
 SURVEYING  
**Sewal**  
 ENGINEERING  
 The evolution of expertise  
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PERMIT  
 19.10

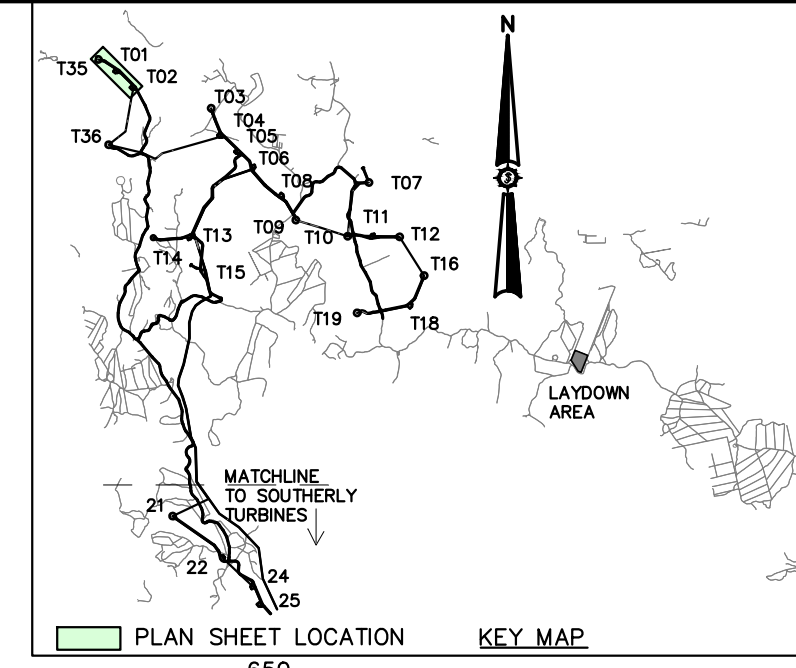
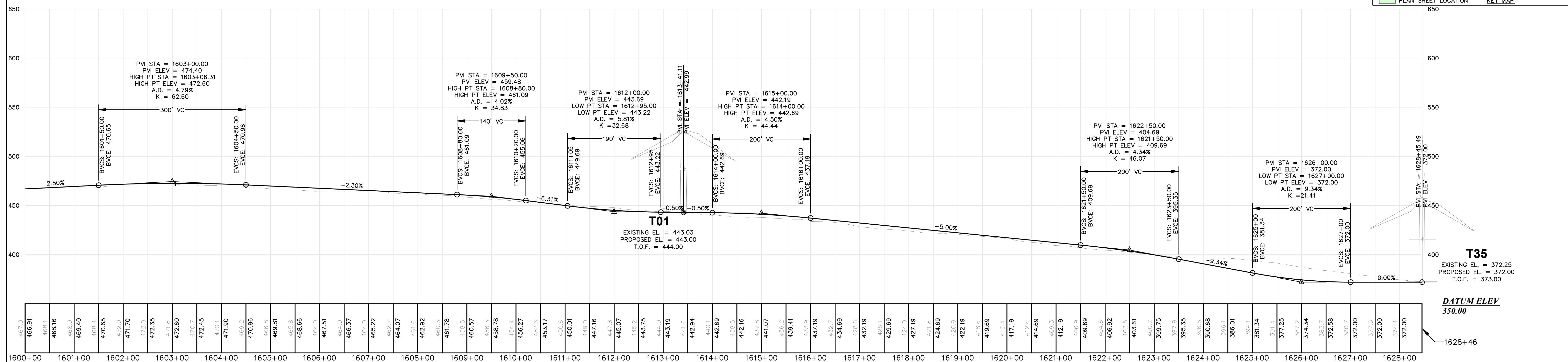
NOT FOR CONSTRUCTION





**ACCESS ROAD 1300+00**

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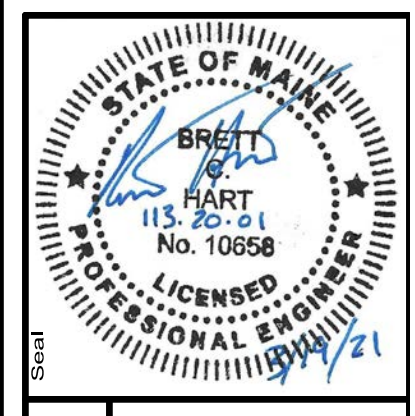


Drawn By	MITFB
Checked By	JSM
Approved By	BCH
Scale	AS SHOWN
Date	03/19/2021

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawing Description: PLAN AND PROFILE



113.20.01

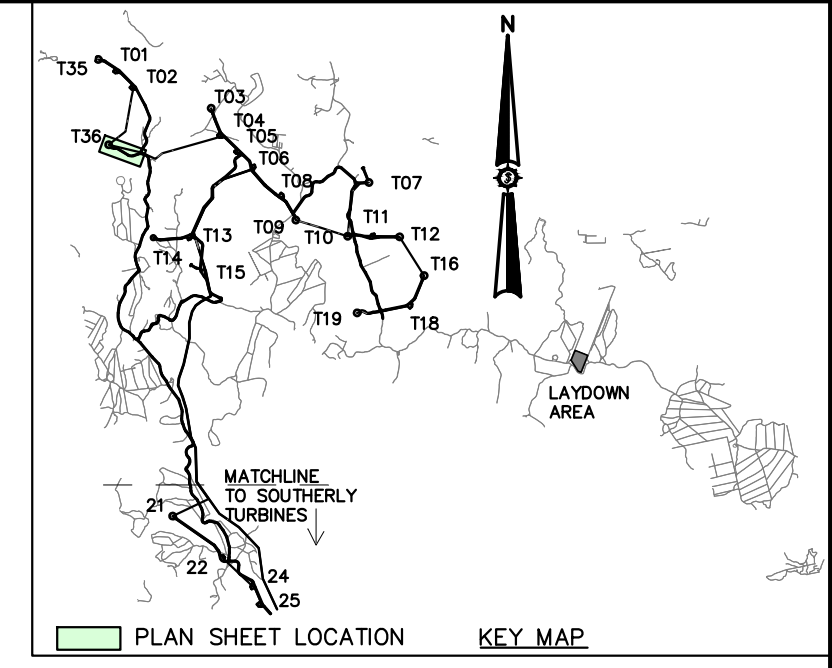
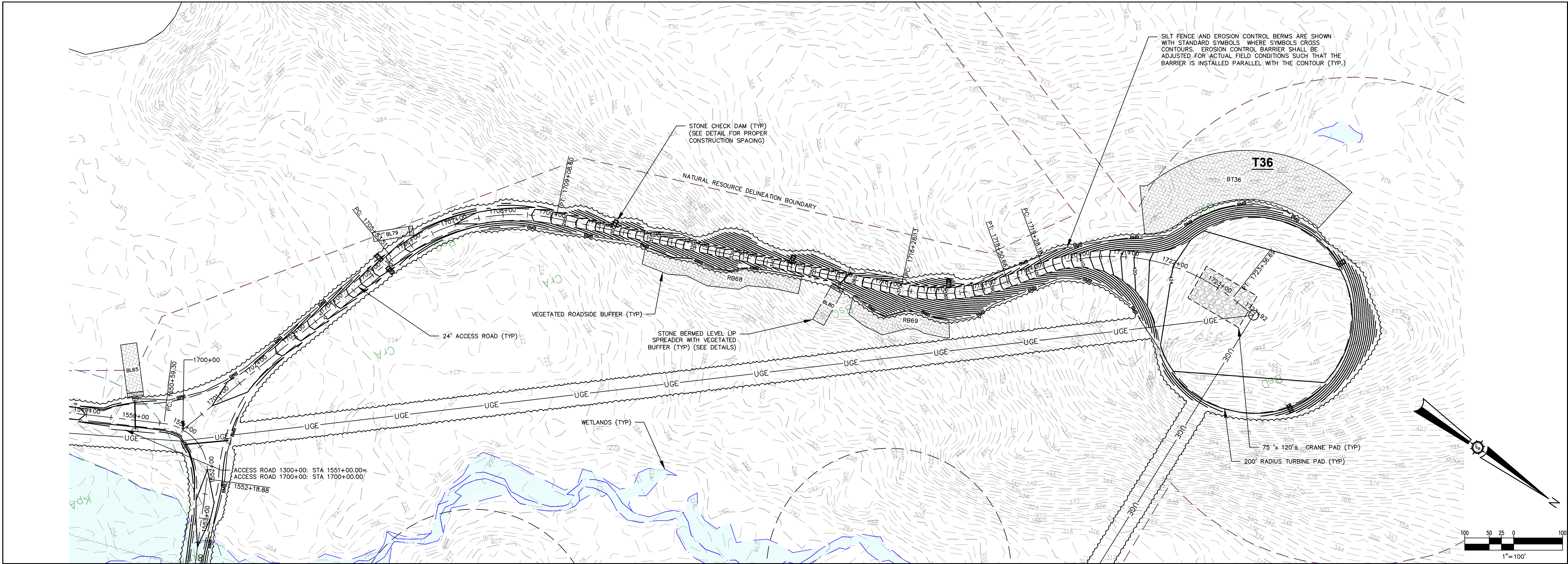
**Sewal**  
 ENGINEERING  
 SURVEYING  
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Phase: PERMIT

Sheet No.: 19.11

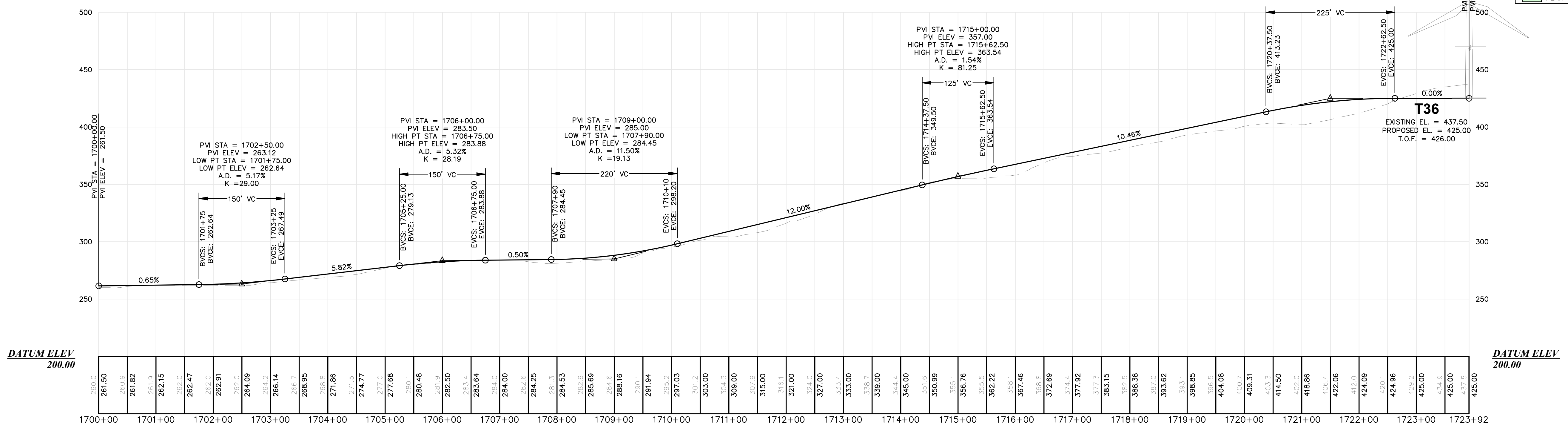
NOT FOR CONSTRUCTION





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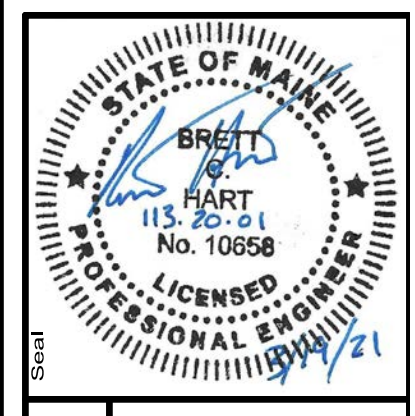


Drawn By	MTFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	PLAN AND PROFILE

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST. N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawing Description: PLAN AND PROFILE



113.20.01

ENGINEERING SURVEYING

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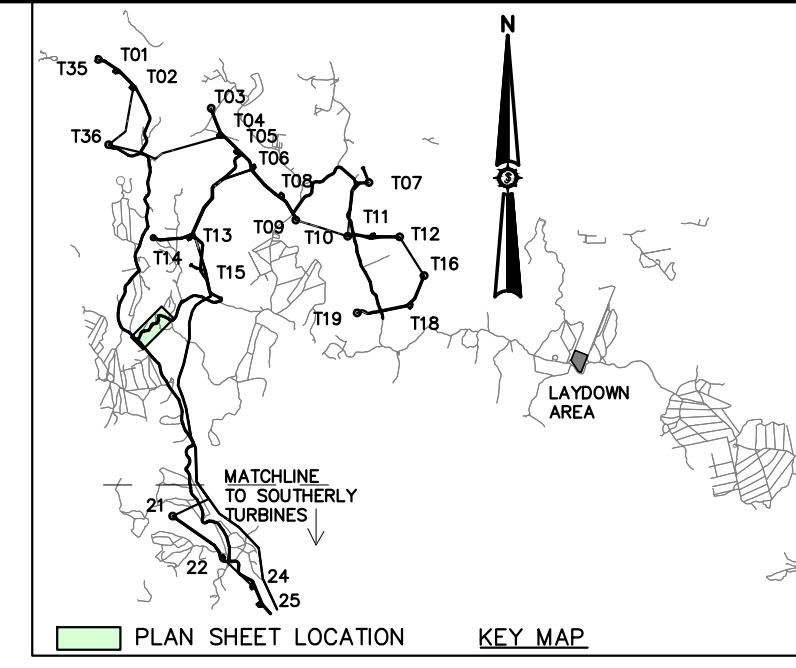
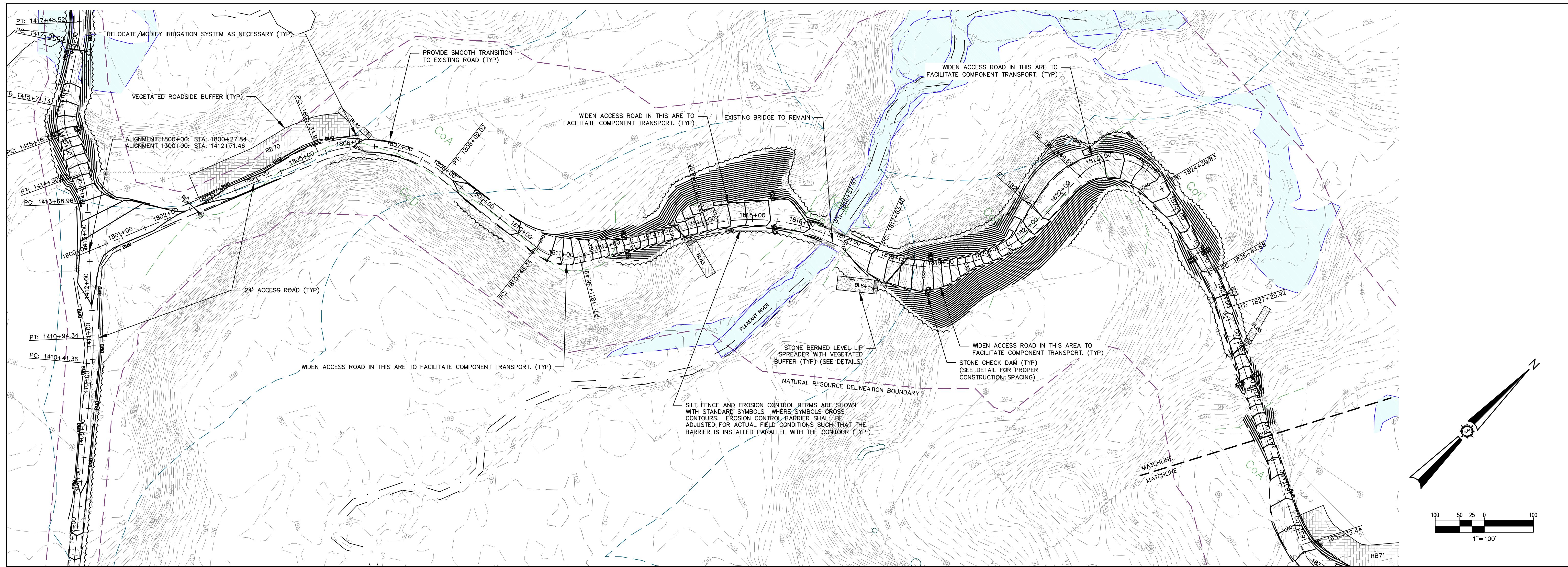
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PERMIT

19.12

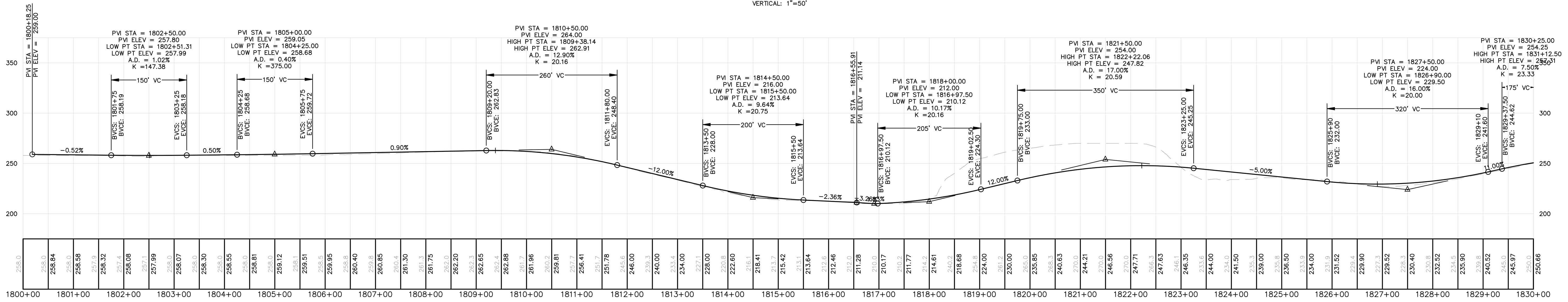
NOT FOR CONSTRUCTION





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1800+00.00 - 1830+00.00

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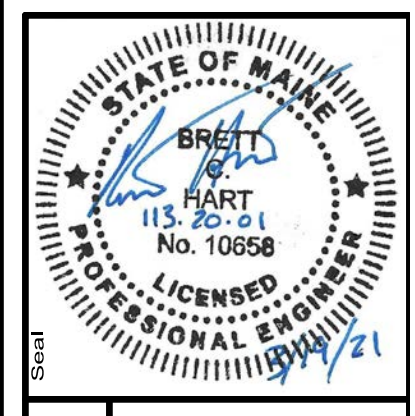


Date	
Drawn By	MITFB
Checked By	JSM
Approved By	BCH
Scale	
Sheet	

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
Project Location

Drawn By: MITFB  
Checked By: JSM  
Approved By: BCH

**PLAN AND PROFILE**



113.20.01

**ENGINEERING SURVEYING**

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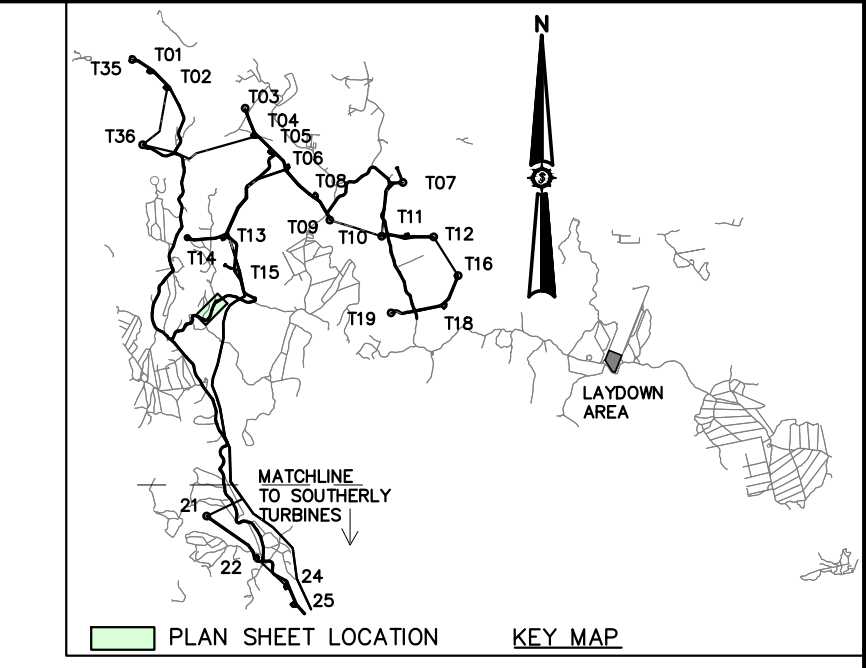
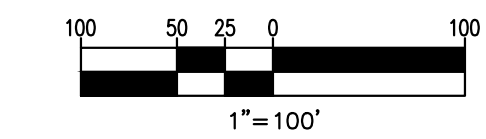
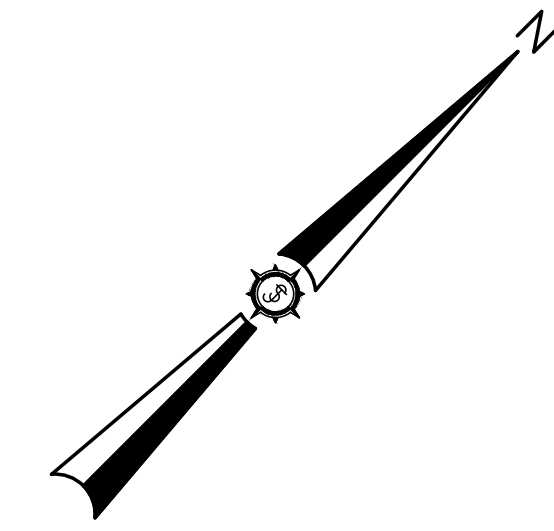
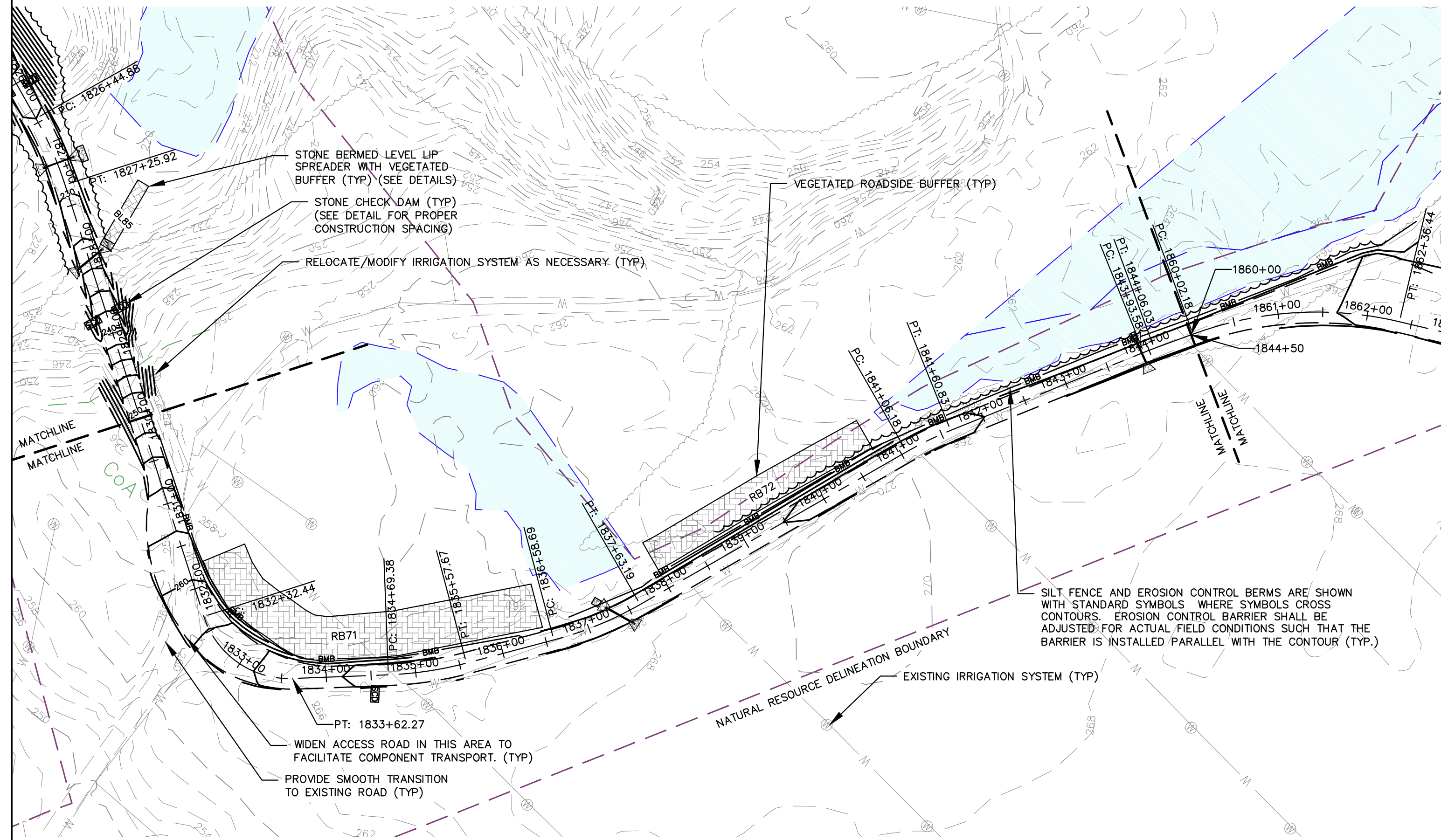
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Phase: **PERMIT**

Sheet No.: **20.1**

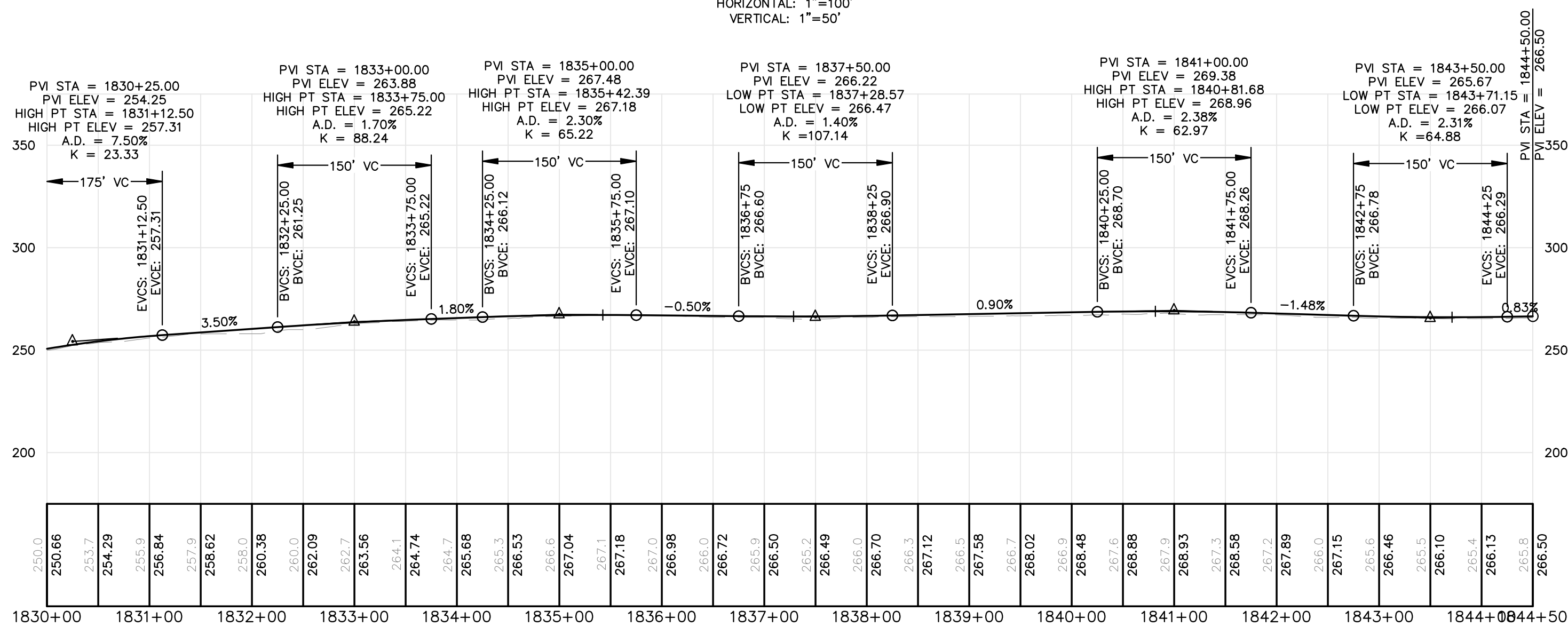
NOT FOR CONSTRUCTION





**ACCESS ROAD 1800+00**

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 VERTICAL: 1"=50'



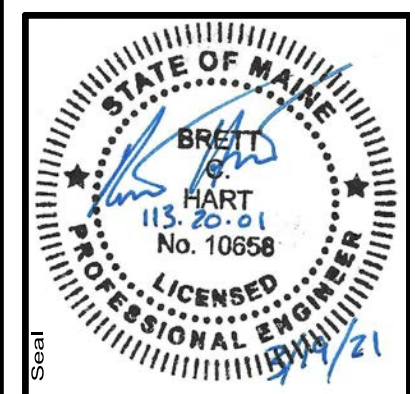
DATUM ELEV  
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Rev. #	Drawn By	Description	Date

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 Drawing Description: PLAN AND PROFILE

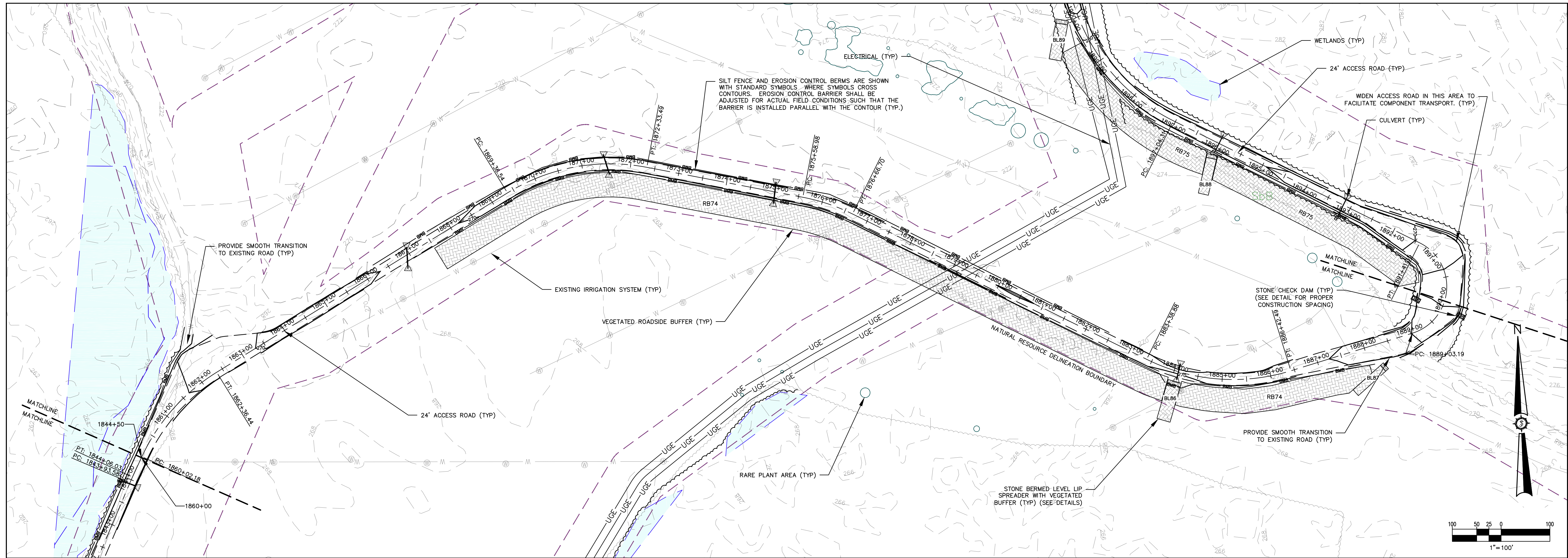
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 Drawn By: MITFB  
 Date: 03/19/2021  
 Scale:   
 Approved: BCH  
 Checked: JSM



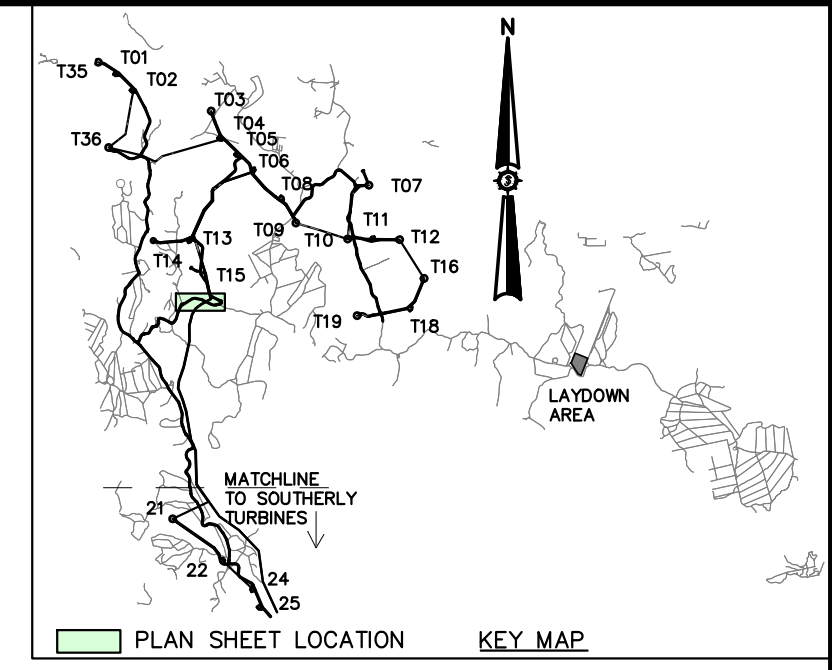
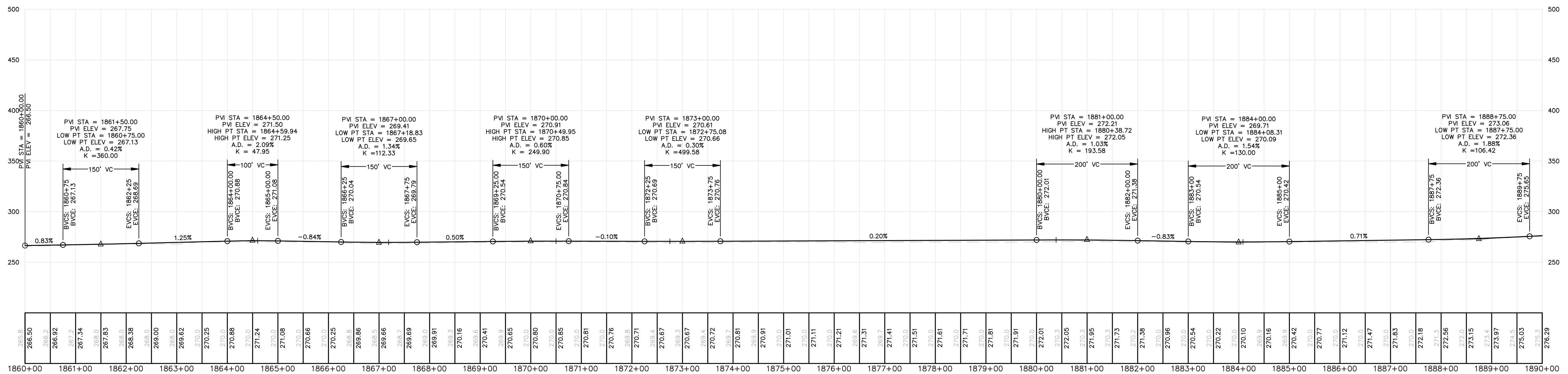
Project No.: 113.20.01  
 Phase: SURVEYING  
 Engineer: Sewall  
 www.sewall.com  
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ACCESS ROAD 1860+00  
 1860+00.00 - 1890+00.00  
 HORIZONTAL: 1"=100'  
 VERTICAL: 1"=50'



Drawn By	MITFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Approved	BCH
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	PLAN AND PROFILE

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

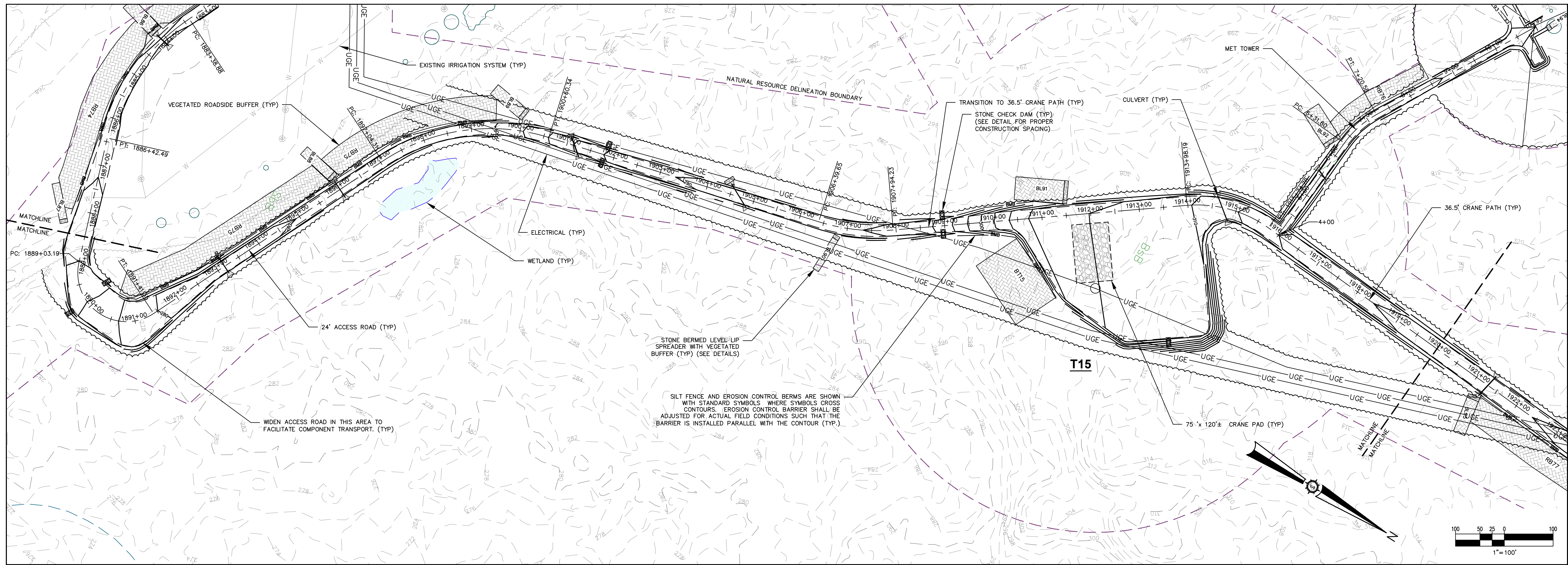
STATE OF MAINE  
 BRETT  
 HART  
 113.20.01  
 No. 10858  
 LICENSED PROFESSIONAL ENGINEER

113.20.01  
 ENGINEERING SURVEYING  
 www.sewall.com  
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 1 800 648 4202

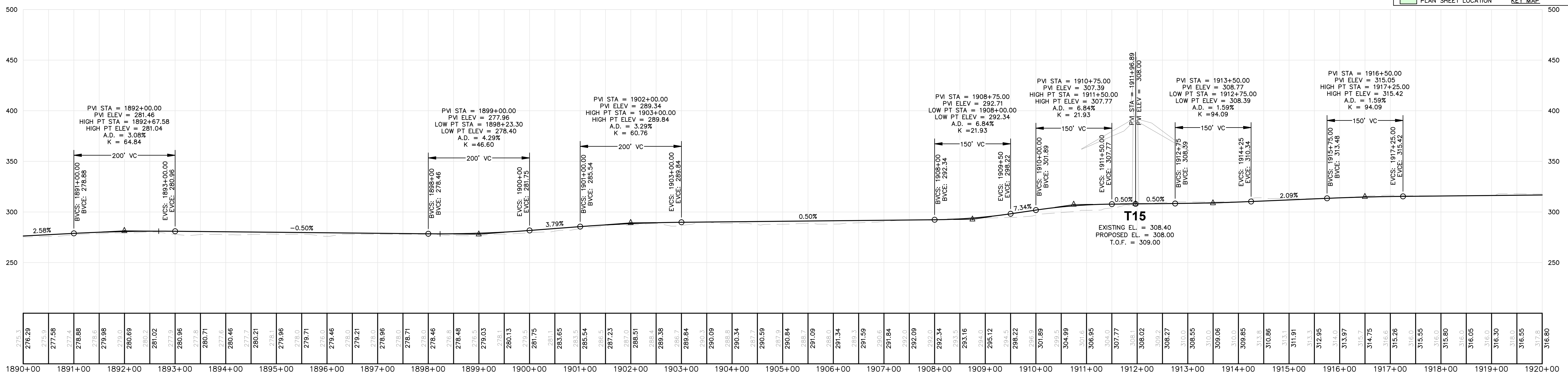
Phase: **PERMIT**  
 Sheet No.: **21.1**

NOT FOR CONSTRUCTION





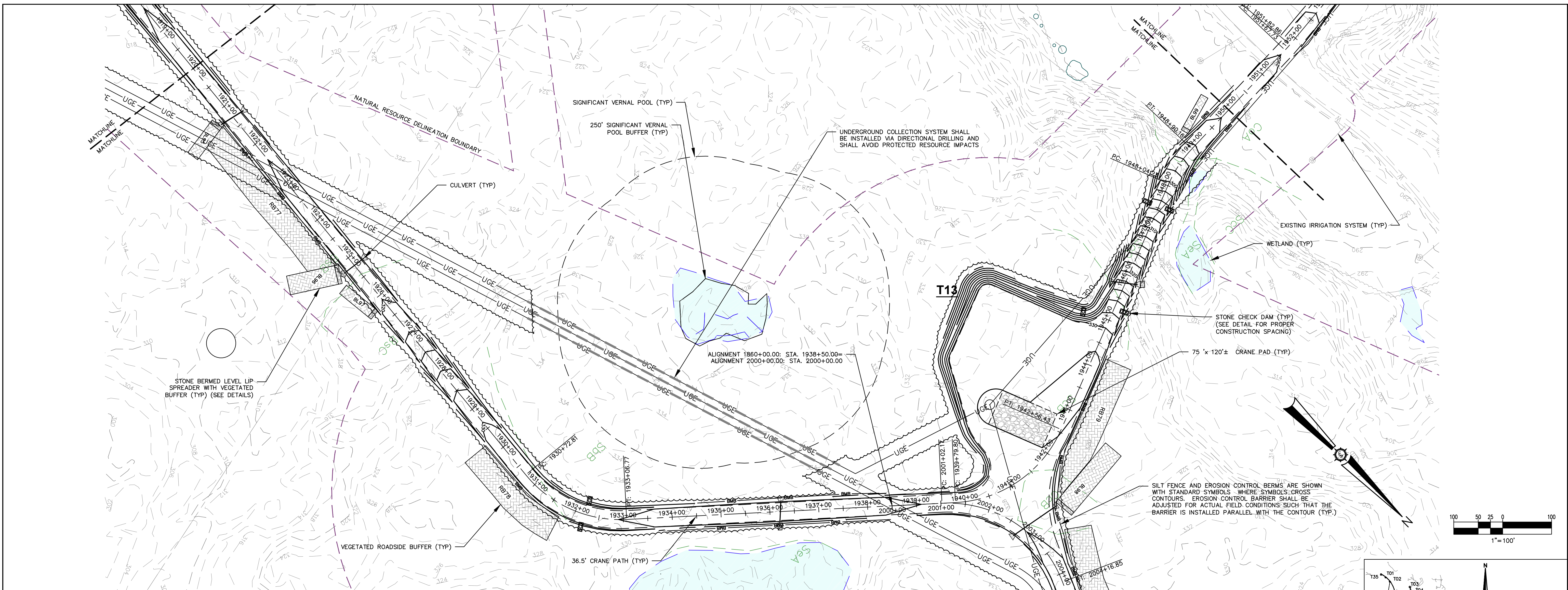
ACCESS ROAD &  
CRANE PATH 1860+00  
1890+00.00 — 1920+00.00  
HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



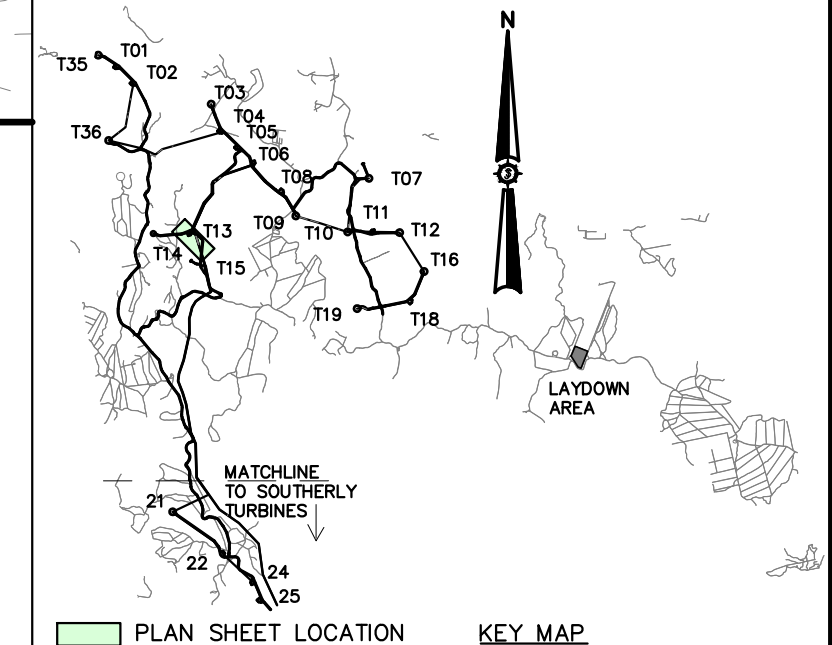
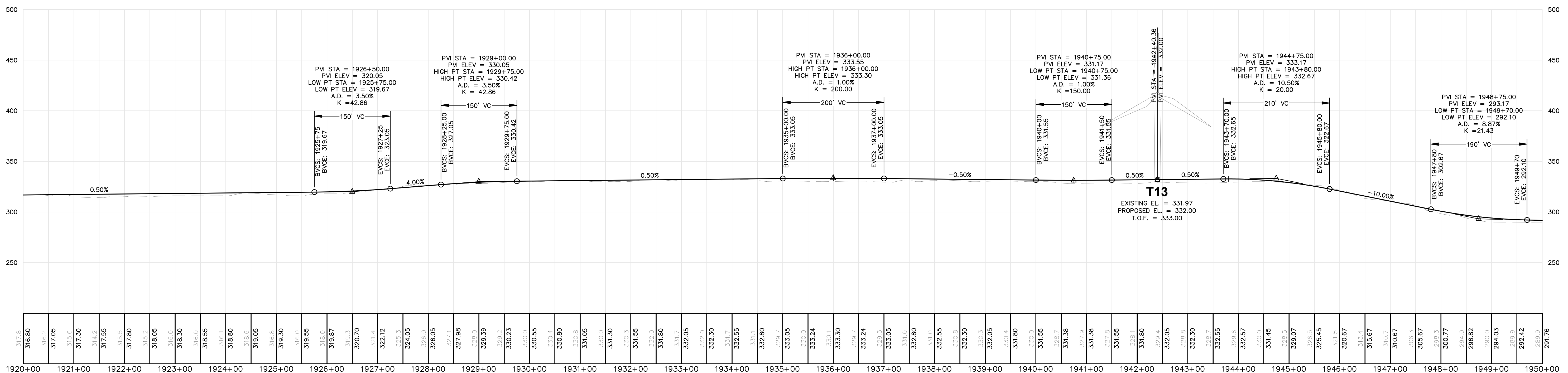
NOT FOR CONSTRUCTION

Project No.	113.20.01
Phase	PERMIT
Sheet No.	21.2
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Scale	AS SHOWN
Drawn By	MITFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Approved	BCH
Company	APEX CLEAN ENERGY, INC. - DOWNEAST WIND FARM
Project Description	PLAN AND PROFILE
Professional Engineer	BRETT HART No. 10658 LICENSED PROFESSIONAL ENGINEER
Surveying	1 800 648 4202 www.sewall.com The evolution of expertise





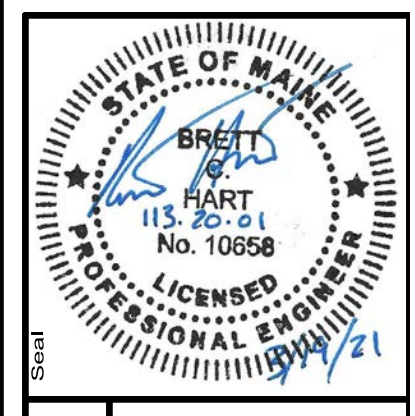
**CRANE PATH 1860+00**  
 1920+00.00 - 1950+00.00  
 HORIZONTAL: 1"=100'  
 VERTICAL: 1"=50'



Drawn By	MTEB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	PLAN AND PROFILE

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

APPROVED BY: BCH



113.20.01

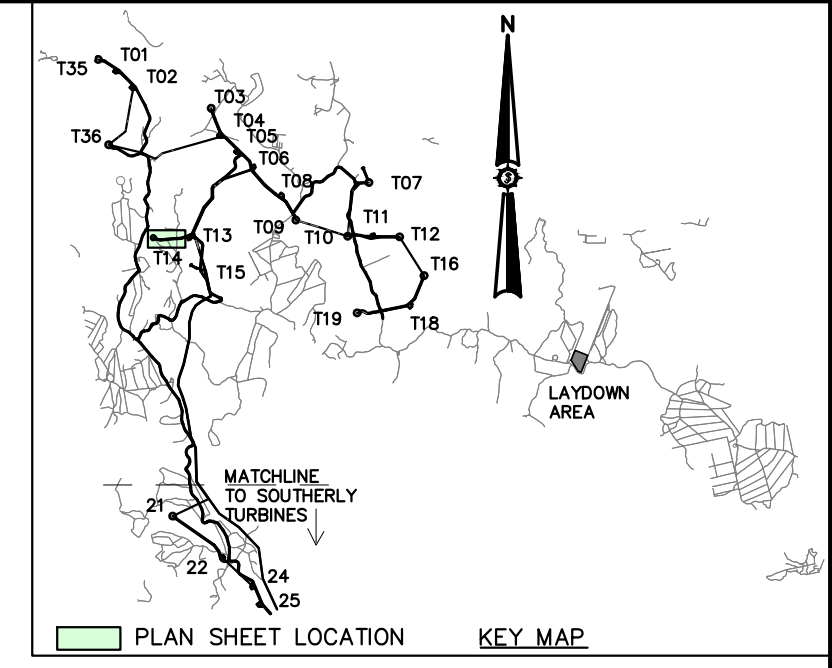
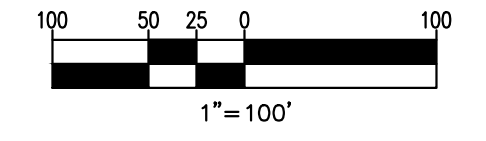
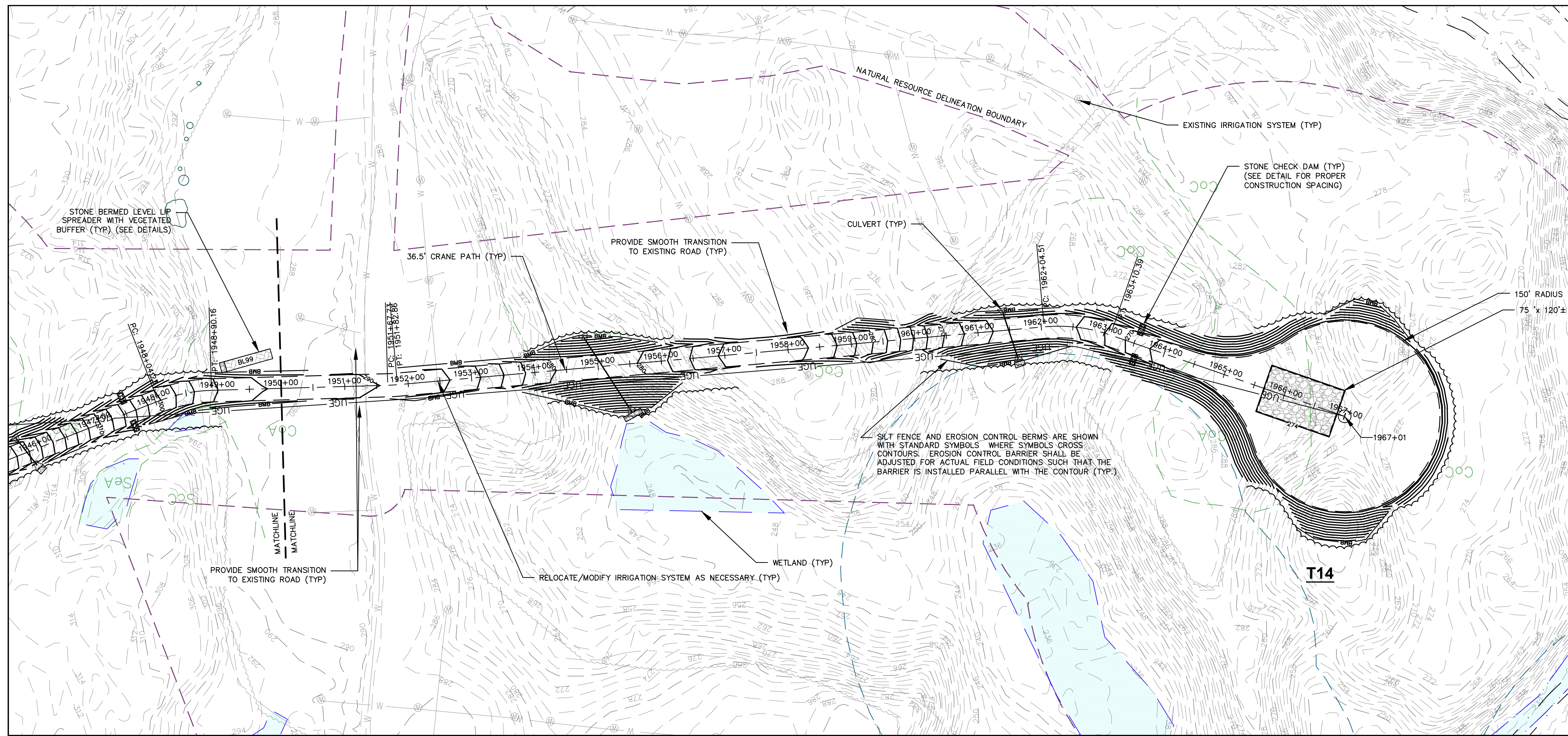
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PERMIT

21.3

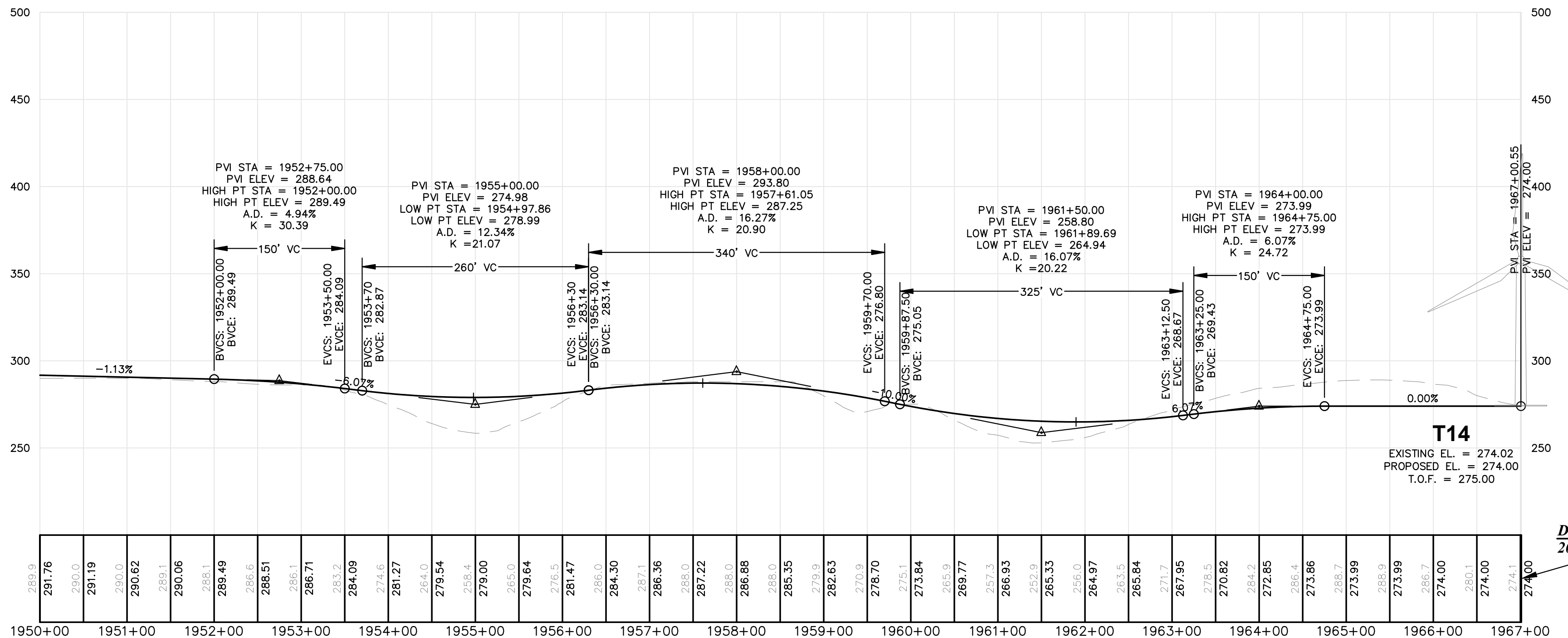
NOT FOR CONSTRUCTION





**CRANE PATH 1860+00**  
1950+00.00' - 1967+01.00'

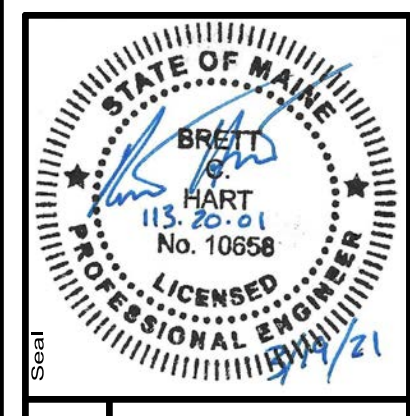
HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



Rev. #	Drawn By	Description

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

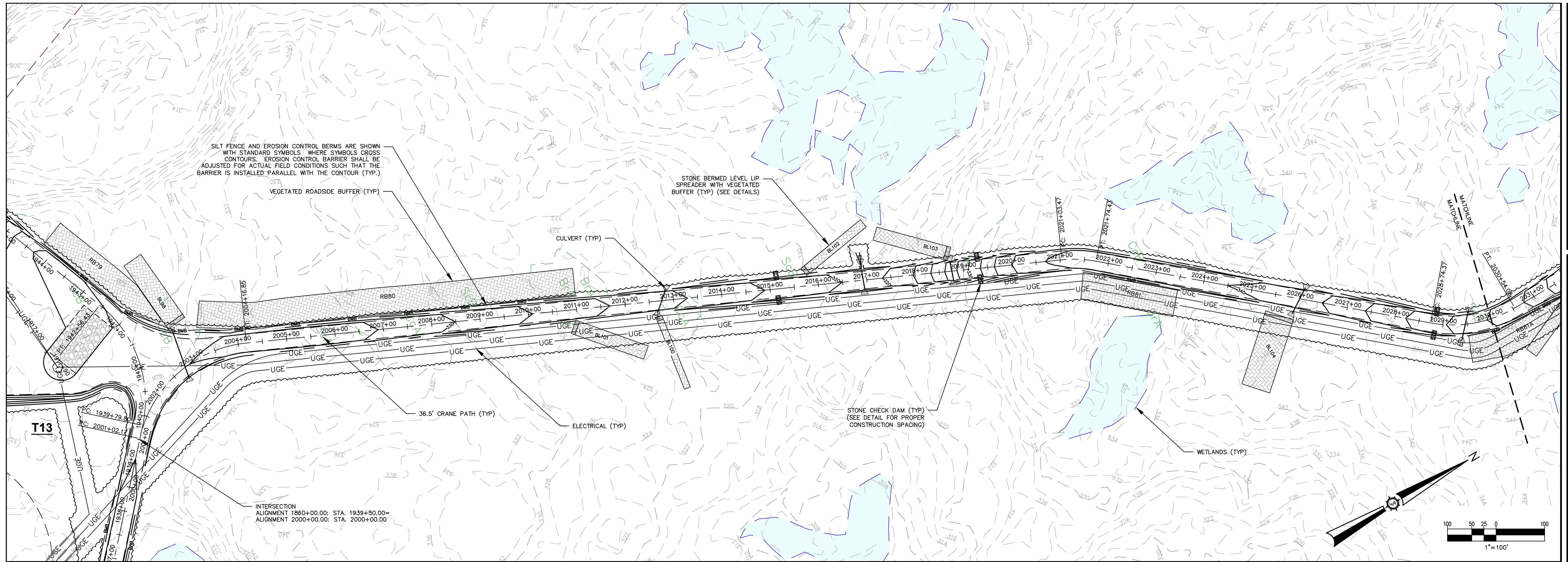
Drawn By: MITFB  
Checked By: JSM  
Date: 03/19/2021  
Scale: 1"=100'



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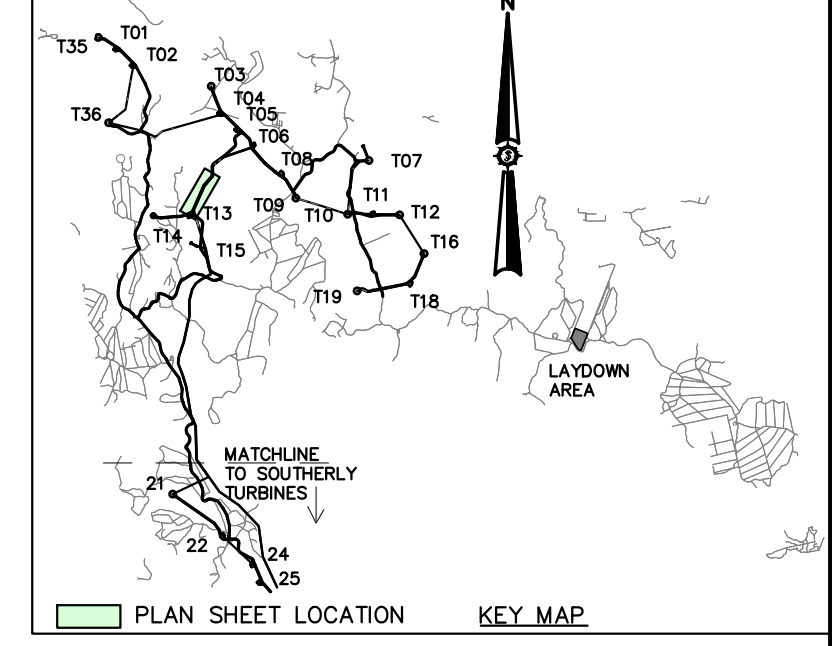
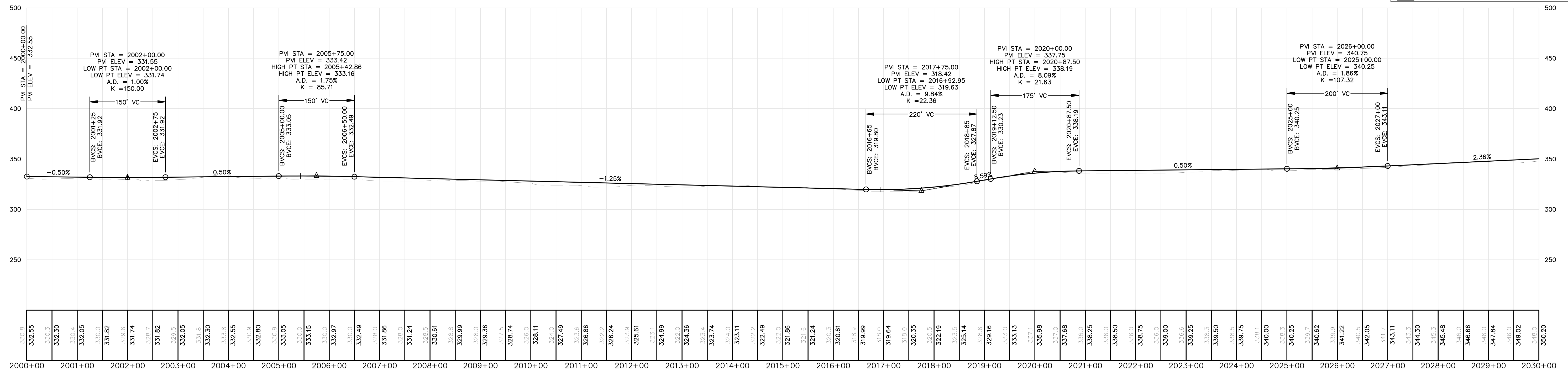




**CRANE PATH 2000+00**

2000+00.00 - 2030+00.00

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



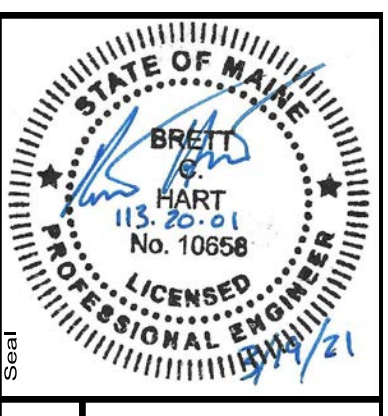
Drawn By	Checked
MTEB	JSM

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST NE, SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Scale: 1" = 100'

Approved: BCH  
 Checked: JSM



113.20.01

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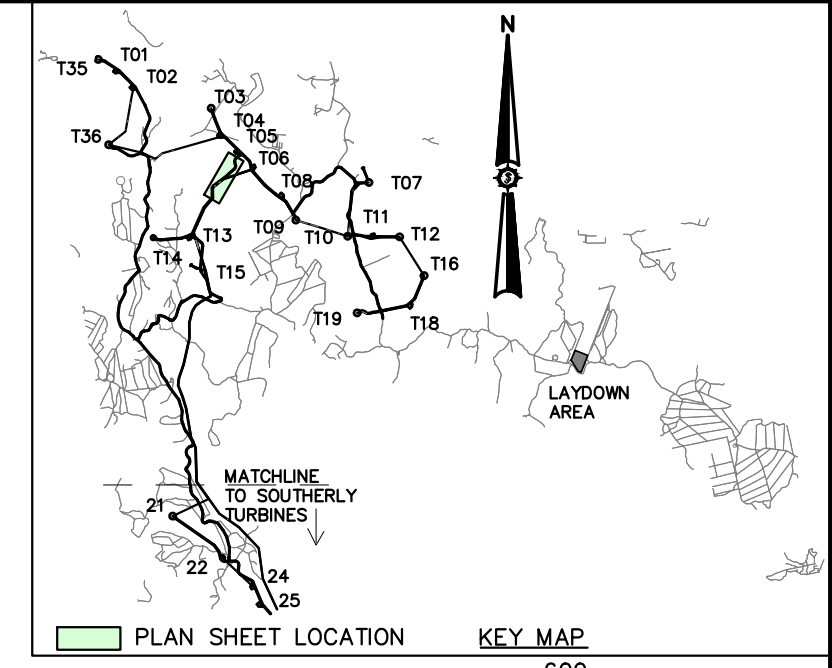
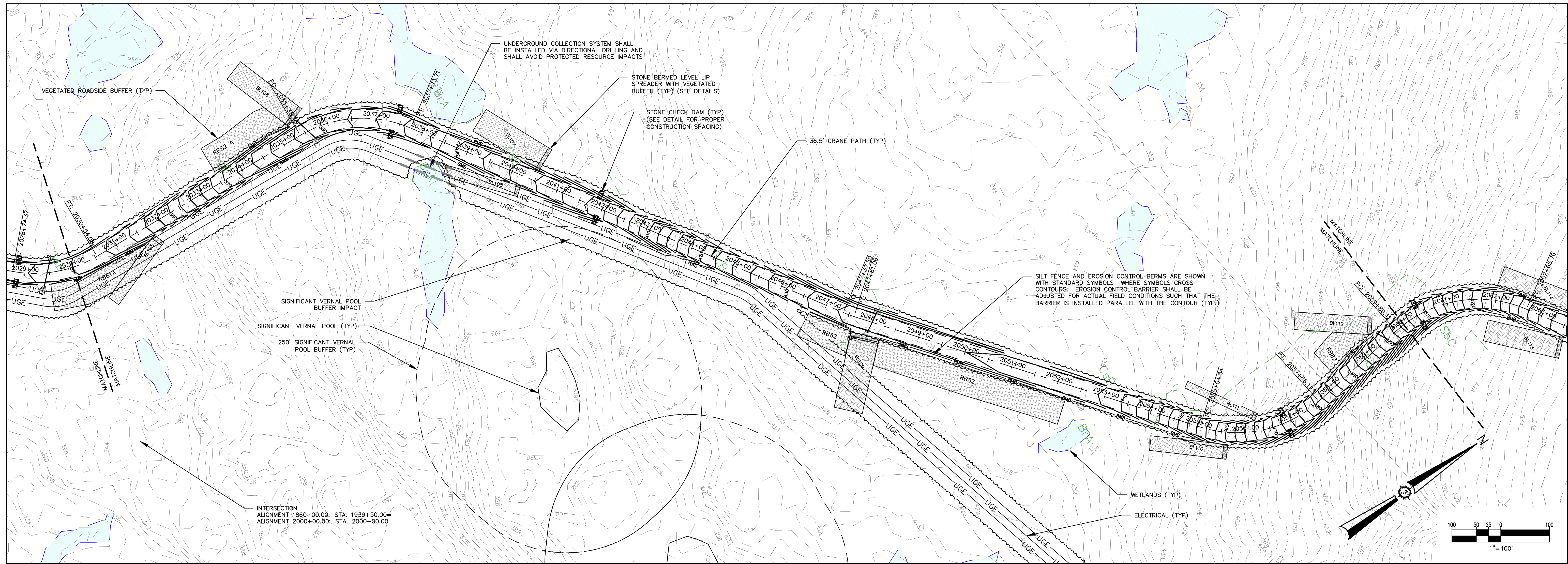
www.sewal.com  
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Phase: PERMIT

Sheet No.: 22.1

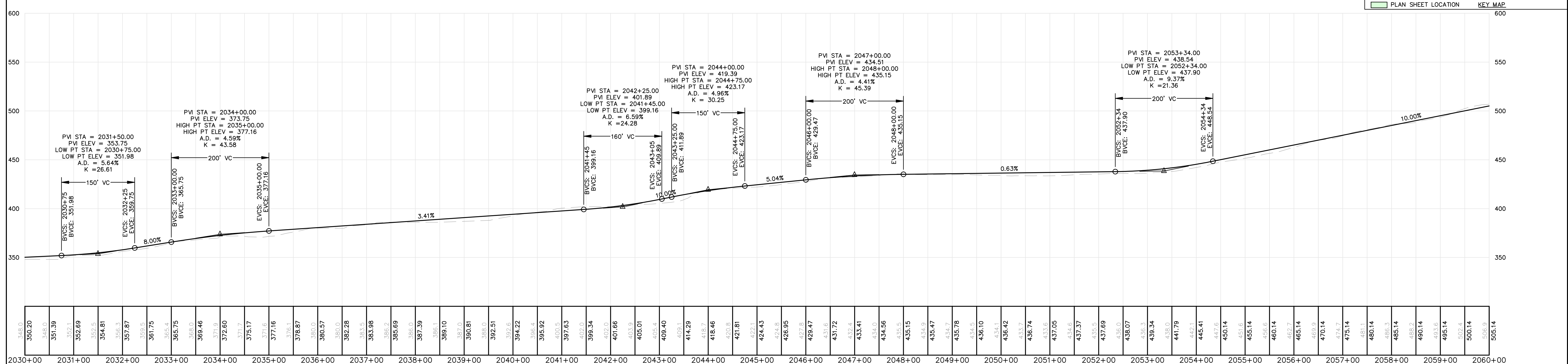
NOT FOR CONSTRUCTION





**CRANE PATH 2000+00**  
2030+00.00 - 2060+00.00

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



Drawn By	MIFB
Checked By	JSM
Approved By	BCH
Scale	AS SHOWN
Date	03/19/2021
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	PLAN AND PROFILE

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

STATE OF MAINE  
BRETT BART  
113.20.01  
LICENSED PROFESSIONAL ENGINEER  
No. 10858

113.20.01

ENGINEERING SURVEYING

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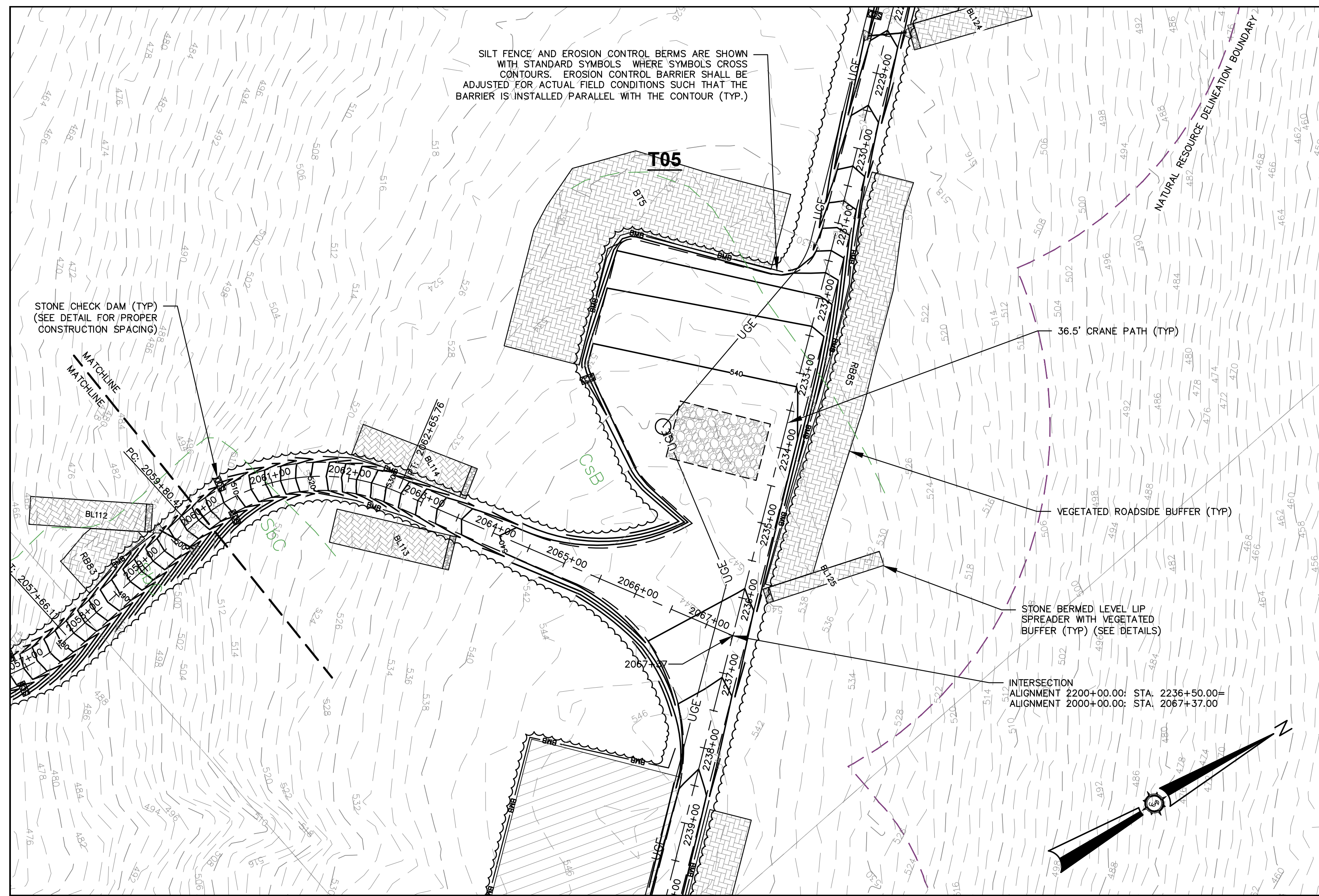
www.sewal.com 1 800 648 4202

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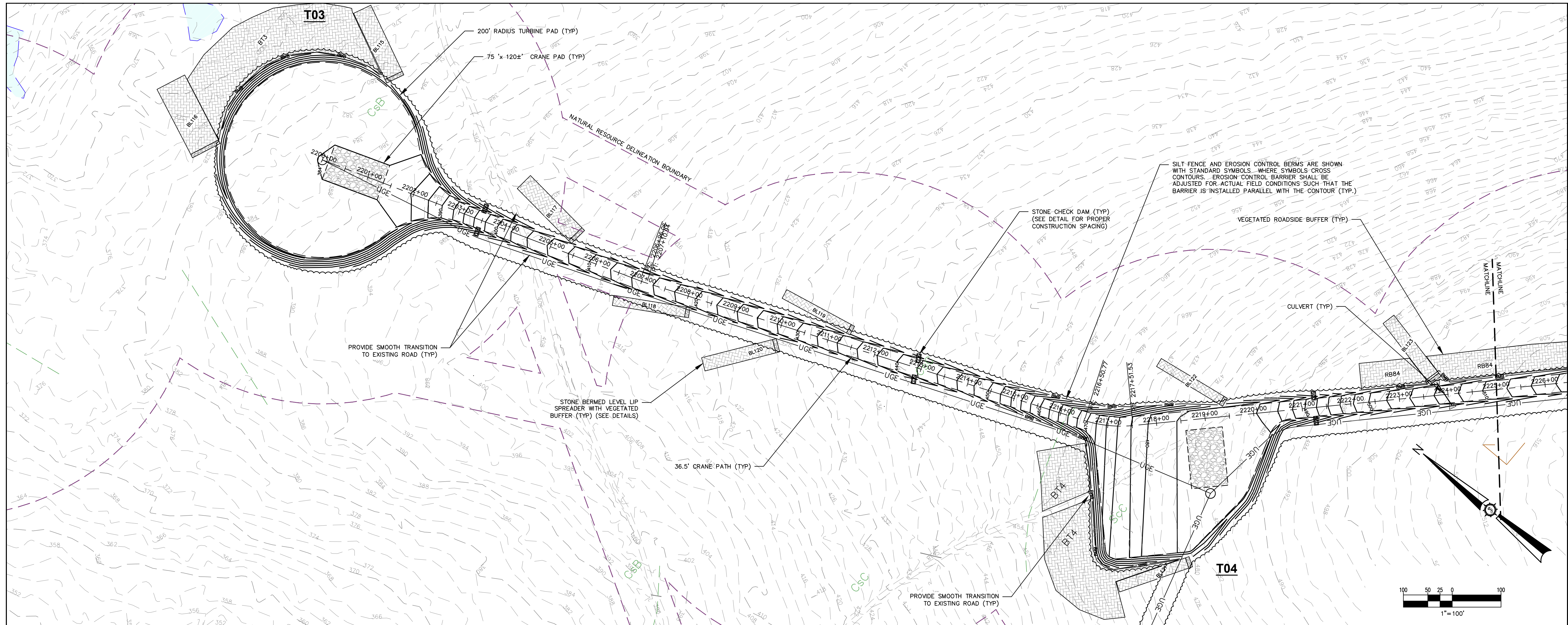
22.2

NOT FOR CONSTRUCTION



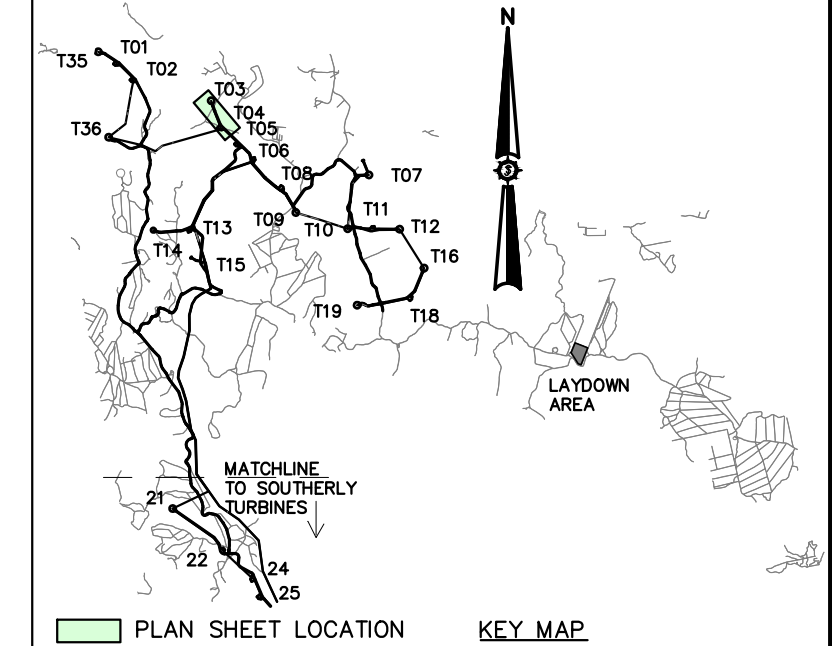
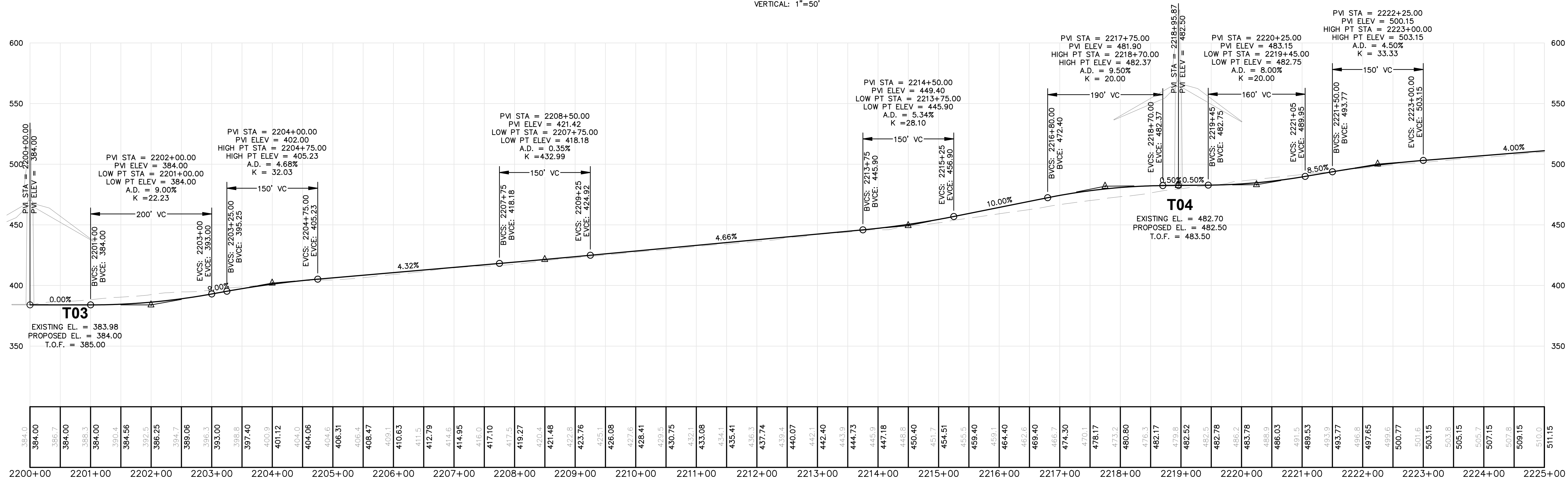






**CRANE PATH 2200+00**  
2200+00.00 - 2225+00.00

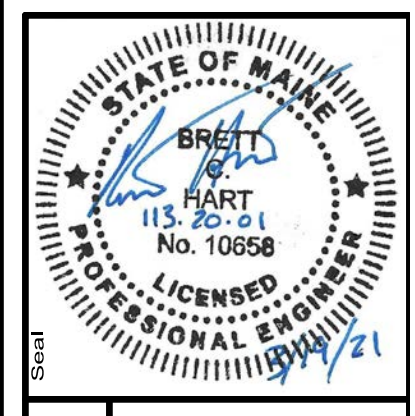
HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



Drawn By	MIFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	PLAN AND PROFILE

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawn By: MIFB  
Checked By: JSM  
Designated By: BCH  
Date: 03/19/2021  
Scale:   
Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
Drawing Description: PLAN AND PROFILE



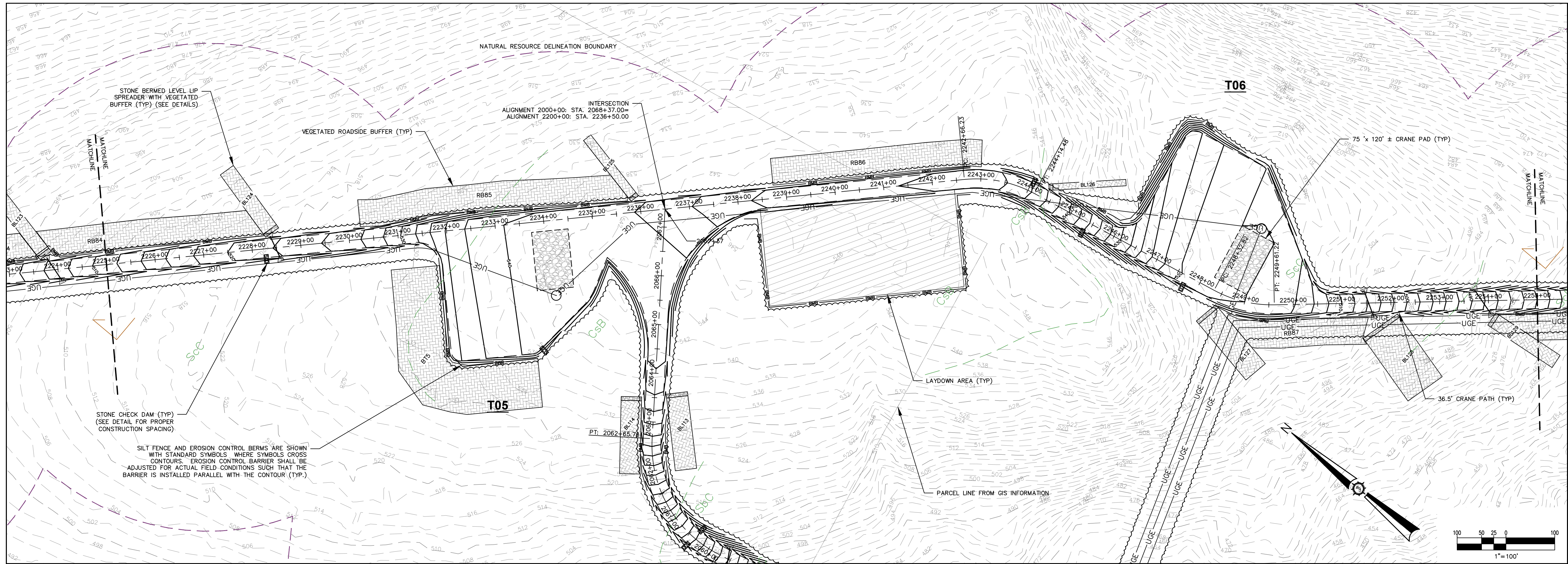
113.20.01

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Phase: PERMIT  
Sheet No.: 23.1

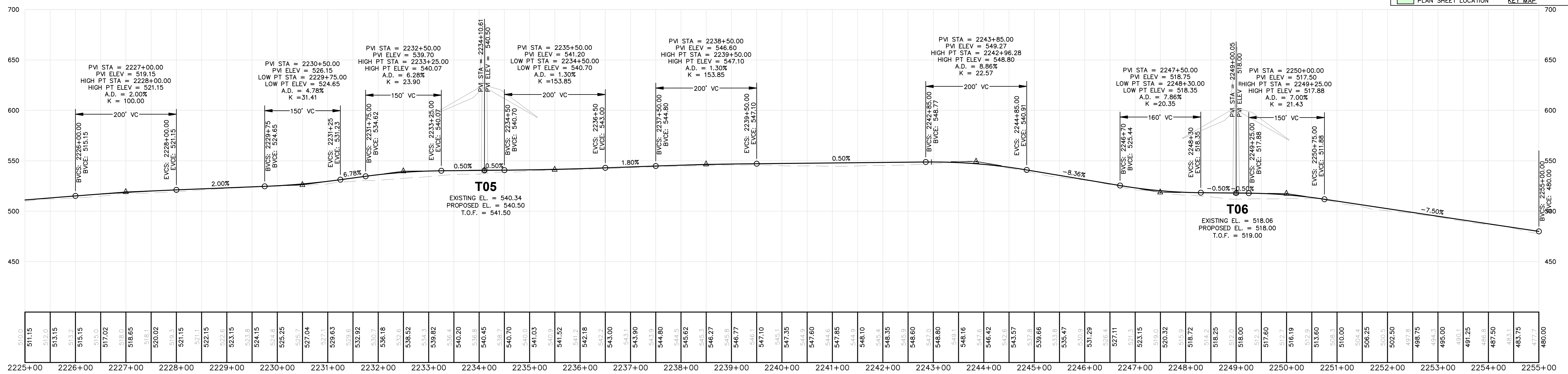
NOT FOR CONSTRUCTION





**CRANE PATH 2200+00**  
2225+00.00 — 2255+00.00

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



NOT FOR CONSTRUCTION

Drawn By: MTFB  
Checked By: JSM  
Designed By: BCH  
Scale: 1"=100'  
Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
Drawing Description: PLAN AND PROFILE

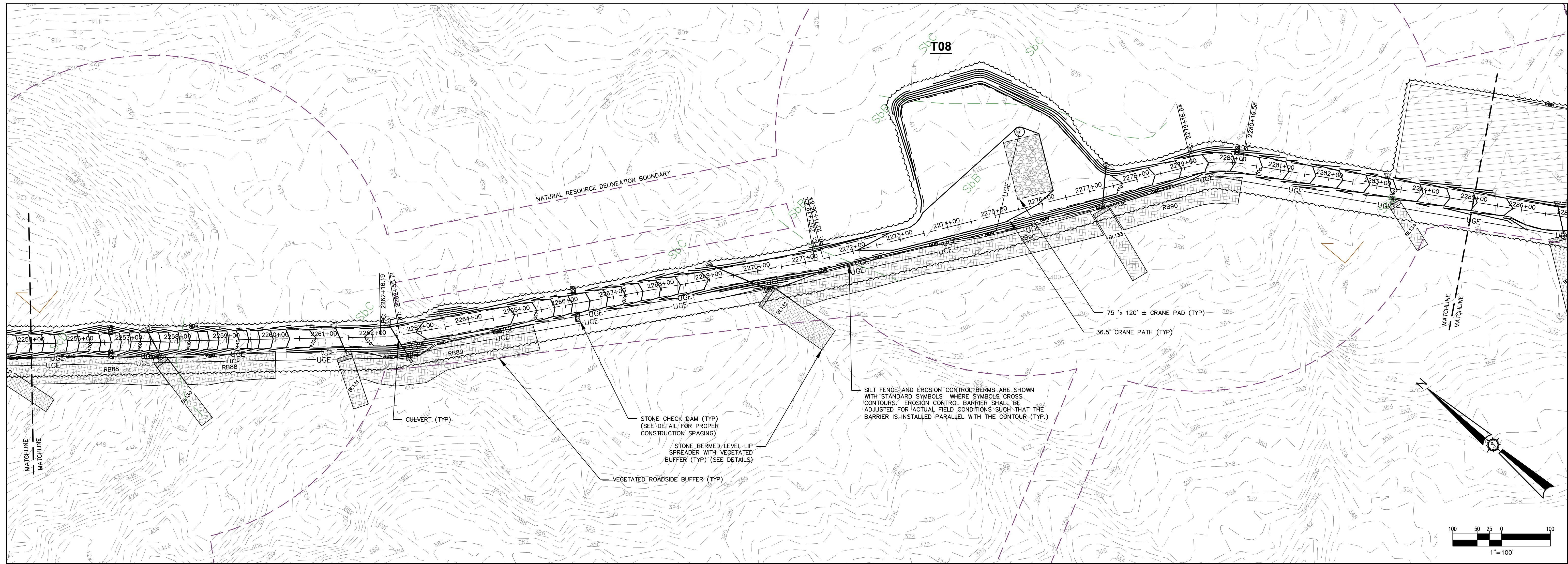
**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

STATE OF MAINE  
BRETT  
HART  
113.20.01  
LICENSED PROFESSIONAL ENGINEER  
No. 10858

113.20.01  
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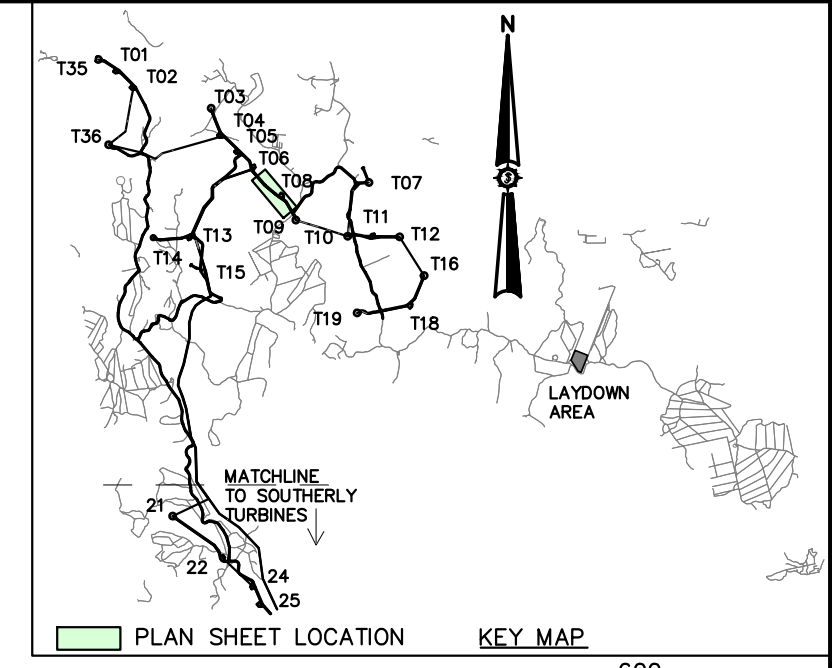
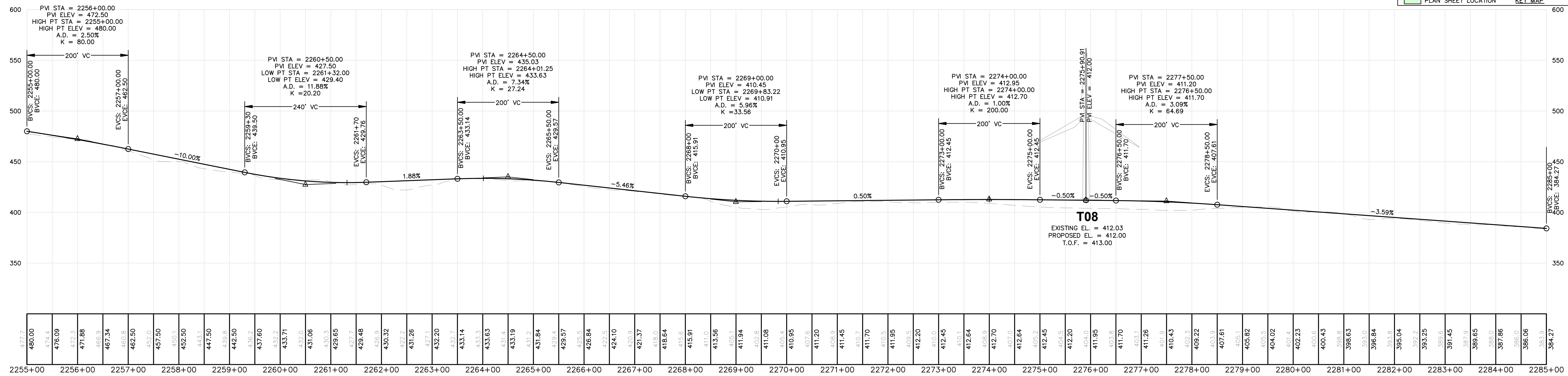
PERMIT  
Sheet No. 23.2





**CRANE PATH 2200+00**  
2255+00.00 - 2285+00.00

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'

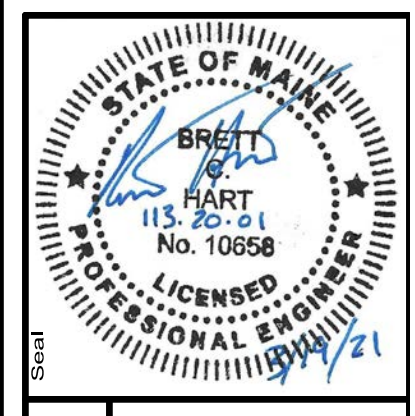


Drawn By	MTEB
Checked	BCH
Approved	JSM

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
Project Location

Drawn By: MTEB  
Checked: BCH  
Approved: JSM

**PLAN AND PROFILE**



113.20.01

ENGINEERING SURVEYING

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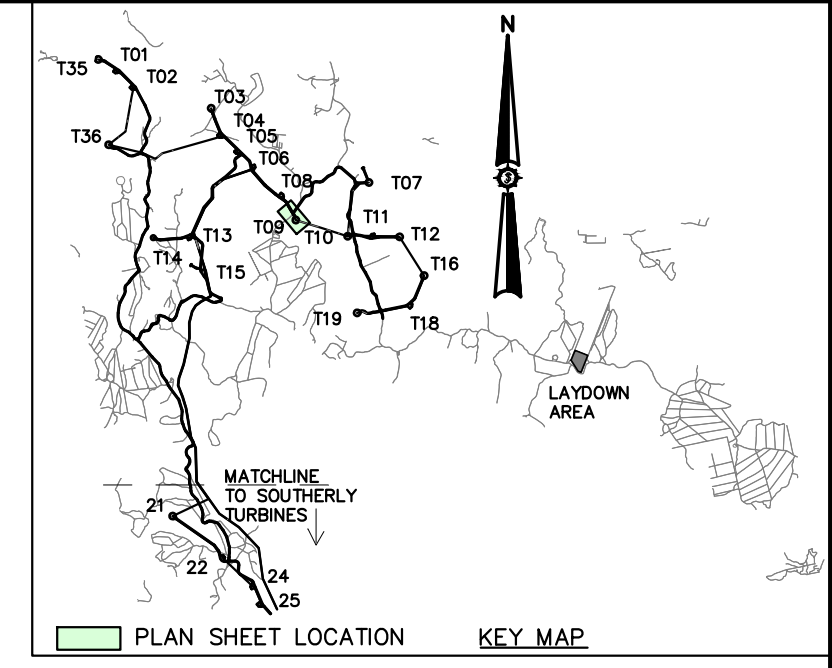
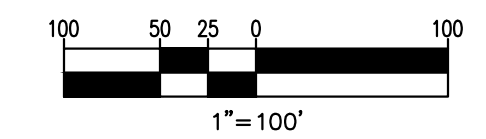
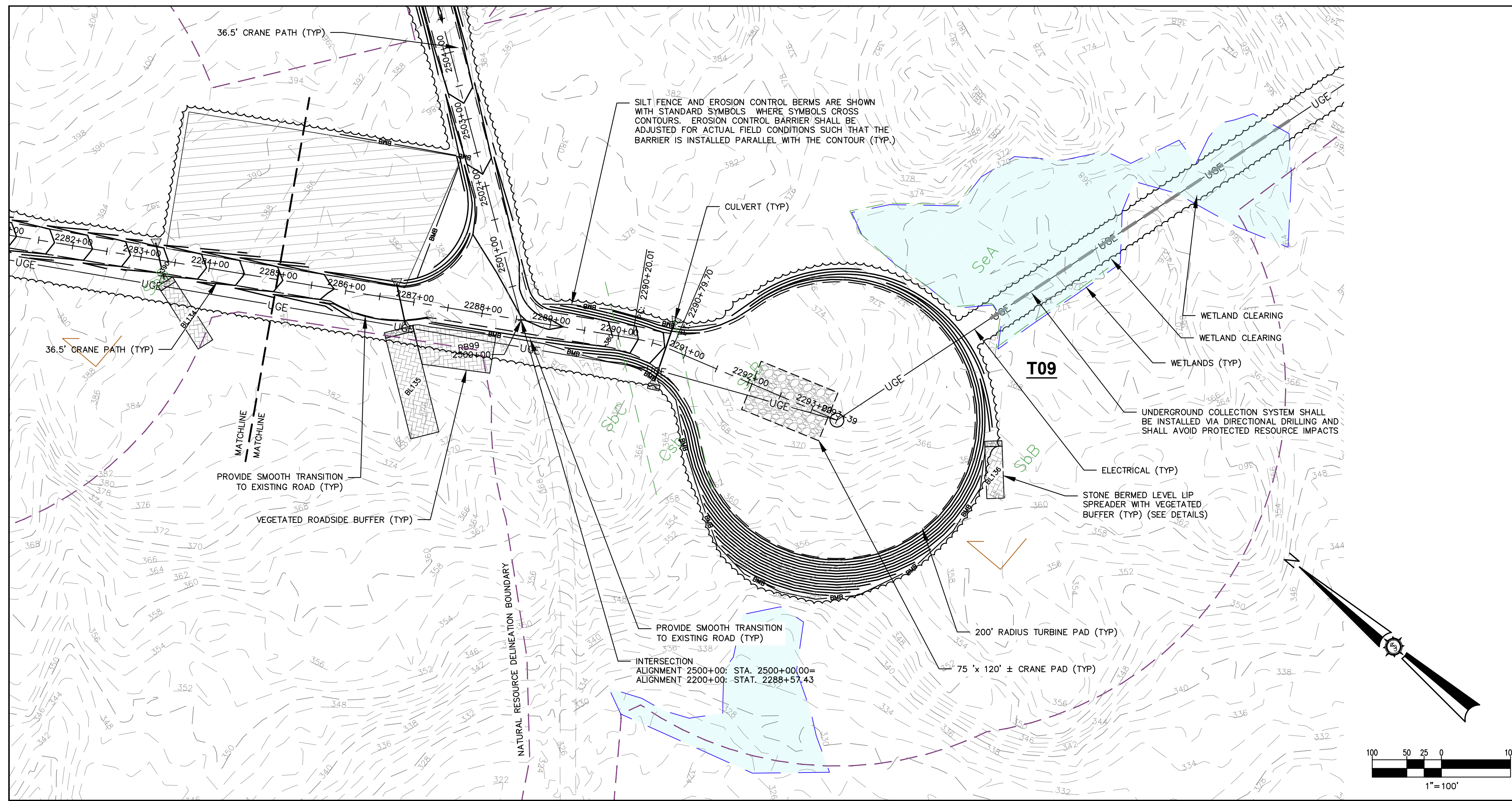
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Phase: **PERMIT**

Sheet No. **23.3**

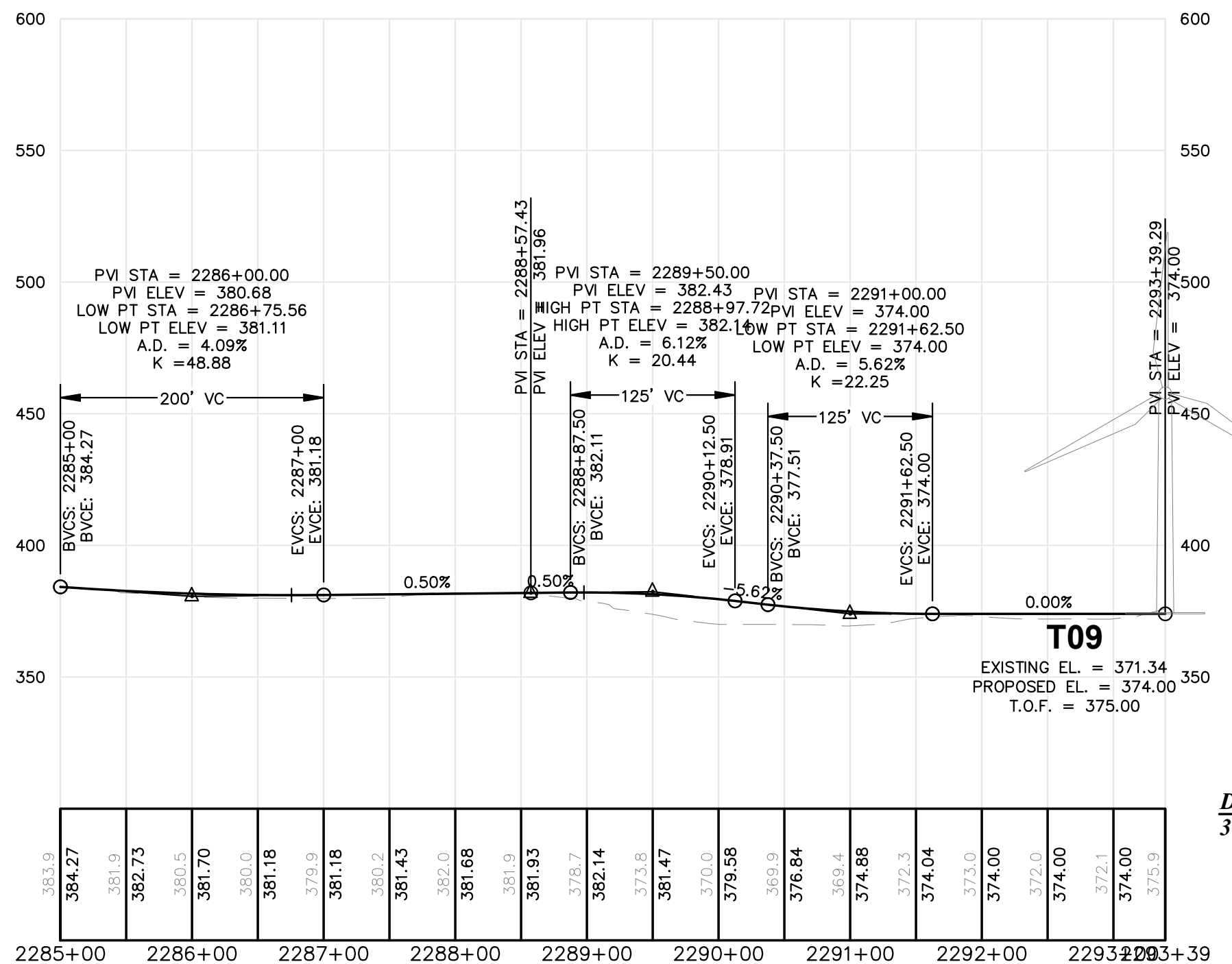
NOT FOR CONSTRUCTION





**CRANE PATH 2200+00**  
2285+00.00 - 2293+39.30

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VERTICAL: 1"=50'

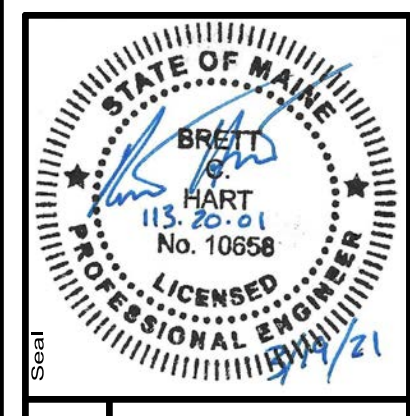


Date	
Drawn By	MTFB
Checked By	JSM
Approved By	BCH
Designated By	BCH
Scale	AS SHOWN
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	PLAN AND PROFILE

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawing Description: PLAN AND PROFILE



Project No. 113.20.01

Phase: SURVEYING

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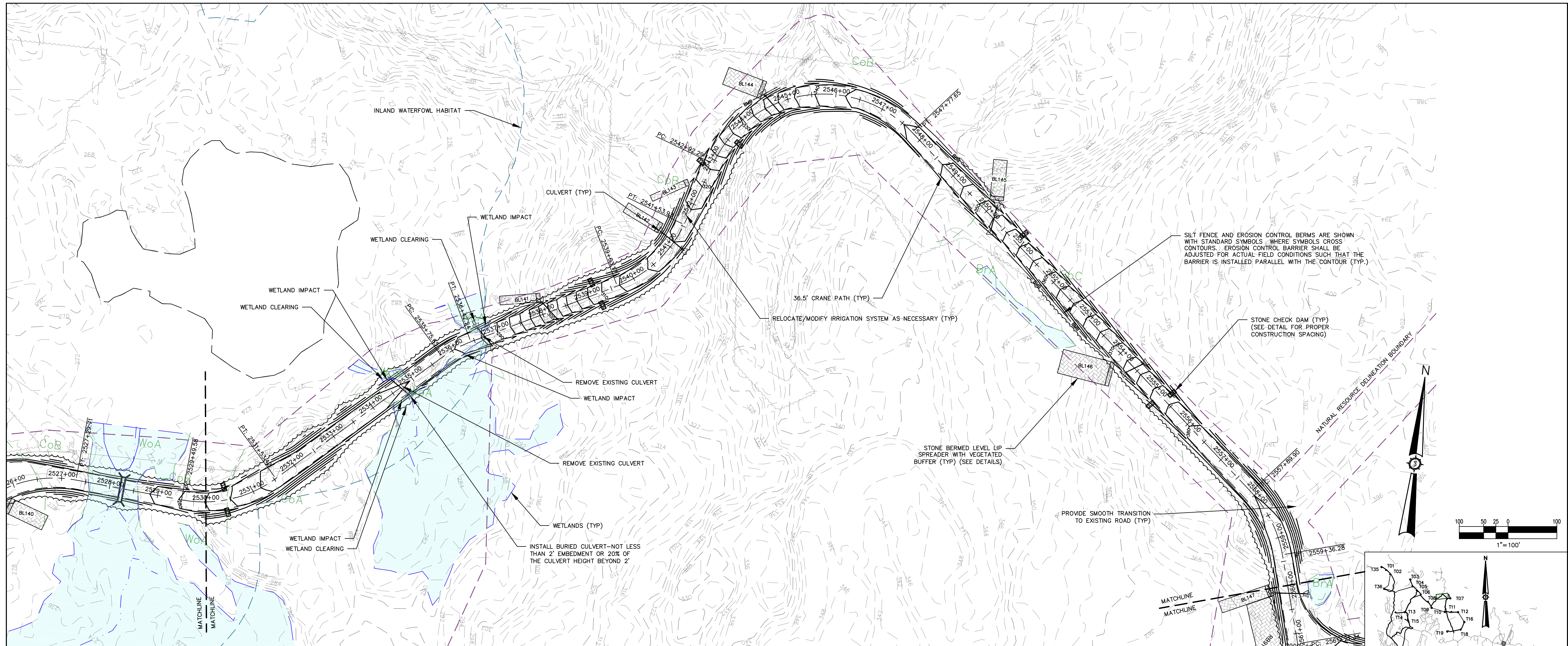
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NOT FOR CONSTRUCTION



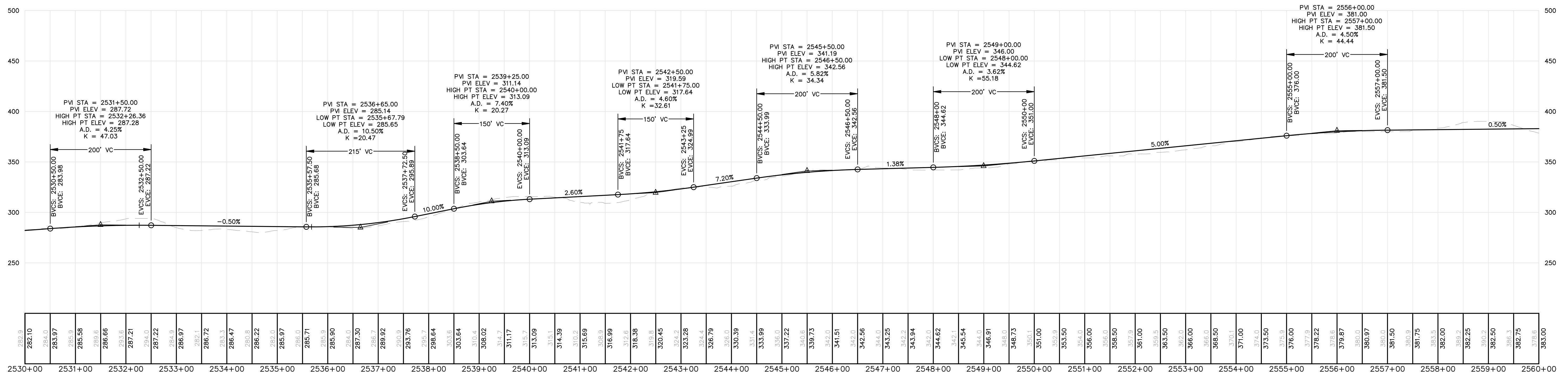






**CRANE PATH 2500+00**  
2530+00.00 — 2560+00.00

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'

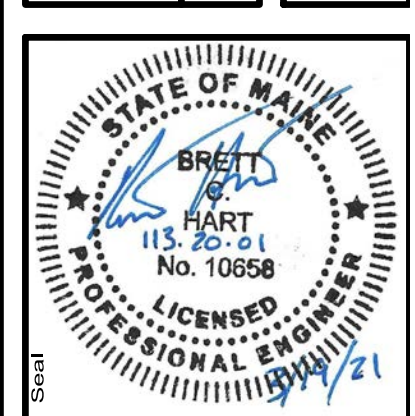


Rev.	Date	By	Description

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawn By: MITFB  
Checked: JSM  
Designed By: BCH  
Scale: 03/19/2021  
Approved: BCH

**PLAN AND PROFILE**

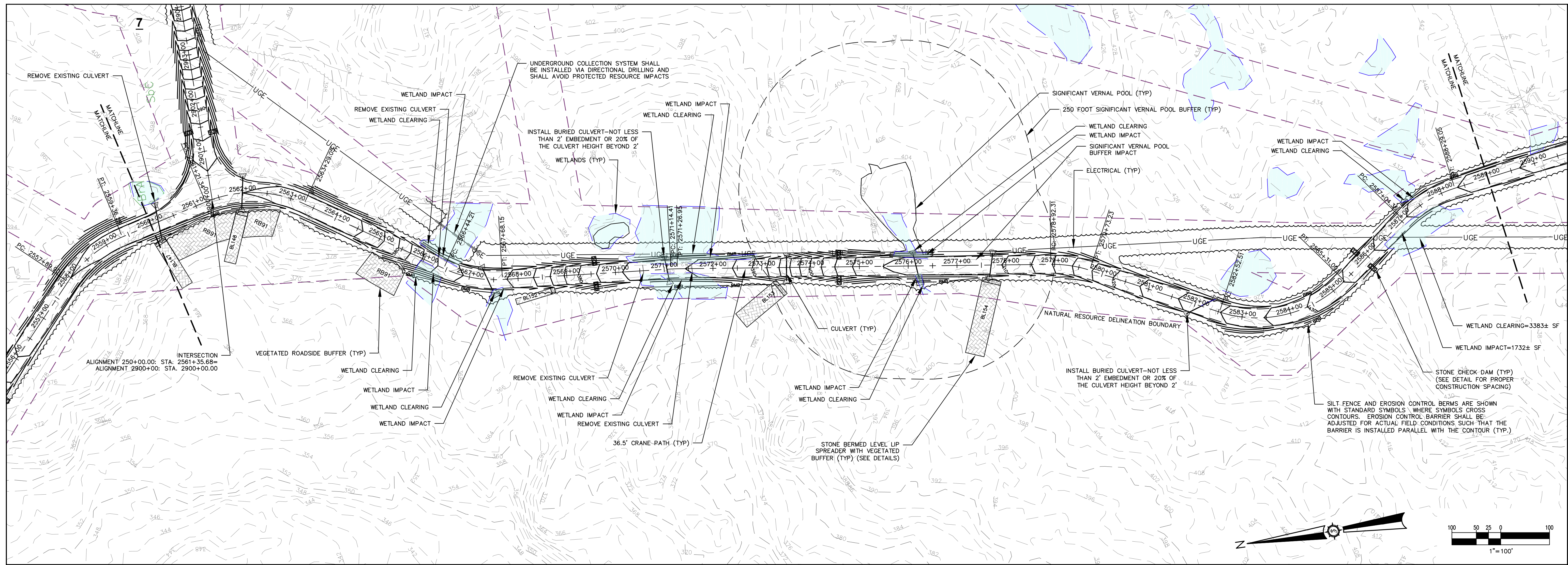


113.20.01

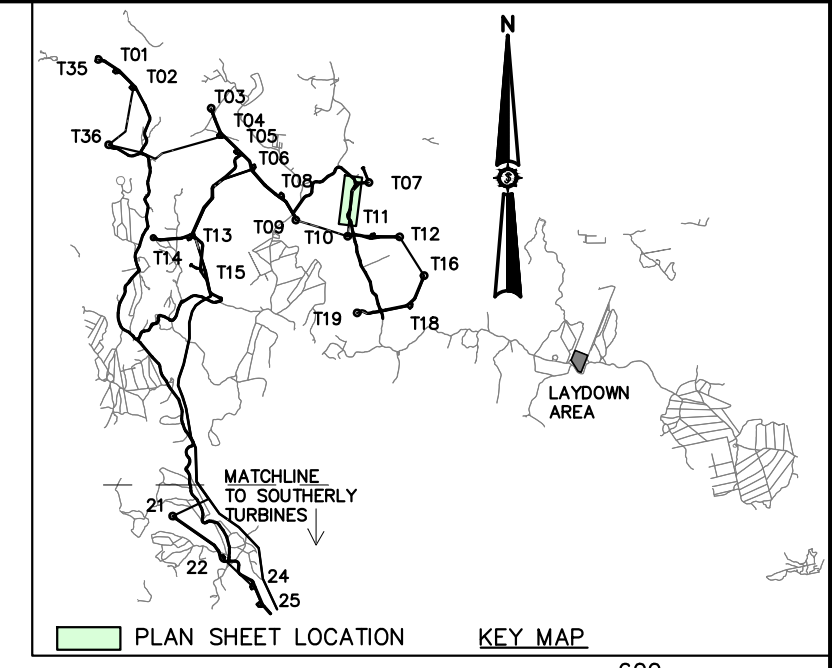
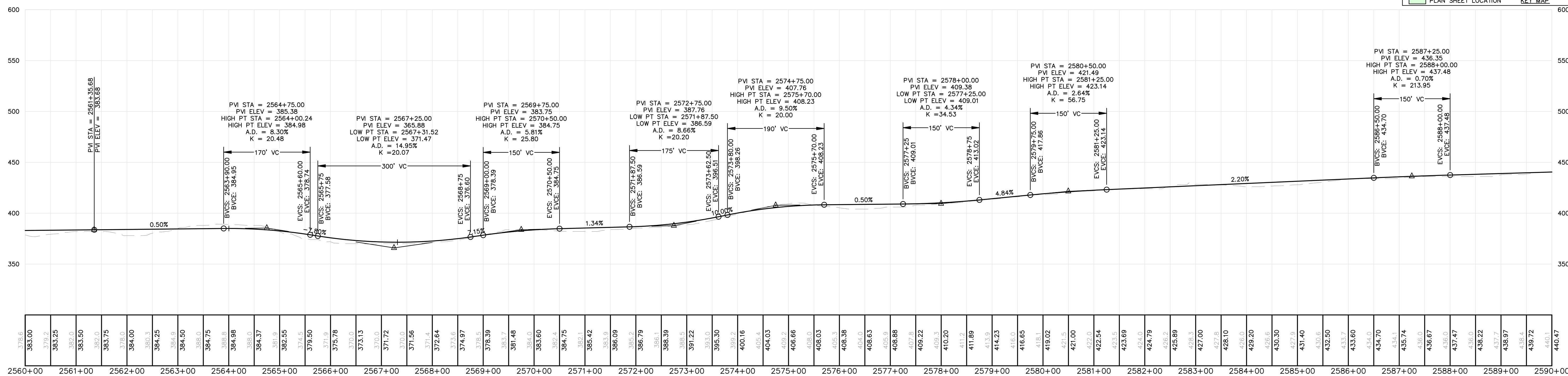
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**CRANE PATH 2500+00**  
 2560+00.00 - 2590+00.00  
 HORIZONTAL: 1"=100'  
 VERTICAL: 1"=50'

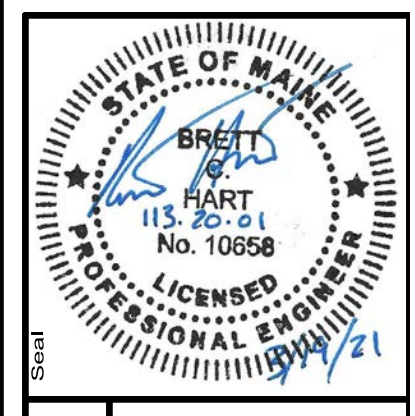


Drawn By	MTEB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Approved	BCH
Drawing Description	

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 Project Location

DESIGNED BY: MTEB  
 CHECKED BY: JSM  
 APPROVED BY: BCH

**PLAN AND PROFILE**



113.20.01

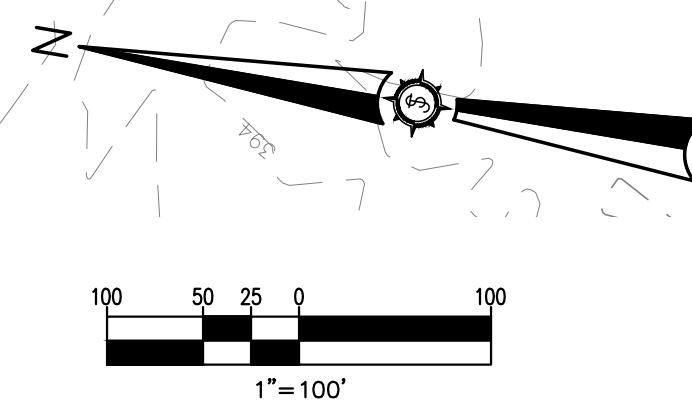
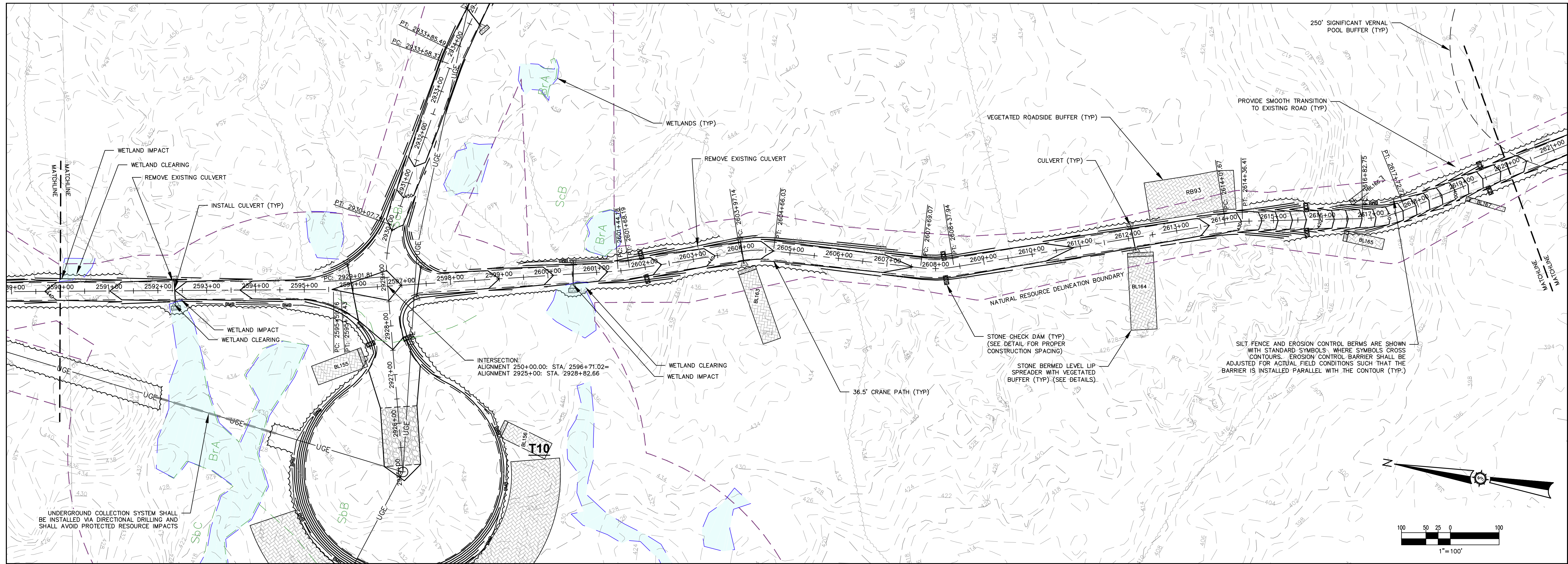
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Phase: **PERMIT**

Sheet No.: **24.3**

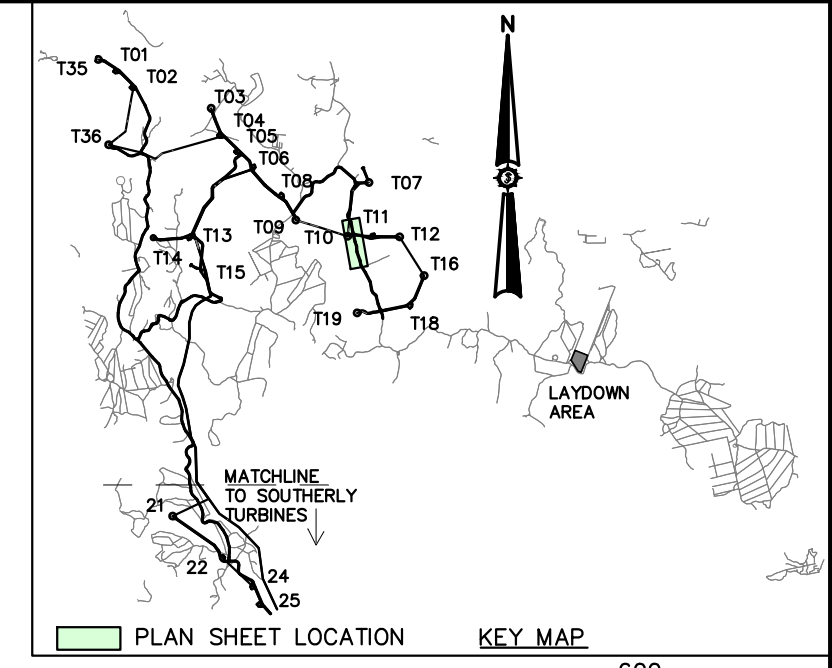
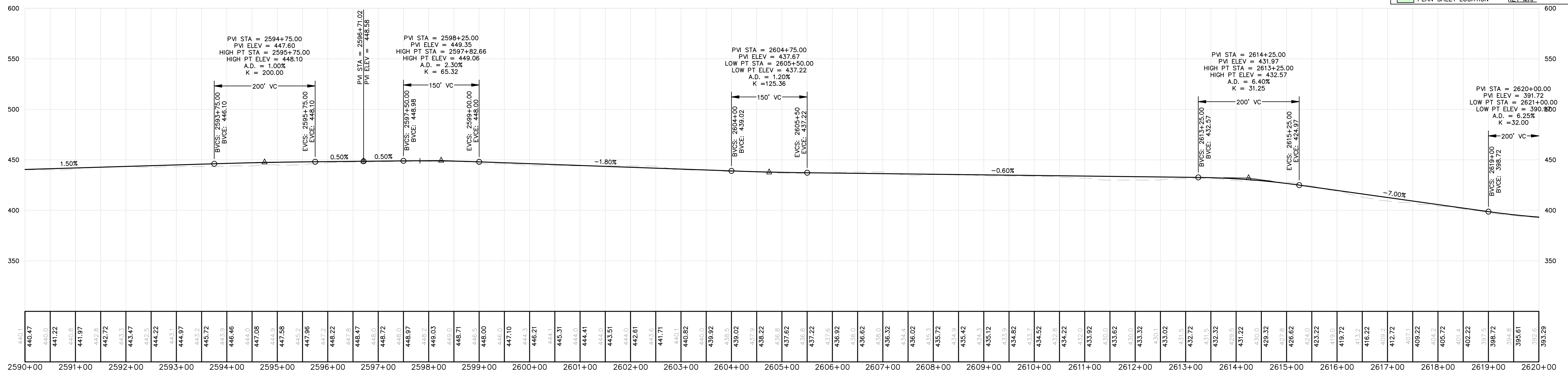
NOT FOR CONSTRUCTION





**CRANE PATH 2500+00**  
2590+00.00 - 2620+00.00

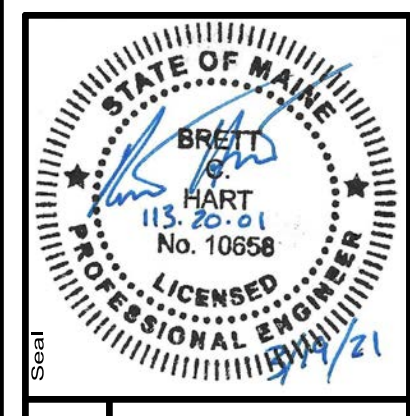
HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



Drawn By	MTEB
Checked By	JSM
Designated By	BCH
Class	03/19/2021
Scale	
Approved	BCH
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	PLAN AND PROFILE

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST. N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
Drawing Description: PLAN AND PROFILE



113.20.01

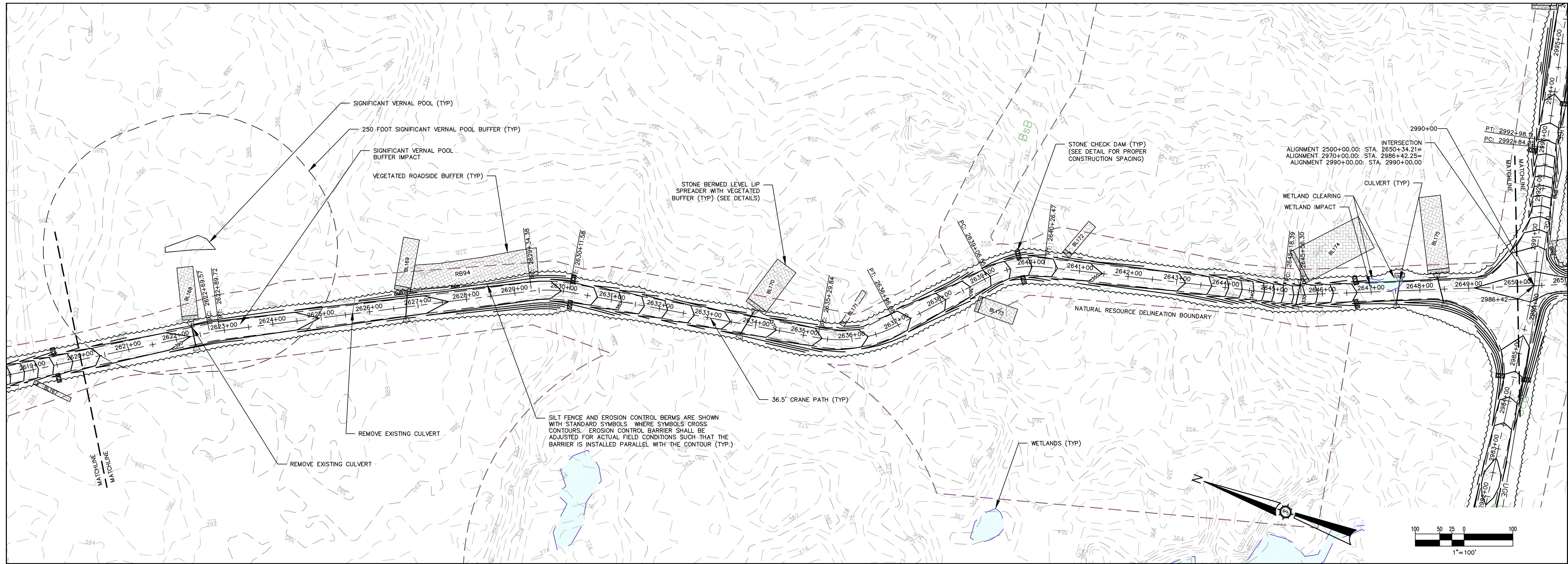
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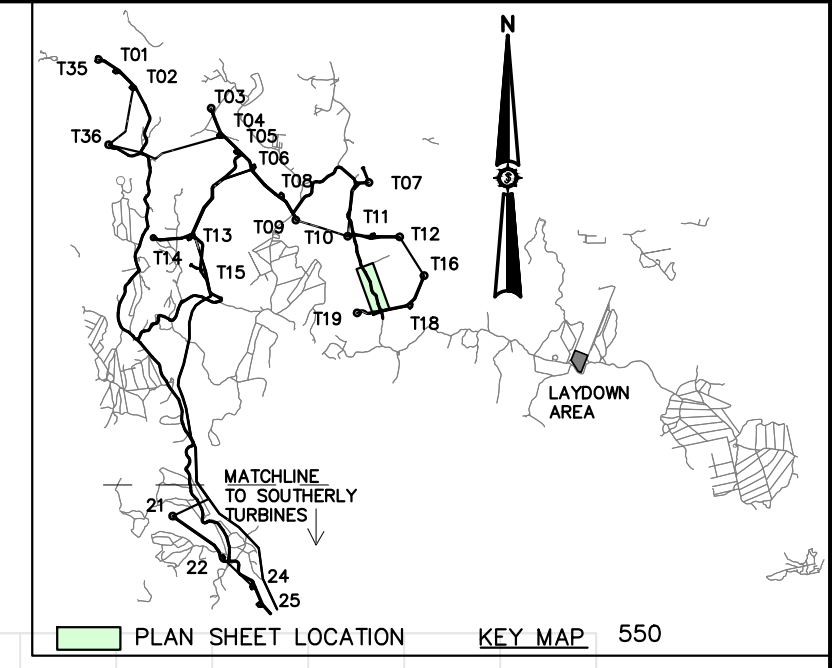
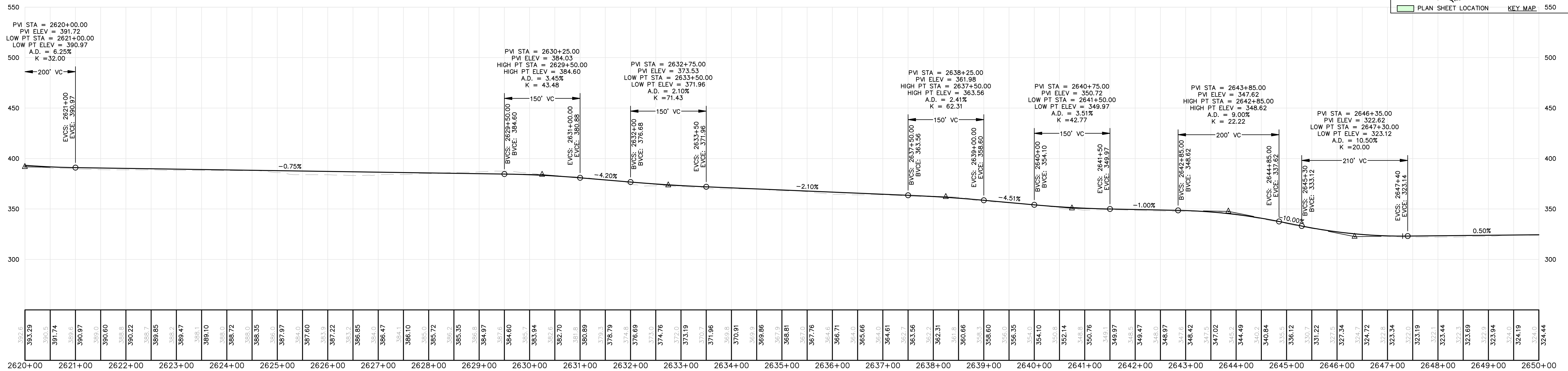




**CRANE PATH 2500+00**

2620+00.00 - 2650+00.00

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



Drawn By	MTEFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

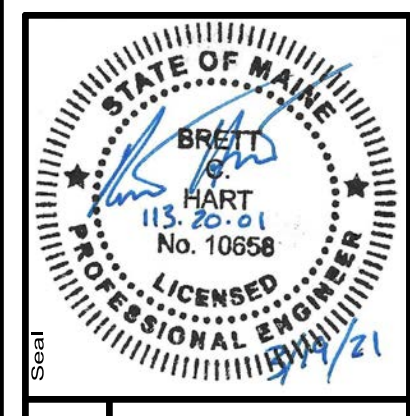
Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Scale: 1"=100'

Approved: BCH

Checked: JSM

**PLAN AND PROFILE**



113.20.01

ENGINEERING SURVEYING

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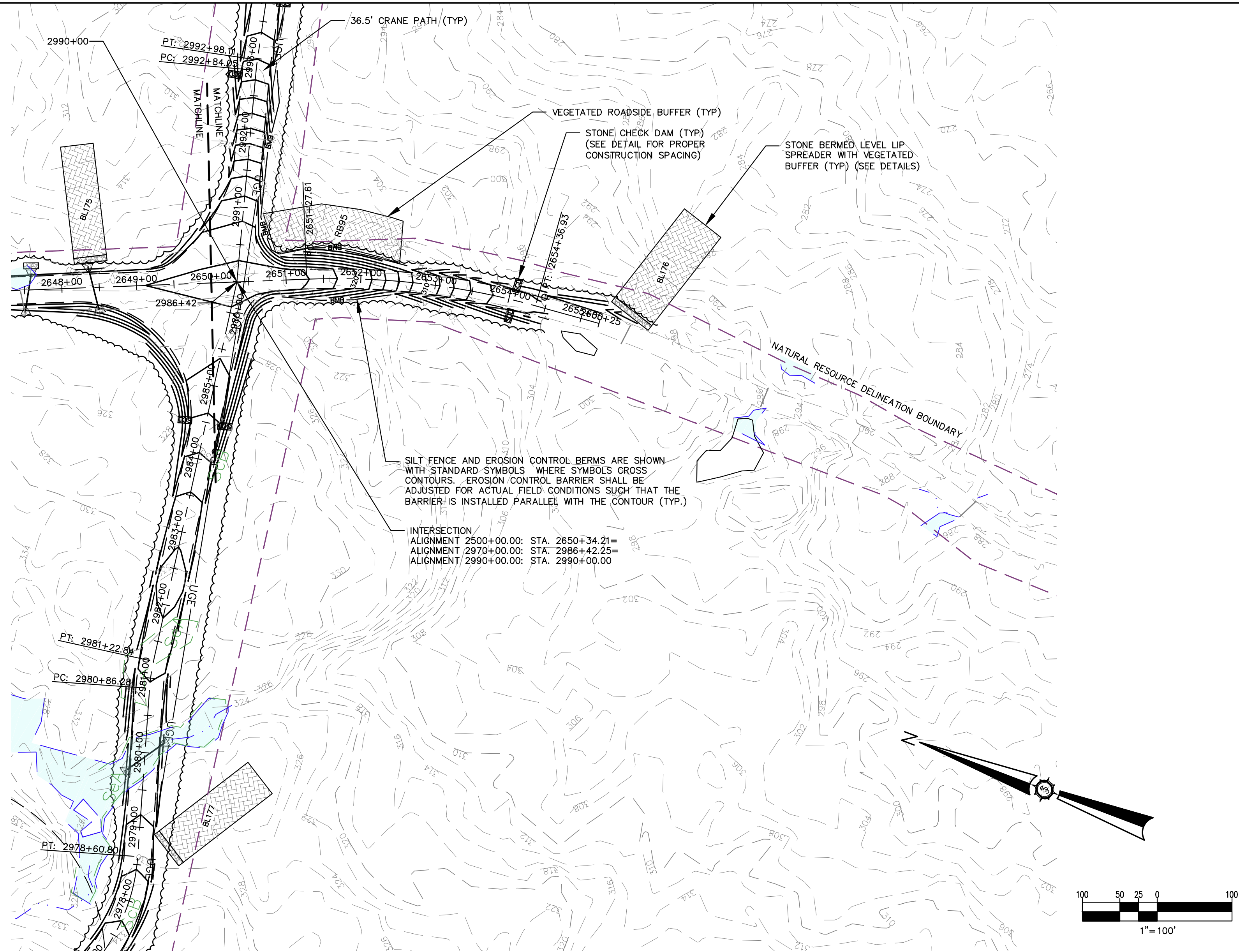
1 800 648 4202

Phase: PERMIT

Sheet No.: 24.5

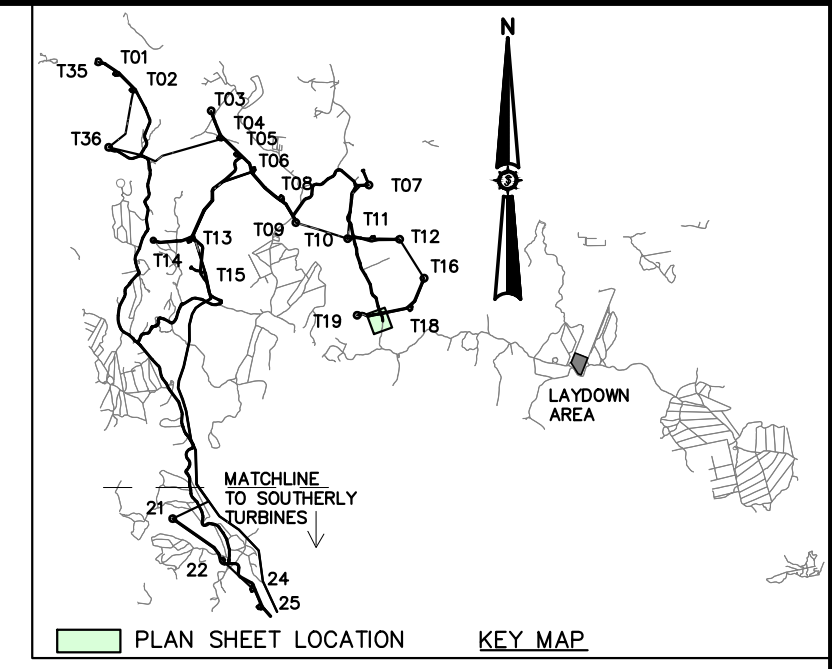
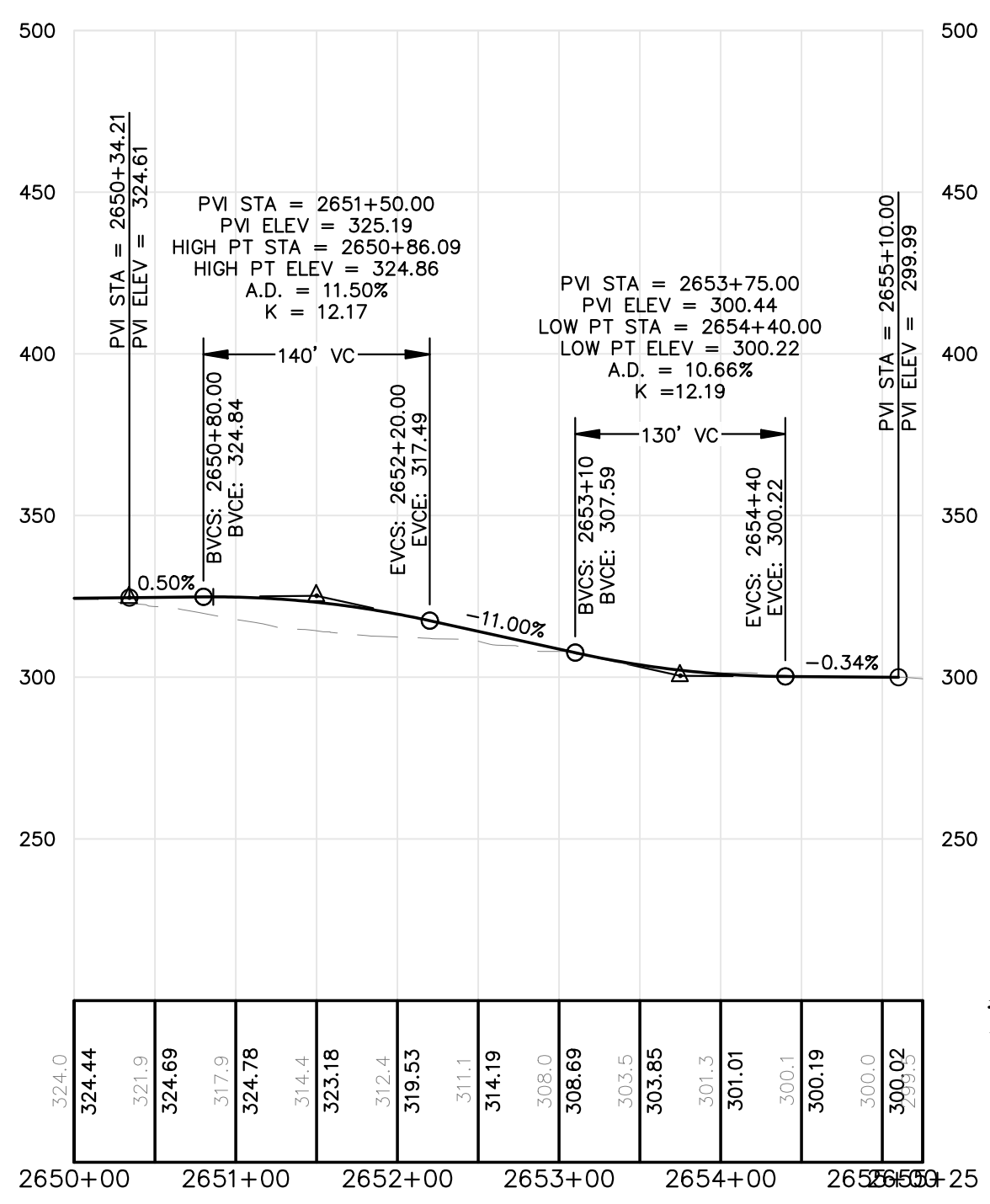
NOT FOR CONSTRUCTION





**CRANE PATH 2500+00**  
2650+00.00 - 2655+25.00

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'

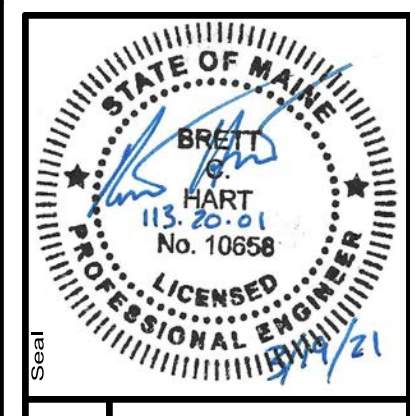


Rev. #	Drawn By	Description	Date

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Designed By: BCH  
Drawn By: MITFB  
Date: 03/19/2021  
Scale:   
Checked: JSM  
Approved: BCH

**PLAN AND PROFILE**



Project No.: 113.20.01  
Phase: PERMIT  
Sheet No.: 24.6

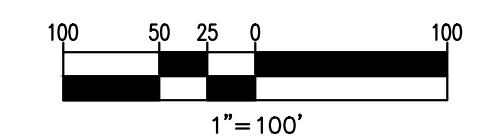
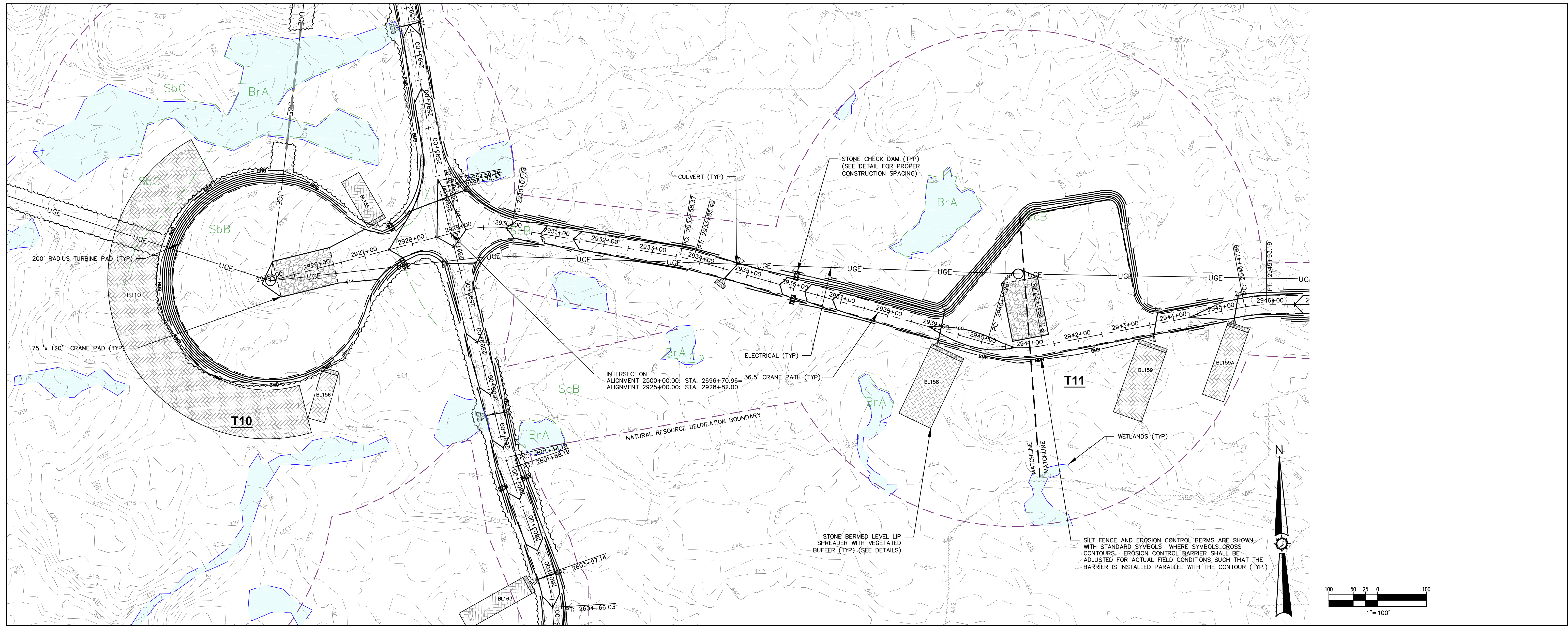
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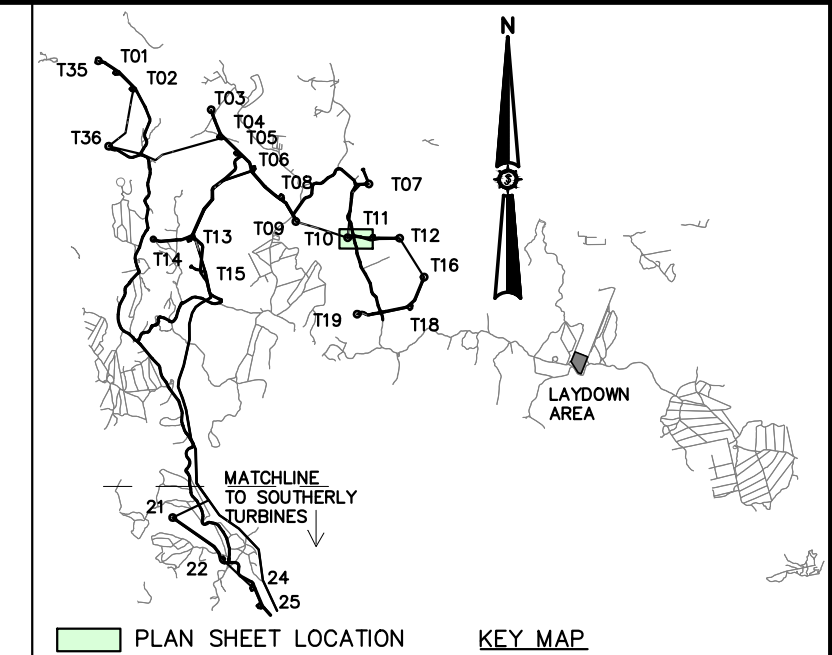
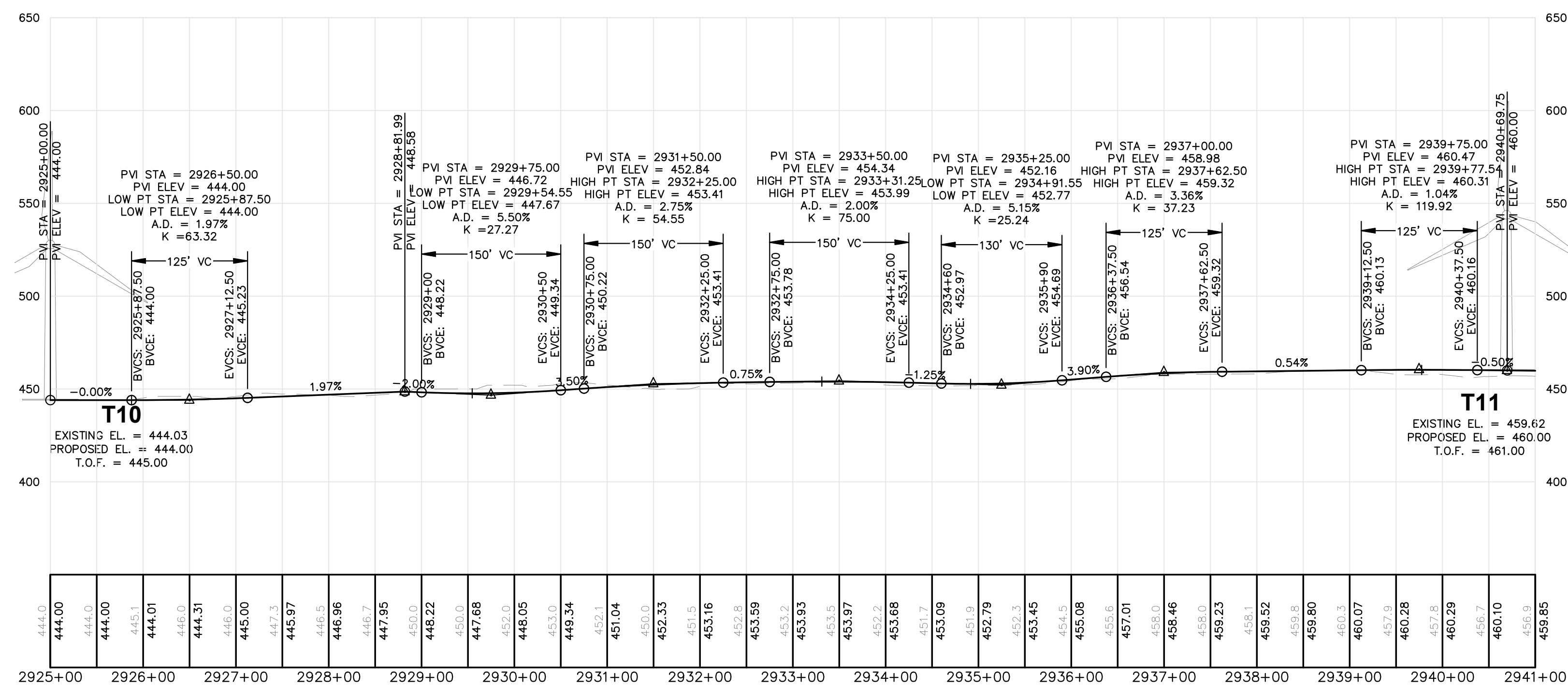




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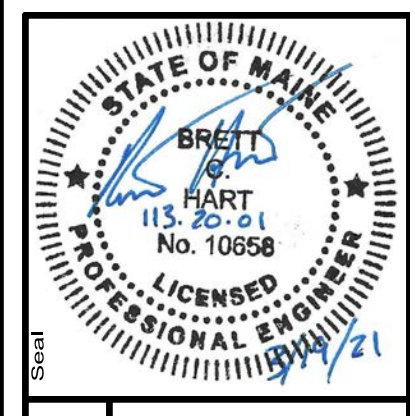
2925+00.00 - 2941+00.00

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'



Drawn By	MIFEB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 Project Location  
 Drawing Description  
**PLAN AND PROFILE**

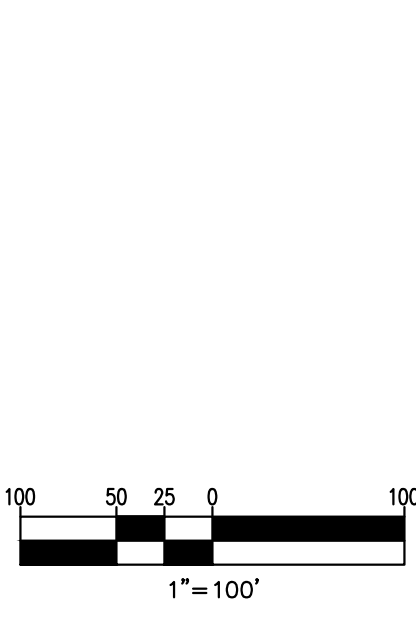
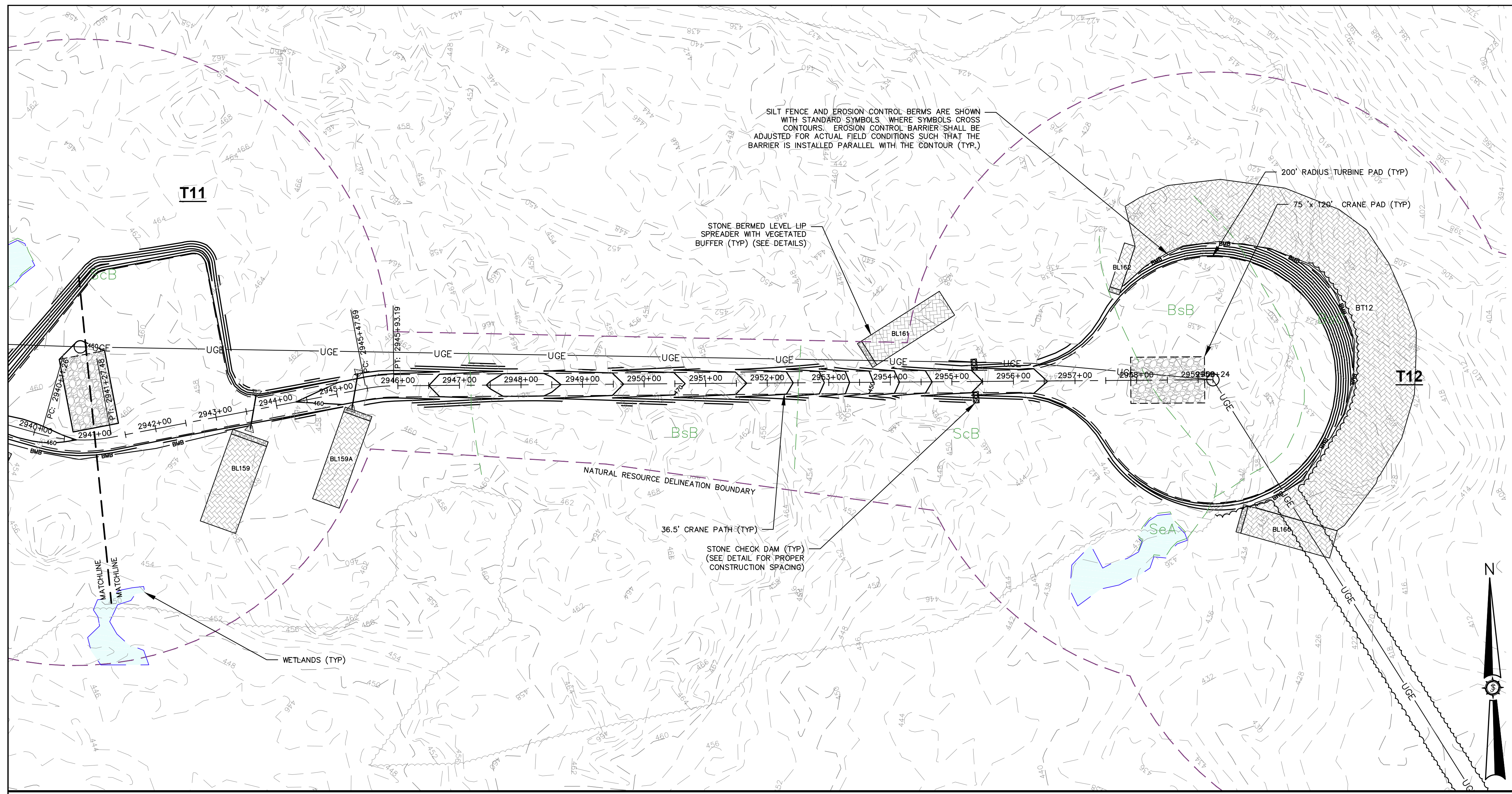


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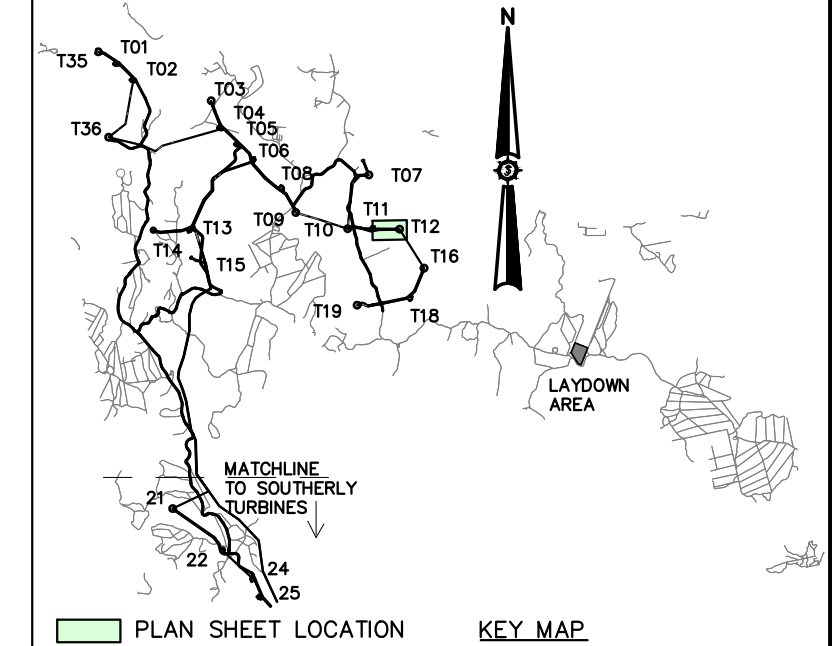
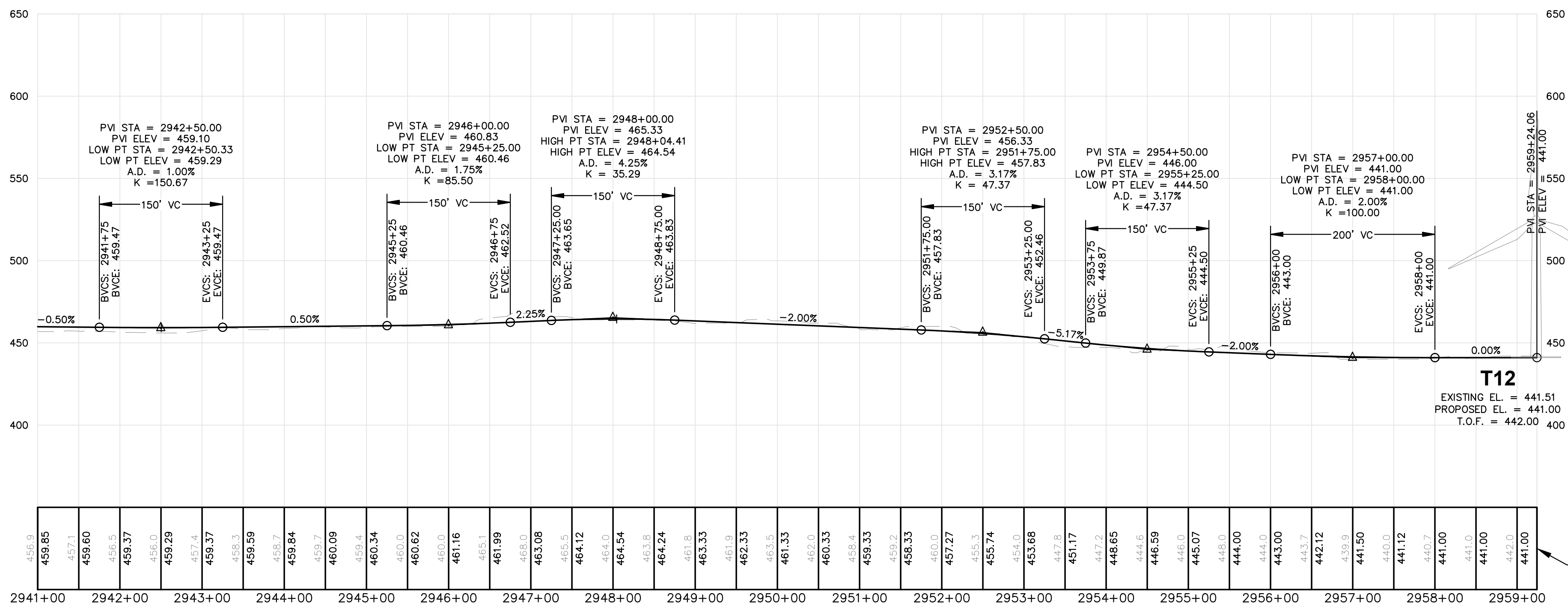
Phase  
**PERMIT**  
 Sheet No.  
**26.1**

NOT FOR CONSTRUCTION





**CRANE PATH 2925+00**  
 2941+00.00 - 2959+24.09  
 HORIZONTAL: 1"=100'  
 VERTICAL: 1"=50'

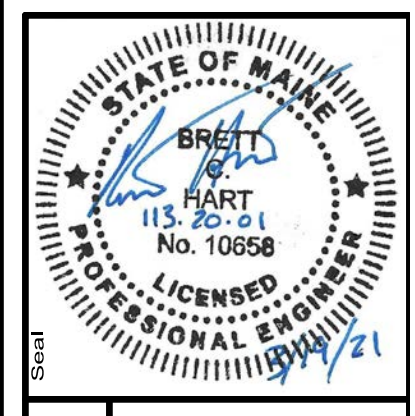


Rev. #	Drawn By	Description

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawn By: MITFB  
 Checked: JSM  
 Date: 03/19/2021  
 Scale: 1"=100'

**PLAN AND PROFILE**



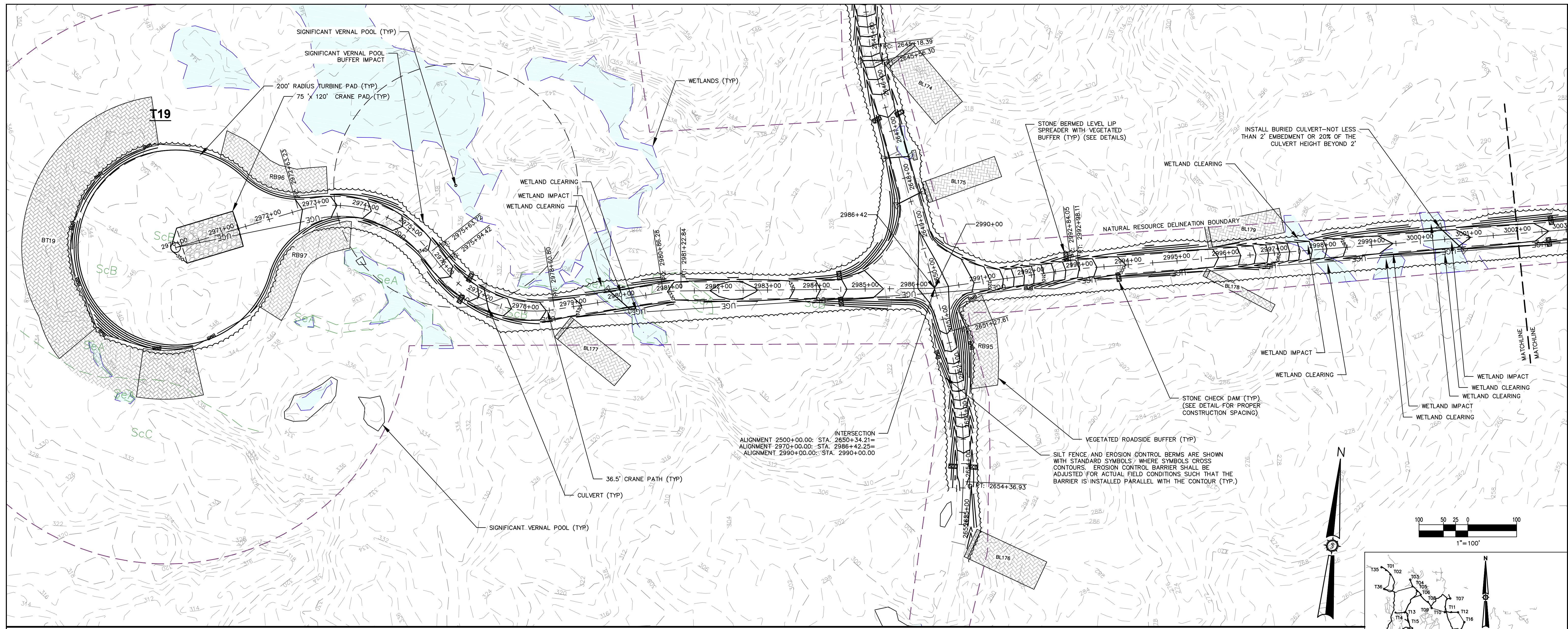
113.20.01

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Phase: PERMIT  
 Sheet No.: 26.2

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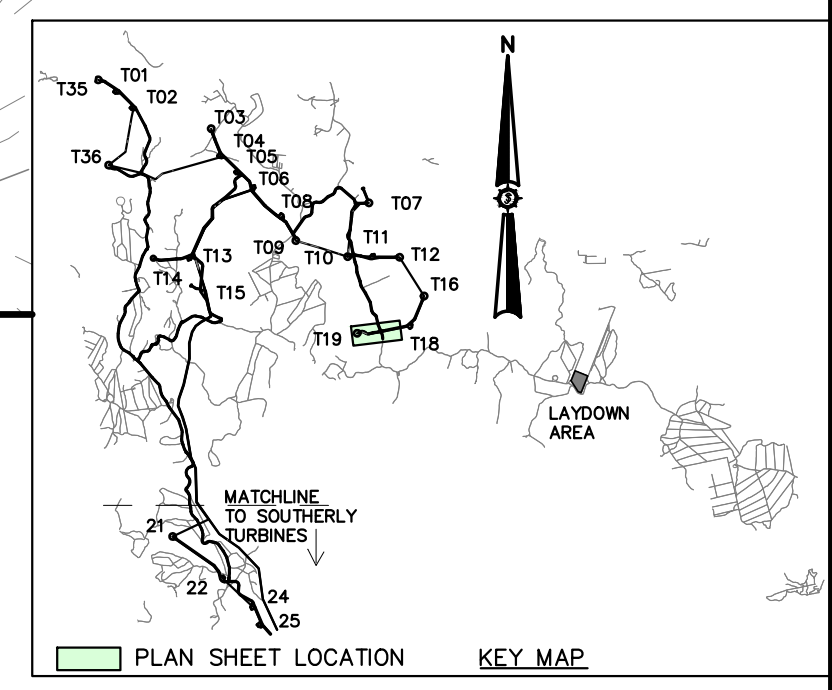
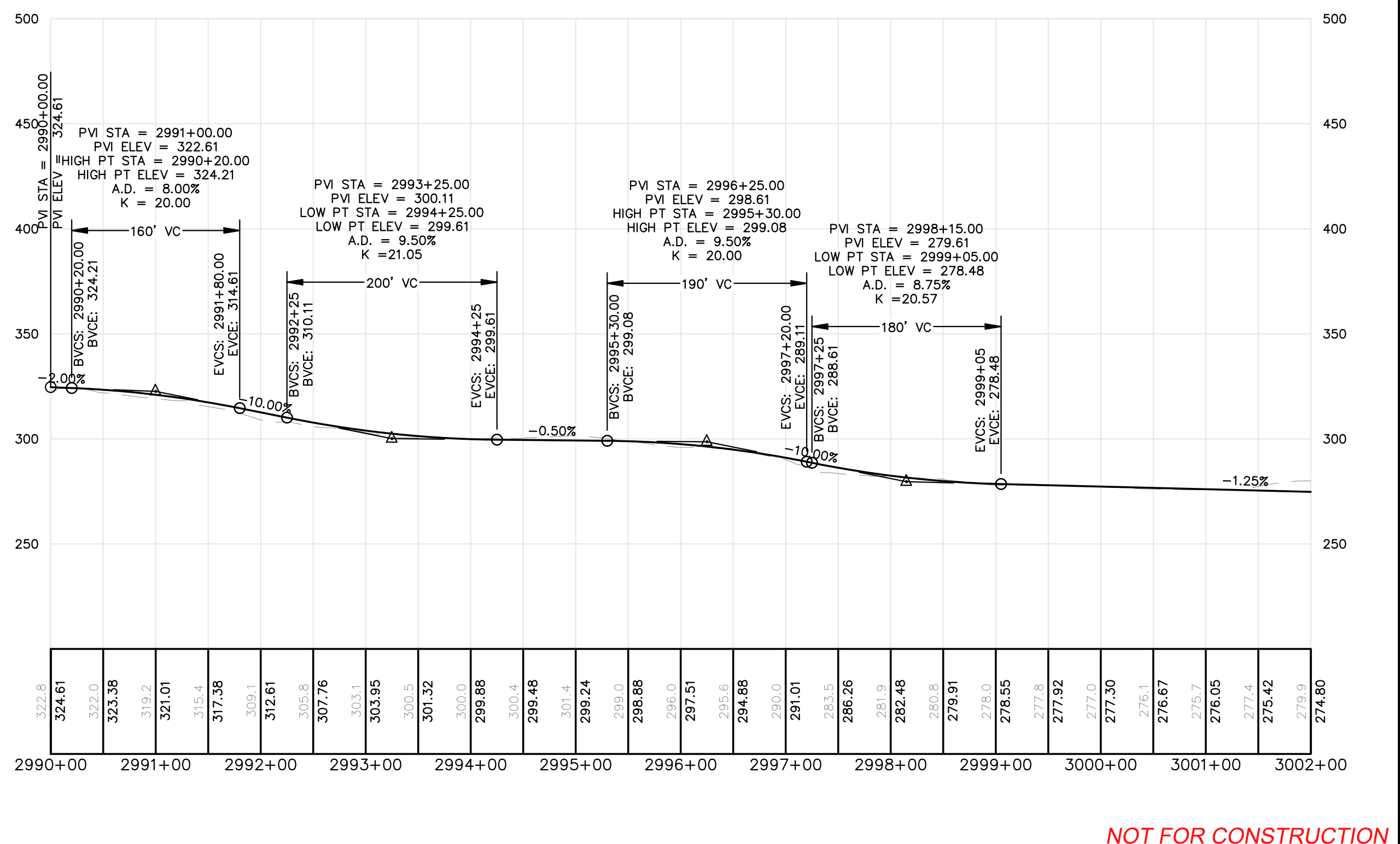
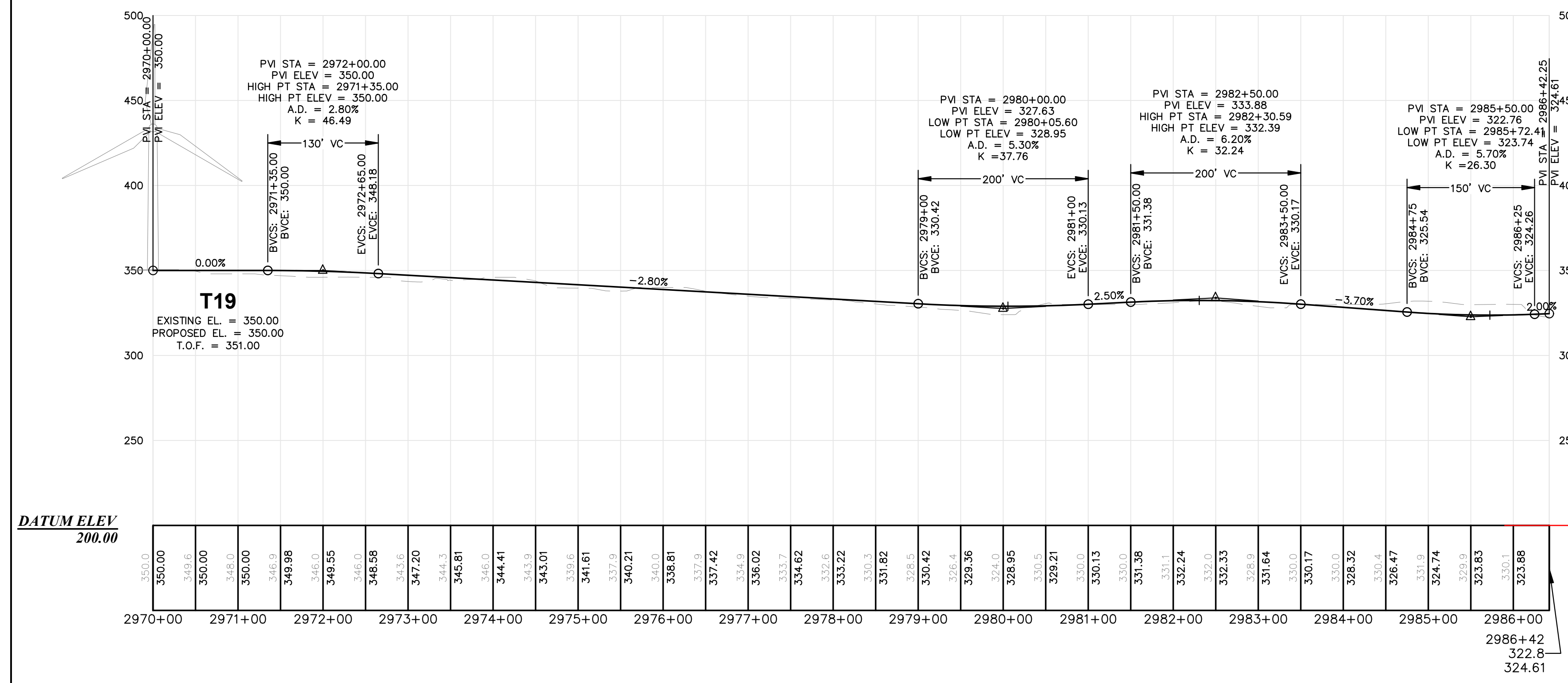


**CRANE PATH 2970+00**  
2970+00.00 - 2986+42.25

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'

**CRANE PATH 2990+00**  
2990+00.00 - 3002+00.00

HORIZONTAL: 1"=100'  
VERTICAL: 1"=50'

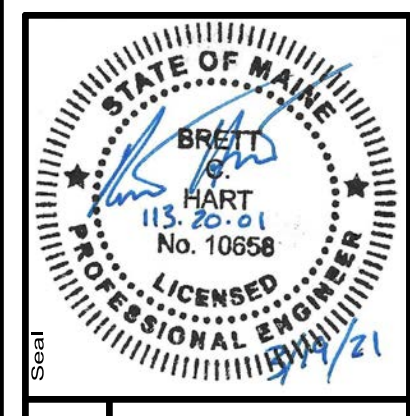


Drawn By	MITFB
Checked By	JSM
Approved By	BCH
Designated By	BCH
Date	03/19/2021
Scale	

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
310 4th ST N.E., SUITE 200  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawing Description: **PLAN AND PROFILE**



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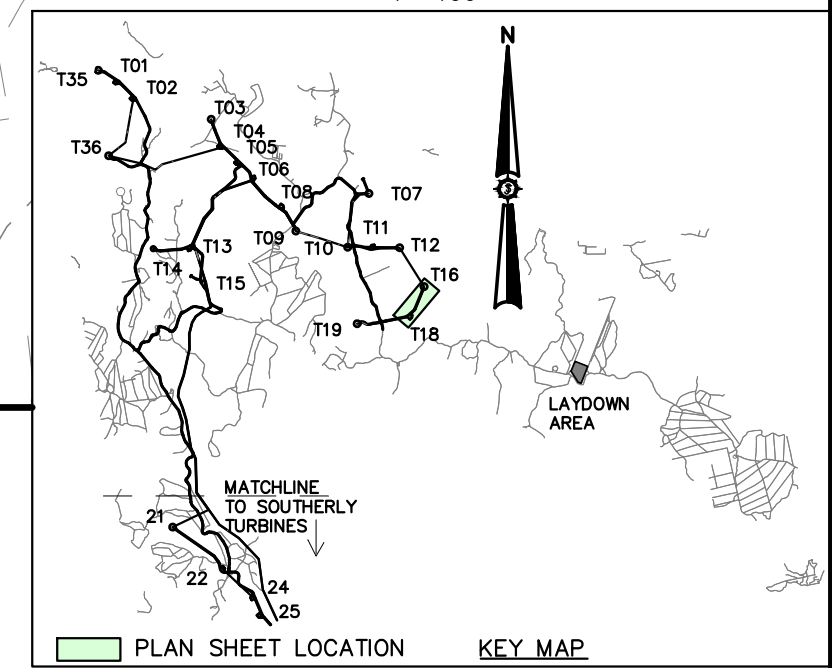
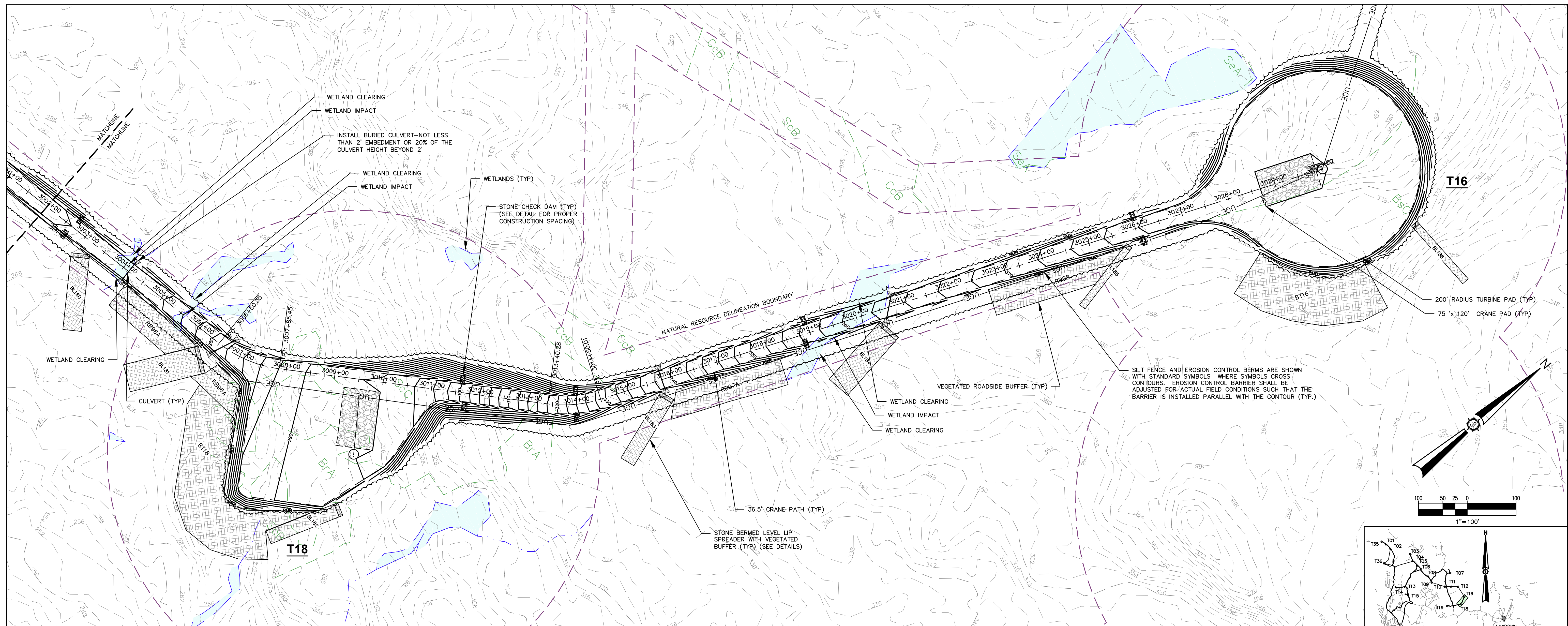
1 800 648 4202

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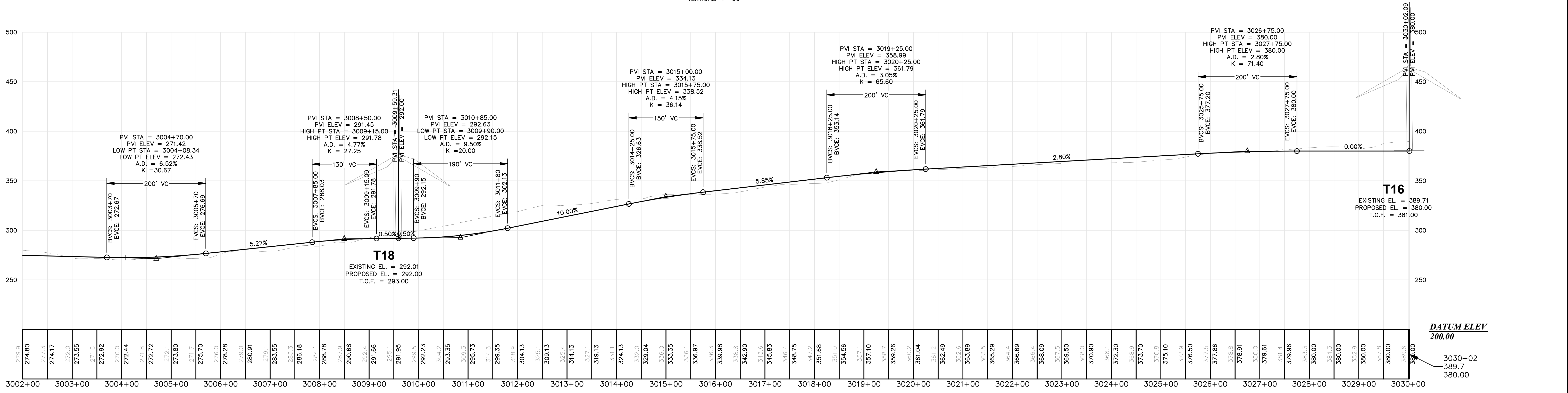
Sheet No. **27.1**

NOT FOR CONSTRUCTION





**CRANE PATH 2990+00**  
 3002+00.00 - 3030+02.09  
 HORIZONTAL: 1"=100'  
 VERTICAL: 1"=50'



DATUM ELEV  
200.00

T16  
 EXISTING EL = 369.71  
 PROPOSED EL = 380.00  
 T.O.F. = 381.00

3030+02  
 3030.7  
 380.00

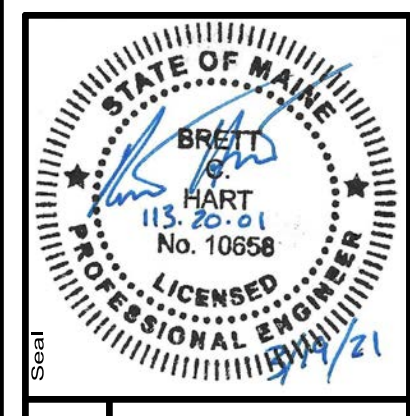
NOT FOR CONSTRUCTION

Drawn By	MTEB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location  
COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawing Description  
PLAN AND PROFILE



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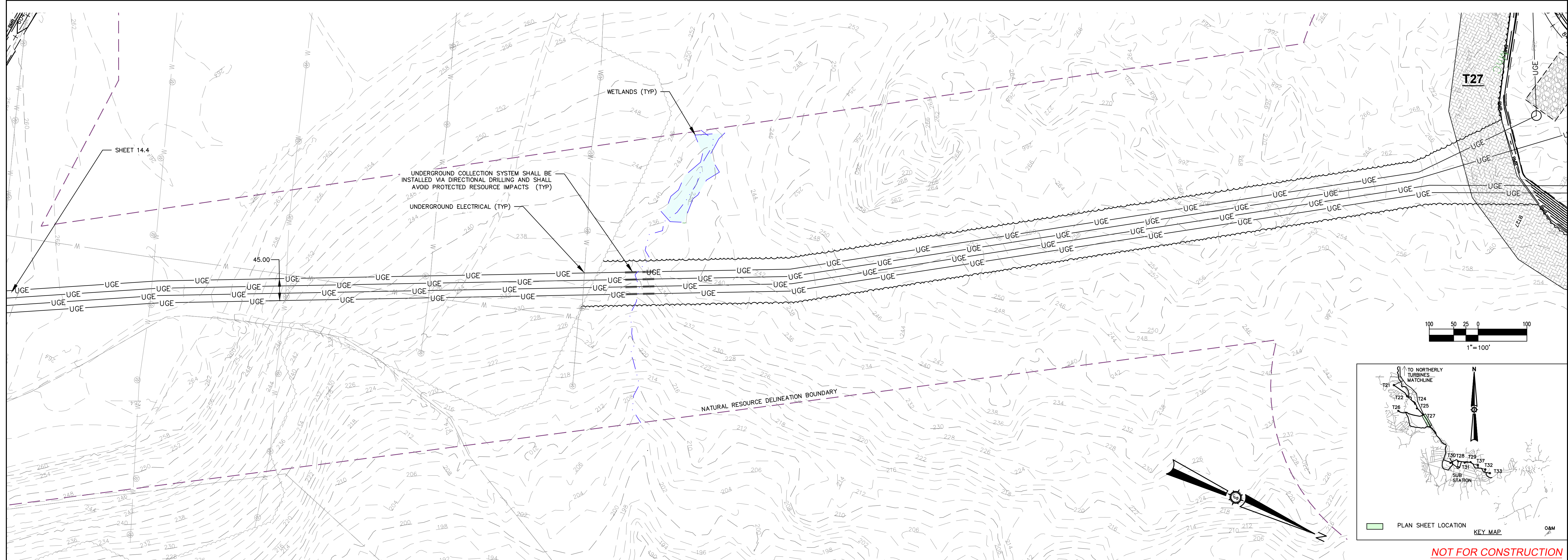
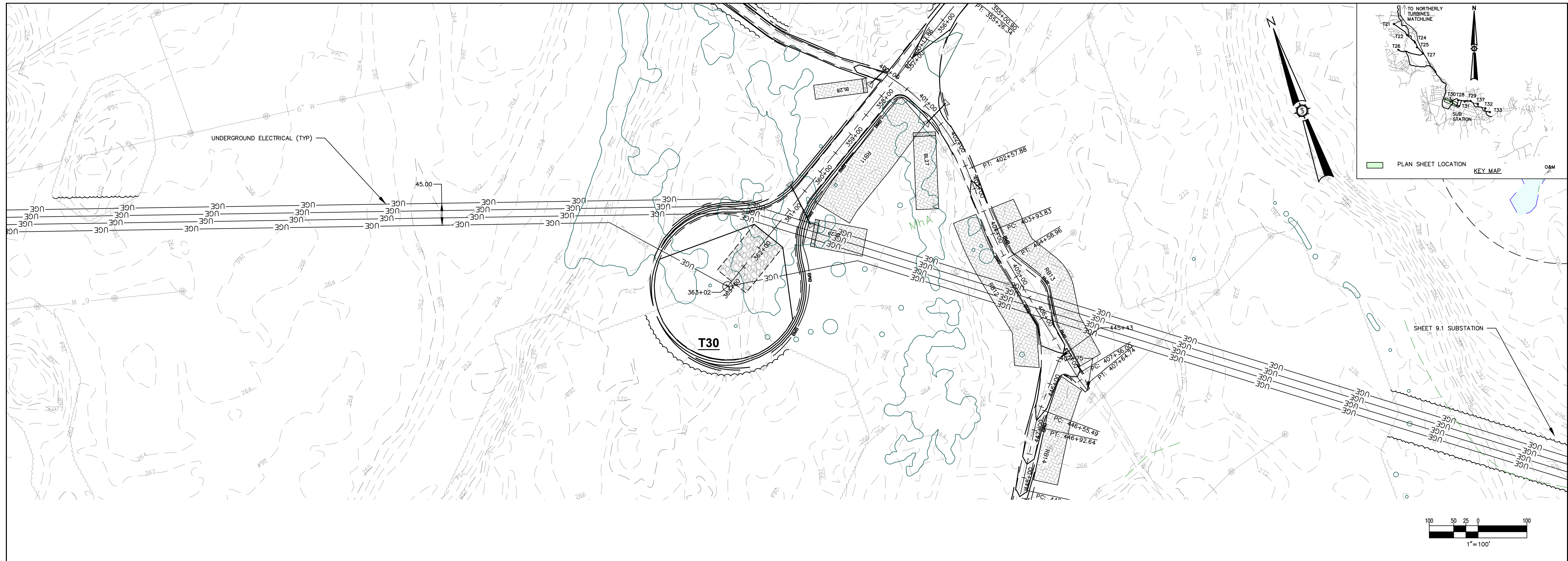
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27.2

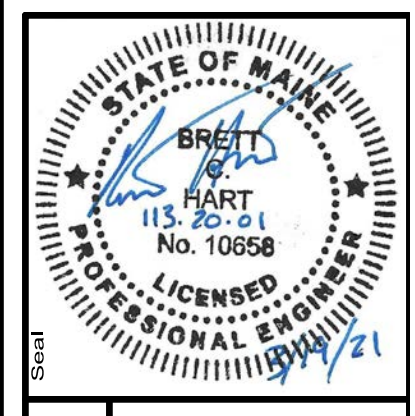




Drawn By	MITFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Approved	BCH
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	ELECTRICAL

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 Drawing Description: ELECTRICAL



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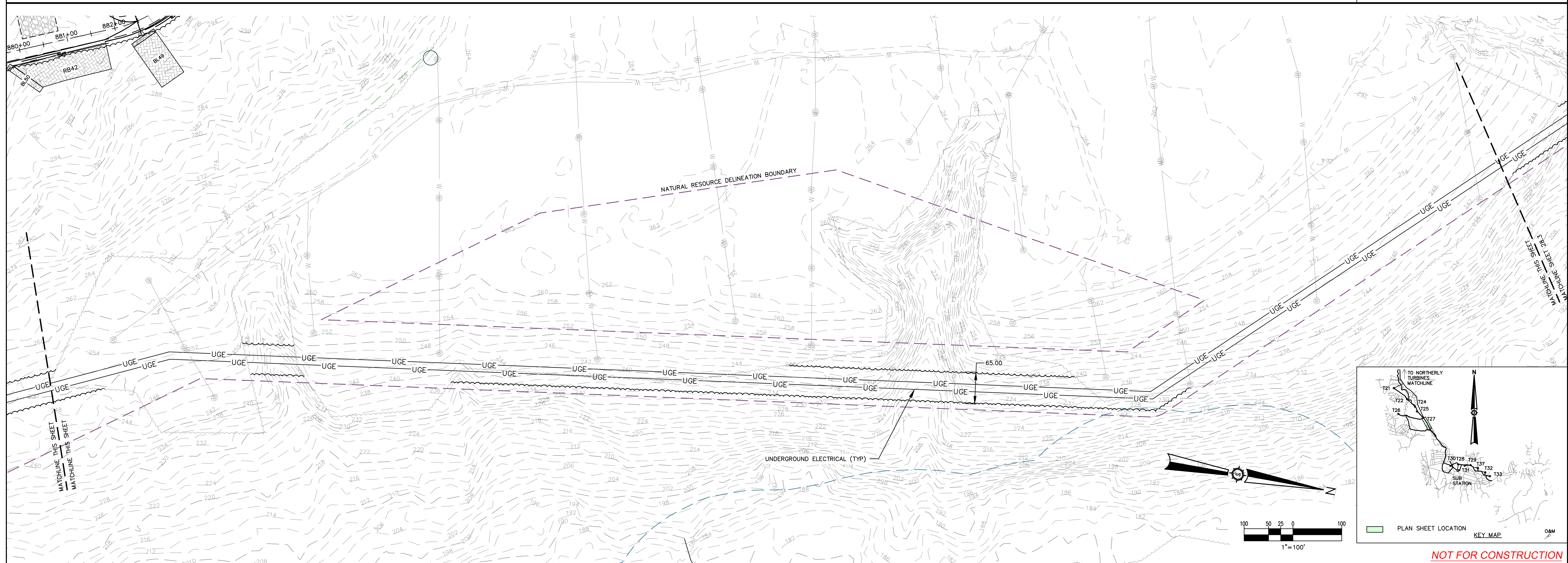
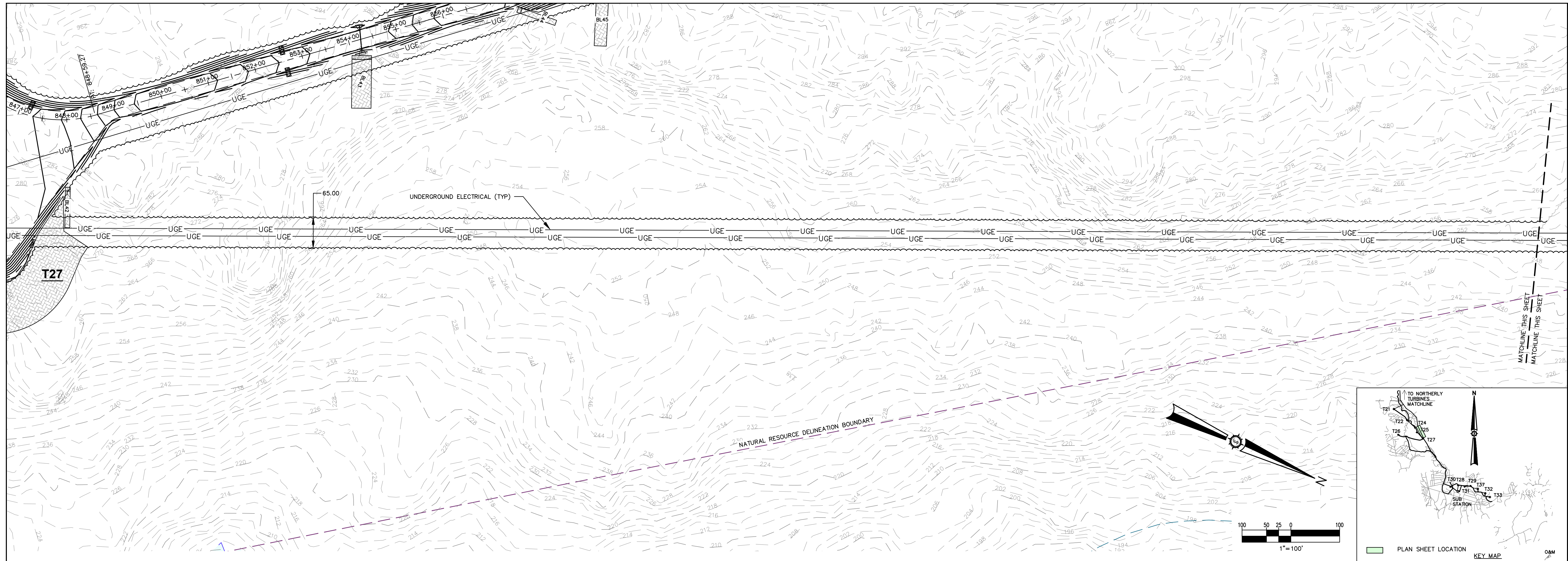
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Phase: PERMIT

Sheet No.: 28.1

NOT FOR CONSTRUCTION



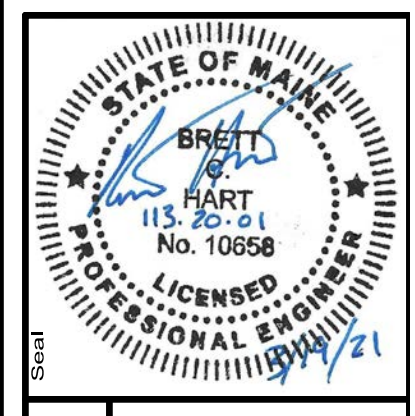


Drawn By	MITFB
Checked By	JSM
Approved By	BCH
Scale	AS SHOWN
Date	03/19/2021

**APEx CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Drawing Description: ELECTRICAL



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ENGINEERING SURVEYING

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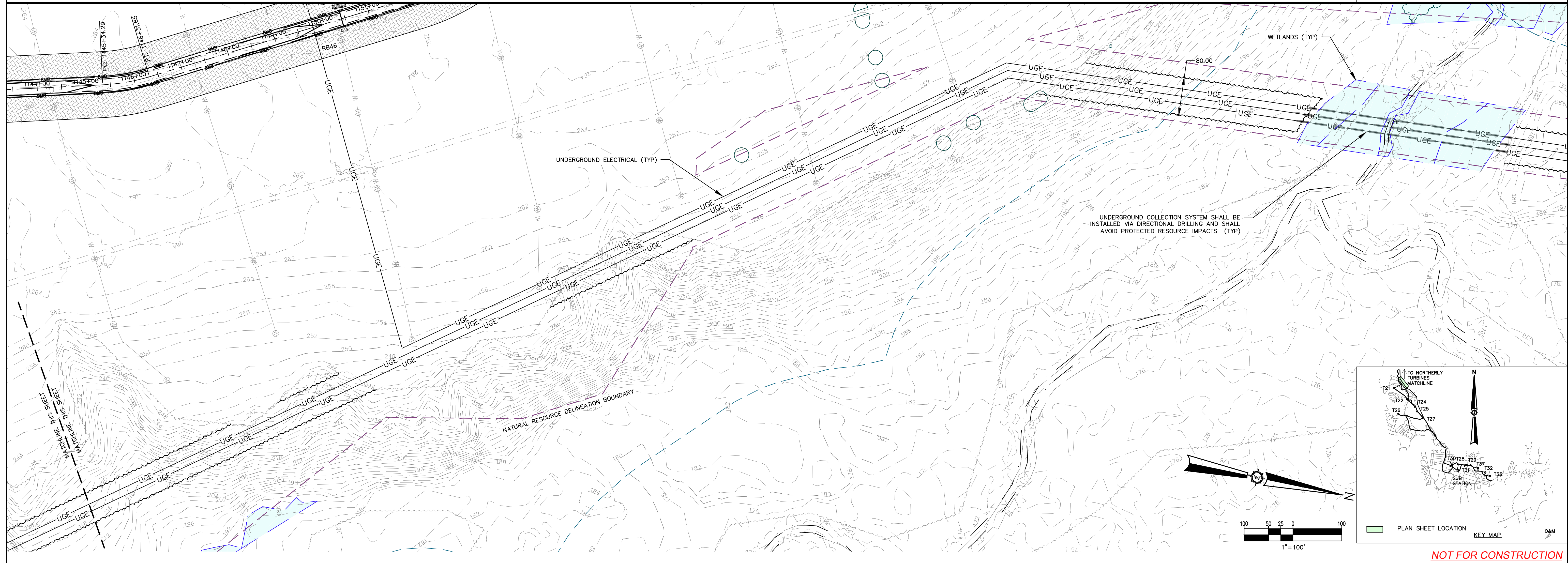
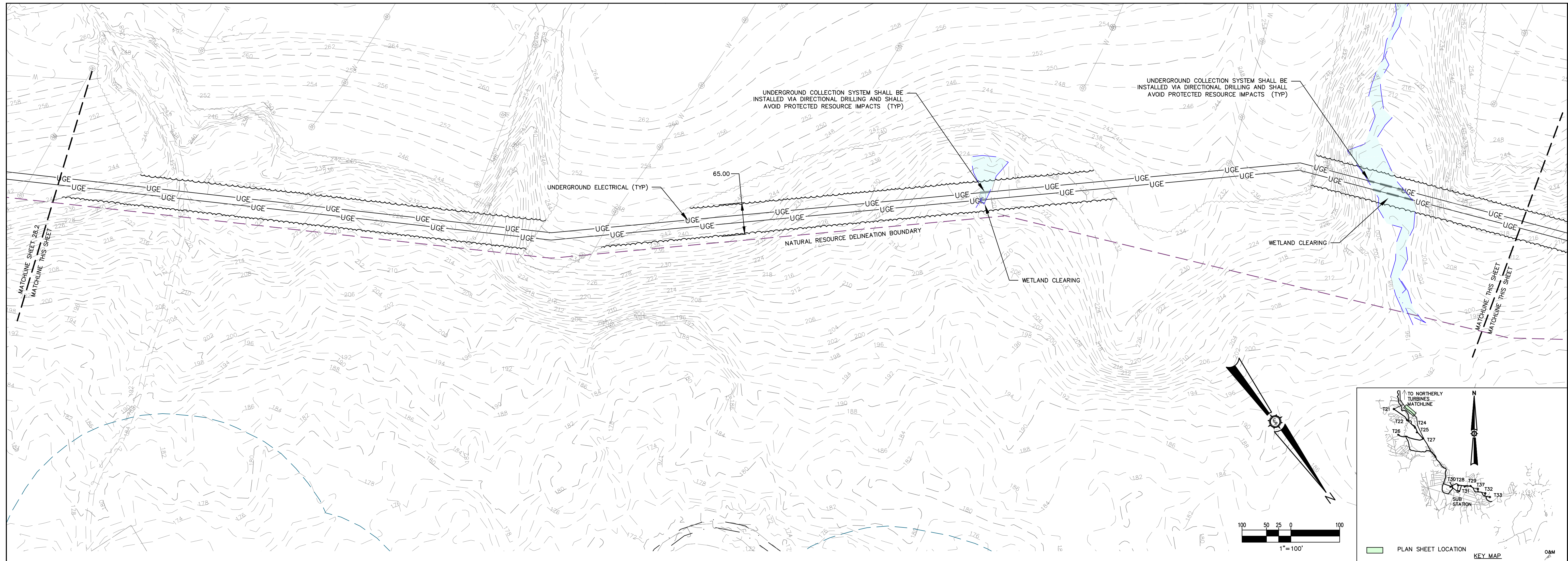
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Phase: PERMIT

Sheet No.: 28.2

NOT FOR CONSTRUCTION

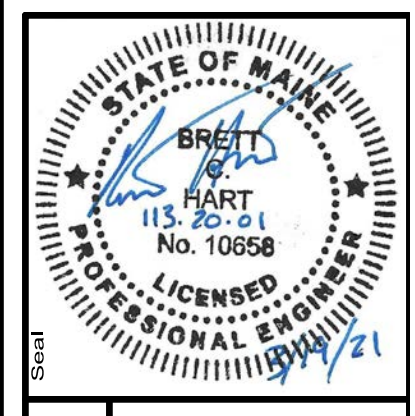




Drawn By	MIFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	ELECTRICAL

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location: COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 Drawing Description: ELECTRICAL



113.20.01

ENGINEERING SURVEYING

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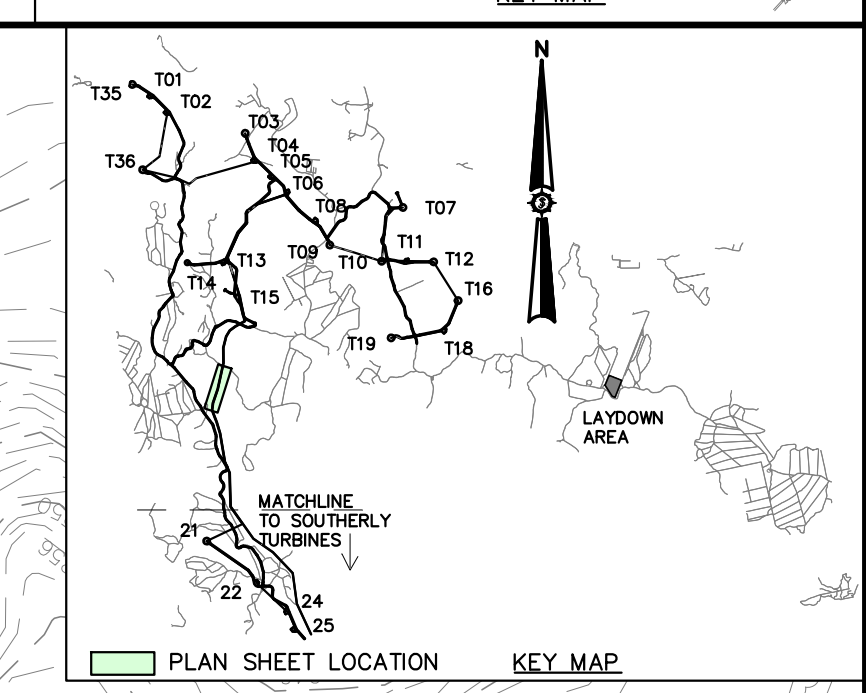
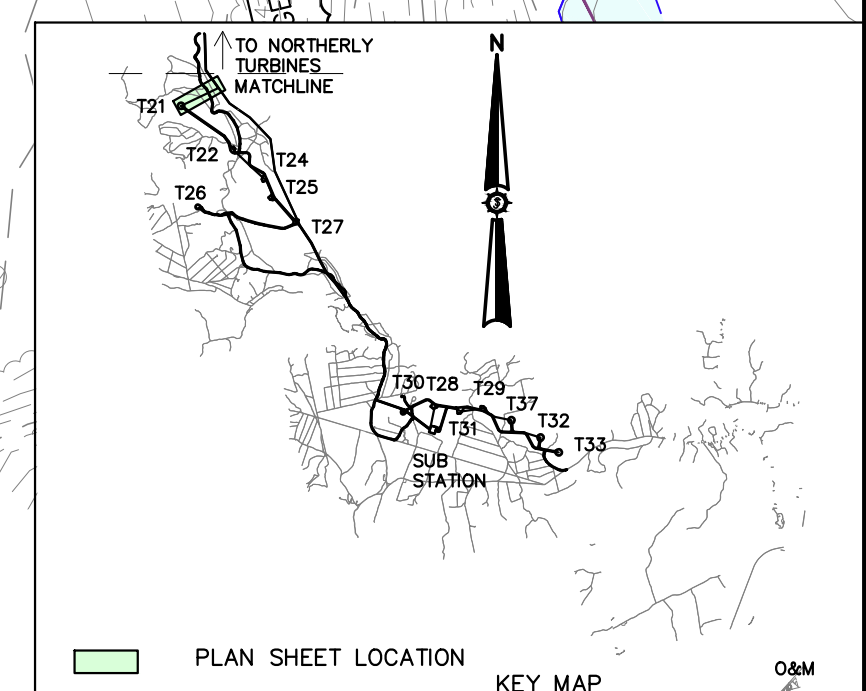
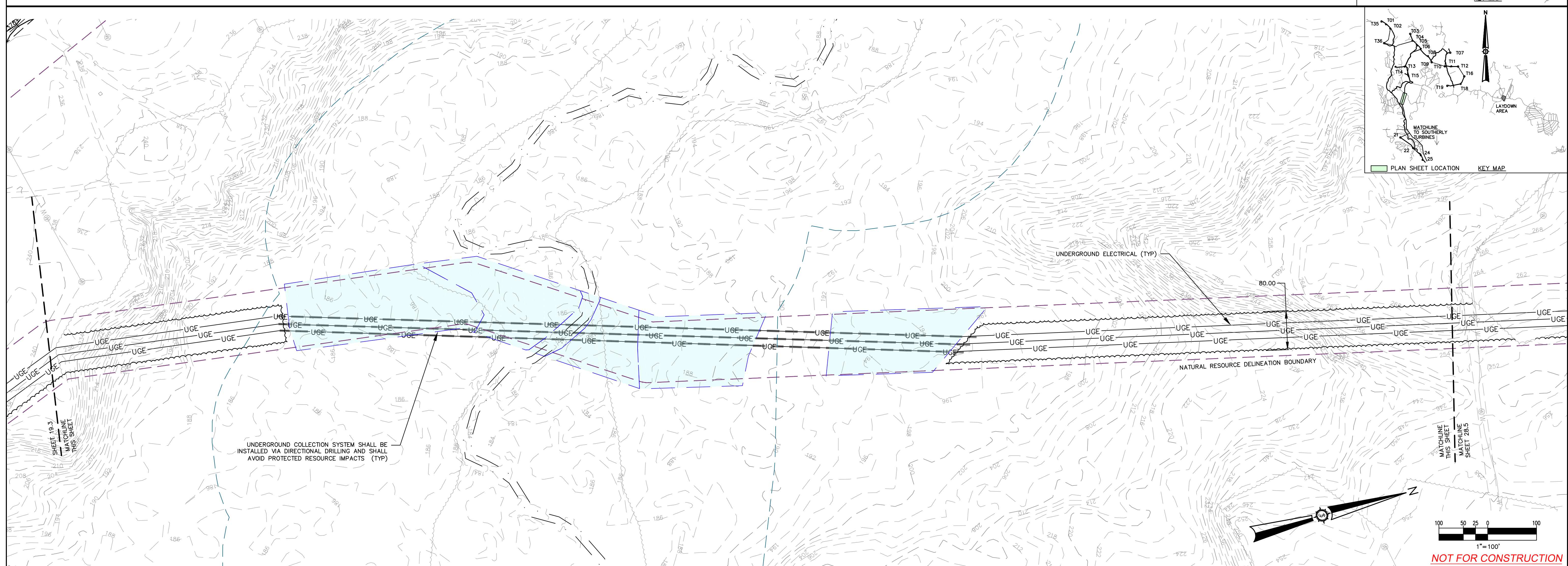
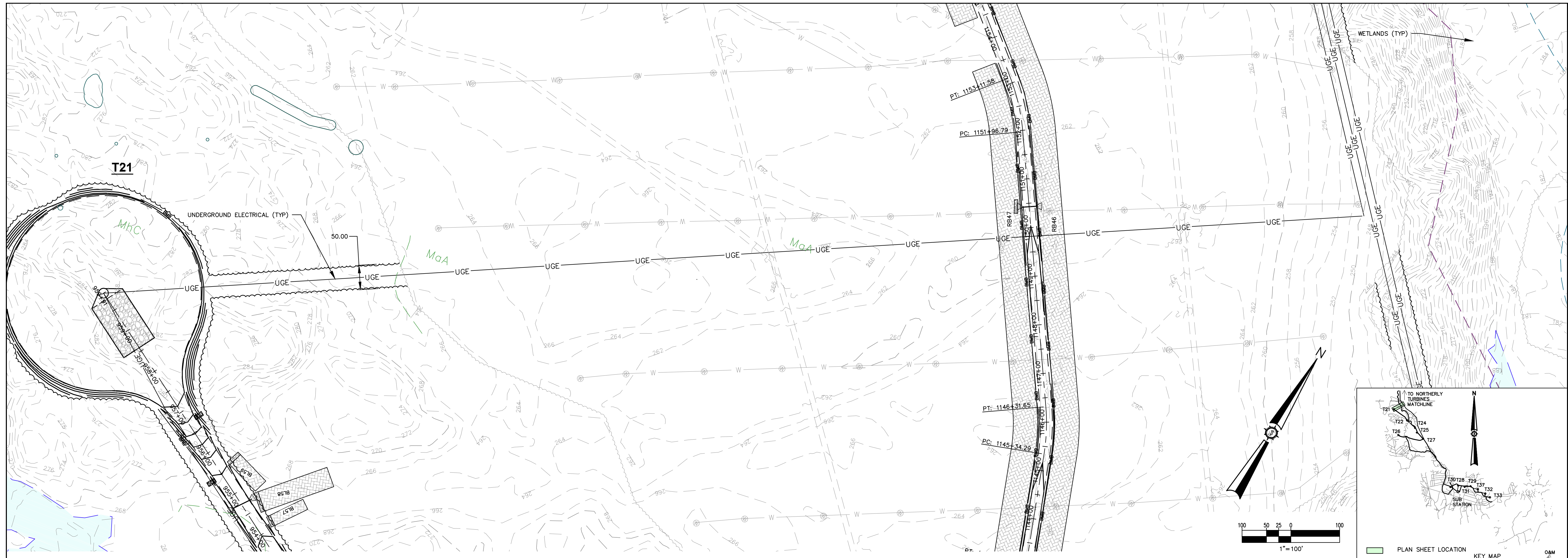
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Phase: PERMIT

Sheet No.: 28.3

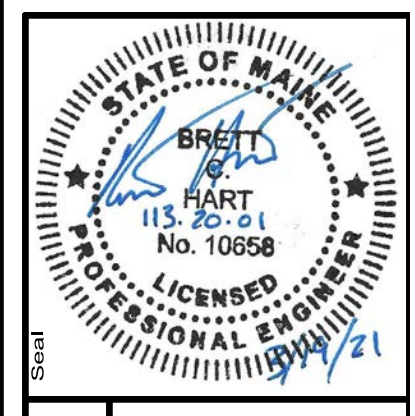
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Rev. #	Date	Drawn By	Description

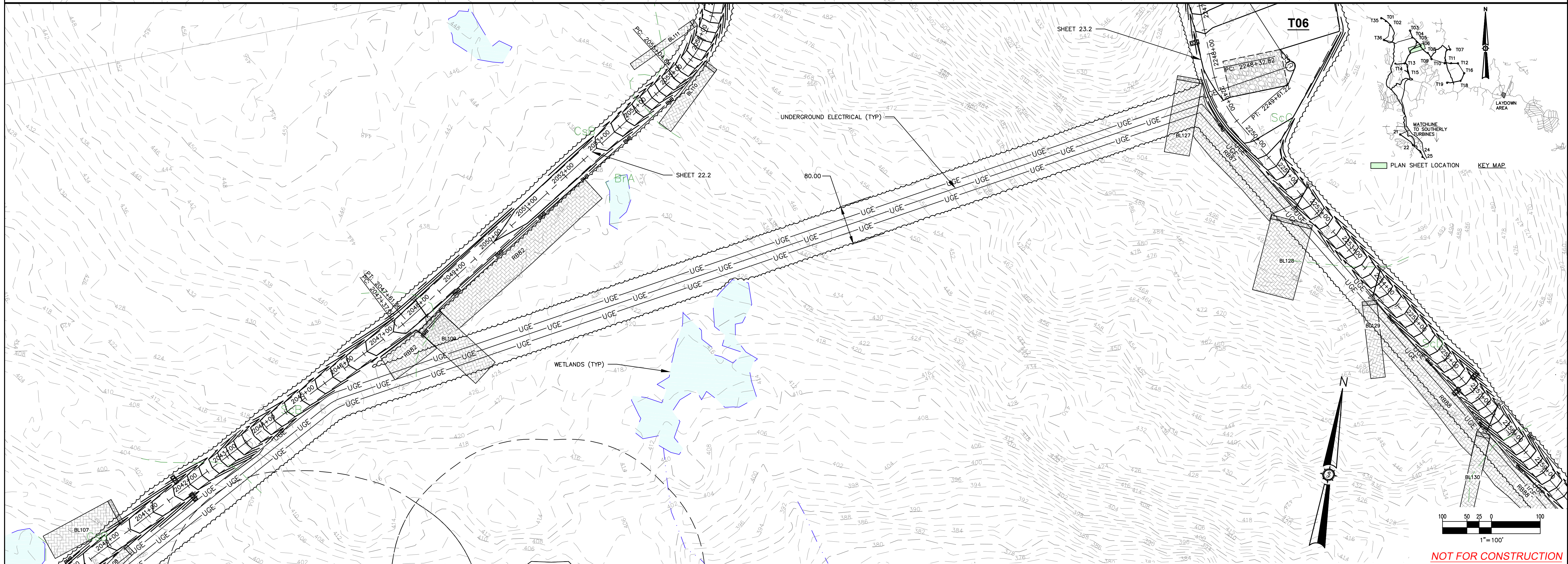
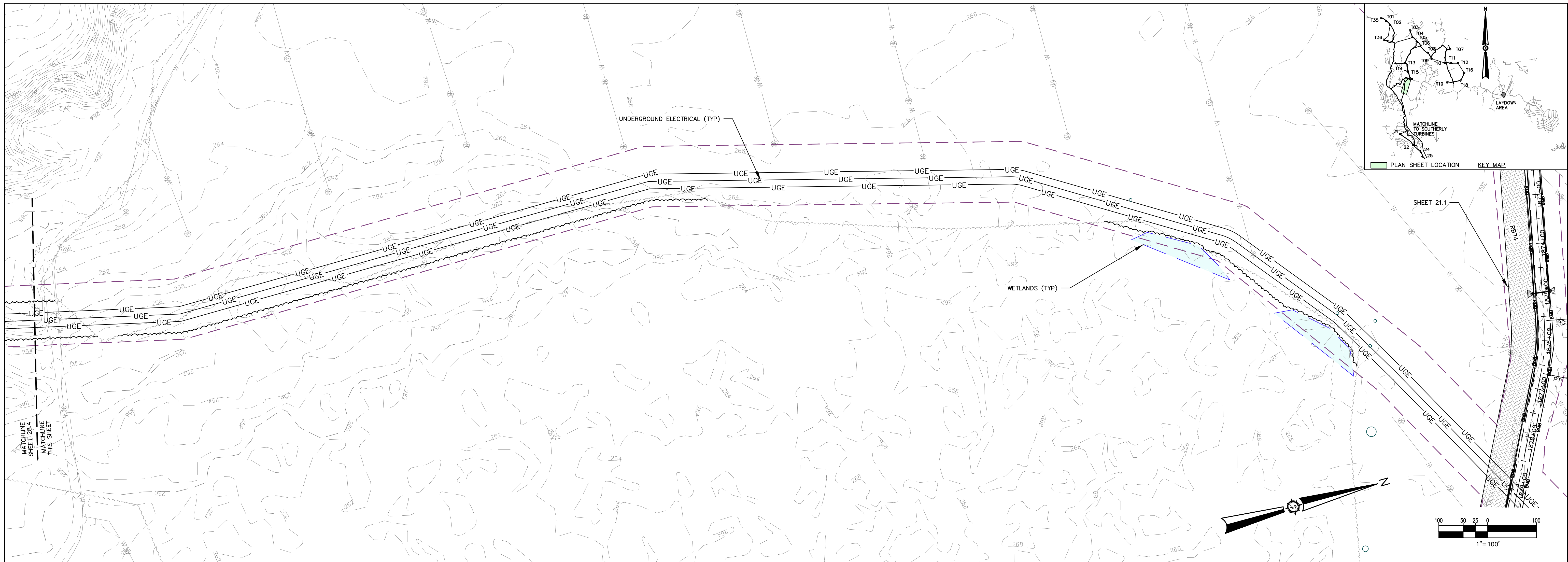
**APEx CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 Project Location  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 310 4th ST N.E., SUITE 200  
 CHARLOTTEVILLE, VA  
 Scale  
 03/19/2021  
 Drawn By  
 MITFB  
 Checked  
 JSM  
 Approved  
 BCH



Project No.  
 113.20.01  
 Phase  
**PERMIT**  
 Sheet No.  
**28.4**  
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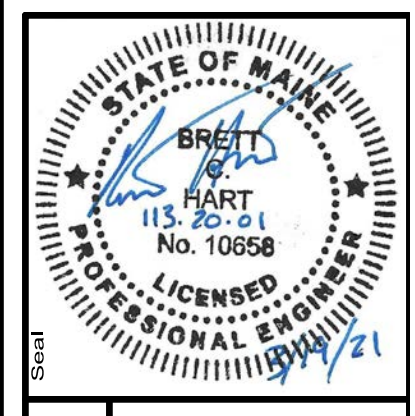
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Drawn By	MIFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Approved	BCH
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	ELECTRICAL

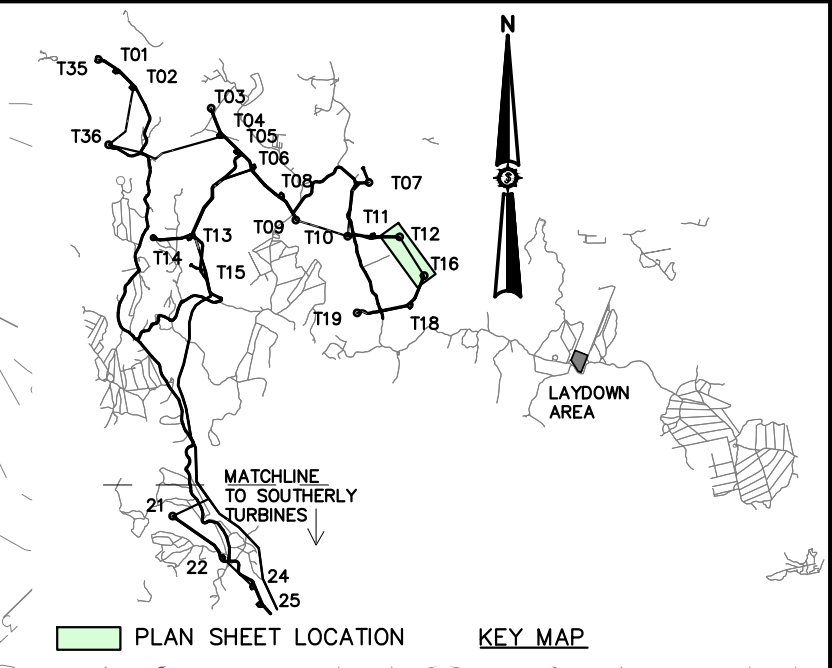
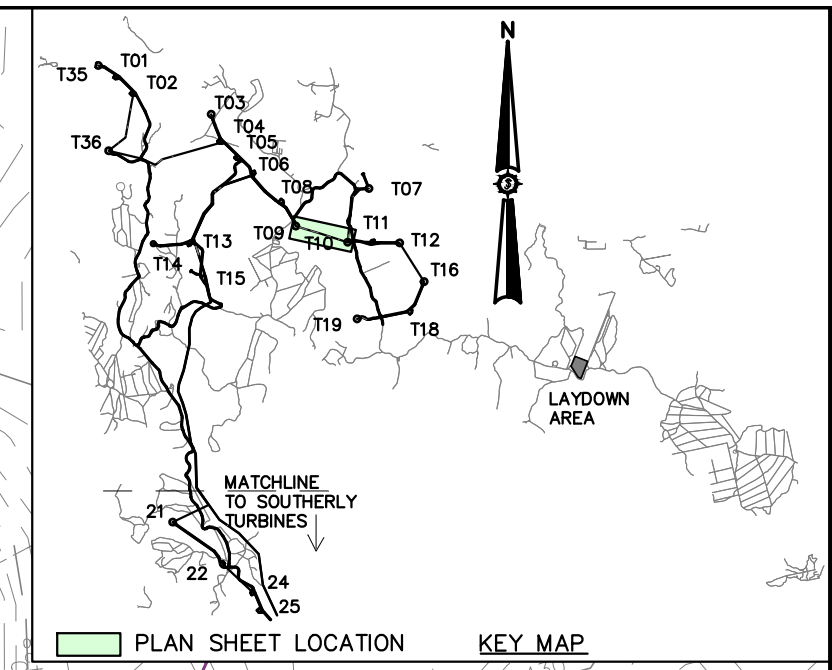
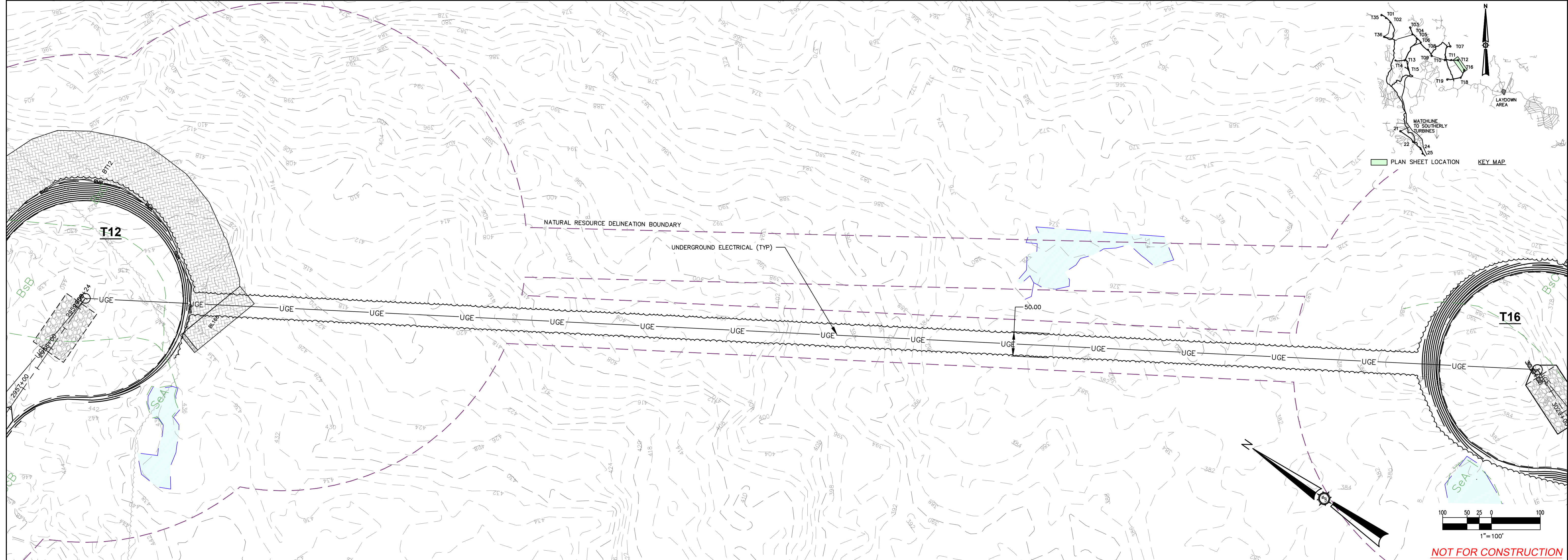
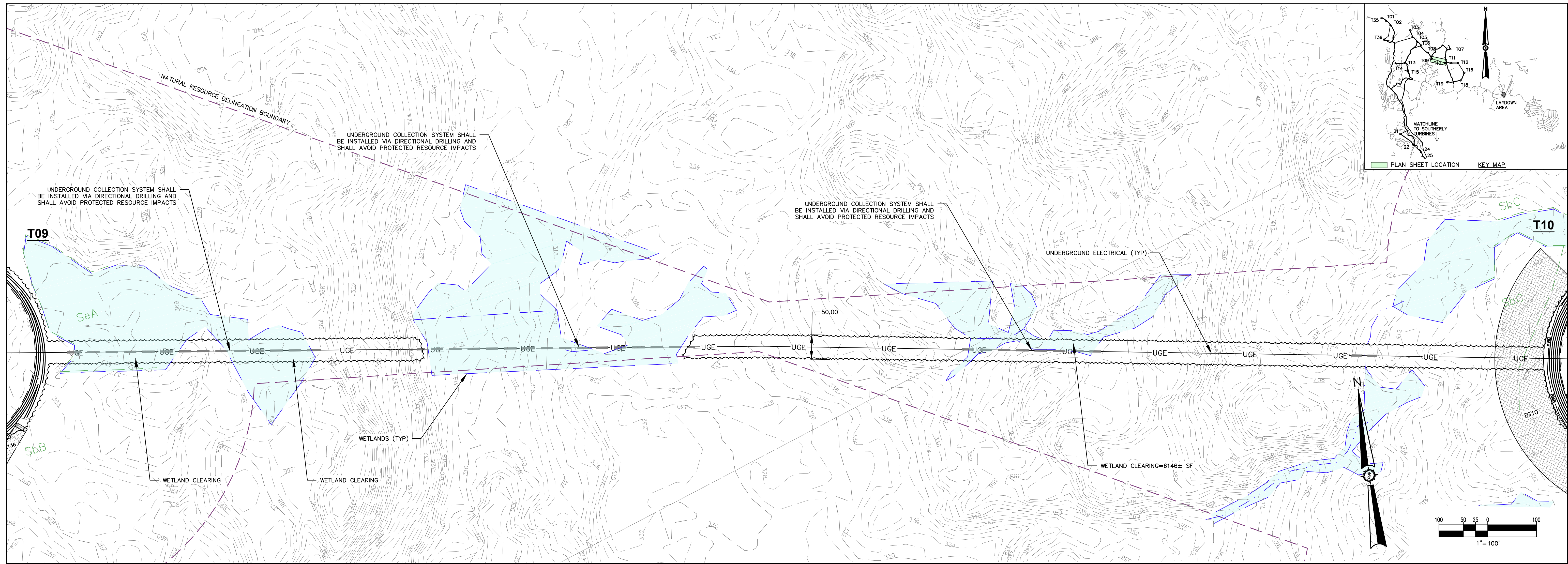
**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST N.E., SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE



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Phase: **PERMIT**  
 Sheet No.: **28.5**





Date	
Drawn By	MTEB
Checked By	JSM
Approved By	BCH
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Scale	1"=100'
Drawn By	MTEB
Checked By	JSM
Approved By	BCH

**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 310 4th ST 1st FL, SUITE 200  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Project Location  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE

Scale  
 1"=100'

Drawn By  
 MTEB

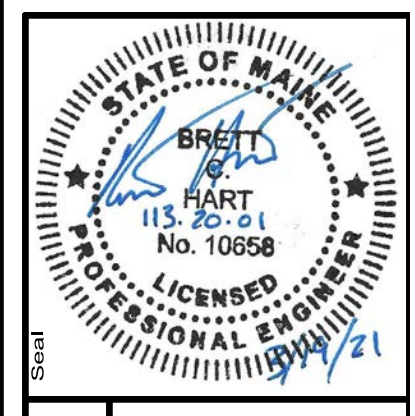
Checked By  
 JSM

Approved By  
 BCH

Project No.  
 113.20.01

Phase  
 PERMIT

Sheet No.  
 28.6



113.20.01

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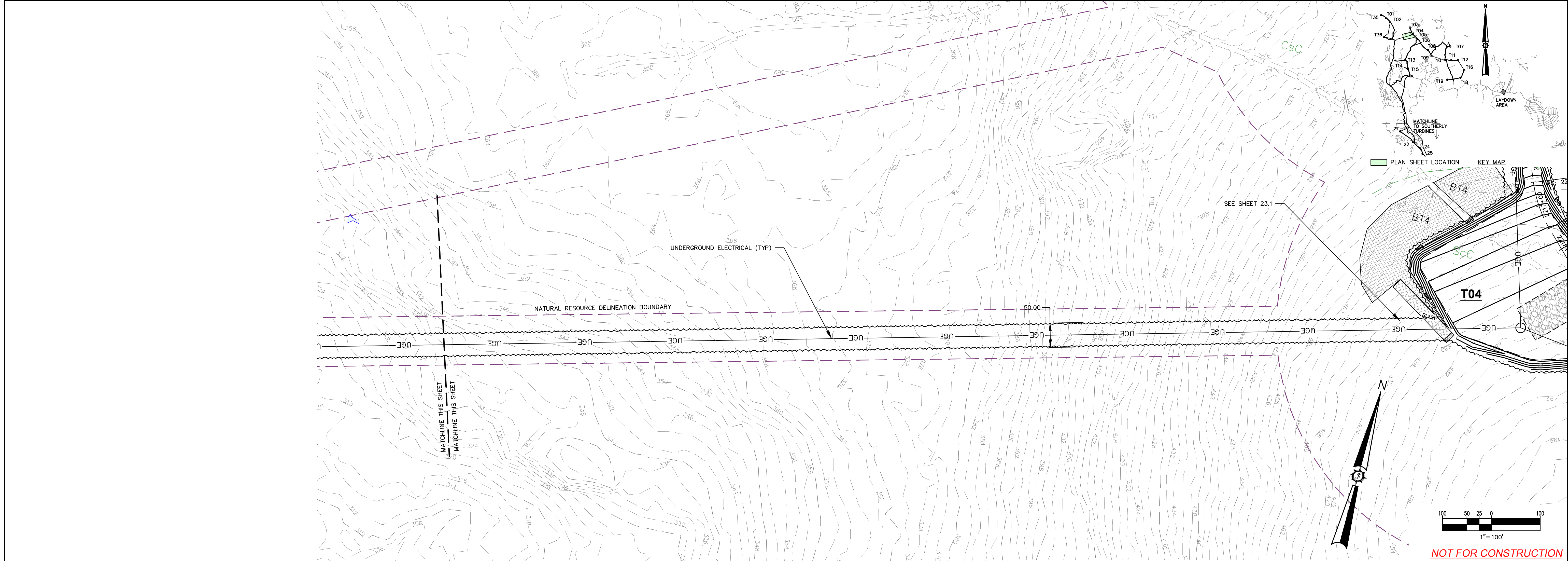
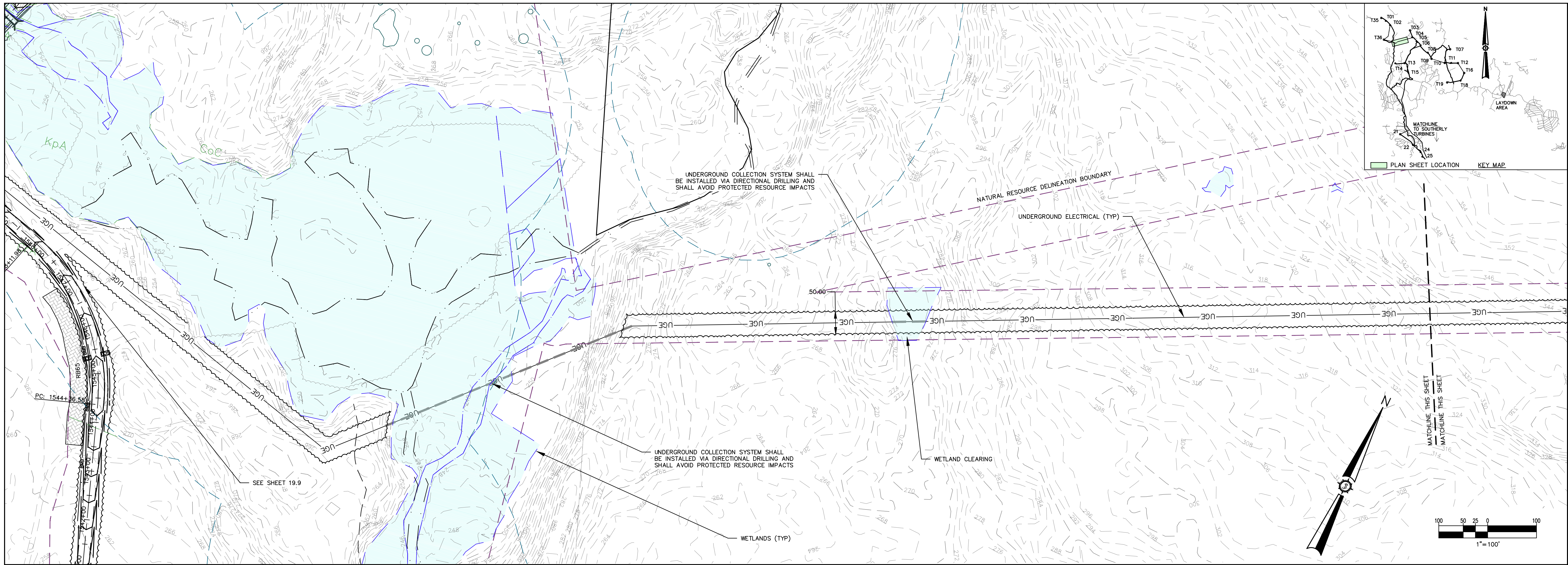
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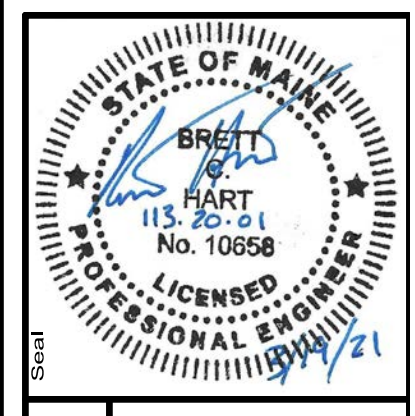
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Drawn By	MITFB
Checked By	JSM
Designated By	BCH
Date	03/19/2021
Scale	
Approved	BCH
Project Location	COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE
Drawing Description	ELECTRICAL

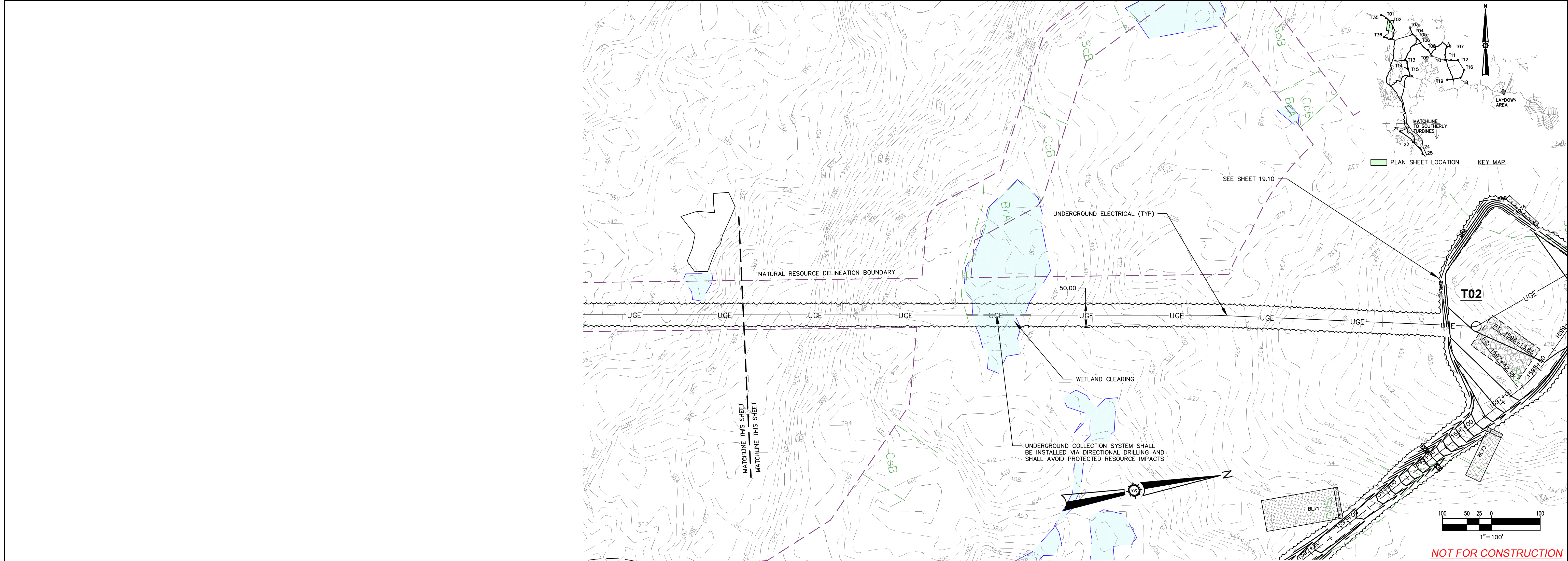
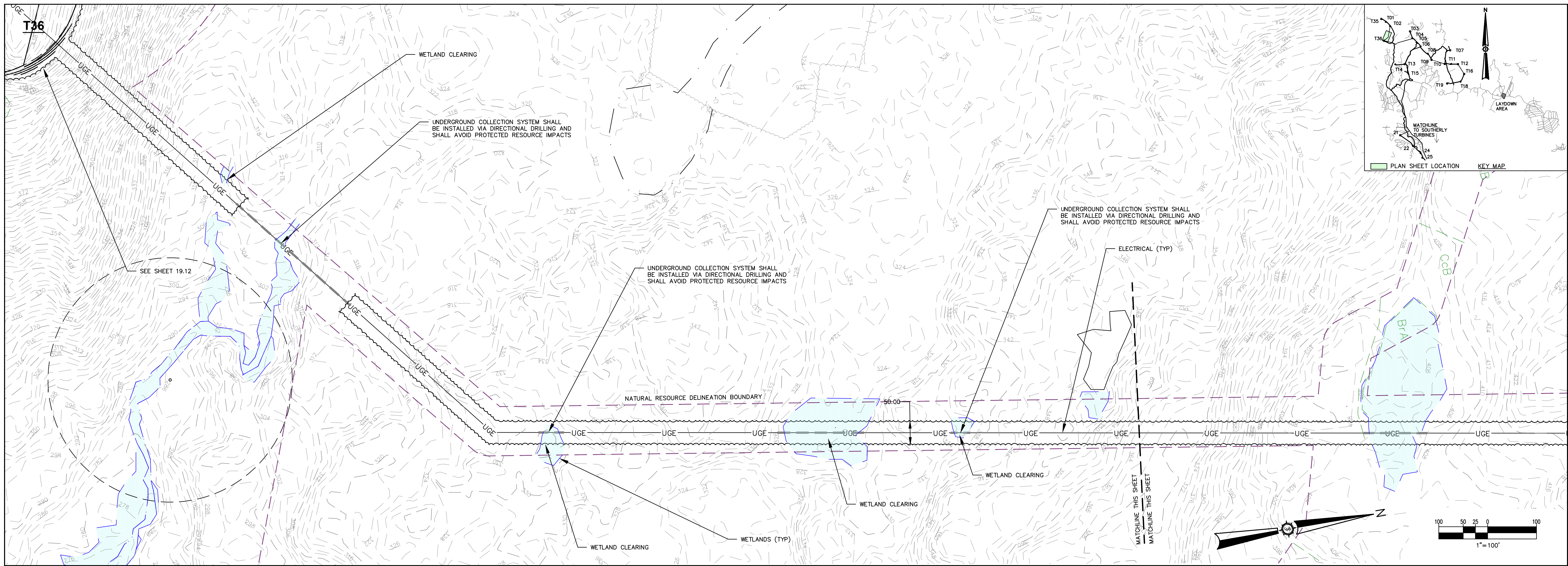
**APEX CLEAN ENERGY, INC.**  
**DOWNEAST WIND FARM**  
 Project Location  
 COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
 310 4th ST N.E., SUITE 200  
 CHARLOTTEVILLE, VA



Project No. 113.20.01  
 Phase PERMIT  
 Sheet No. 28.7

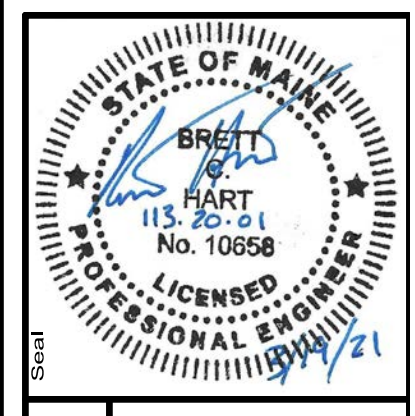
ENGINEERING SURVEYING  
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Rev. #	Drawn By	Description	Date

**Drawn By:** MITFB  
**Checked By:** JSM  
**Designed By:** BCH  
**Date:** 03/19/2021  
**Scale:**  
**Project Location:** COLUMBIA, T18 MD BPP, T19 MD BPP, T24 MD BPP, MAINE  
**Drawing Description:** ELECTRICAL



**Project No.:** 113.20.01  
**Phase:** PERMIT  
**Engineer:** Sewal Engineering  
**www.sewal.com**  
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**Sheet No.:** 28.8

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