

WESTERN MAINE RENEWABLE ENERGY PROJECT

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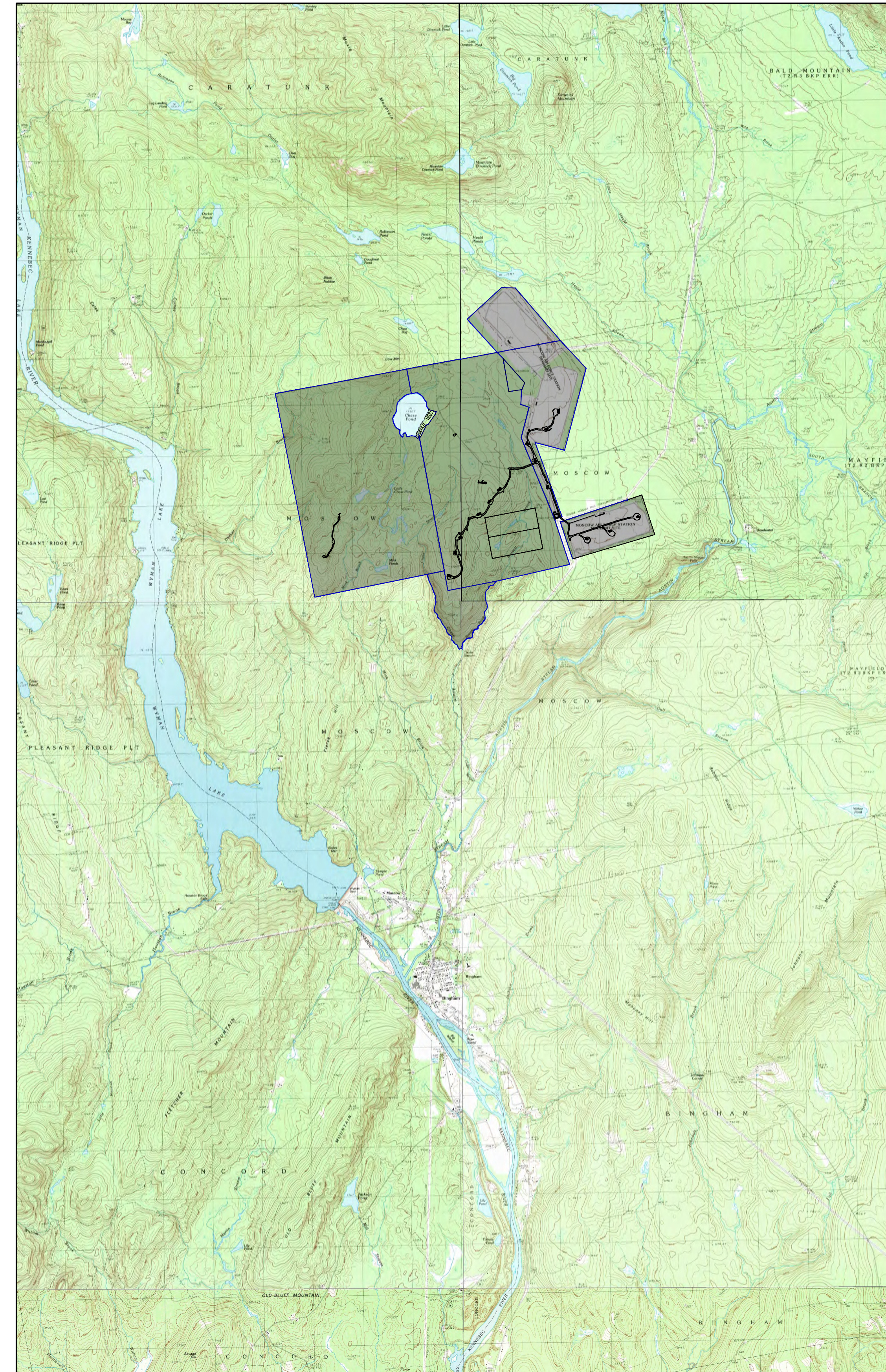
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PROJECT AREA

GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"x36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.
2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH, NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
3. ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NAD 83.
4. EXISTING TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION AS SHOWN HEREON IS THE RESULT OF AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC. DEVELOPED FROM AERIAL PHOTOGRAPHY COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC.
5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.
6. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date

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ENGINEERING & MANAGEMENT SERVICES, INC.
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SHEET INDEX / LEGEND
/PROJECT AREA MAP

Date:	05/25/2021	Scale:	AS SHOWN
Drawn By:	GAD	Checked By:	RSC
Project:	WESTERN MAINE RENEWABLE ENERGY PROJECT		
Address:	MOSCOW, ME		
Client:	WESTERN MAINE RENEWABLES		
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C-001

GENERAL CONSTRUCTION NOTES:

- AFTER A FINAL REVIEW, DWM COMMENTED THAT THE PROPOSED STORMWATER MANAGEMENT SYSTEMS ARE DESIGNED IN ACCORDANCE WITH THE CHAPTER 500 GENERAL STANDARD PROVIDED THAT THE DESIGN ENGINEER OR A THIRD-PARTY ENGINEER OVERSEES THE CONSTRUCTION OF THE STORMWATER MANAGEMENT STRUCTURES ACCORDING TO THE DETAILS AND NOTES SPECIFIED ON THE APPROVED PLANS.
- WITHIN 30 DAYS OF COMPLETION OF THE WHOLE SYSTEM OR AT LEAST ONCE PER YEAR, THE APPLICANT MUST SUBMIT A LOG OF INSPECTION REPORTS DETAILING THE ITEMS INSPECTED, PHOTOS AND THE DATES OF EACH INSPECTION TO THE BLWQ FOR REVIEW.
- CONSTRUCTION OVERSIGHT**
THE APPLICANT WILL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER TO INSPECT THE CONSTRUCTION AND STABILIZATION OF ALL STORMWATER MANAGEMENT STRUCTURES. IF NECESSARY, THE INSPECTING ENGINEER WILL INTERPRET THE POND'S CONSTRUCTION PLAN FOR THE CONTRACTOR. ONCE ALL STORMWATER MANAGEMENT STRUCTURES ARE CONSTRUCTED AND STABILIZED, THE INSPECTING ENGINEER WILL NOTIFY THE DEPARTMENT IN WRITING WITHIN 30 DAYS TO STATE THAT THE POND HAS BEEN COMPLETED. ACCOMPANYING THE ENGINEER'S NOTIFICATION MUST BE A LOG OF THE ENGINEER'S INSPECTIONS GIVING THE DATE OF EACH INSPECTION, THE TIME OF EACH INSPECTION, AND THE ITEMS INSPECTED ON EACH VISIT, AND INCLUDE ANY TESTING DATA OR SIEVE ANALYSIS DATA OF EVERY MINERAL SOIL AND SOIL MEDIA SPECIFIED IN THE PLANS AND USED ON SITE.
- UNDERDRAIN FILTER BASINS**
CONSTRUCTION SEQUENCE: 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 DRAINAGE AREA IS DIVERTED AROUND THE FILTER UNTIL STABILIZATION IS COMPLETED. COMPACTION OF SOIL FILTER: 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 2 LIFTS OF 9 INCHES TO PREVENT POCKETS OF LOOSE MEDIA.
CONSTRUCTION OVERSIGHT: INSPECTION BY A PROFESSIONAL ENGINEER WILL OCCUR AT A MINIMUM:
AFTER THE PRELIMINARY CONSTRUCTION OF THE FILTER GRADES AND ONCE THE UNDERDRAIN PIPES ARE INSTALLED BUT NOT BACKFILLED,
AFTER THE DRAINAGE LAYER IS CONSTRUCTED AND PRIOR TO THE INSTALLATION OF THE FILTER MEDIA,
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%.
AFTER ONE YEAR TO INSPECT HEALTH OF THE VEGETATION AND MAKE CORRECTIONS, AND
ALL THE 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 ARE PASSING DEP SPECIFICATIONS.
- TESTING AND SUBMITTALS:** THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE 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:
 - 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.
 - PERFORM A SIEVE ANALYSIS CONFORMING TO STM 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.
 - 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.
- LOT GRADING AND DRIVEWAY LOCATION**
INSPECTIONS A PROFESSIONAL ENGINEER WILL CONSIST OF A VISIT TO THE SITE PRIOR TO CONSTRUCTION TO CONSULT WITH THE EARTHWORK CONTRACTOR AND A POST CONSTRUCTION MEETING TO CONFIRM GRADING ON LOTS AND FOR ALL DRIVEWAYS TO ENSURE RUNOFF IS DIRECTED ACCORDING TO PLANS AND TO OVERSEE THE RE-STABILIZATION OF THE LOT INTO A VEGETATED COVER.
- BUFFERS - GENERAL**
GENERAL FOREST USE MEANS THAT THE LAND MUST BE MAINTAINED WITH A FOREST COVER AND UNDISTURBED SOIL, DUFF LAYER GROUND COVER VEGETATION, AND UNDERSTORY VEGETATION. TIMBER MAY BE HARVESTED ON A SELECTIVE BASIS PROVIDED THAT NO MORE THAN 40% OF THE VOLUME IS HARVESTED WITHIN ANY 10 YEAR PERIOD.
- STONE BERMED LEVEL LIP SPREADER**
INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT EACH LEVEL SPREADERS CONSTRUCTION, STONE BERM MATERIAL AND PLACEMENT, SETTLING BASIN FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE LEVEL SPREADER.
- ROAD DITCH TURNOUTS**
INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT EACH TURNOUT CONSTRUCTION, TURNOUTS STONE BERM MATERIAL AND PLACEMENT, FROM INITIAL GROUND DISTURBANCE TO FINAL STABILIZATION OF THE LEVEL SPREADER.
- DEWATERING**
A DEWATERING PLAN TO BE PROVIDED AS NEEDED TO ADDRESS EXCAVATION DE-WATERING FOLLOWING HEAVY RAINFALL EVENTS OR WHERE THE EXCAVATION MAY INTERCEPT THE GROUNDWATER TABLE DURING CONSTRUCTION. THE COLLECTED WATER NEEDS TREATMENT AND A DISCHARGE POINT THAT WILL NOT CAUSE DOWNGRADE EROSION AND OFFSITE SEDIMENTATION OR WITHIN A RESOURCE. PLEASE FOLLOW THE DETAILS OF SUCH A PLAN.
- BASIC STANDARDS - EROSION CONTROL MEASURES**
MINIMUM EROSION CONTROL MEASURES WILL NEED TO BE IMPLEMENTED AND THE APPLICANT WILL BE RESPONSIBLE TO MAINTAIN ALL COMPONENTS OF THE EROSION CONTROL PLAN UNTIL THE SITE IS FULLY STABILIZED. HOWEVER, BASED ON SITE AND WEATHER CONDITIONS DURING CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY NEED TO BE IMPLEMENTED. ALL AREAS OF INSTABILITY AND EROSION MUST BE REPAIRED IMMEDIATELY DURING CONSTRUCTION AND NEED TO BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED OR VEGETATION IS ESTABLISHED. A CONSTRUCTION LOG MUST BE MAINTAINED FOR THE EROSION AND SEDIMENTATION CONTROL INSPECTIONS AND MAINTENANCE
- THE MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES AS PUBLISHED IN 1991 BY THE CUMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION HAS BEEN CHANGED TO THE "MAINE EROSION AND SEDIMENT CONTROL BMPS" PUBLISHED BY THE MAINE DEP IN 2003. ALL REFERENCES SHOULD BE CHANGED TO THE NEW MANUAL. [HTTP://WWW.MAINE.GOV/DEP/BLWQ/DOCSTAND/ESCBMPS/INDEX.HTM](http://www.maine.gov/dep/blwq/docstand/escbmps/index.htm)

LEGEND:

	EDGE OF PROPOSED ROAD AND PADS		PROPOSED STORMWATER TREATMENT BUFFER
	EDGE OF ROADS		PROPOSED 60 FT. X 115 FT. LEVEL CRANE PAD
	EXISTING GRADE CONTOUR MIN		WIND TURBINE FOUNDATION AND GRAVEL APRON
	EXISTING GRADE CONTOUR MAJOR		
	EXISTING BUILDING/STRUCTURE		
	EXISTING UTILITY POLE		
	WETLAND		
	VERNAL POOL		
	STREAM		
	PROPOSED CLEARING LIMIT		
	PROPOSED GRADE CONTOUR MIN		
	PROPOSED GRADE CONTOUR MAJOR		
	PROPOSED ROAD CENTERLINE		
	PROPOSED FENCE		
	PROPOSED BUILDING/STRUCTURE		
	PROPOSED EROSION CONTROL MIX BERM		
	PROPOSED CULVERT		
	REPLACEMENT CULVERT		
	PROPOSED LEVEL LIP SPREADER		
	PROPOSED DITCH TURNOUT		
	PROPOSED DIVERSION BERM		
	PROPOSED ROCK SANDWICH		
	PROPOSED ROCK MAKI		
	PROPOSED REVEGETATED AREA		
	TEMPORARY CONSTRUCTION MATTRESS		
	PROPOSED ELECTRICAL DUCT BANK		
	PROPOSED JUNCTION BOX		
	PROPOSED CONSTRUCTION CLEARING		
	PROPOSED OVERHEAD ELECTRICAL CLEARING		

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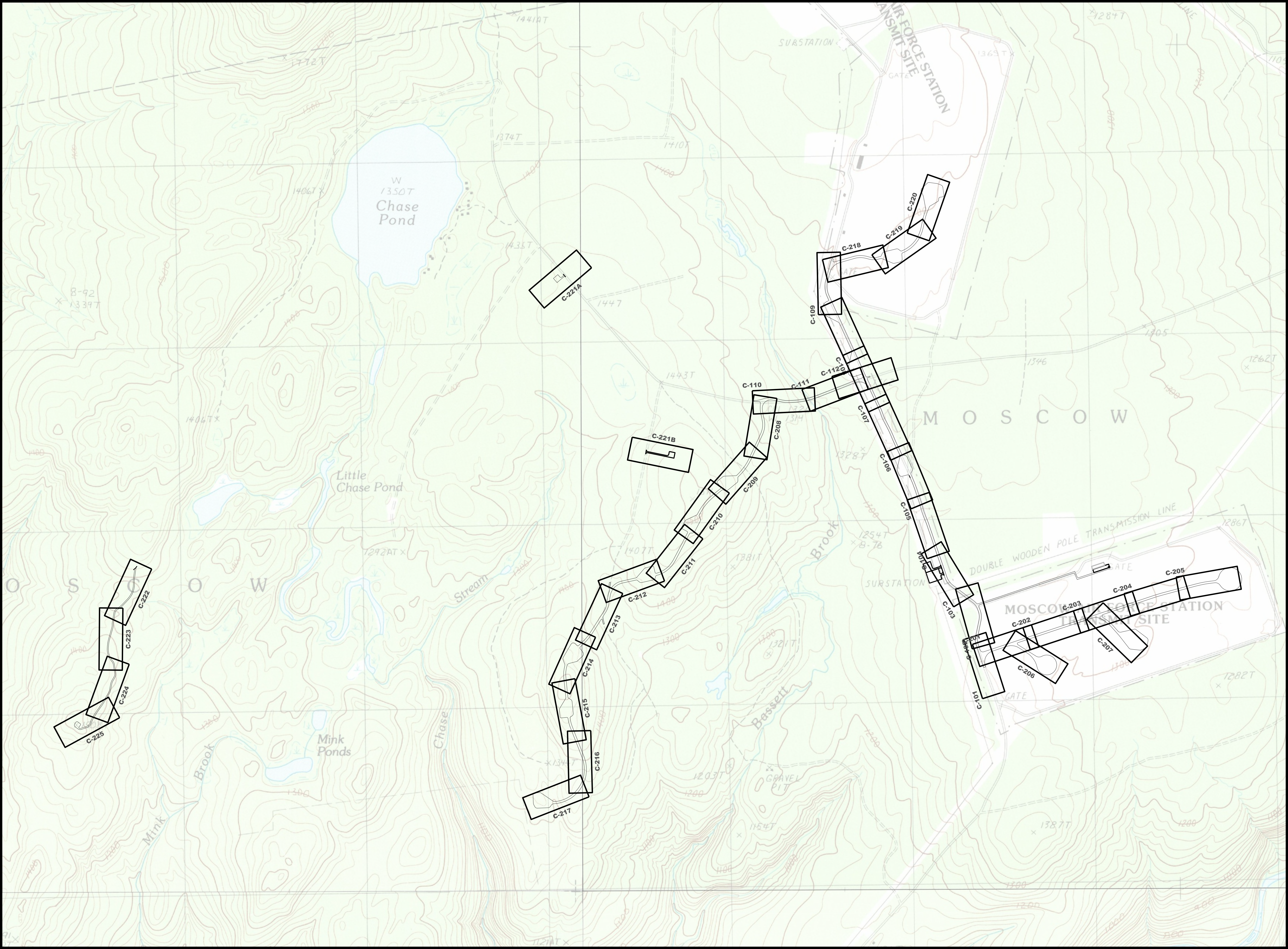
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GENERAL NOTES AND LEGEND

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Project:	WESTERN MAINE RENEWABLE ENERGY PROJECT		
Address:	MOSCOW, ME		
Client:	WESTERN MAINE RENEWABLES		
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6. PROPERTY LINES AS SHOWN HEREON ARE THE RESULT OF LINES SURVEYED BY KENNEBEC RIVER COMPANY, INC.
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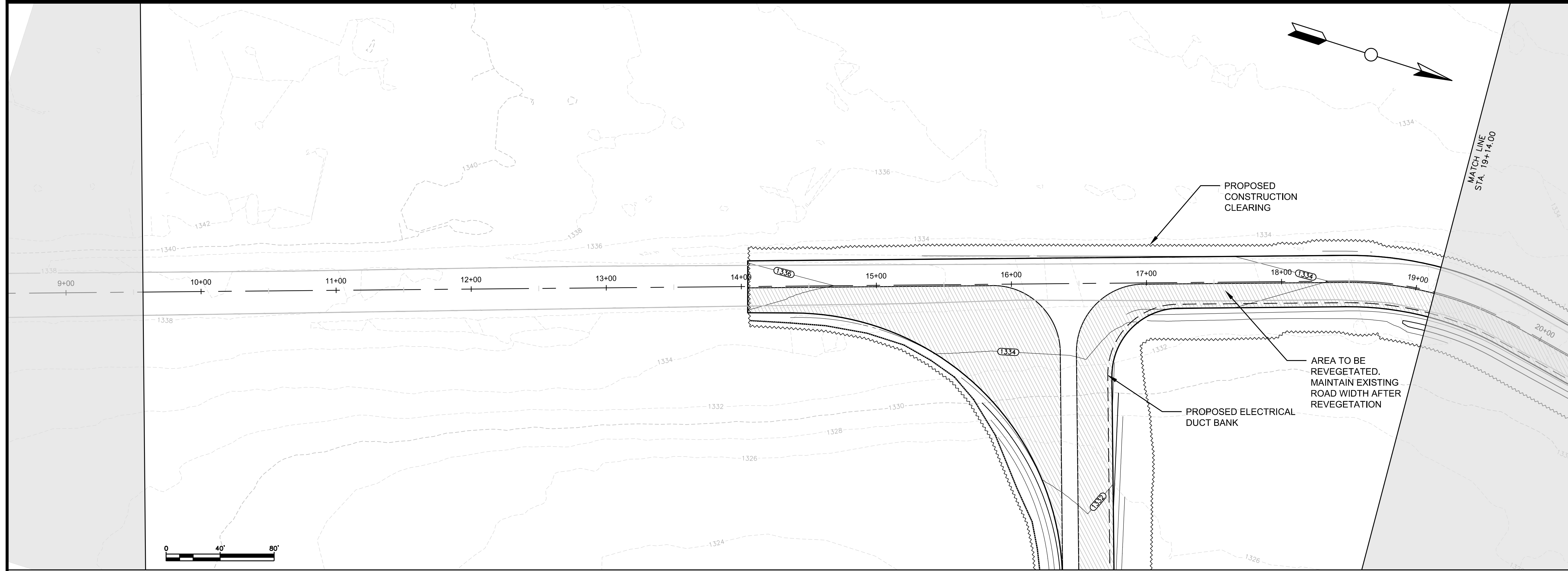
**RADAR TOWER PADS/
PROJECT ACCESS
ROADS PLANS AND
PROFILES**

SHEET INDEX

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Address:	MOSCOW, ME		
Client:	WESTERN MAINE RENEWABLES		
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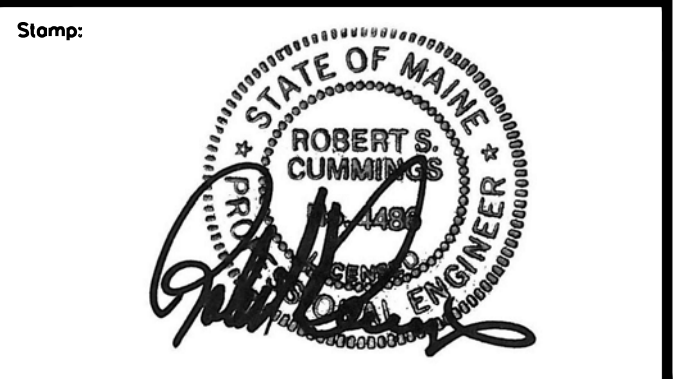
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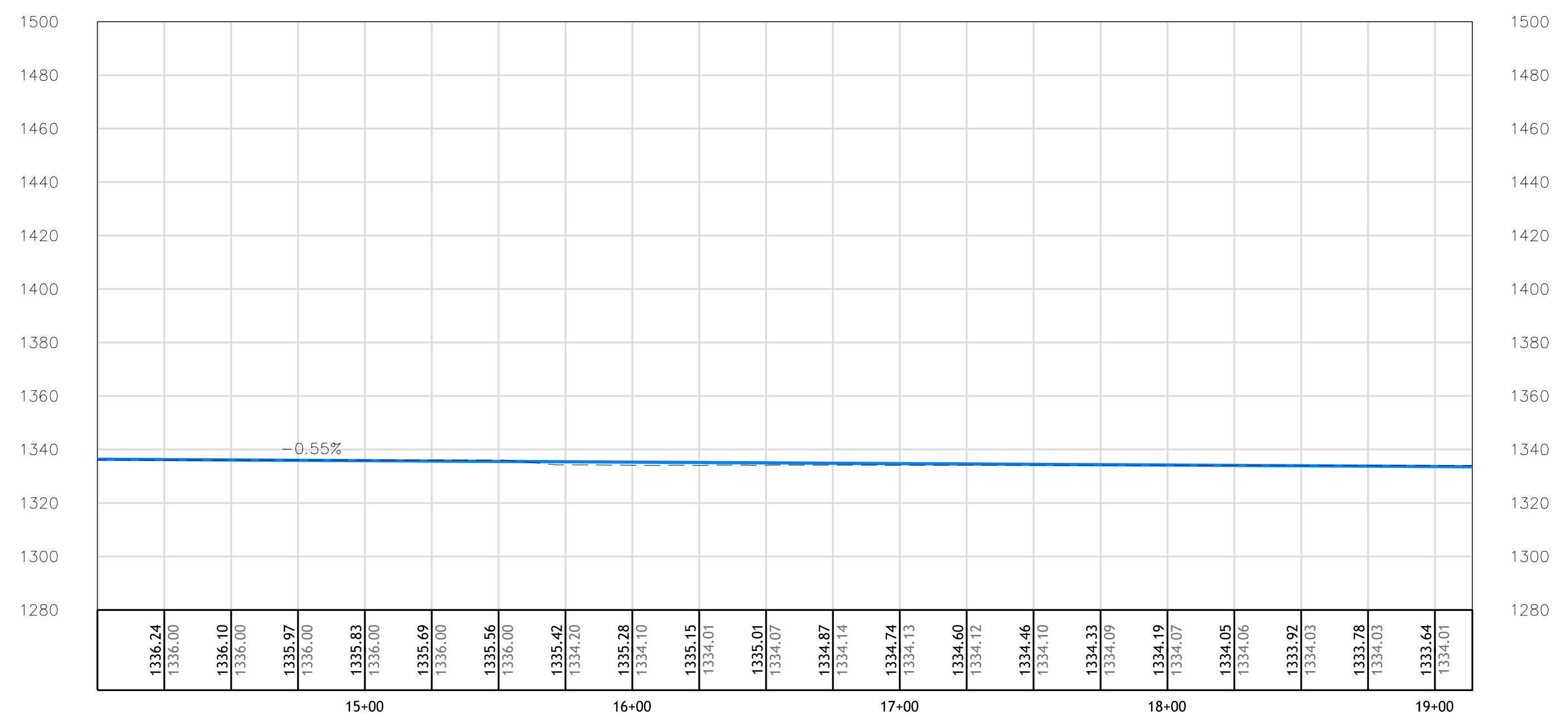


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**PLAN AND PROFILE
STREAM ROAD**

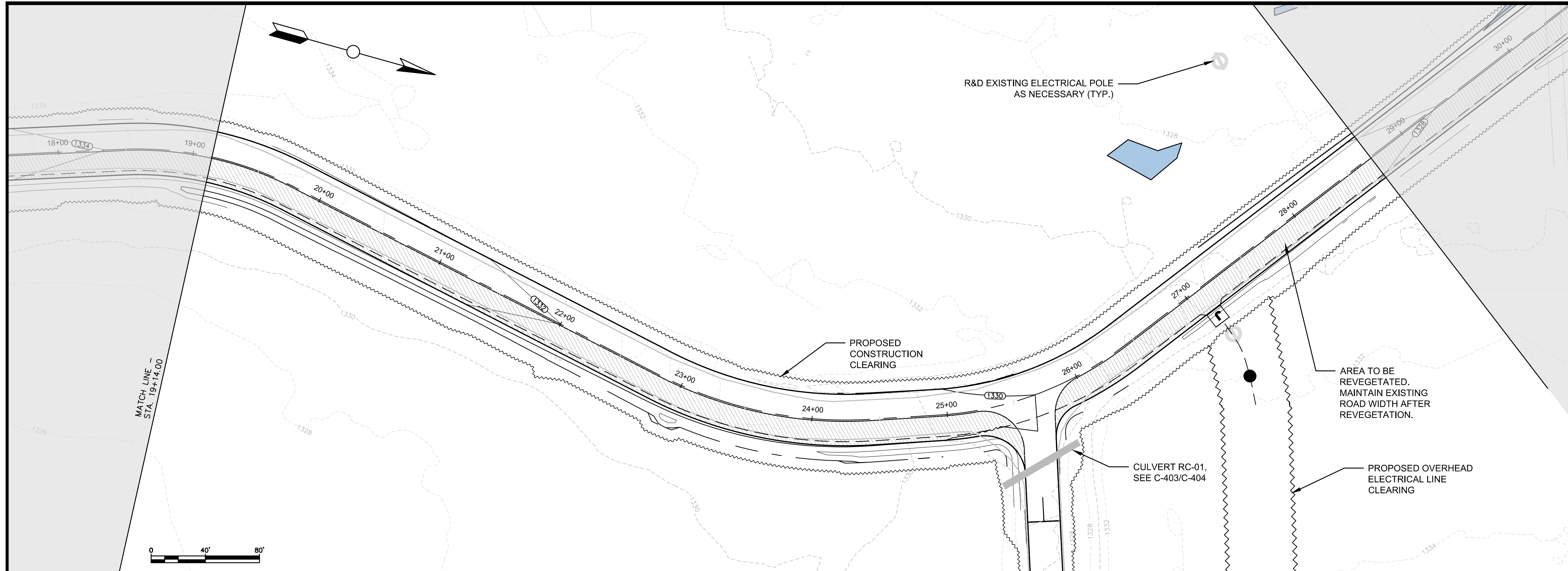
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Des No.: **C-101**



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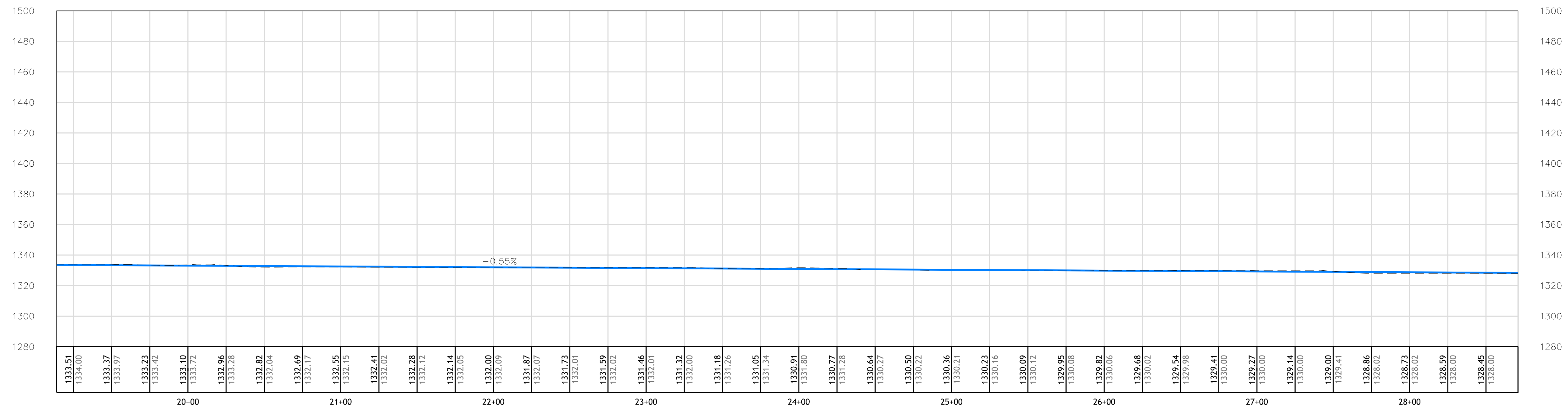
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**PLAN AND PROFILE
 STREAM ROAD**

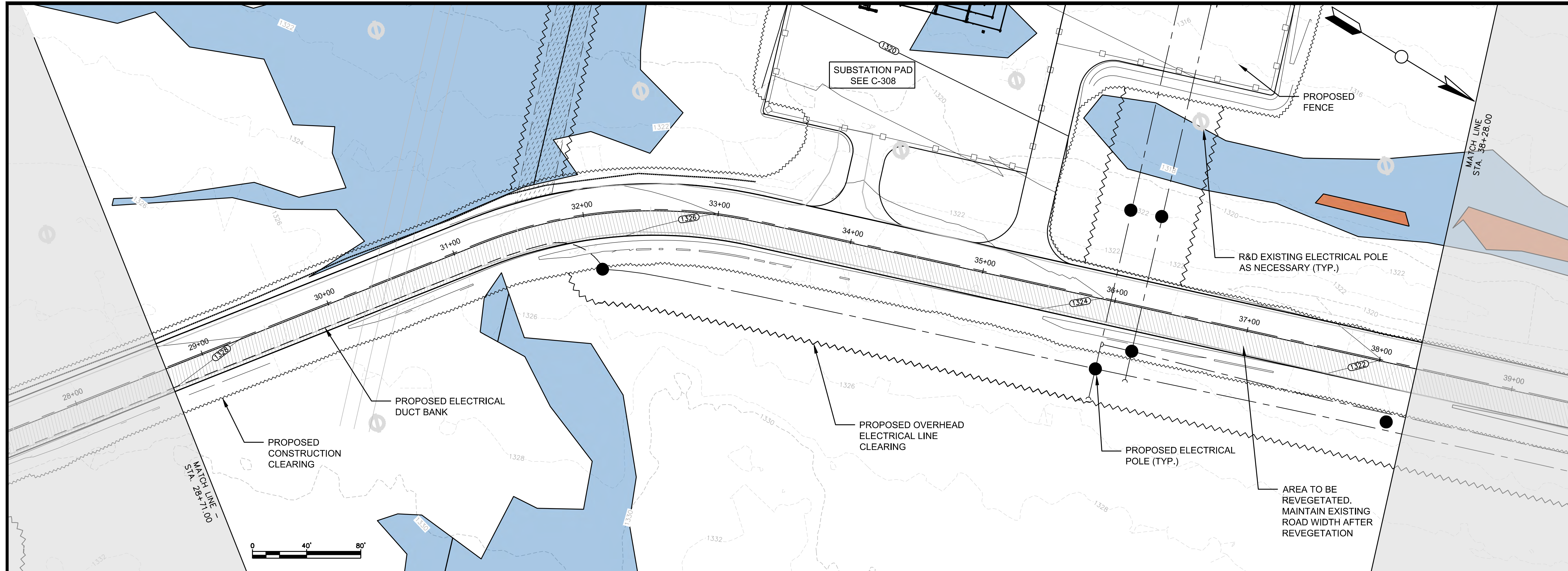
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Project: WESTERN MAINE RENEWABLE ENERGY PROJECT	
Address: MOSCOW, ME	
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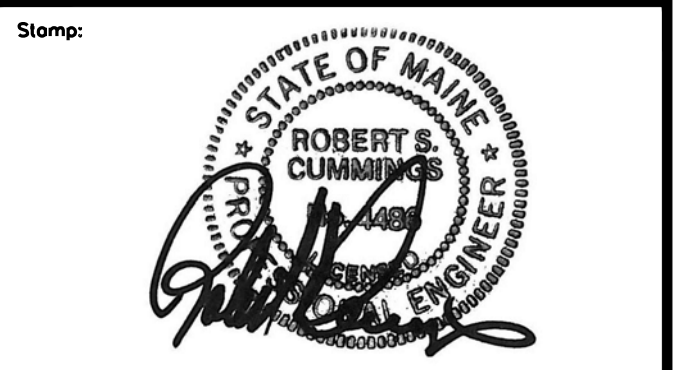
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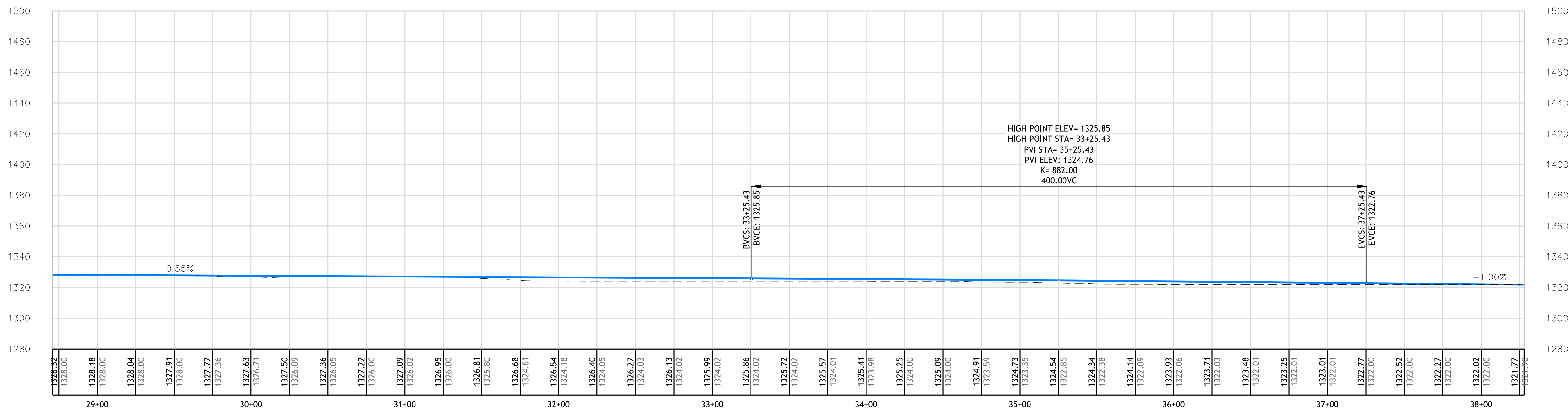
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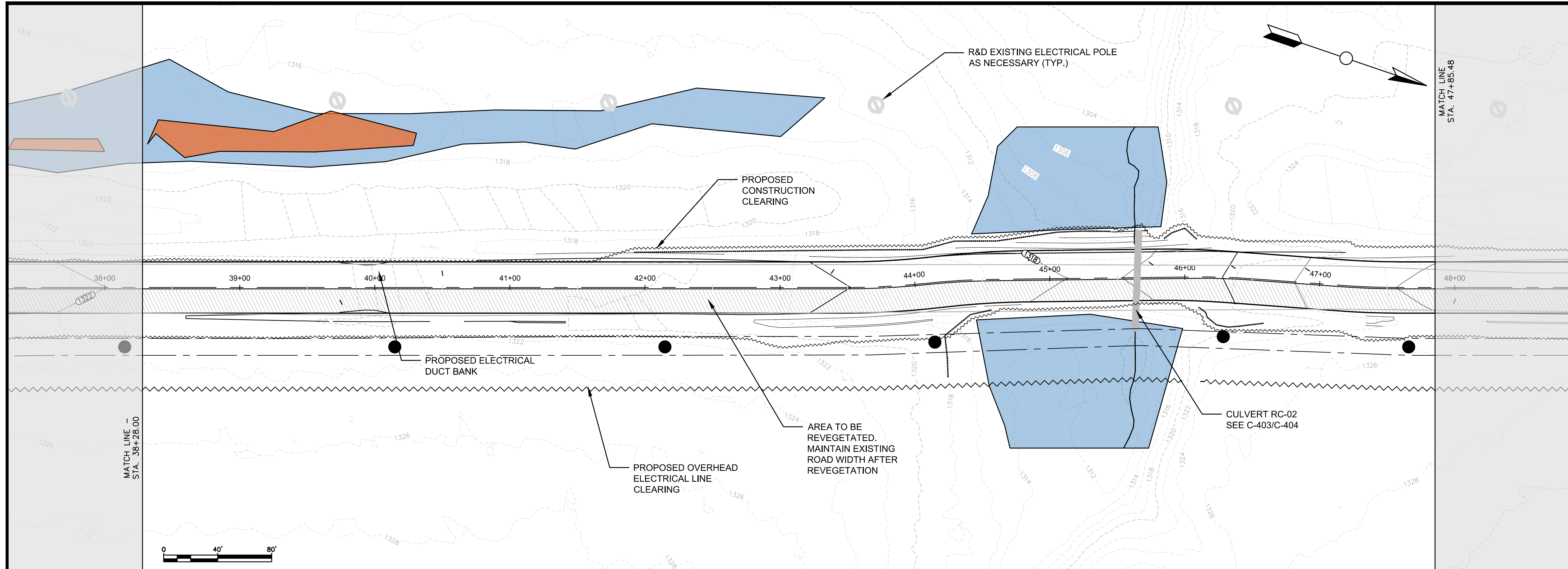
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**PLAN AND PROFILE
STREAM ROAD**

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28+71.00 TO 38+28.00



GENERAL NOTES:

1. SCALES NOTED ARE APPLICABLE TO FULL SIZE (24"x36") DRAWINGS ONLY. SCALE REDUCED DRAWINGS ACCORDINGLY.
2. NORTH AS SHOWN HEREON IS REFERENCED TO GRID NORTH, NAD83 MAINE STATE PLANES, WEST ZONE, US FOOT.
3. ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NAD 83.
4. EXISTING TOPOGRAPHIC AND PLANIMETRIC SURVEY INFORMATION AS SHOWN HEREON IS THE RESULT OF AERIAL TOPOGRAPHIC MAPPING COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC. DEVELOPED FROM AERIAL PHOTOGRAPHY COMPLETED BY PHOTOGRAMMETRIC TECHNOLOGY, INC.
5. ENVIRONMENTAL RESOURCE MAPPING (WETLANDS, STREAMS, VERNAL POOLS, ETC.) AS SHOWN HEREON BY TETRA TECH.
6. INVERTS SHOWN ON PROPOSED CULVERTS MAY BE ADJUSTED BASED ON FIELD CONDITIONS.

No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS
ENGINEERING & MANAGEMENT SERVICES, INC.
549 SOUTH STREET, QUINCY, MA 02169
TEL: (617) 890-0600 FAX: (617) 890-0608

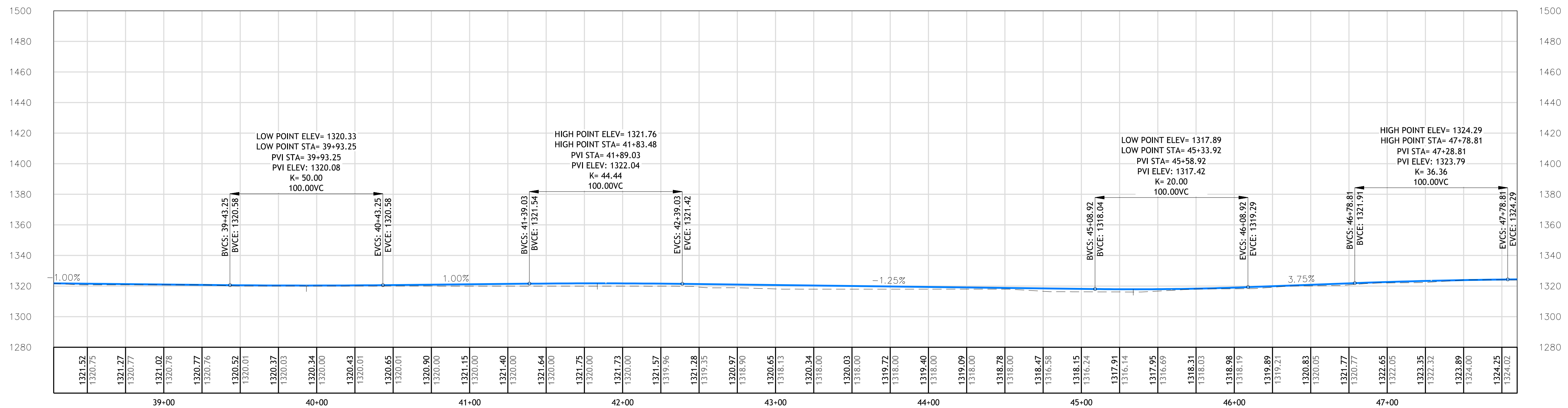


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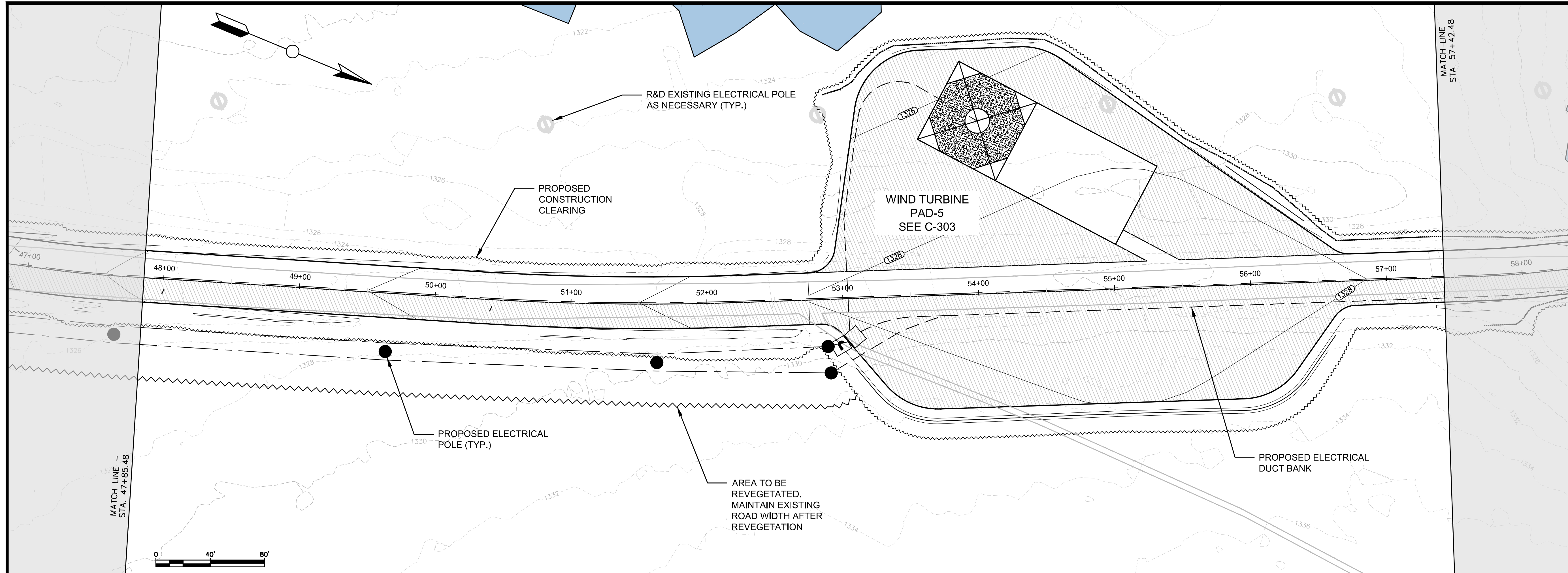
**PLAN AND PROFILE
STREAM ROAD**

Date: 05/25/2021	Scale: AS SHOWN
Drawn By: CAD	Chk'd By: RSC
Project: WESTERN MAINE RENEWABLE ENERGY PROJECT	
Address: MOSCOW, ME	
Client: WESTERN MAINE RENEWABLES	
Sheet Number: 7 OF 62	

Proj No.: **C-104**



Access Road – Main
38+28.00 TO 47+85.00



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PATRIOT RENEWABLES

ENGINEERING & MANAGEMENT SERVICES, INC.
549 SOUTH STREET, QUINCY, MA 02169
TEL: (617) 890-0600 FAX: (617) 890-0606

Stamp:

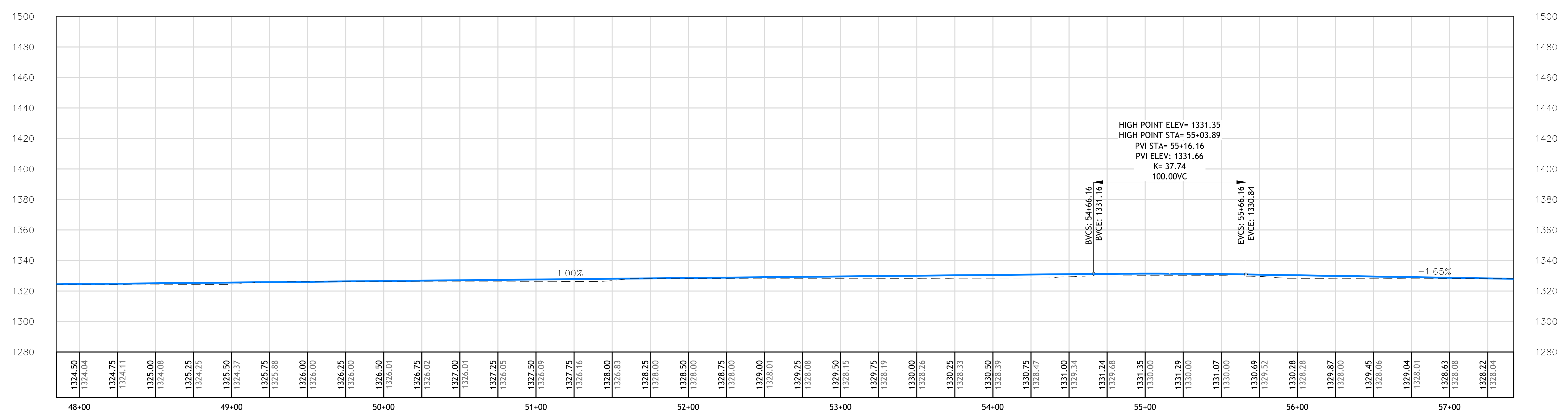
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**PLAN AND PROFILE
STREAM ROAD**

Date: 05/25/2021	Scale: AS SHOWN
Drawn By: CAD	Checked By: RSC
Project: WESTERN MAINE RENEWABLE ENERGY PROJECT	
Address: MOSCOW, ME	
Client: WESTERN MAINE RENEWABLES	
Sheet Number: 8 OF 62	

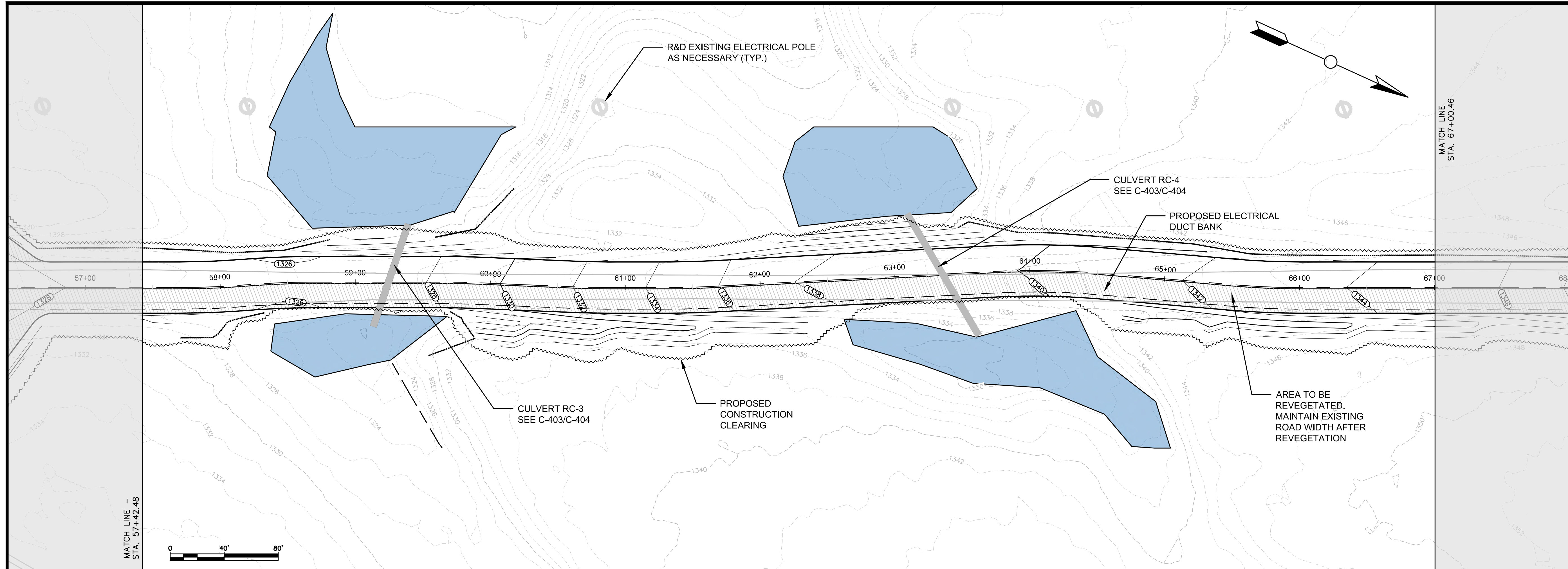
Proj No.:

C-105



Access Road – Main
47+85.00 TO 57+42.00

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GENERAL NOTES:

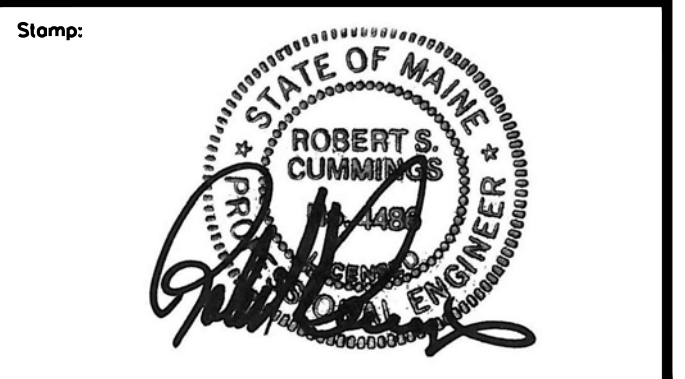
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No.	Revision/Issue	Date

PATRIOT RENEWABLES

EMS

ENGINEERING & MANAGEMENT SERVICES, INC.
 549 SOUTH STREET, QUINCY, MA 01919
 TEL: (617) 890-0600 FAX: (617) 890-0606

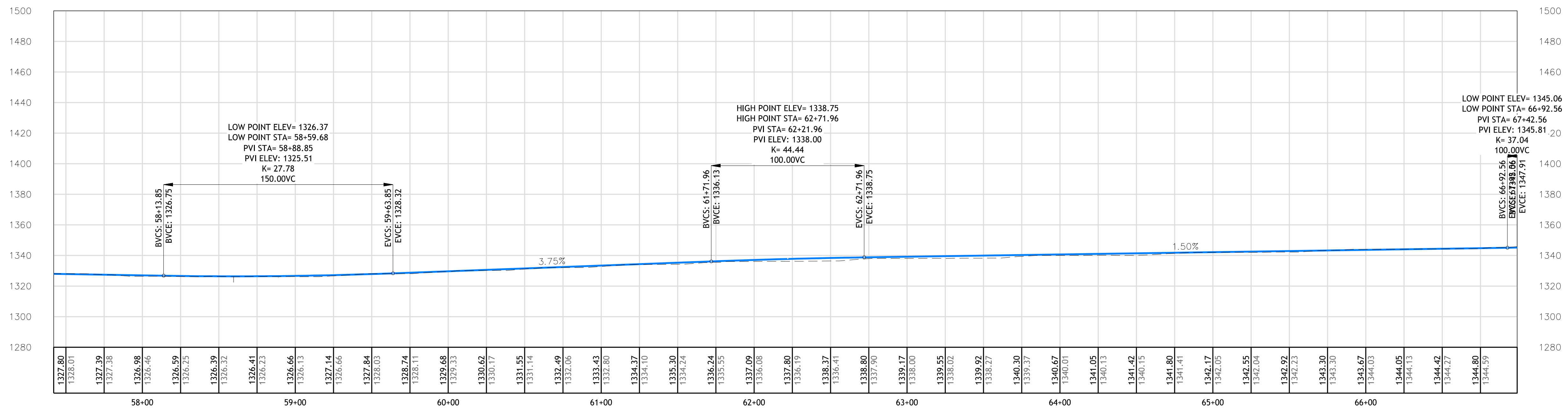


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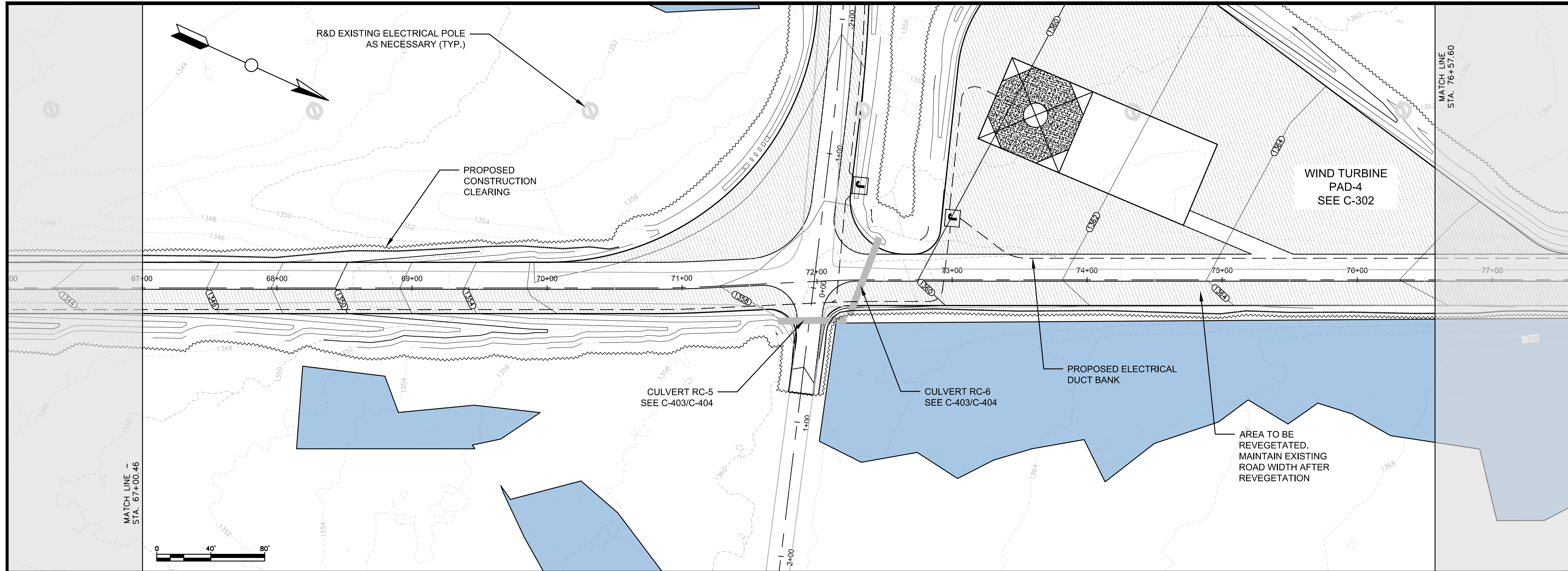
**PLAN AND PROFILE
STREAM ROAD**

Date: 05/25/2021	Scale: AS SHOWN
Drawn By: GAD	Chk'd By: RSC
Project: WESTERN MAINE RENEWABLE ENERGY PROJECT	
Address: MOSCOW, ME	
Client: WESTERN MAINE RENEWABLES	
Sheet Number: 9 OF 62	

Proj No.: C-106



Access Road – Main
57+42.00 TO 66+99.00



GENERAL NOTES:

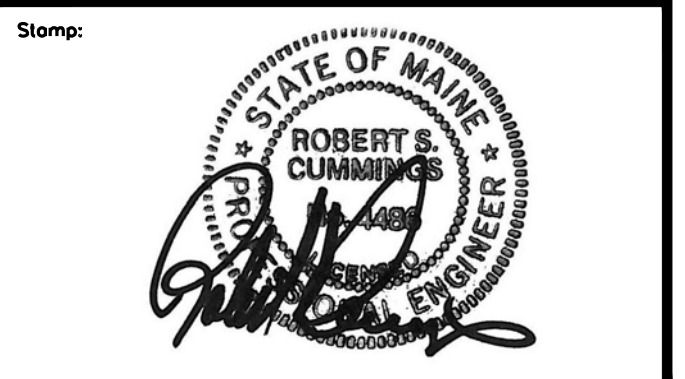
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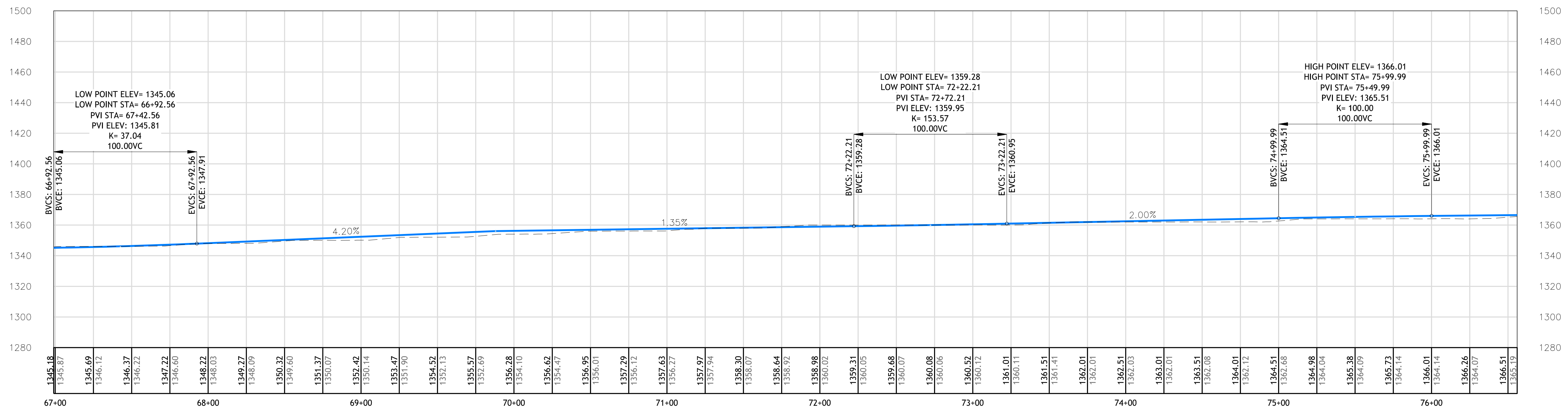


Drawing Title:

**PLAN AND PROFILE
STREAM ROAD**

Date: 05/25/2021	Scale: AS SHOWN
Drawn By: CAD	Chk'd By: RSC
Project: WESTERN MAINE RENEWABLE ENERGY PROJECT	
Address: MOSCOW, ME	
Client: WESTERN MAINE RENEWABLES	
Sheet Number: 10 OF 62	

Proj No.: C-107



Access Road – Main
66+99.00 TO 76+56.00