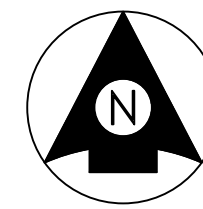


Attachment C

Engineering Plans

- C1 Onshore Duct Bank
- C2 Proposed Substation
- C3 Landfall Site HDD
- C4 East Bay Microtunnel Option
- C5 Route 6 Microtunnel
- C6 Phinneys Bay Culvert Crossing
- C7 Variant 1 of the Preferred Grid Interconnection Route
- C8 Subsea Cable Pull-In

C1 Onshore Duct Bank



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NEW ENGLAND WIND 2 CONNECTOR ONSHORE 275kV & 345kV TRANSMISSION CABLE DUCT BANK ROUTES

INDEX OF SHEETS

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LOCUS MAP
N.T.S.

REV	DATE	REVISION DESCRIPTION	STATUS	DRAWN	CHKD	APPRVD
F	2023-06-28	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDT	KEF
E	2023-05-03	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDT	KEF
D	2023-03-31	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDT	KEF
C	2023-02-10	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDT	KEF
B	2022-09-28	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDT	KEF
A	2022-08-05	ISSUED FOR CLIENT REVIEW	IFCR	RN/DM	JDT	KEF

CONTRACTOR:

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400 Crown Colony Drive Suite 200
Quincy, MA U.S.A. 02169-0982

CLIENT:

125 High Street
Boston, MA 02110

PROJECT:

NEW ENGLAND WIND 2 CONNECTOR

TITLE:

ONSHORE 275kV DUCT BANK
COVER

DOC ID:

CWW-OCP-STC-DW-0001

SHEET 1	DWG. NO.	SCALE	FORMAT/SIZE	REV.
OF 33	SHEET - 1	AS SHOWN	ANSI D	F

ALL UNITS SHOWN ARE 'ENGLISH UNITS' (FEET AND INCHES)

THIS PLAN SET IS PRELIMINARY AND HAS BEEN ISSUED FOR PERMITTING PURPOSES ONLY; AND, IS NOT INTENDED FOR CONSTRUCTION PURPOSES.

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GENERAL NOTES AND PLAN REFERENCES

- INFORMATION ON EXISTING GROUND FEATURES, UTILITIES, TOPOGRAPHY, ABUTTERS, AND PROPERTY LINES / RIGHT-OF-WAY ARE BASED ON ONE OF THE FOLLOWING SOURCES:
 - TOWN OF BARNSTABLE GEOGRAPHIC INFORMATION SYSTEM (GIS)
 - TOWN OF BARNSTABLE DPW AS-BUILT RECORDS FOR DRAINAGE SYSTEMS, AS AVAILABLE
 - CAPE COD COMMISSION ONLINE GIS TOOL
 - MASSGIS 'MASSMAPPER' ONLINE GIS TOOL
 - USDA WEB SOIL SURVEY

THE INFORMATION SOURCES NOTED ABOVE HAVE NOT BEEN VERIFIED TO REPRESENT ACTUAL "ON-THE-GROUND" CONDITIONS OR ACTUAL PROPERTY LINE OR UTILITY LOCATIONS, AND THEREFORE ARE CONSIDERED TO BE APPROXIMATE. PLANS DO NOT NECESSARILY DEPICT THE EXACT LOCATIONS OF UTILITIES, WHICH MAY PRESENTLY EXIST WITHIN THE PROJECT LIMITS. THERE MAY BE EXISTING LINES OTHER THAN THOSE INDICATED. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE AND MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO ANY WORK ALONG THE ROUTE, OR FOR WORK ON UTILITY CONNECTIONS OR CROSSINGS OF PROPOSED OR EXISTING UTILITIES. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER. THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES RELATIVE TO LOCATIONS AND ELEVATIONS OF LINES. NO SEPARATE OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR DUE TO ANY VARIANCE BETWEEN THE DATA SHOWN ON THE PLANS AND ACTUAL FIELD CONDITIONS ENCOUNTERED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINATION AS TO THE TYPE AND LOCATION OF EXISTING UTILITIES AS MAY BE NECESSARY TO AVOID THEIR DAMAGE AND TO FACILITATE PROPOSED CONNECTION(S).

- ACCORDING TO THE FLOOD INSURANCE RATE MAPS FOR BARNSTABLE COUNTY, MASSACHUSETTS, WITH EFFECTIVE DATE JULY 16, 2014: PORTIONS OF THE PROJECT ARE LOCATED WITHIN FLOOD HAZARD ZONES AS FOLLOWS:
 - ZONE VE (EL. 15) – AS LOCATED TO THE SOUTH, ENCOMPASSING THE PROPOSED LANDFALL TRANSITION AND THE EAST BAY CAUSEWAY CROSSING UNTIL THE INTERSECTION WITH EAST BAY ROAD
 - ZONE AE (EL. 12-13) – STARTING FROM THE LIMIT OF ZONE VE AND FOLLOWING EAST BAY ROAD ALONG THE DUCT BANK ROUTE UNTIL 209 EAST BAY ROAD. AN ADDITIONAL AREA OF FLOOD ZONE AE (EL.12) IS LOCATED AT THE INTERSECTION OF EAST BAY ROAD AND MAIN ST.
 - ZONE X – SMALL AREAS OF 0.2% ANNUAL CHANCE FLOOD ARE PRESENT ALONG THE ROUTE AT THE EDGE OF FLOOD ZONE AE ON EAST BAY ROAD AND MAIN ST, AND AN ADDITIONAL SMALL AREA IS LOCATED IN FRONT OF 99 EAST BAY ROAD.

THE REMAINDER OF THE ROUTE IS WITHIN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN
- VERTICAL DATUM REFERS TO NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988, UNLESS OTHERWISE NOTED.
- PLANS ARE NOT INTENDED FOR CONSTRUCTION. ENGINEER'S CERTIFICATION IS FOR PERMITTING PURPOSES ONLY.
- DUCT BANK ROUTING AND VAULT LOCATIONS ARE DIAGRAMMATIC. DETAILED DESIGN WILL TAKE PLACE AT A LATER DATE IN ACCORDANCE WITH PERMITTING AND UTILITY CONSTRAINTS.

SEDIMENTATION AND EROSION CONTROL NOTES

IT IS THE INTENT OF THE CONTRACT PLANS AND DETAILS TO CONTROL EROSION AND SEDIMENTATION IN ALL PORTIONS OF THE SITE. THE CONTRACTOR IS ALERTED THAT CONTROL OF EROSION AND SEDIMENTATION IS CONSIDERED TO BE ESPECIALLY IMPORTANT IN AND AROUND THE AREAS SHOWN ON THE PLANS AND DELINEATED AS WETLANDS. THE CONTRACTOR IS TO IMPLEMENT THE EROSION AND SEDIMENTATION CONTROLS INDICATED ON THE PLANS, IN ACCORDANCE WITH THE FOLLOWING NOTES, BUT IS ALERTED TO THE FACT THAT ADDITIONAL MEASURES MAY BE REQUIRED TO COMPLY WITH THIS INTENT, AS FIELD CONDITIONS MAY WARRANT. SHOULD SUCH MEASURES BE DETERMINED TO BE REQUIRED OR ORDERED BY THE ENGINEER, THEY ARE TO BE IMPLEMENTED IMMEDIATELY. IN ADDITION, THE CONTRACTOR SHALL PREPARE AND SUBMIT FOR ENGINEER'S REVIEW A STORMWATER POLLUTION PREVENTION PLAN CONSISTENT WITH THE REQUIREMENTS OF THE NPDES CONSTRUCTION GENERAL PERMIT AND FILE A NOTICE OF INTENT WITH THE U.S. EPA MASSDEP AS REQUIRED UNDER THE NPDES CONSTRUCTION GENERAL PERMIT PROGRAM.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL MEASURES IN ORDER TO PREVENT THE OFF-SITE TRACKING OF EARTH, SEDIMENT, AND DEBRIS; AND FOR CONTROLLING THE EROSION AND SEDIMENT TRANSPORT DURING THE CONSTRUCTION PROCESS. SITE SPECIFIC CONDITIONS MAY REQUIRE MODIFICATIONS IN THE FIELD, BUT THE CONTRACTOR MUST ENSURE THAT MEASURES IMPLEMENTED IN THE FIELD MEET THE MINIMUM REQUIREMENTS OF THESE PLANS.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE PROVISIONS OF ALL APPLICABLE PERMITS AND APPROVALS ISSUED BY LOCAL, STATE & FEDERAL REGULATIONS FOR ACTIVITIES INVOLVING WETLANDS, WATERCOURSES AND/OR EROSION CONTROLS. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, MAY 2003.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF SILT FENCES. DRAINAGE SWALES, EARTH DIKES, TEMPORARY SETTLING BASINS, CHECK DAMS AND TEMPORARY OR PERMANENT SEDIMENT BASINS. SUCH PRACTICES DIVERT FLOWS FROM EXPOSED SOILS, LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE TO THE DEGREE ATTAINABLE. TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE WORK, SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL SITE WORK IS COMPLETED AND GROUND COVER IS ESTABLISHED (AT LEAST 75% UNIFORM COVERAGE BY NEW SEEDLINGS).
- IN GENERAL, WORK REQUIRING EROSION CONTROL INCLUDES EXCAVATIONS, FILLS, DRAINAGE, SWALES AND DITCHES, ROUGH AND FINISH GRADING, AND STOCKPILING OF EARTH.
- AREAS SUBJECT TO EROSION SHALL BE MINIMIZED IN TERMS OF TIME AND AREA. DO NOT DISTURB VEGETATION AND TOPSOIL BEYOND THE PROPOSED LIMIT OF SILT FENCE ACTIVITIES.
- EROSION CONTROL MEASURE SHALL BE INCORPORATED IN THE SEQUENCE OF CONSTRUCTION TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE.
- EARTHWORK ACTIVITY SHALL BE PERFORMED IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO TEMPORARY DRAINAGE SWALES AND SEDIMENTATION BASINS. IN NO CASE SHALL RUNOFF FROM ROADWAYS OR OTHER AREAS, UPGRADIENT FROM EMBANKMENTS, BE ALLOWED TO RUN DOWN ANY CUT OR FILL SLOPE, WITHOUT THE APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL, AT ALL TIMES, HAVE A STOCKPILE OF HAY BALES, SILT FENCE, CRUSHED STONE, AND CATCH BASIN FILTER BAGS ADEQUATE TO REINFORCE/REPLACE EROSION AND SEDIMENT CONTROLS AS NEEDED.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD SO THAT ALL AREAS ARE STABILIZED TO PREVENT THE MOVEMENT OF SOIL, SILT, SEDIMENT AND DEBRIS INTO DRAINAGE SYSTEMS OR WATERWAYS ON AND NEAR CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROLS DAILY AND CLEAN ACCUMULATED MATERIALS FROM BEHIND THEM, AS NECESSARY. ALL EROSION AND SEDIMENTATION CONTROL MEASURES FOUND TO BE IN NEED OF REPAIR OR REPLACEMENT SHALL BE IMMEDIATELY CORRECTED, SO AS TO MAINTAIN THE INTEGRITY OF THE EROSION AND SEDIMENTATION CONTROL SYSTEM.
- IN ORDER TO MINIMIZE EROSION AND SEDIMENT RUNOFF FROM THE SITE, THE CONTRACTOR SHOULD MAINTAIN EXISTING VEGETATION WHERE POSSIBLE AND STABILIZE THE DISTURBED PORTIONS OF THE SITE AS QUICKLY AS POSSIBLE. THE CONTRACTOR SHALL PHASE CONSTRUCTION TO MINIMIZE THE AREA OF DISTURBED EARTH OPEN TO THE ELEMENTS AT ANY GIVEN TIME. THIS SHALL BE ACHIEVED BY THE FOLLOWING METHODS OR OTHER BEST MANAGEMENT PRACTICES (BMP's):
 - LOAMING AND SEEDING CUT SLOPES IMMEDIATELY UPON COMPLETION OF SUBGRADE PREPARATION, AND SECURING SUCH NEWLY ESTABLISHED SLOPES WITH EROSION CONTROL NETTING AND/OR MULCH.

- PLACING AND COMPACTING PAVEMENT GRAVEL BASE AND SUB-BASE IMMEDIATELY UPON COMPLETION OF SUBGRADE PREPARATION.
 - LIMITING STRIPPING AND STOCKPILING OF LOAM TO AREAS SLATED FOR IMMEDIATE CONSTRUCTION AND STABILIZATION (I.E. PLACEMENT OF GRAVELS, LOAM AND SEED, EROSION CONTROL MATTING).
- THE CONTRACTOR MUST ALSO ANTICIPATE INCREASED RUNOFF FROM STEEPER SLOPES AND DURING HIGH GROUNDWATER CONDITIONS. THIS MAY OCCUR DURING THE WET SEASON (TYPICALLY MARCH THROUGH APRIL) OR AFTER SIGNIFICANT PRECIPITATION EVENTS.
 - SEDIMENT REMOVED FROM CONTROL STRUCTURES SHALL BE DISPOSED OF LEGALLY OFF SITE. NO EQUIPMENT OR MATERIAL OF ANY KIND SHALL BE STOCKPILED OR DEPOSITED IN ANY REGULATED AREA, UNLESS SPECIFICALLY SHOWN ON THE CONTRACT PLANS OR AUTHORIZED BY PROJECT PERMITS/APPROVALS.
 - STOCKPILED SOIL SHALL BE SURROUNDED WITH SILTATION FENCES TO PREVENT AND CONTROL SILTATION AND EROSION. STOCKPILES THAT WILL REMAIN EXPOSED FOR 14 OR MORE DAYS, SHALL BE STABILIZED WITH MULCH OR SEEDED FOR TEMPORARY VEGETATIVE COVER.
 - TEMPORARY STORAGE OF MATERIALS ON-SITE SHALL BE LOCATED GREATER THAN 100-FEET FROM WETLAND AREAS, AND AS APPROVED BY THE ENGINEER. THERE SHALL BE NO LONG-TERM STORAGE OF MATERIAL ON-SITE OR ON-ROUTE. MATERIAL NOT USED ON-SITE OR ON-ROUTE SHALL BE TRUCKED TO AN ACCEPTABLE OFF-SITE DISPOSAL LOCATION.
 - ALL DISTURBED SURFACES SHALL BE STABILIZED WITHIN 14 DAYS AFTER CONSTRUCTION IN ANY PORTION OF THE SITE THAT HAS BEEN COMPLETED OR WHERE CONSTRUCTION HAS TEMPORARILY CEASED.
 - ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY OR FINAL STABILIZATION WITH MULCH OR MULCH NETTING, OR SEEDED FOR TEMPORARY VEGETATIVE COVER, WITHIN 14 DAYS OF THE INITIAL DISTURBANCE. AFTER THIS TIME, ANY DISTURBANCE IN THE AREA MUST BE STABILIZED AT THE END OF EACH WORK DAY. THE FOLLOWING EXCEPTIONS APPLY:
 - STABILIZATION IS NOT REQUIRED IF WORK IS TO CONTINUE IN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO PRECIPITATION FORECAST FOR THE NEXT 24 HOURS.
 - STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION WITH A DEPTH OF 2 FEET OR GREATER.
 - CULVERT/PIPE INLETS AND OUTFALLS SHALL BE STABILIZED WITH STONE FOR PIPE ENDS OR OTHER APPROVED PERMANENT EROSION CONTROL MEASURES, IMMEDIATELY FOLLOWING PIPE INSTALLATION.
 - THERE SHALL BE NO DIRECT DISCHARGE FROM ANY REQUIRED DEWATERING OPERATIONS INTO ANY WETLAND, WATERCOURSE, OR DRAINAGE SYSTEM AND THEN ONLY AS ALLOWED BY REGULATORY PERMITS. ANY DEWATERING DISCHARGE CONTAINING SETTLEABLE SOLIDS (SEDIMENTS) SHALL BE PASSED THROUGH A SEDIMENTATION CONTROL BASIN, FRACTIONATION TANK OR SIMILAR TREATMENT, APPROVED BY THE ENGINEER, TO REMOVE THESE SOLIDS. CONTRACTOR SHALL MAINTAIN SAID SEDIMENT CONTROL DEVICES THROUGHOUT THE ENTIRE DEWATERING OPERATION AND SHALL CEASE DEWATERING, IF DEFICIENCIES ARE NOTED, UNTIL THE DEFICIENCIES ARE CORRECTED.
 - THE CONTRACTOR SHALL INSPECT ALL PORTIONS OF THE SITE IN ANTICIPATION OF RAINFALL EVENTS TO DETERMINE IF SITE GRADING IS SUFFICIENT TO PREVENT EROSION OF SLOPES AND/OR THE TRANSPORTATION OF SEDIMENTS TO WETLANDS OR WATERCOURSES, WITHIN THE PROJECT LIMITS. SHOULD ADDITIONAL MEASURES BE REQUIRED, THEY ARE TO BE IMPLEMENTED IMMEDIATELY. IN NO CASE SHALL THE INSTALLATION OF ADDITIONAL MEASURES, NECESSARY TO PROTECT SLOPES WITHIN THE PROJECT LIMITS, BE DELAYED BEYOND THE COMMENCEMENT OF PRECIPITATION.
 - THE CONTRACTOR SHALL INSPECT ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES, IN ACCORDANCE WITH THE REQUIREMENTS OF THE SWPPP AND EPA/NOI PERMIT REQUIREMENTS.
 - ALL DISTURBED EARTH SLOPES SHALL BE STABILIZED WITH PERMANENT VEGETATIVE COVER AS SOON AS POSSIBLE. DISTURBED AREAS, THAT ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL RECEIVE A PERMANENT OR TEMPORARY VEGETATIVE COVER AS SOON AS FINAL CONTOURS ARE ESTABLISHED. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A VEGETATIVE COVER, DISTURBED AREAS SHALL BE THOROUGHLY MULCHED. MULCHED AREAS SHALL BE SEEDED AS SOON AS WEATHER CONDITIONS ALLOW.
 - ALL SLOPES STEEPER THAN 2H:1V SHALL BE COVERED WITH MODIFIED ROCKFILL AND AN APPROVED EROSION CONTROL MATTING.
 - CONTRACTOR SHALL REMOVE ALL SEDIMENTATION CONTROL SYSTEMS, REMOVE ALL ACCUMULATED SEDIMENTS, AND SEED THE DISTURBED AREAS, WHEN THE CONTROL SYSTEMS ARE NO LONGER REQUIRED. CONTRACTOR SHALL REQUEST AND RECEIVE PERMISSION FROM THE ENGINEER PRIOR TO REMOVING ANY CONTROL SYSTEM.
 - THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL SILT AND DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS FROM EACH DRAINAGE STRUCTURE UPON COMPLETION OF THE PROJECT.
 - OBJECTS AND/OR AREAS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND ELEVATION.
 - ALL DISTURBED AREAS NOT OCCUPIED BY PAVEMENT, SIDEWALK OR RIPRAP SHALL BE COVERED WITH 4" (MIN.) OF LOAM AND SEED.
 - PERMANENT SEEDING SHALL OCCUR BETWEEN MARCH 1 AND JUNE 15, OR BETWEEN AUGUST 15 AND OCTOBER

CONSTRUCTION NOTES

- THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN SET SHALL BE CONSIDERED APPROXIMATE. THEREFORE, PRIOR TO THE START OF ANY WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES AND UTILITY COMPANIES, AND VERIFY THE ACTUAL LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN ON THIS PLAN. CONTACT DIG-SAFE AT 188-344-7233 (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATING.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES; AND FOR THE SAFETY PRECAUTIONS AND PROGRAMS REQUIRED FOR THE WORK UNDER THIS CONTRACT. THE CONTRACT DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY AND THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING ALL SAFETY BARRIERS, WARNING FLASHERS, STEEL PLATES FOR COVERING TRENCHES AND EXCAVATIONS, AS REQUIRED FOR THE PROTECTION OF WORKERS AND THE PUBLIC. COMPLY WITH OSHA REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY CONSTRUCTION PERMITS REQUIRED FOR THIS PROJECT.
- PRIOR TO CONSTRUCTION, CONSTRUCTION FENCE OR OTHER SUITABLE FORM OF DEMARCATION SHALL BE INSTALLED AT THE LIMITS OF THE AREAS TO BE DISTURBED.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL DESIGNATE A STAGING AREA FOR STORAGE OF CONSTRUCTION EQUIPMENT AND MATERIALS.


- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP A CONSTRUCTION PHASING PLAN AND THAT EROSION CONTROL MEASURES ARE INSTALLED AND MAINTAINED. (SEE EROSION CONTROL NOTES.)
- WORK WITHIN PUBLIC WAYS SHALL COMPLY WITH APPLICABLE MUNICIPAL AND STATE REQUIREMENTS.
- PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS AND FOR PERFORMING ANY NECESSARY WORK INVOLVED IN CONNECTION WITH THE DISCONTINUANCE OR JURISDICTION OF THE UTILITY COMPANIES, SUCH AS ELECTRICITY, TELEPHONE, CABLE OR FIBER OPTIC, WATER, AND SEWER SYSTEMS, OR ANY SYSTEMS WHICH WILL BE IMPACTED BY THE WORK TO BE PERFORMED PER THE PLANS.
- UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN EXCAVATING AND BACKFILLING IN THE VICINITY OF EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO SHORING AND THE USE OF HAND EXCAVATION WHERE APPROPRIATE.
- ALL EXISTING PIPING AND STRUCTURES EXPOSED DURING EXCAVATION SHALL BE ADEQUATELY SUPPORTED, BRACED, OR OTHERWISE PROTECTED DURING CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES AND REGULATIONS.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- NO CHANGES ARE TO BE MADE UNLESS AUTHORIZED BY THE DESIGN ENGINEER.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, AND PERMIT CONDITIONS.
- CONSTRUCTION SEQUENCE SHALL BE COORDINATED TO MINIMIZE DISTURBANCE OF EXISTING CONDITIONS.
- IF REQUIRED BY THE CONTRACTOR, OVERHEAD LINES SHALL BE RELOCATED BY THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT EXISTING RAILROAD TRACKS, ALL RETAINING WALLS, WALKS, STREETS, PAVEMENTS, HIGHWAY GUARDS, CURBING, EDGING, TREES, AND PLANTINGS ON OR OFF THE PREMISES OF THE WORK, AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AT CONTRACTOR'S OWN EXPENSE ANY ITEMS DAMAGED AS A RESULT OF THE CONTRACTOR'S WORK.
- THE CONTRACTOR SHALL REMOVE FROM THE PROJECT SITE ALL CONSTRUCTION DEBRIS, STUMPS, RUBBISH AND DEBRIS FOUND THEREON. STORAGE OF SUCH MATERIALS ON THE PROJECT SITE OR ROUTE WILL NOT BE PERMITTED. ALL MATERIALS TO BE REMOVED AND DISPOSED SHALL BE DISPOSED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACT SHALL LEAVE THE PROJECT SITE IN SAFE, CLEAN AND LEVEL CONDITION.
- ALL SURFACES DISTURBED BY THIS WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AS DETAILED OR AS SPECIFIED BY THE ENGINEER.
- ALL VAULT STRUCTURES IN PAVED AREAS SHALL HAVE THEIR RIMS SET TO FINISHED GRADE REGARDLESS OF ANY ELEVATIONS OTHERWISE SHOWN, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ALL WORK SHALL COMPLY WITH THE PROJECT'S REGULATORY PERMITS AND AGREEMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SPECIFYING HOW TO "REPAIR, REPLACE, PROTECT, AND MAINTAIN" ALL EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES DURING CONSTRUCTION. THIS SHALL INCLUDE SHOP DRAWING SUBMITTALS TO THE PROJECT ENGINEER.
- UTILITY TRENCHES THAT REQUIRE REPAIRS AND/OR REPLACEMENT OF EXPOSED UNDERGROUND UTILITIES MAY NOT BE BACKFILLED UNTIL THE COMPLETED UTILITY WORK HAS BEEN INSPECTED AND APPROVED BY THE APPROPRIATE UTILITY INSPECTOR.
- CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL. DUST CONTROL SHALL INCLUDE THE WATERING OF UNPAVED ROAD SURFACES AND STREET SWEEPING OF PAVED SURFACES. STREET SWEEPING SHALL OCCUR ON THE PAVED SURFACES WITHIN THE SITE AND OFF THE SITE WHERE VEHICLE TRACKING OF SEDIMENTS HAS OCCURRED.
- DURING CONSTRUCTION, TRENCHES ARE NOT TO BE LEFT IN A CONDITION THAT WOULD DIRECT RUNOFF AROUND TREATMENT AND DETENTION FACILITIES.
- ALL SITE WORK SHOULD BE SECURED AT THE END OF THE WORK DAY TO REDUCE EROSION AND SEDIMENT PROBLEMS. THIS INCLUDES AS APPLICABLE, COVERING STOCKPILES OF SEDIMENT, INSTALLING TEMPORARILY VEGETATION OR BY USING GEOTEXTILES TO COVER DISTURBED AREAS WITH STEEPER SLOPES.
- DEWATERING OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE U.S. EPA NPDES PHASE 1 CONSTRUCTION ACTIVITY GENERAL PERMIT FOR CONSTRUCTION SITES THAT ARE GREATER THAN 1 ACRE.
- EXCESS MATERIAL SHALL BE STOCKPILED AT A PROPER UPLAND LOCATION. STOCKPILES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE AND PERIODIC INSPECTIONS SHALL BE PERFORMED FOR SLOPE STABILITY. STOCKPILES ARE TO BE PROPERLY SECURED TO PREVENT EROSION AND SEDIMENT RUNOFF.

ALL UNITS SHOWN ARE 'ENGLISH UNITS' (FEET AND INCHES)

THIS PLAN SET IS PRELIMINARY AND HAS BEEN ISSUED FOR PERMITTING PURPOSES ONLY; AND, IS NOT INTENDED FOR CONSTRUCTION PURPOSES.


F	2023-08-28	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDT	KEF
E	2023-05-03	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDT	KEF
D	2023-03-31	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDT	KEF
C	2023-02-10	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDT	KEF
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A	2022-08-05	ISSUED FOR CLIENT REVIEW	IFCR	RN/DM	JDT	KEF
REV	DATE	REVISION DESCRIPTION	STATUS	DRAWN	CHKD	APPRVD

CONTRACTOR:



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Quincy, MA U.S.A. 02169-0982

CLIENT:



125 High Street
Boston, MA 02110

PROJECT:

NEW ENGLAND WIND 2 CONNECTOR

TITLE:

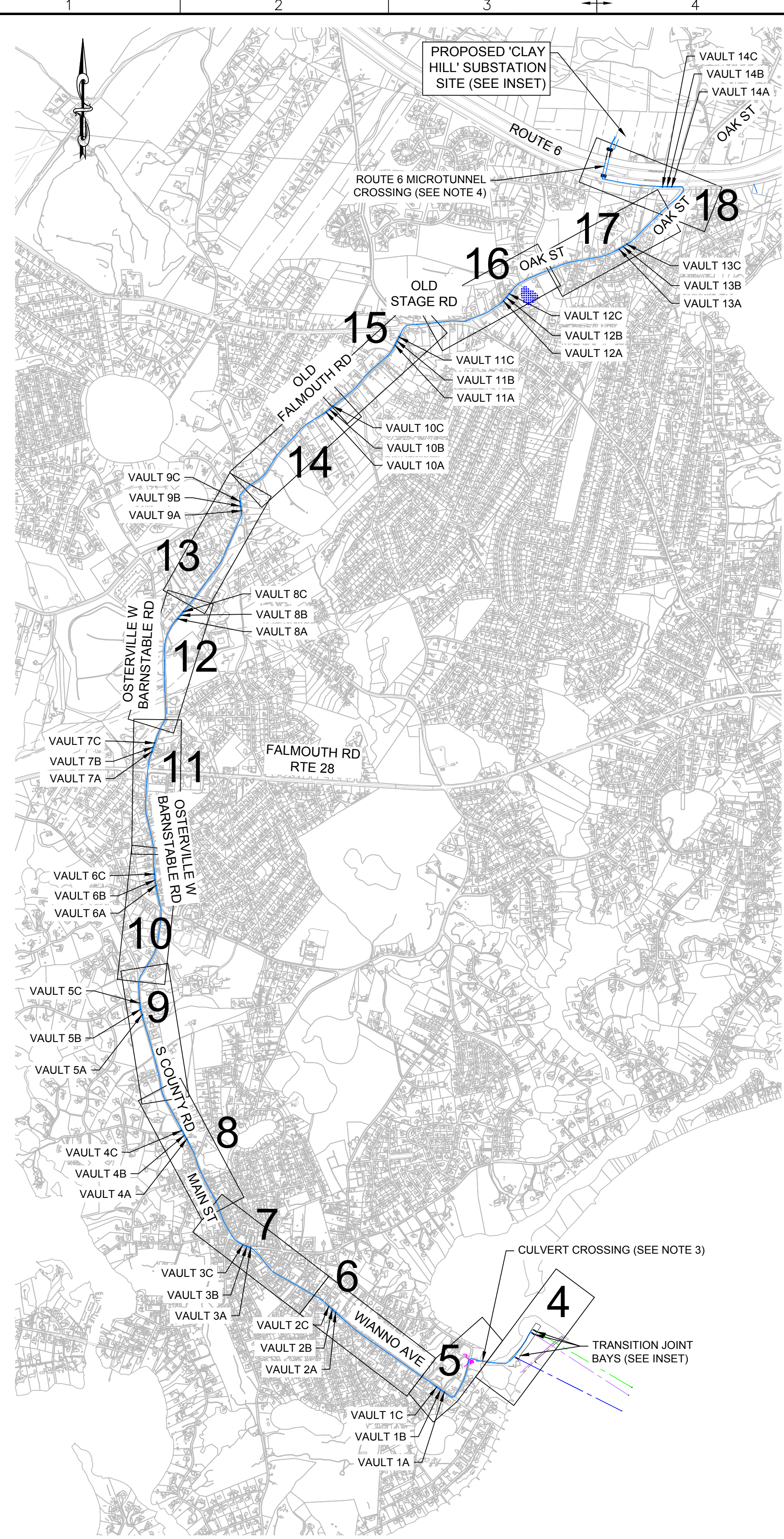
**ONSHORE 275kV DUCT BANK
GENERAL NOTES**

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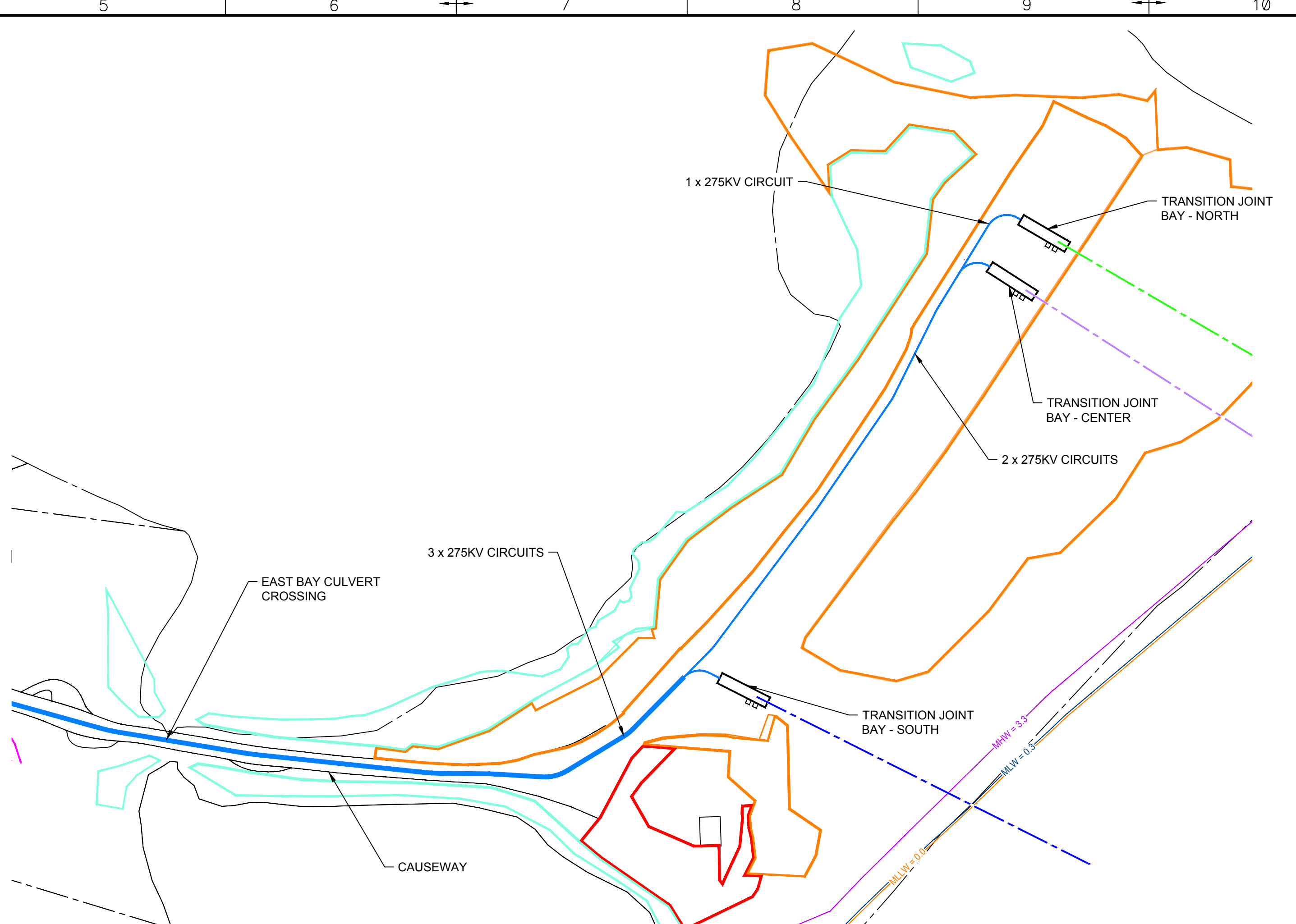
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SHEET 2 OF 33	DWG. NO. SHEET - 2	SCALE AS SHOWN	FORMAT/SIZE ANSI D	REV. F
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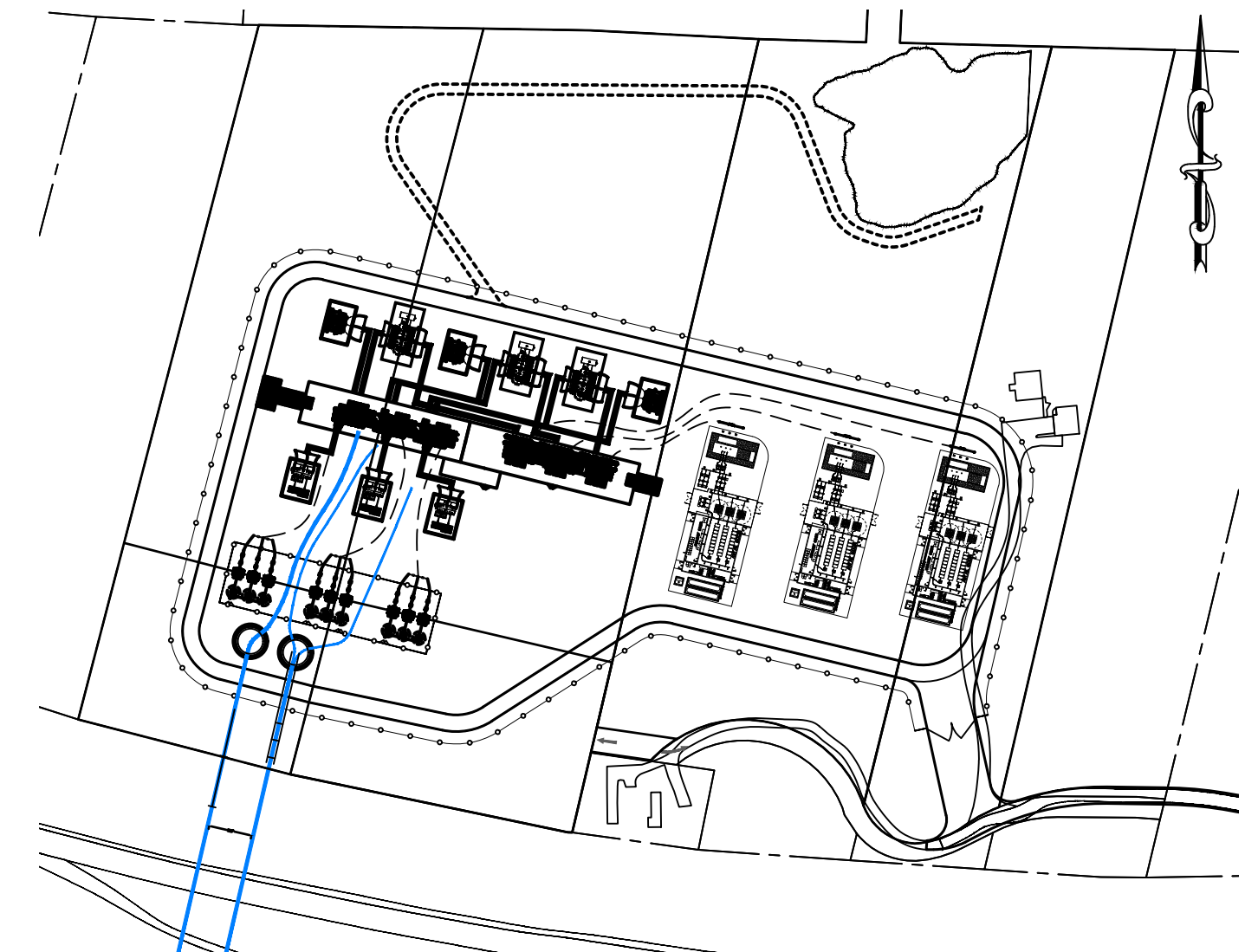
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OVERALL DUCTBANK PLAN
SCALE: 1" = 1,500'



DOWSES BEACH HDD LANDING (SEE NOTE 2)
SCALE: 1" = 100'



NEW ENGLAND WIND 2 CONNECTOR ONSHORE 275KV/345KV GIS SUBSTATION AT 'CLAY HILL' SITE (SEE NOTE 1)
SCALE: 1" = 200'

- NOTES:**
1. REFERENCE STANTEC SUBSTATION DRAWING SET CWW-OSP-STC-DW-0003
 2. REFERENCE STANTEC HDD DRAWING SET CWW-HDD-STC-DW-0004
 3. REFERENCE STANTEC CULVERT CROSSING DRAWING SET CWW-OCF-STC-DW-0013
 4. REFERENCE STANTEC ROUTE 6 CROSSING DRAWING SET CWW-OCF-STC-DW-0006
 5. SPLICE VAULT LOCATIONS ARE SUBJECT TO CHANGE

NEW ENGLAND WIND 2 CONNECTOR DUCT BANK STATIONS AND DISTANCES						
VAULT	CIRCUIT A STATION	CIRCUIT B STATION	CIRCUIT C STATION	DISTANCE FROM PREVIOUS VAULT / LOCATION (FT)		
				CIRCUIT A	CIRCUIT B	CIRCUIT C
TJB TO START OF DB	0+00	0+00	0+00	674	607	45
1	18+91	19+77	20+67	1891	1977	2067
2	44+81	45+67	46+57	2590	2590	2590
3	65+58	66+37	67+14	2077	2070	2057
4	90+46	91+32	92+38	2488	2495	2524
5	116+01	117+08	118+30	2555	2576	2592
6	141+91	142+97	144+13	2590	2589	2583
7	167+90	168+80	169+66	2599	2583	2553
8	194+65	195+55	196+40	2675	2675	2674
9	219+06	219+91	220+82	2441	2436	2442
10	245+30	246+16	247+06	2624	2625	2624
11	263+85	264+76	265+61	1855	1860	1855
12	287+96	288+86	289+72	2411	2410	2411
13	312+92	313+82	314+68	2496	2496	2496
14	332+47	333+33	334+23	1955	1951	1955
ROUTE 6	345+03	345+03	345+03	1256	1170	1080
SUBSTATION	N/A	N/A	N/A	865	883	950
TOTALS				36042	35993	35498

REV	DATE	REVISION DESCRIPTION	STATUS	DRAWN	CHKD	APPRVD
F	2023-06-28	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
E	2023-05-03	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
D	2023-03-31	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
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A	2022-08-05	ISSUED FOR CLIENT REVIEW	IFCR	RN/DM	JDT	KEF

CONTRACTOR:
 Stantec
 Stantec Consulting Services Inc.
 400 Crown Colony Drive Suite 200
 Quincy, MA U.S.A. 02169-0982

CLIENT:
 AVANGRID Offshore Wind
 125 High Street
 Boston, MA 02110

PROJECT:
 NEW ENGLAND WIND 2 CONNECTOR

TITLE:
 ONSHORE 275KV DUCT BANK KEY PLAN

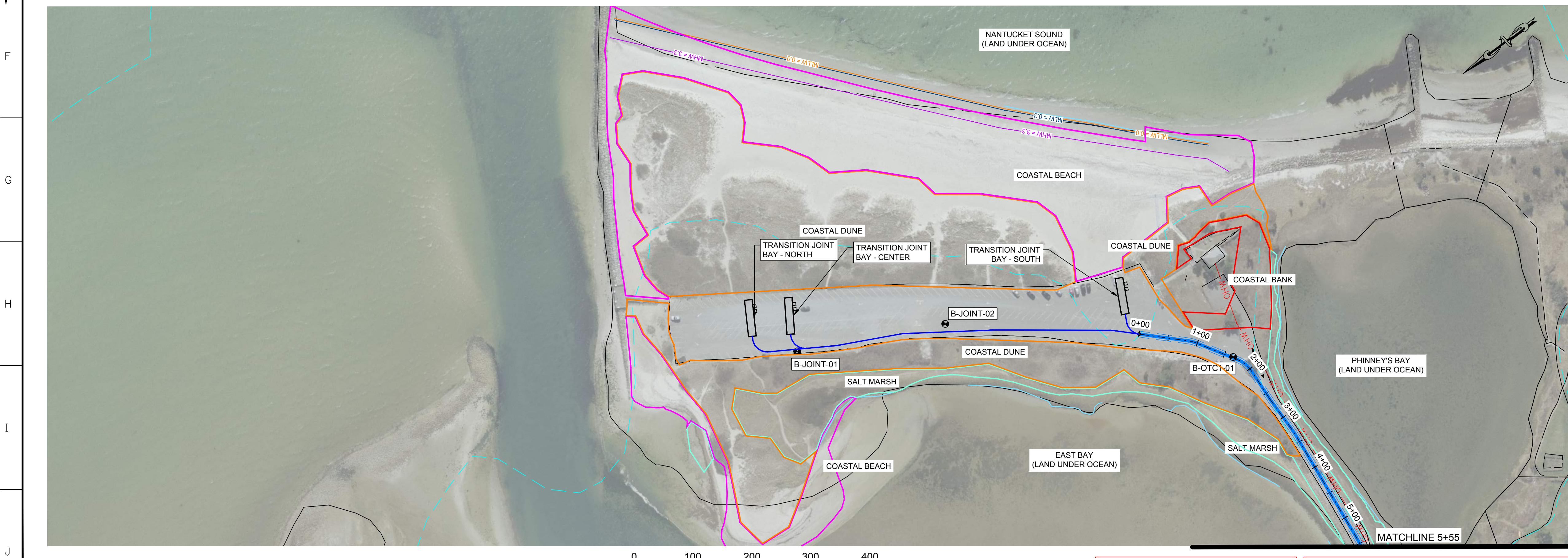
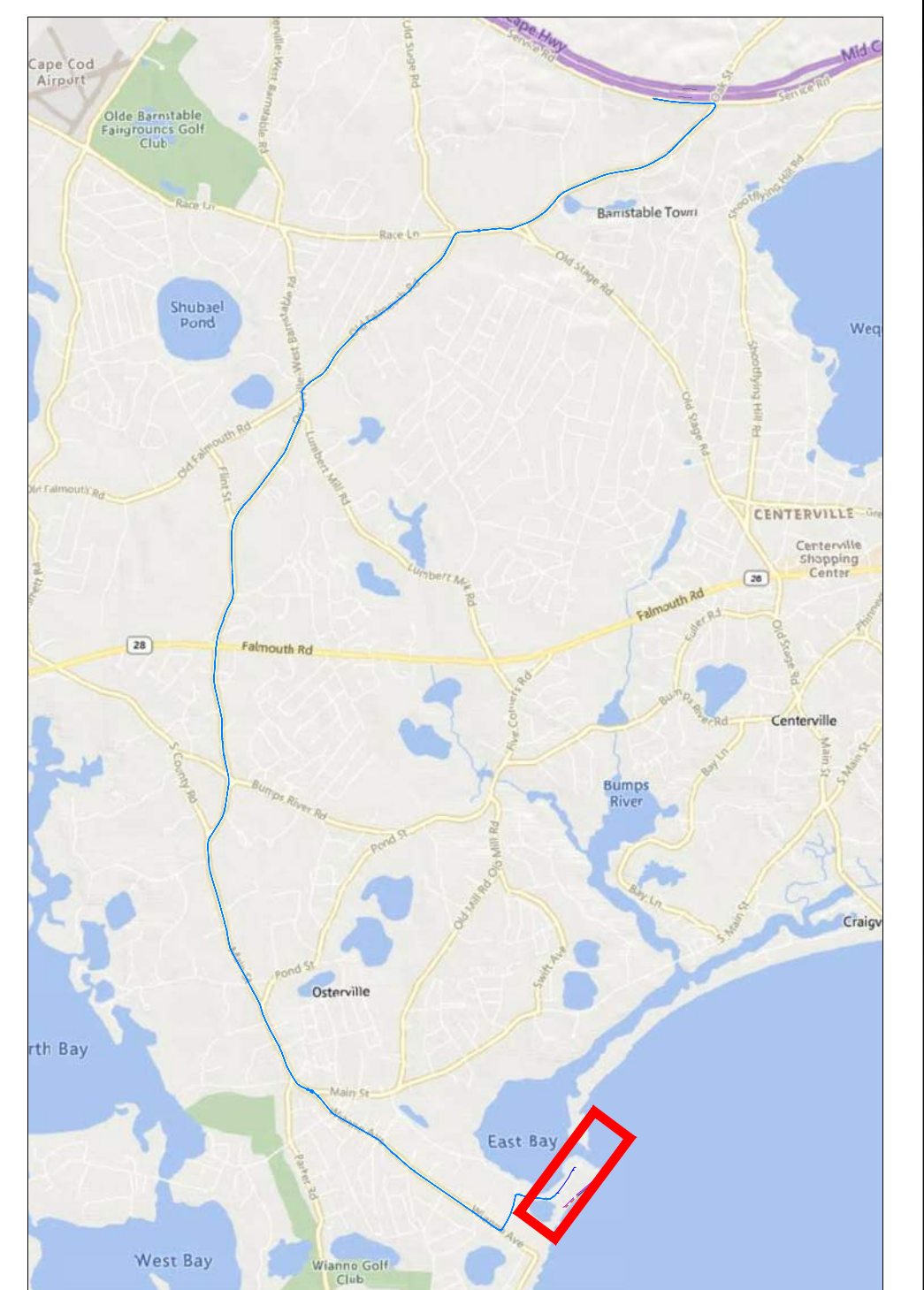
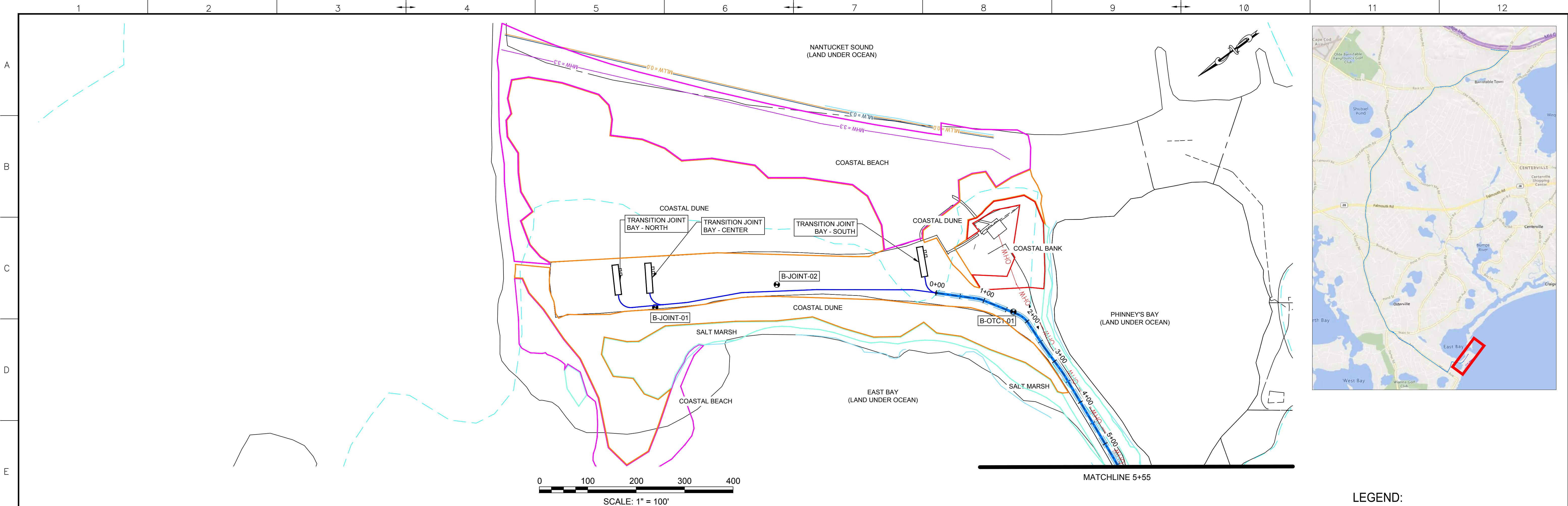
DOC ID:
 CWW-OCF-STC-DW-0001

SHEET 3 OF 33 **DWG. NO. SHEET - 3** **SCALE AS SHOWN** **FORMAT/SIZE ANSI D** **REV. F**

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- LEGEND:**
- PROPOSED 275KV DUCT BANK
 - PROPOSED TRENCH EXTENTS
 - PROPOSED SPLICE VAULT
 - EASEMENT
 - ROAD RIGHT-OF-WAY
 - OVERHEAD ELECTRIC
 - EXISTING GAS
 - EXISTING DRAIN
 - EXISTING WATER
 - MASSDEP GIS WETLAND AREAS - DUNE
 - MASSDEP GIS WETLAND AREAS - MARSH
 - MASSDEP 100K PONDS AND STREAMS
 - SURVEY DELINEATED WETLAND BOUNDARY
 - SURVEY DELINEATED WETLAND - BANK
 - SURVEY DELINEATED WETLAND - DUNE
 - SURVEY DELINEATED WETLAND - SALT MARSH
 - SURVEY DELINEATED WETLAND - COASTAL BEACH
 - FLOOD ZONE EXTENTS
 - BOREHOLE LOCATIONS

REV	DATE	REVISION DESCRIPTION	STATUS	DRAWN	CHKD	APPROV
F	2023-06-28	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
E	2023-05-03	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
D	2023-03-31	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
C	2023-02-10	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
B	2022-09-28	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
A	2022-08-05	ISSUED FOR CLIENT REVIEW	IFCR	RN/DM	JDT	KEF

CONTRACTOR:

Stantec Consulting Services Inc.
400 Crown Colony Drive Suite 200
Quincy, MA U.S.A. 02169-0982

CLIENT:

125 High Street
Boston, MA 02110

PROJECT:

NEW ENGLAND WIND 2 CONNECTOR

TITLE:

ONSHORE 275KV DUCT BANK
275KV DUCT BANK - PLAN SHEET 1

DOCID:

CWW-OCF-STC-DW-0001

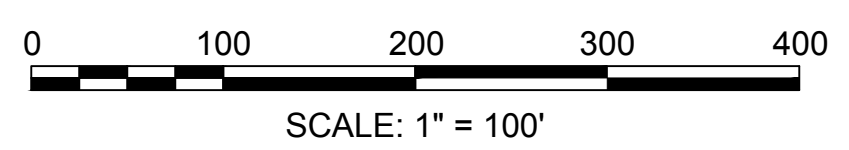
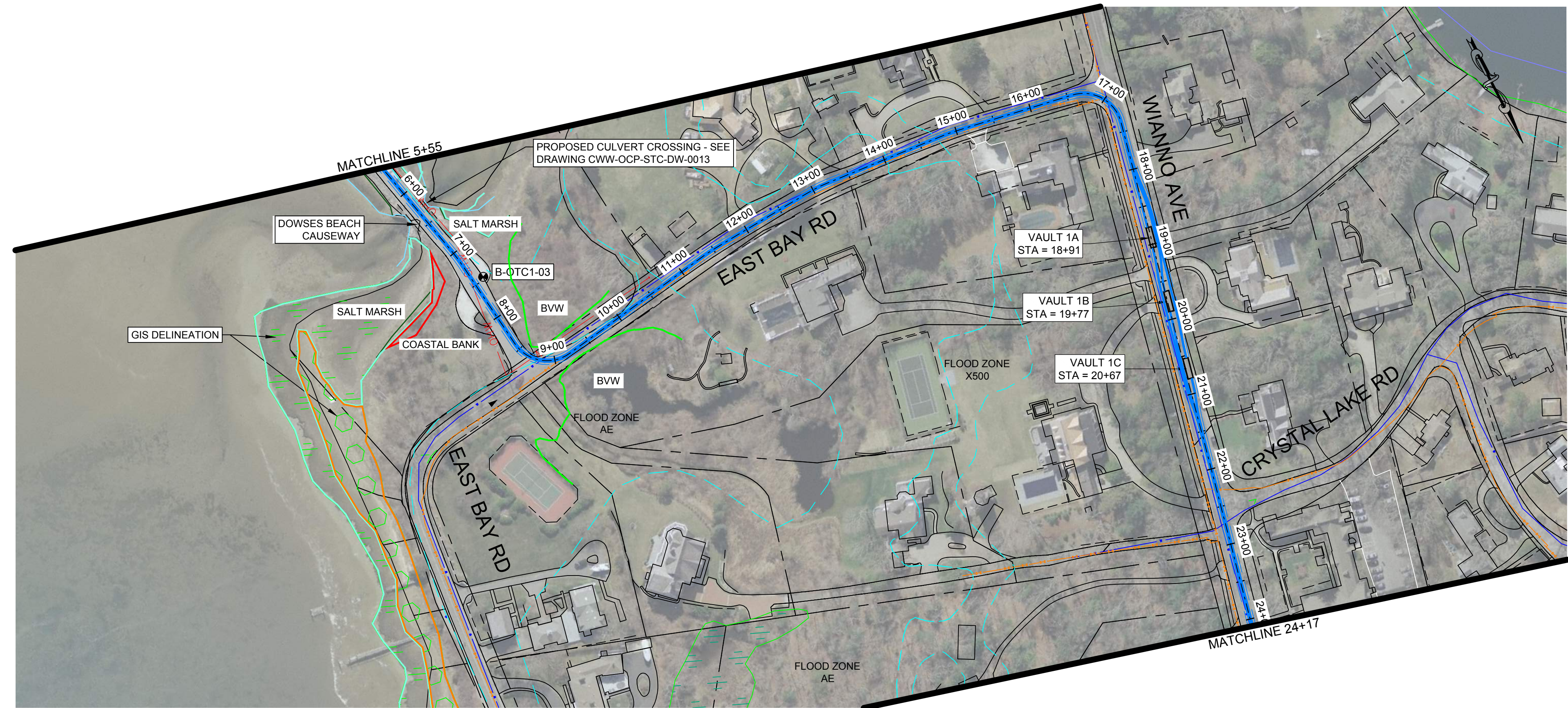
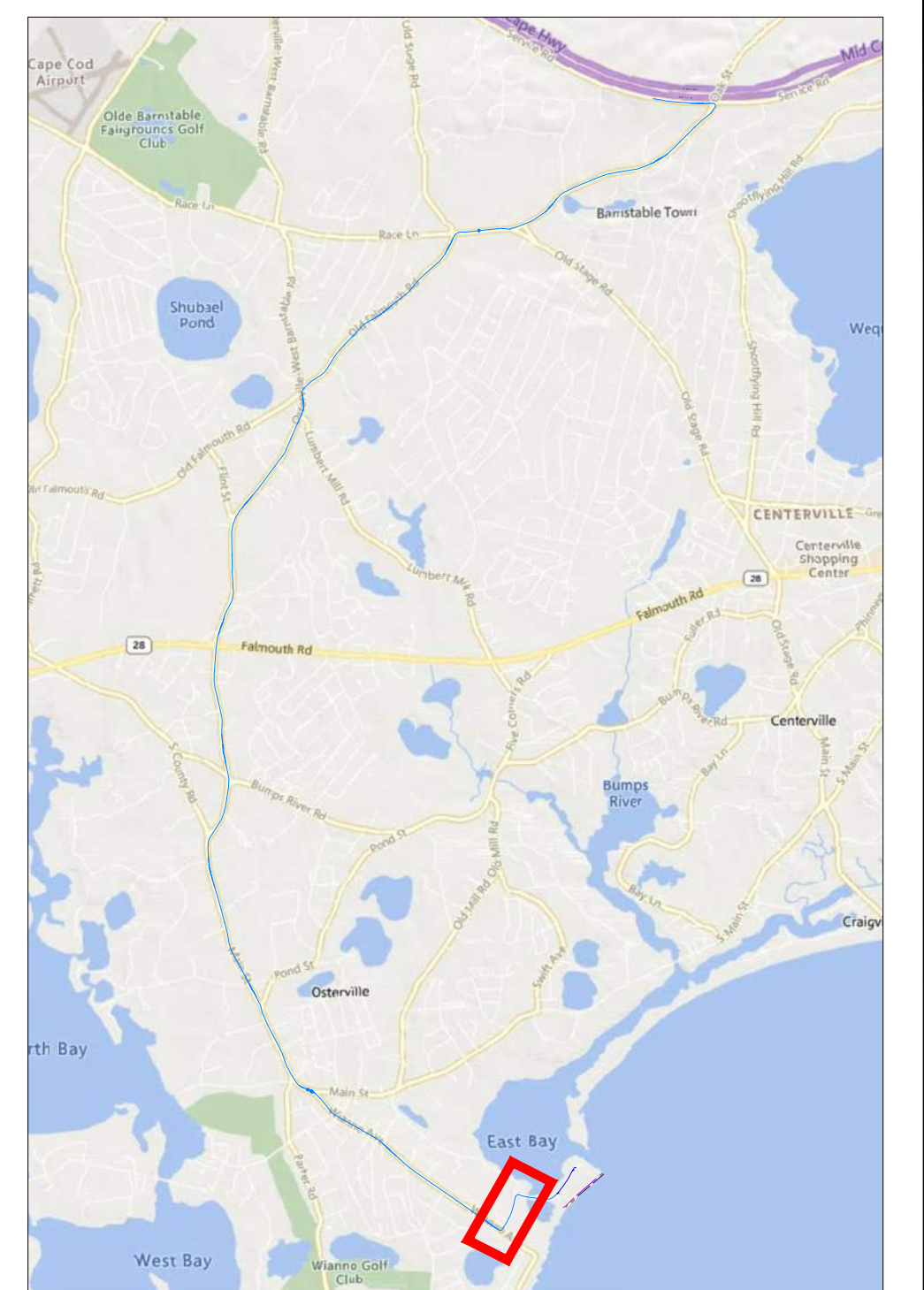
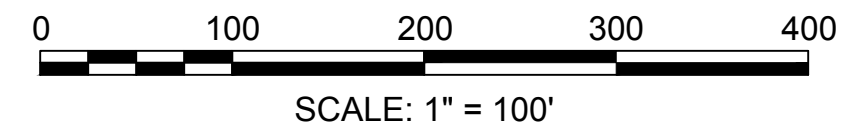
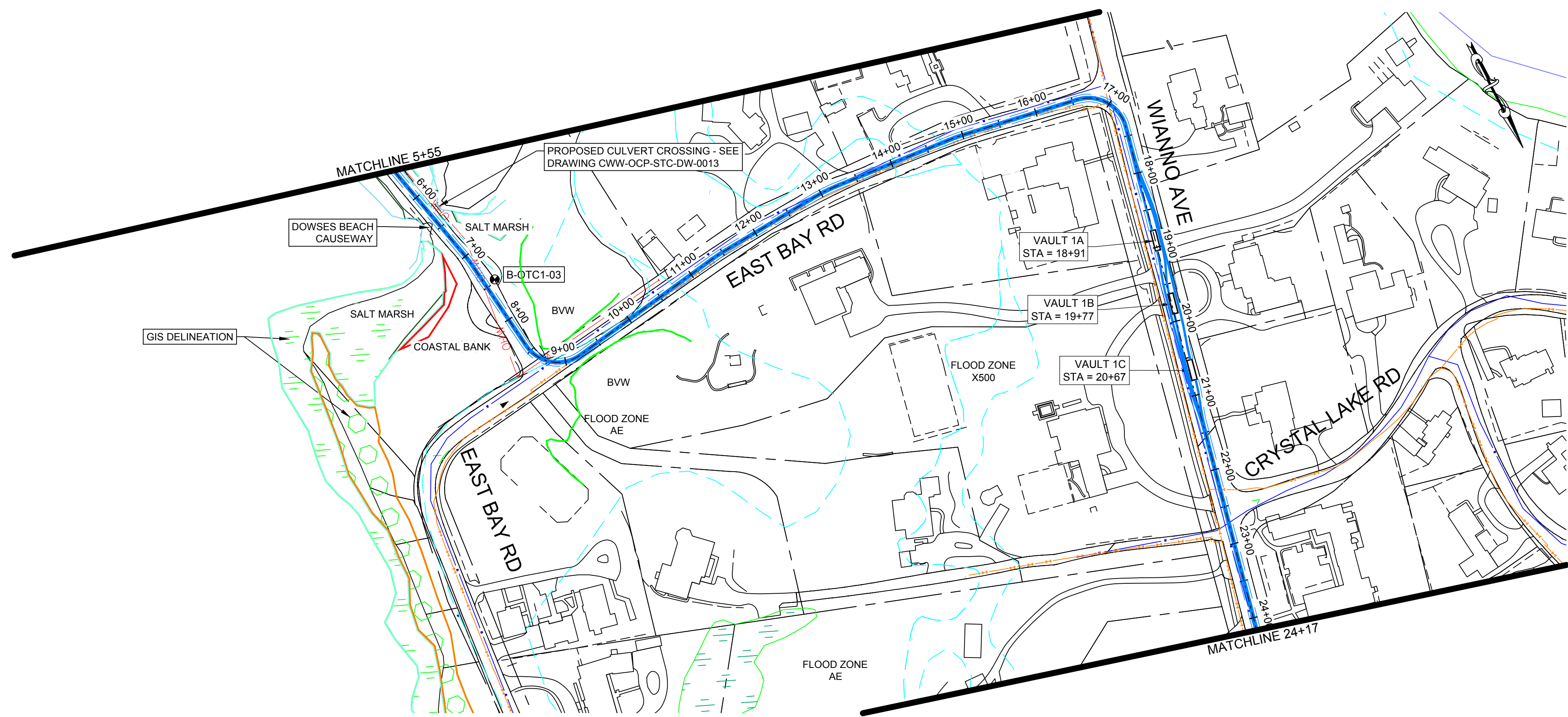
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OF 33	SHEET - 4	AS SHOWN	ANSI D	F

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- LEGEND:**
- PROPOSED 275kV DUCT BANK
 - PROPOSED TRENCH EXTENTS
 - PROPOSED SPICE VAULT
 - EASEMENT
 - ROAD RIGHT-OF-WAY
 - OVERHEAD ELECTRIC
 - EXISTING GAS
 - EXISTING DRAIN
 - EXISTING WATER
 - MASSDEP GIS WETLAND AREAS - DUNE
 - MASSDEP GIS WETLAND AREAS - MARSH
 - MASSDEP 100K PONDS AND STREAMS
 - SURVEY DELINEATED WETLAND BOUNDARY
 - SURVEY DELINEATED WETLAND - BANK
 - SURVEY DELINEATED WETLAND - DUNE
 - SURVEY DELINEATED WETLAND - SALT MARSH
 - SURVEY DELINEATED WETLAND - COASTAL BEACH
 - FLOOD ZONE EXTENTS
 - BOREHOLE LOCATIONS

REV.	DATE	REVISION DESCRIPTION	STATUS	DRAWN	CHKD	APPROV
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E	2023-05-03	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDJ	KEF
D	2023-03-31	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDJ	KEF
C	2023-02-10	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDJ	KEF
B	2022-09-28	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDJ	KEF
A	2022-08-05	ISSUED FOR CLIENT REVIEW	IFCR	RN/DM	JDJ	KEF

CONTRACTOR:

Stantec Consulting Services Inc.
400 Crown Colony Drive Suite 200
Quincy, MA U.S.A. 02169-0982

CLIENT:

125 High Street
Boston, MA 02110

PROJECT:
NEW ENGLAND WIND 2 CONNECTOR

TITLE:
ONSHORE 275kV DUCT BANK
275kV DUCT BANK - PLAN SHEET 2

DOCID:
CWW-OCF-STC-DW-0001

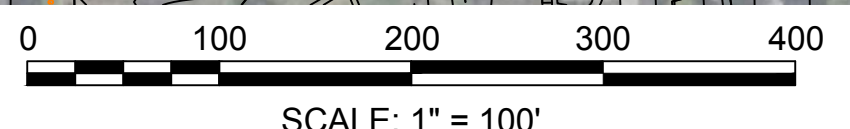
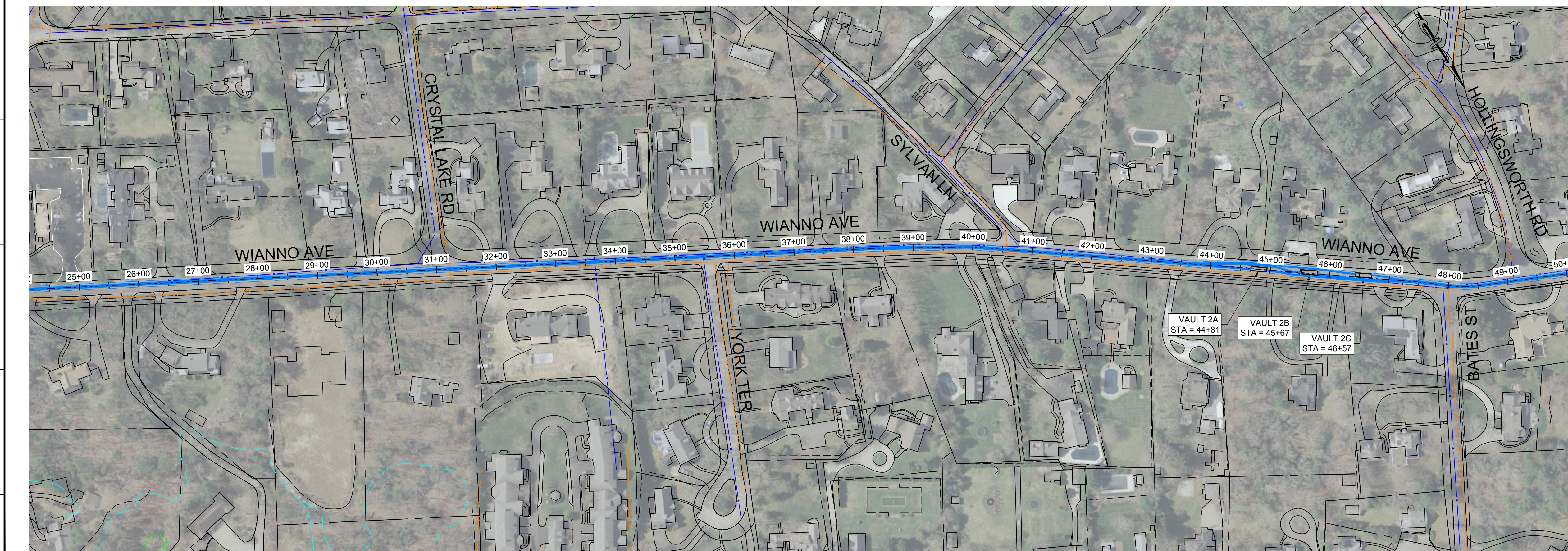
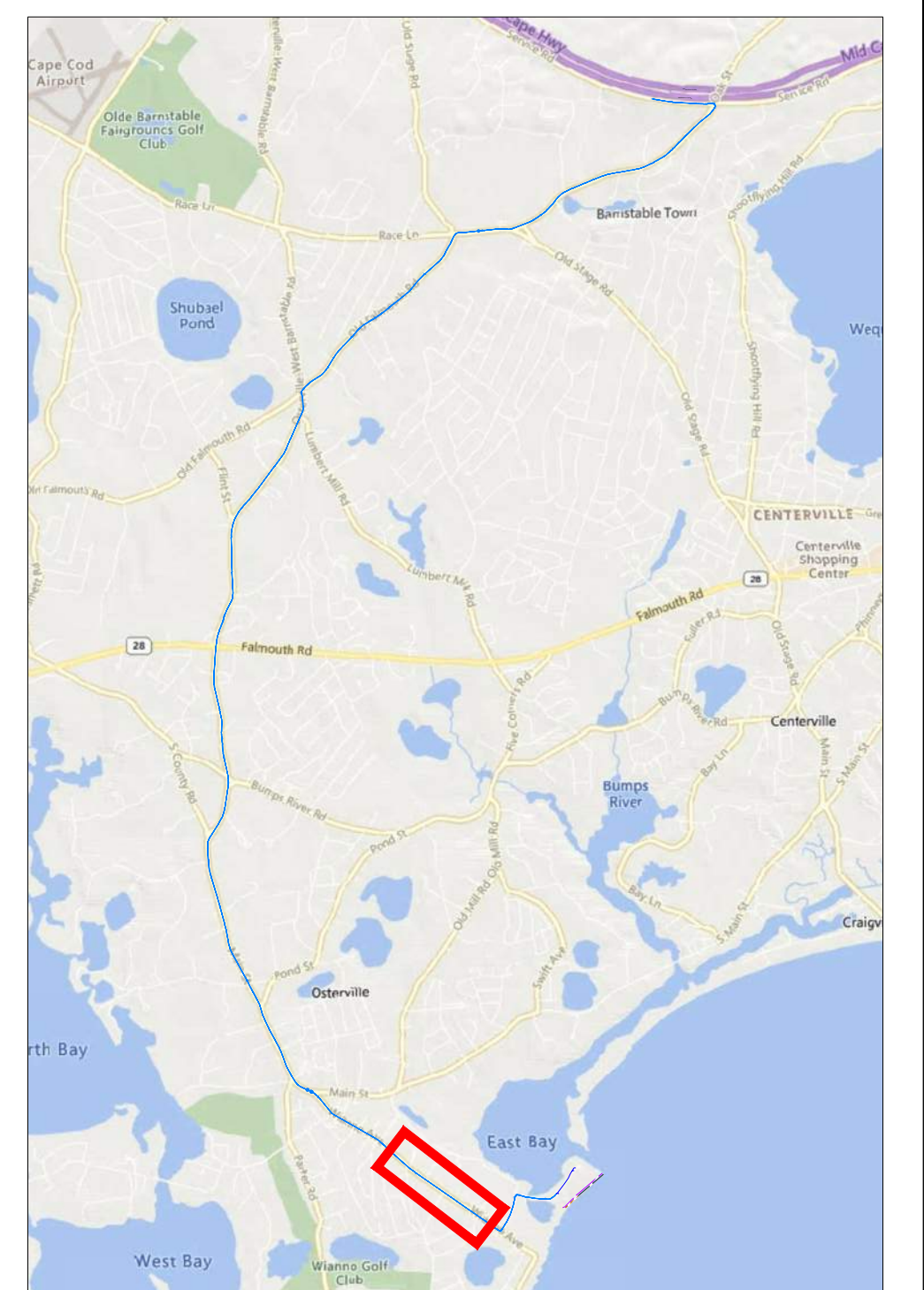
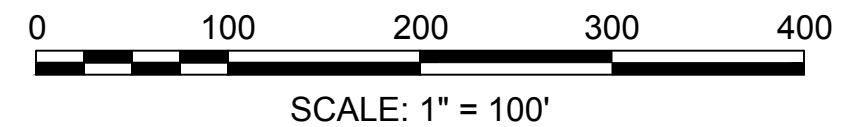
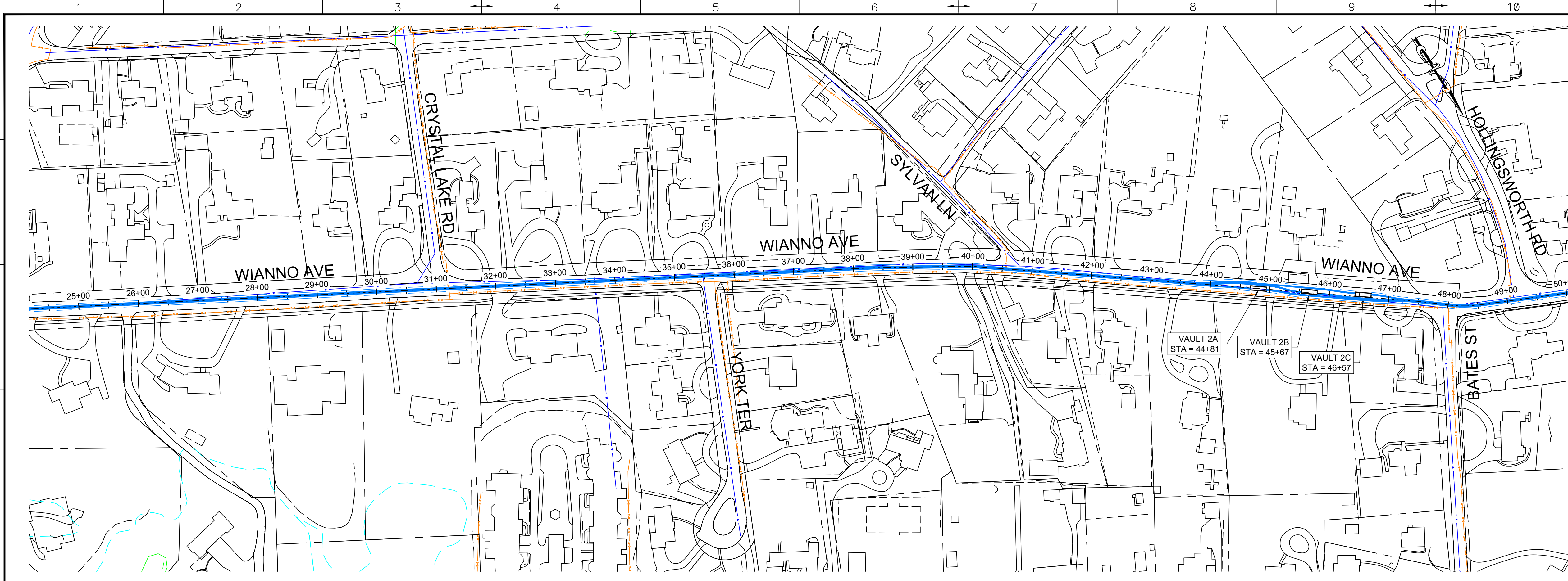
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5				
OF 33	SHEET - 5	AS SHOWN	ANSI D	F

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by: rathnagiri.robert



LEGEND:

- PROPOSED 275KV DUCT BANK
- PROPOSED TRENCH EXTENTS
- PROPOSED SPICE VAULT
- EASEMENT
- ROAD RIGHT-OF-WAY
- OVERHEAD ELECTRIC
- EXISTING GAS
- EXISTING DRAIN
- EXISTING WATER
- MASSDEP GIS WETLAND AREAS - DUNE
- MASSDEP GIS WETLAND AREAS - MARSH
- MASSDEP 100K PONDS AND STREAMS
- SURVEY DELINEATED WETLAND BOUNDARY
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- SURVEY DELINEATED WETLAND - DUNE
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- SURVEY DELINEATED WETLAND - COASTAL BEACH
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- BOREHOLE LOCATIONS

REV	DATE	REVISION DESCRIPTION	STATUS	DRAWN	CHKD	APPRVD
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B	2022-09-28	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDT	KEF
A	2022-08-05	ISSUED FOR CLIENT REVIEW	IFCR	RN/DM	JDT	KEF

CONTRACTOR:

Stantec Consulting Services Inc.
400 Crown Colony Drive Suite 200
Quincy, MA U.S.A. 02169-0982

CLIENT:

125 High Street
Boston, MA 02110

PROJECT: NEW ENGLAND WIND 2 CONNECTOR

TITLE: ONSHORE 275KV DUCT BANK
275KV DUCT BANK - PLAN SHEET 3

DOCID: CWW-OC-PTC-DW-0001

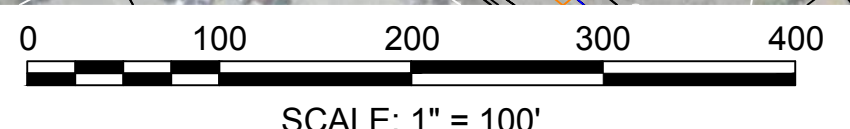
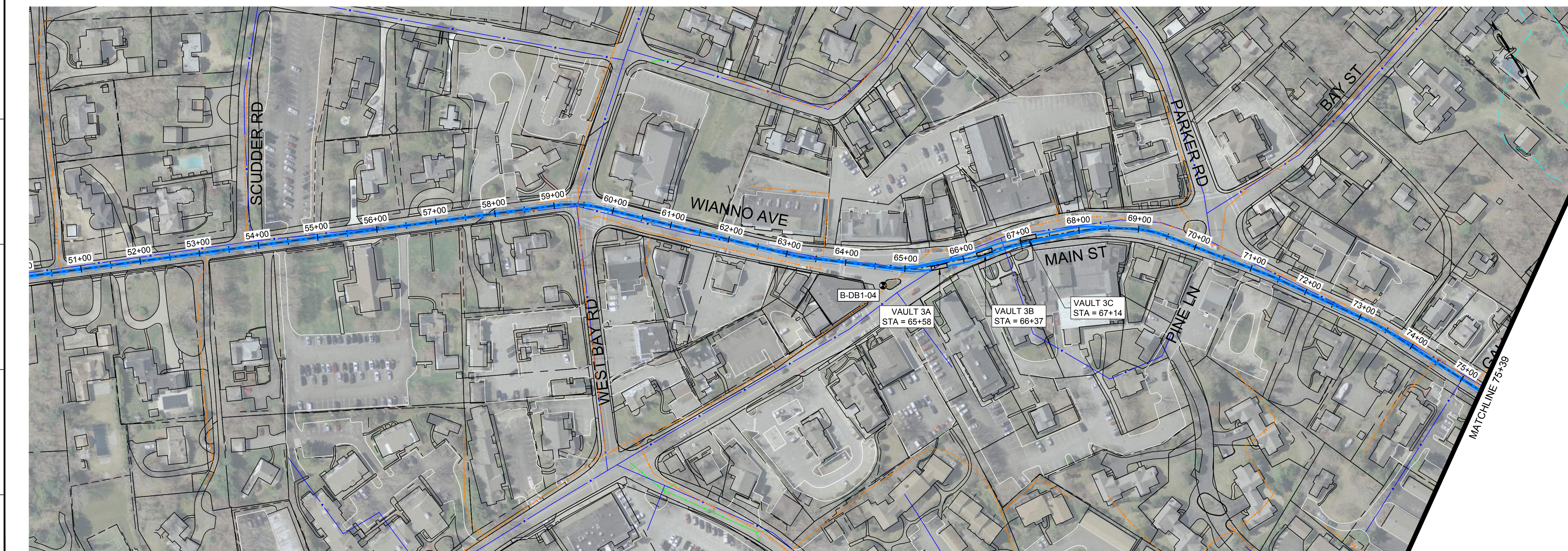
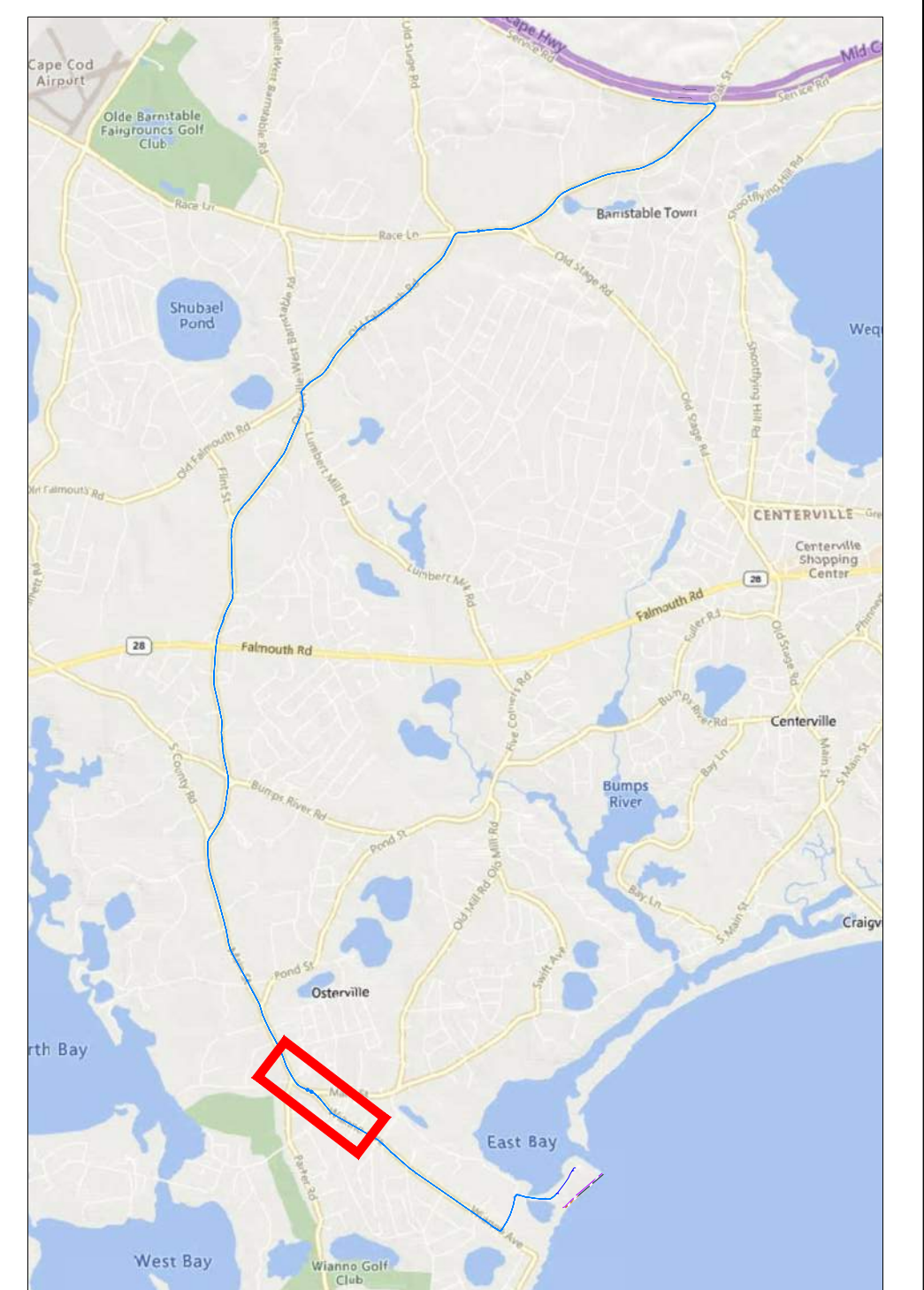
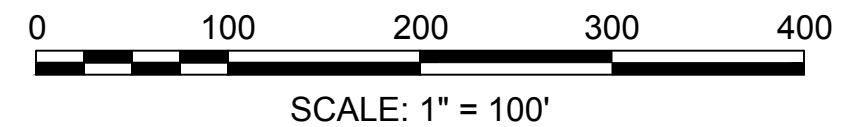
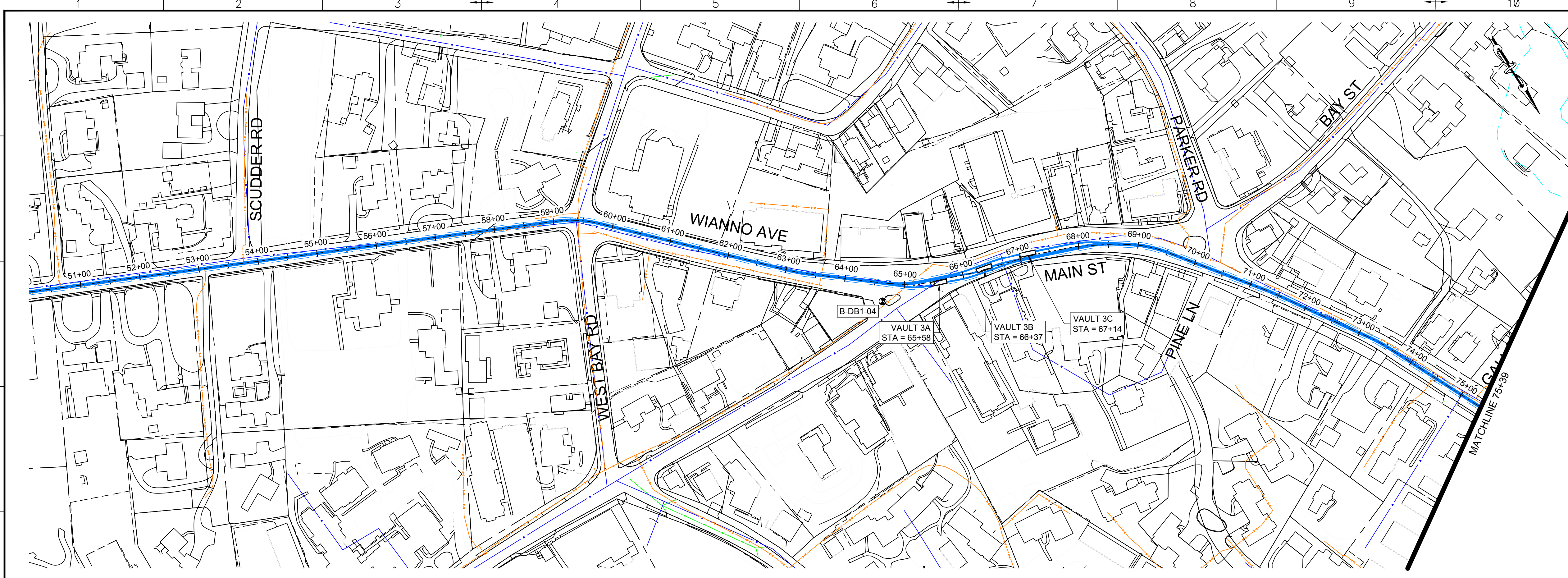
SHEET	DWG. NO.	SCALE	FORMAT/SIZE	REV.
6				
OF 33	SHEET - 6	AS SHOWN	ANSI D	F

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- LEGEND:**
- PROPOSED 275KV DUCT BANK
 - PROPOSED TRENCH EXTENTS
 - PROPOSED SPLICE VAULT
 - EASEMENT
 - ROAD RIGHT-OF-WAY
 - OVERHEAD ELECTRIC
 - EXISTING GAS
 - EXISTING DRAIN
 - EXISTING WATER
 - MASSDEP GIS WETLAND AREAS - DUNE
 - MASSDEP GIS WETLAND AREAS - MARSH
 - MASSDEP 100K PONDS AND STREAMS
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 - SURVEY DELINEATED WETLAND - DUNE
 - SURVEY DELINEATED WETLAND - SALT MARSH
 - SURVEY DELINEATED WETLAND - COASTAL BEACH
 - FLOOD ZONE EXTENTS
 - BOREHOLE LOCATIONS

REV	DATE	REVISION DESCRIPTION	STATUS	DRAWN	CHKD	APPROV
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CONTRACTOR:

Stantec Consulting Services Inc.
400 Crown Colony Drive Suite 200
Quincy, MA U.S.A. 02169-0982

CLIENT:

125 High Street
Boston, MA 02110

PROJECT:

NEW ENGLAND WIND 2 CONNECTOR

TITLE:

ONSHORE 275KV DUCT BANK
275KV DUCT BANK - PLAN SHEET 4

DOCID:

CWW-OC-PTC-DW-0001

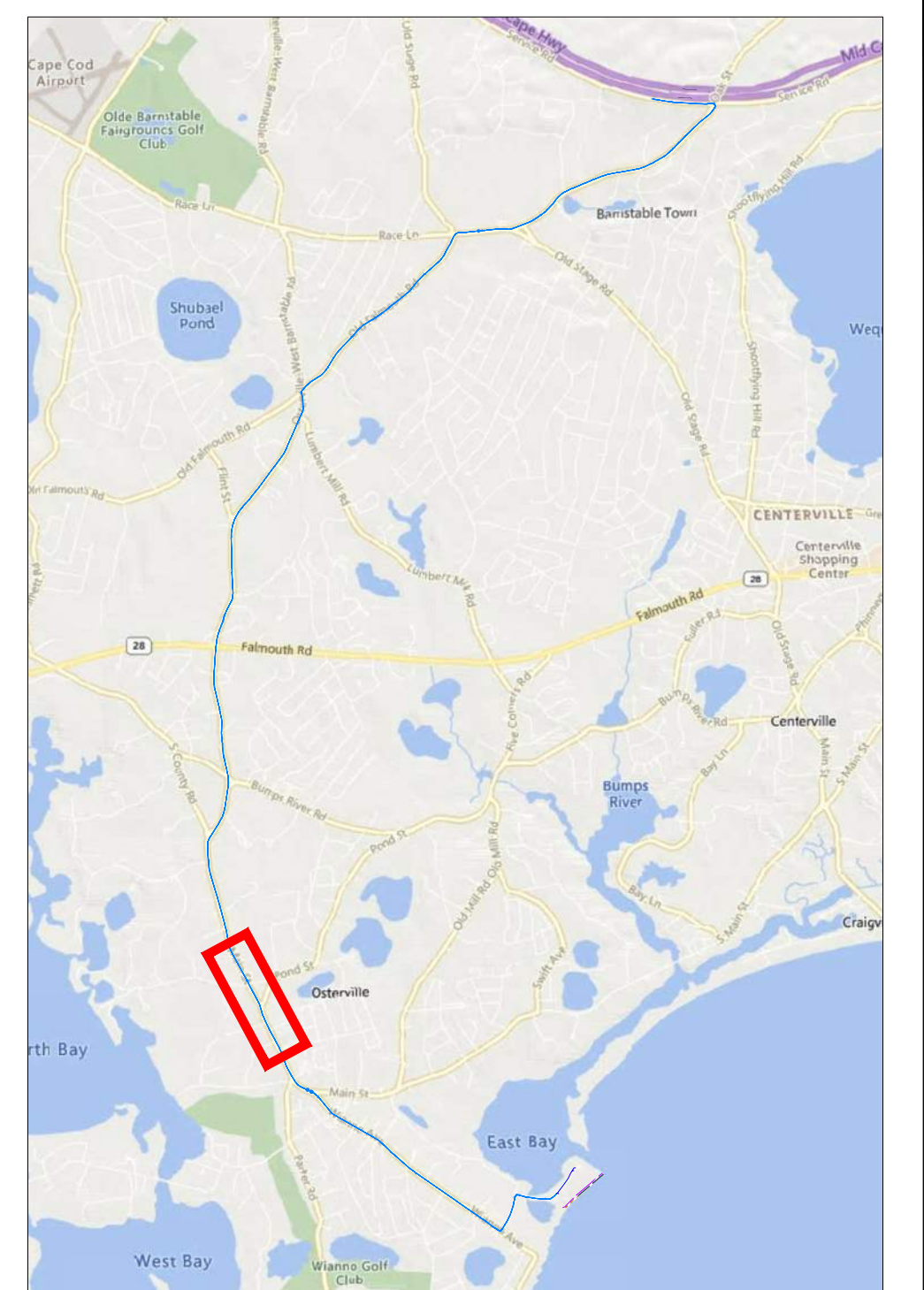
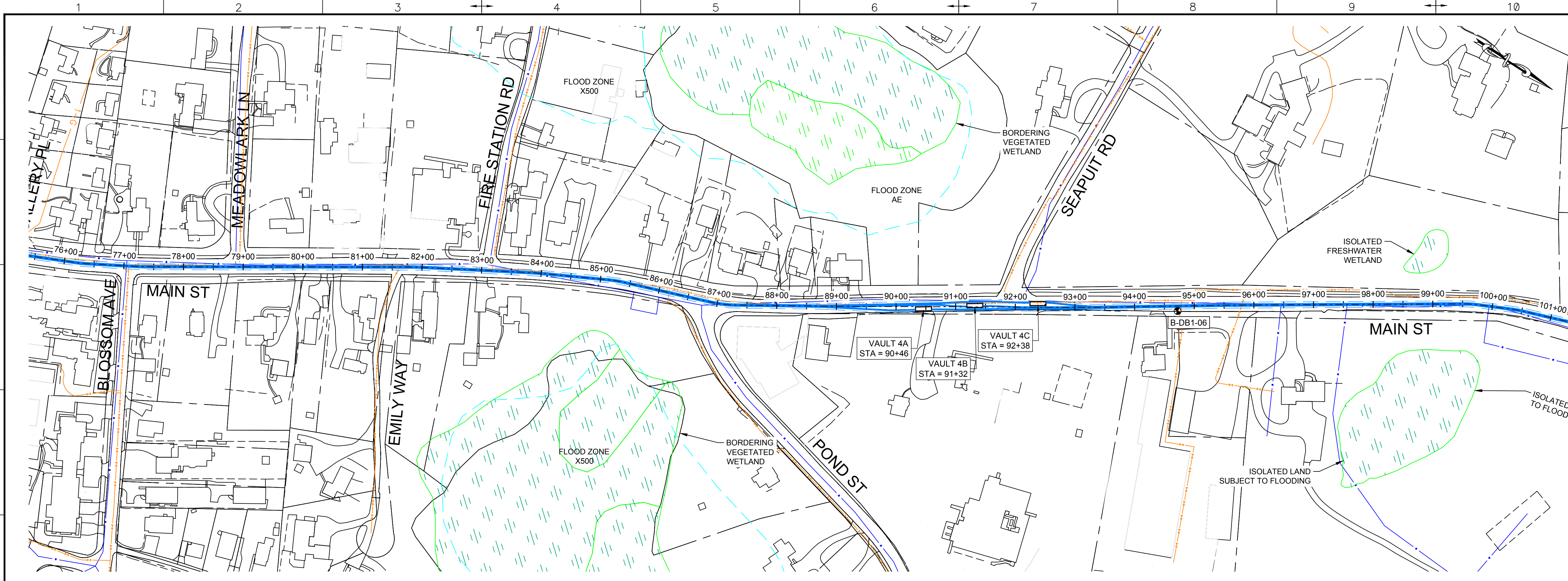
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OF 33	SHEET - 7	AS SHOWN	ANSI D	F

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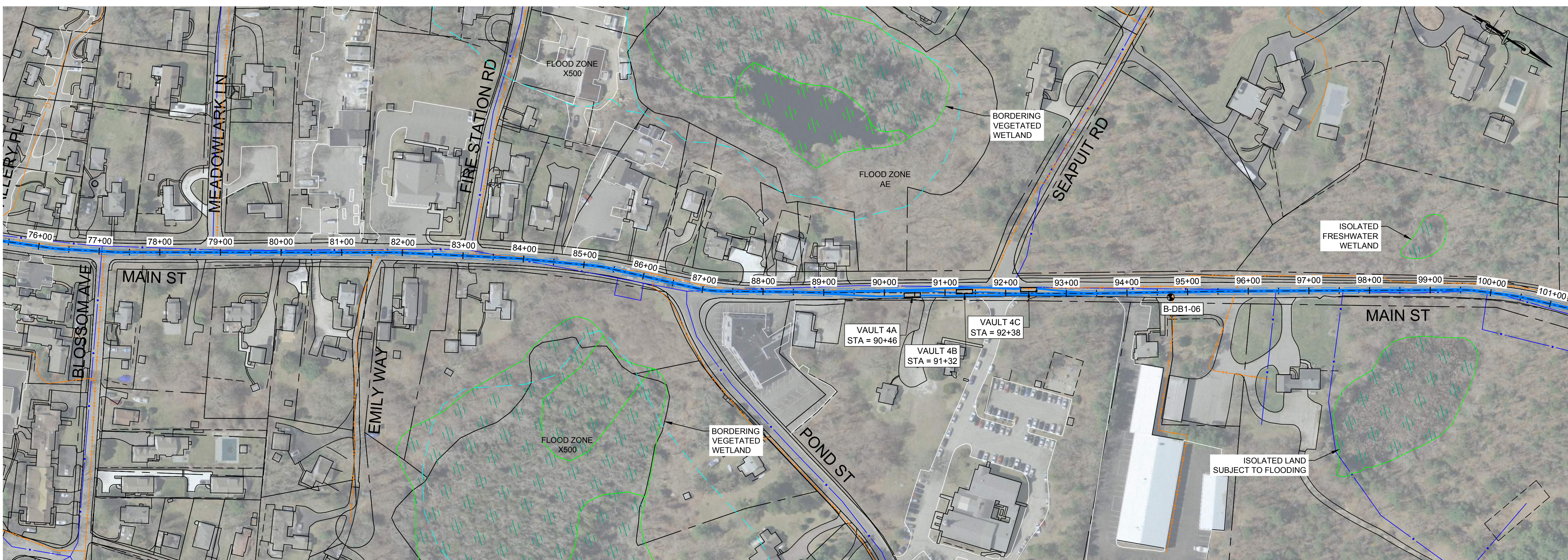
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- LEGEND:**
- PROPOSED 275KV DUCT BANK
 - PROPOSED TRENCH EXTENTS
 - PROPOSED SPLICE VAULT
 - EASEMENT
 - ROAD RIGHT-OF-WAY
 - OVERHEAD ELECTRIC
 - EXISTING GAS
 - EXISTING DRAIN
 - EXISTING WATER
 - MASSDEP GIS WETLAND AREAS - DUNE
 - MASSDEP GIS WETLAND AREAS - MARSH
 - MASSDEP 100K PONDS AND STREAMS
 - SURVEY DELINEATED WETLAND BOUNDARY
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 - SURVEY DELINEATED WETLAND - DUNE
 - SURVEY DELINEATED WETLAND - SALT MARSH
 - SURVEY DELINEATED WETLAND - COASTAL BEACH
 - FLOOD ZONE EXTENTS
 - BOREHOLE LOCATIONS



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A	2022-08-05	ISSUED FOR CLIENT REVIEW	IFCR	RN/DM	JDT	KEF

CONTRACTOR: **Stantec**
 Stantec Consulting Services Inc.
 400 Crown Colony Drive Suite 200
 Quincy, MA U.S.A. 02169-0982

CLIENT: **AVANGRID** / **Offshore Wind**
 125 High Street
 Boston, MA 02110

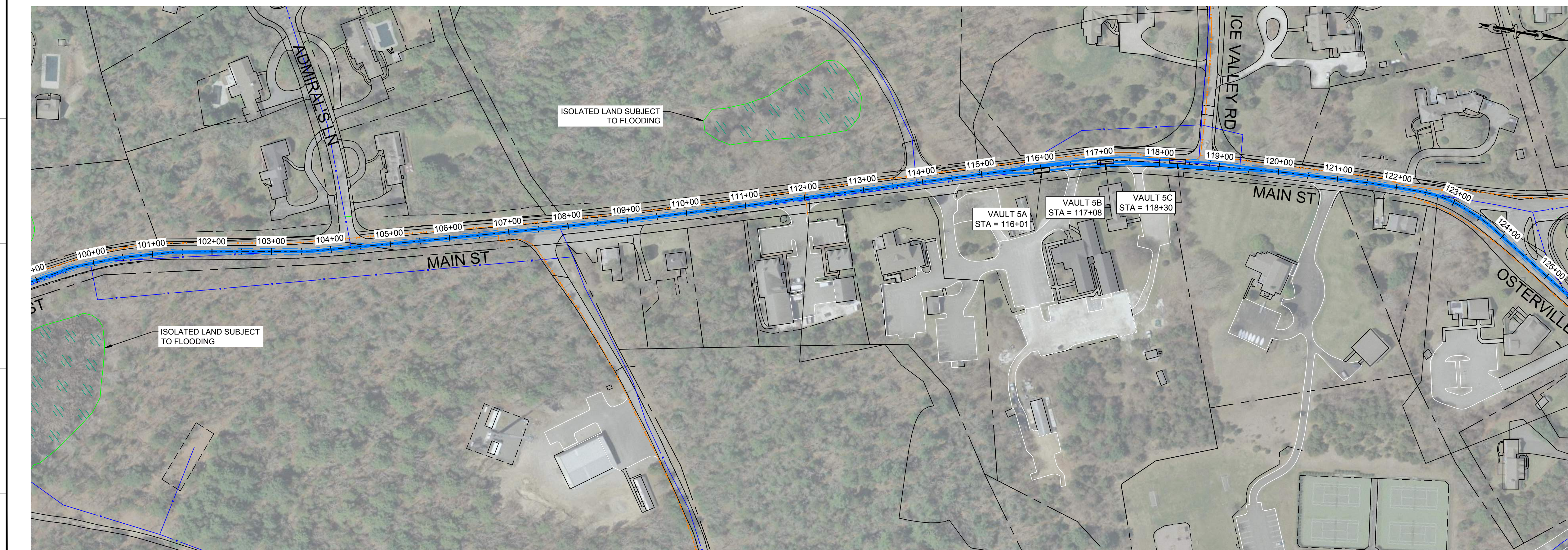
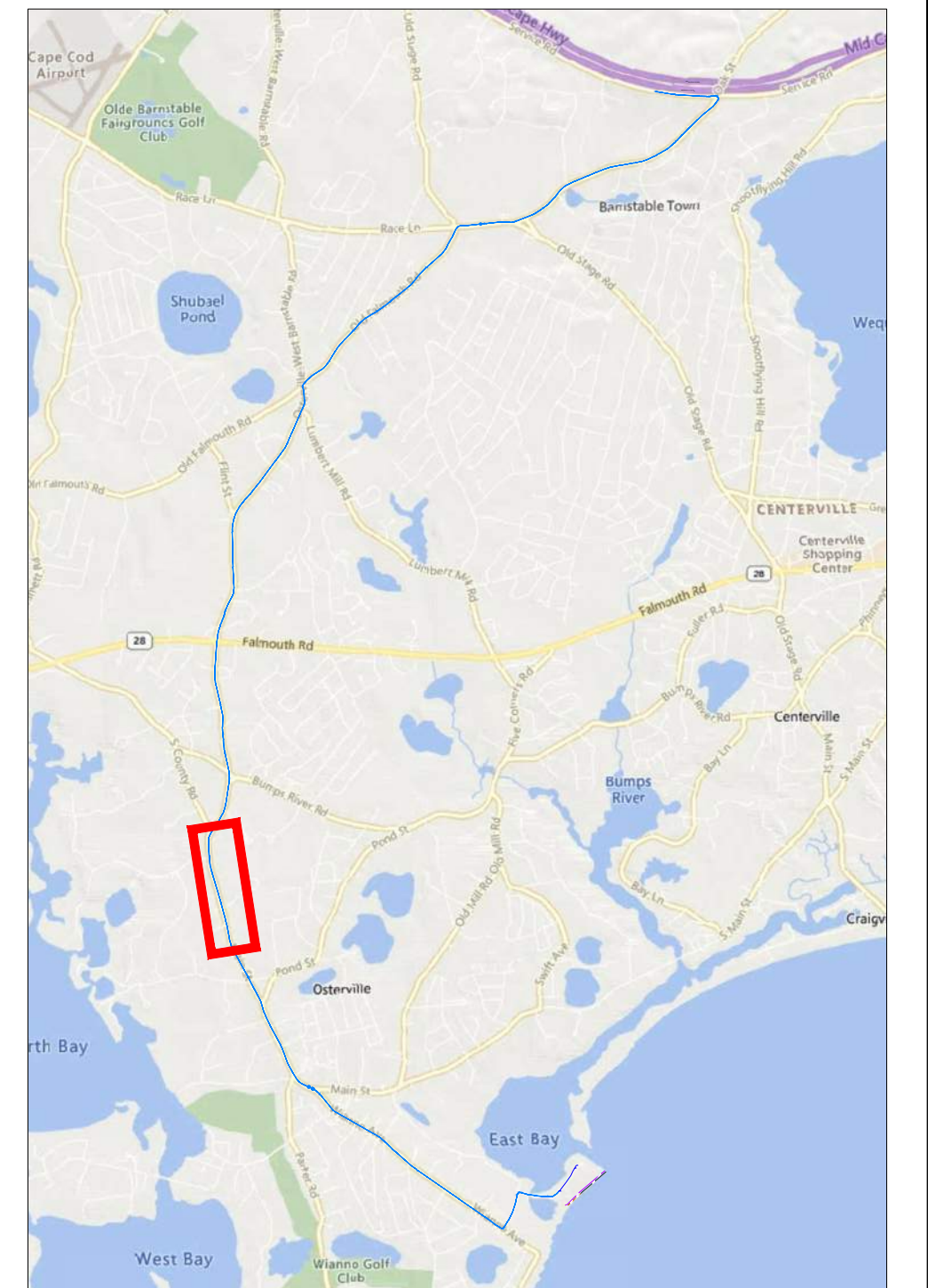
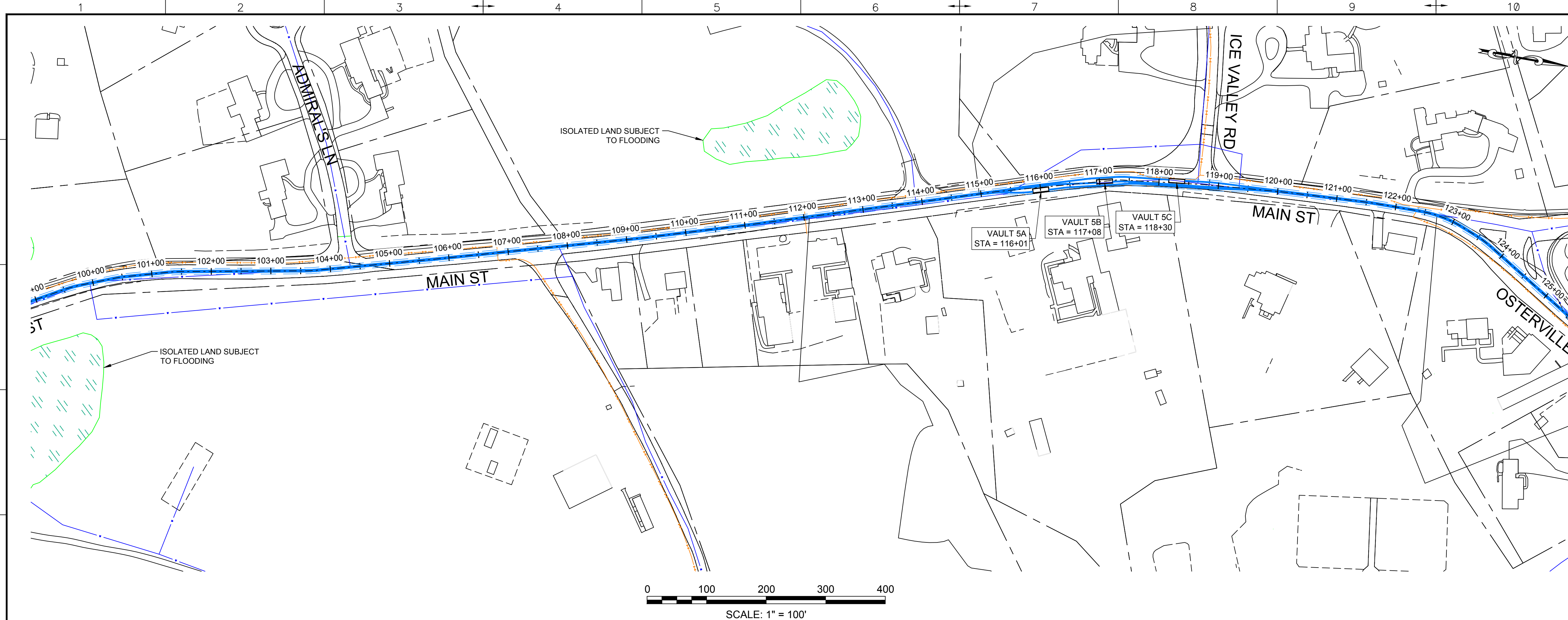
PROJECT: **NEW ENGLAND WIND 2 CONNECTOR**

TITLE: **ONSHORE 275KV DUCT BANK
 275KV DUCT BANK - PLAN SHEET 5**

DOCID: **CWW-OC-PTC-DW-0001**

SHEET 8 OF 33	DWG. NO. SHEET - 8	SCALE AS SHOWN	FORMAT/SIZE ANSI D	REV. F
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- LEGEND:**
- PROPOSED 275kV DUCT BANK
 - - - PROPOSED TRENCH EXTENTS
 - PROPOSED SPLICE VAULT
 - EASEMENT
 - ROAD RIGHT-OF-WAY
 - OVERHEAD ELECTRIC
 - EXISTING GAS
 - EXISTING DRAIN
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 - MASSDEP GIS WETLAND AREAS - DUNE
 - MASSDEP GIS WETLAND AREAS - MARSH
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 - SURVEY DELINEATED WETLAND BOUNDARY
 - SURVEY DELINEATED WETLAND - BANK
 - SURVEY DELINEATED WETLAND - DUNE
 - SURVEY DELINEATED WETLAND - SALT MARSH
 - SURVEY DELINEATED WETLAND - COASTAL BEACH
 - FLOOD ZONE EXTENTS
 - BOREHOLE LOCATIONS

REV	DATE	REVISION DESCRIPTION	STATUS	DRAWN	CHKD	APPROV
F	2023-06-28	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDT	KEF
E	2023-05-03	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDT	KEF
D	2023-03-31	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDT	KEF
C	2023-02-10	ISSUED FOR STATE PERMITTING	IFI	RN/DM	JDT	KEF
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A	2022-08-05	ISSUED FOR CLIENT REVIEW	IFCR	RN/DM	JDT	KEF

CONTRACTOR: **Stantec**
 Stantec Consulting Services Inc.
 400 Crown Colony Drive Suite 200
 Quincy, MA U.S.A. 02169-0982

CLIENT: **AVANGRID** / **Offshore Wind**
 125 High Street
 Boston, MA 02110

PROJECT: **NEW ENGLAND WIND 2 CONNECTOR**

TITLE: **ONSHORE 275kV DUCT BANK
 275kV DUCT BANK - PLAN SHEET 6**

DOCID: **CWW-OCF-STC-DW-0001**

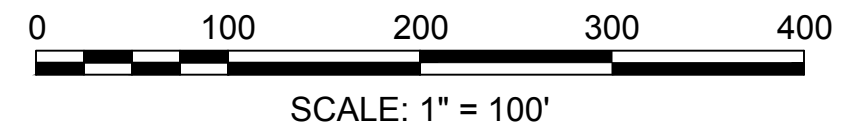
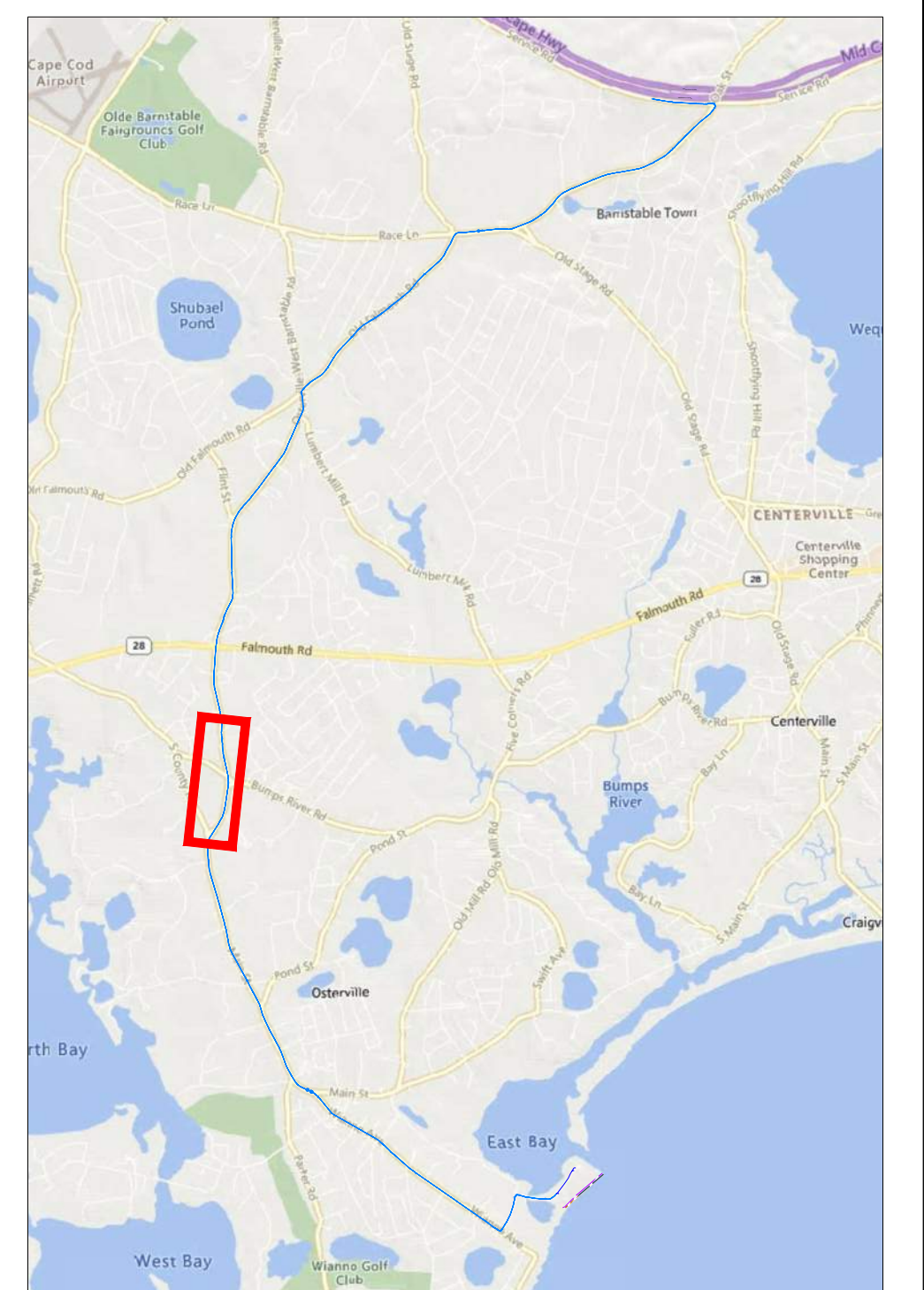
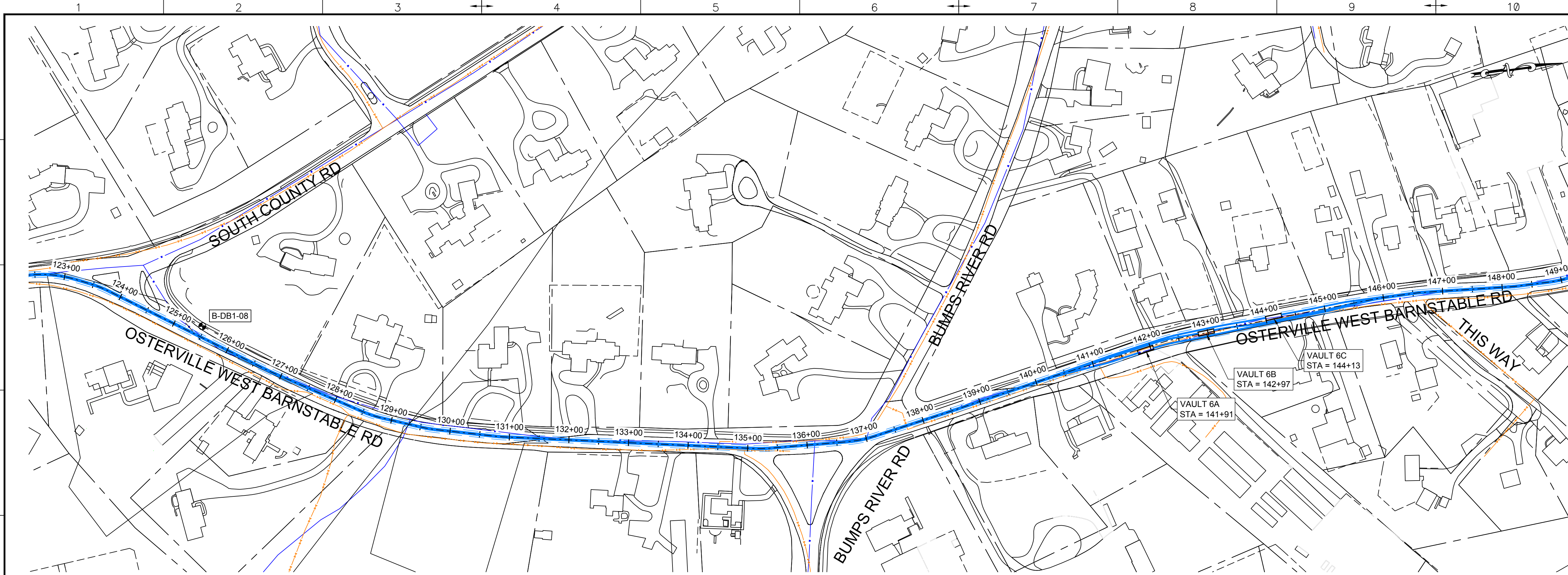
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OF 33	SHEET - 9	AS SHOWN	ANSI D	F

NOTE: ANY ABOVE AND BELOW GROUND UTILITY CONFLICTS TO BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY DURING FINAL DESIGN

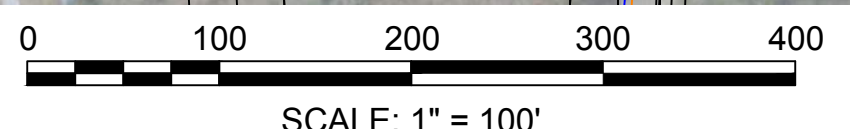
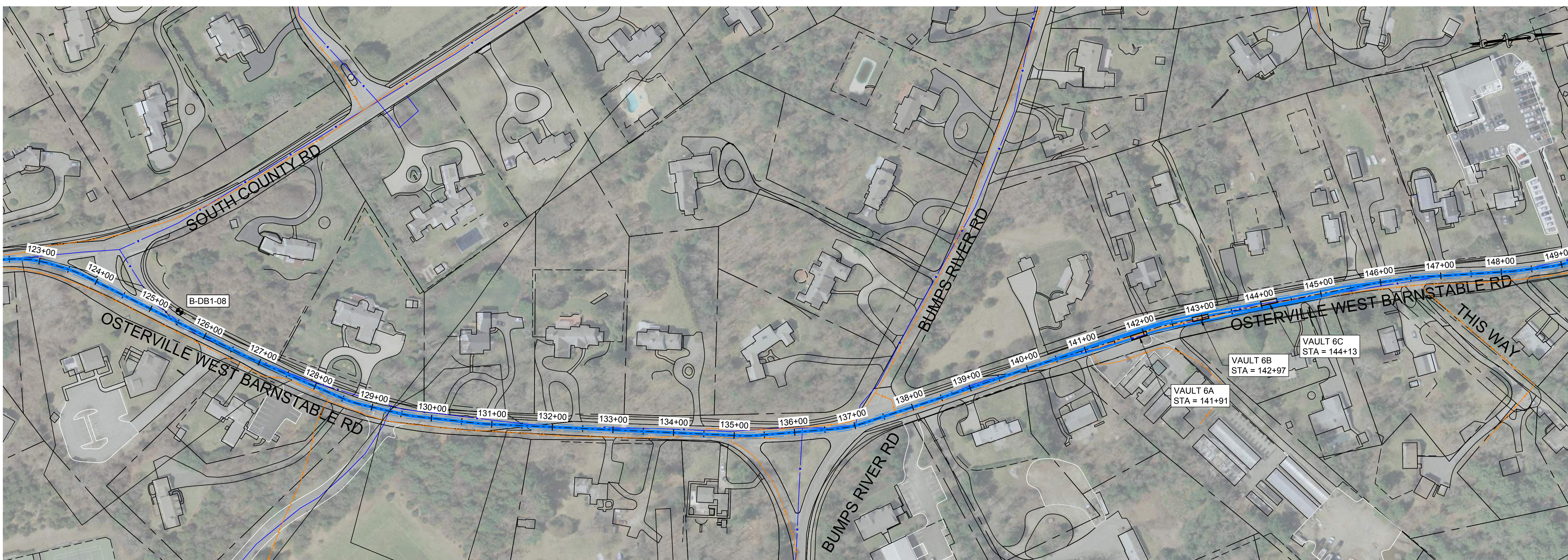
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 by: rathnagiri.robert



- LEGEND:**
- PROPOSED 275KV DUCT BANK
 - PROPOSED TRENCH EXTENTS
 - PROPOSED SPLICE VAULT
 - EASEMENT
 - ROAD RIGHT-OF-WAY
 - OVERHEAD ELECTRIC
 - EXISTING GAS
 - EXISTING DRAIN
 - EXISTING WATER
 - MASSDEP GIS WETLAND AREAS - DUNE
 - MASSDEP GIS WETLAND AREAS - MARSH
 - MASSDEP 100K PONDS AND STREAMS
 - SURVEY DELINEATED WETLAND BOUNDARY
 - SURVEY DELINEATED WETLAND - BANK
 - SURVEY DELINEATED WETLAND - DUNE
 - SURVEY DELINEATED WETLAND - SALT MARSH
 - SURVEY DELINEATED WETLAND - COASTAL BEACH
 - FLOOD ZONE EXTENTS
 - BOREHOLE LOCATIONS



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REV	DATE	REVISION DESCRIPTION	STATUS	DRAWN	CHKD	APPROV
F	2023-08-28	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
E	2023-05-03	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
D	2023-03-31	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
C	2023-02-10	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
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A	2022-08-05	ISSUED FOR CLIENT REVIEW	IFCR	RN/DM	JDT	KEF

CONTRACTOR: **Stantec**
 Stantec Consulting Services Inc.
 400 Crown Colony Drive Suite 200
 Quincy, MA U.S.A. 02169-0982

CLIENT: **AVANGRID** / **Offshore Wind**
 125 High Street
 Boston, MA 02110

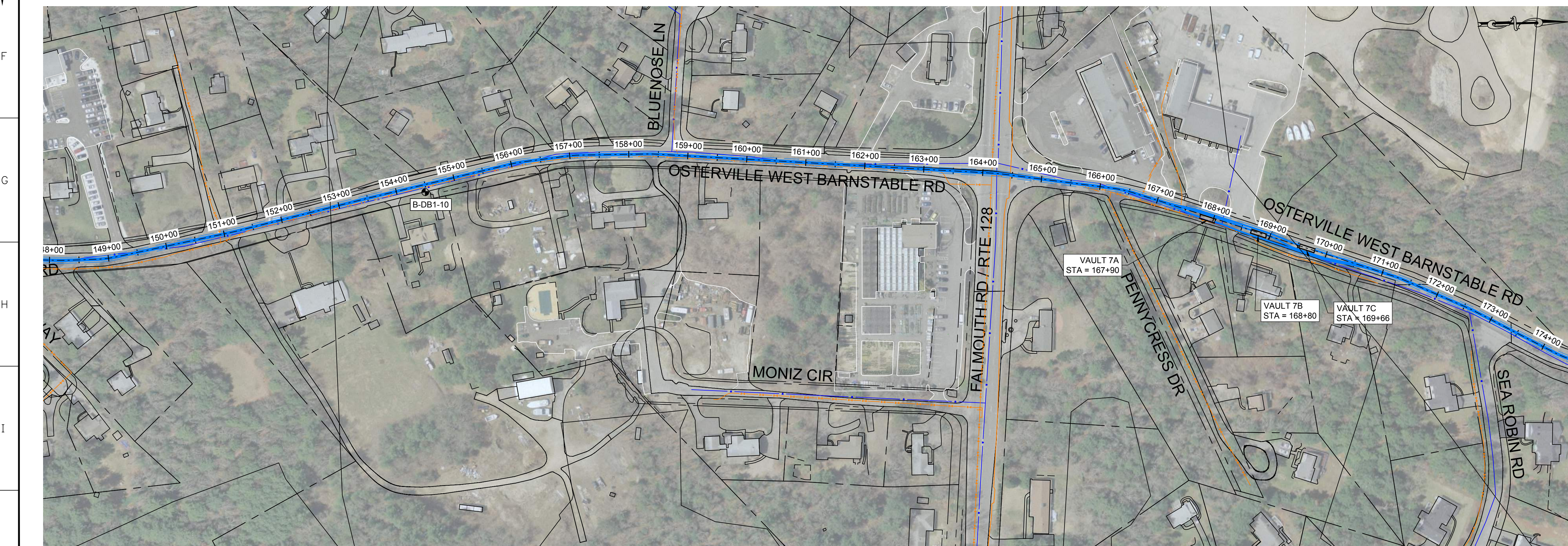
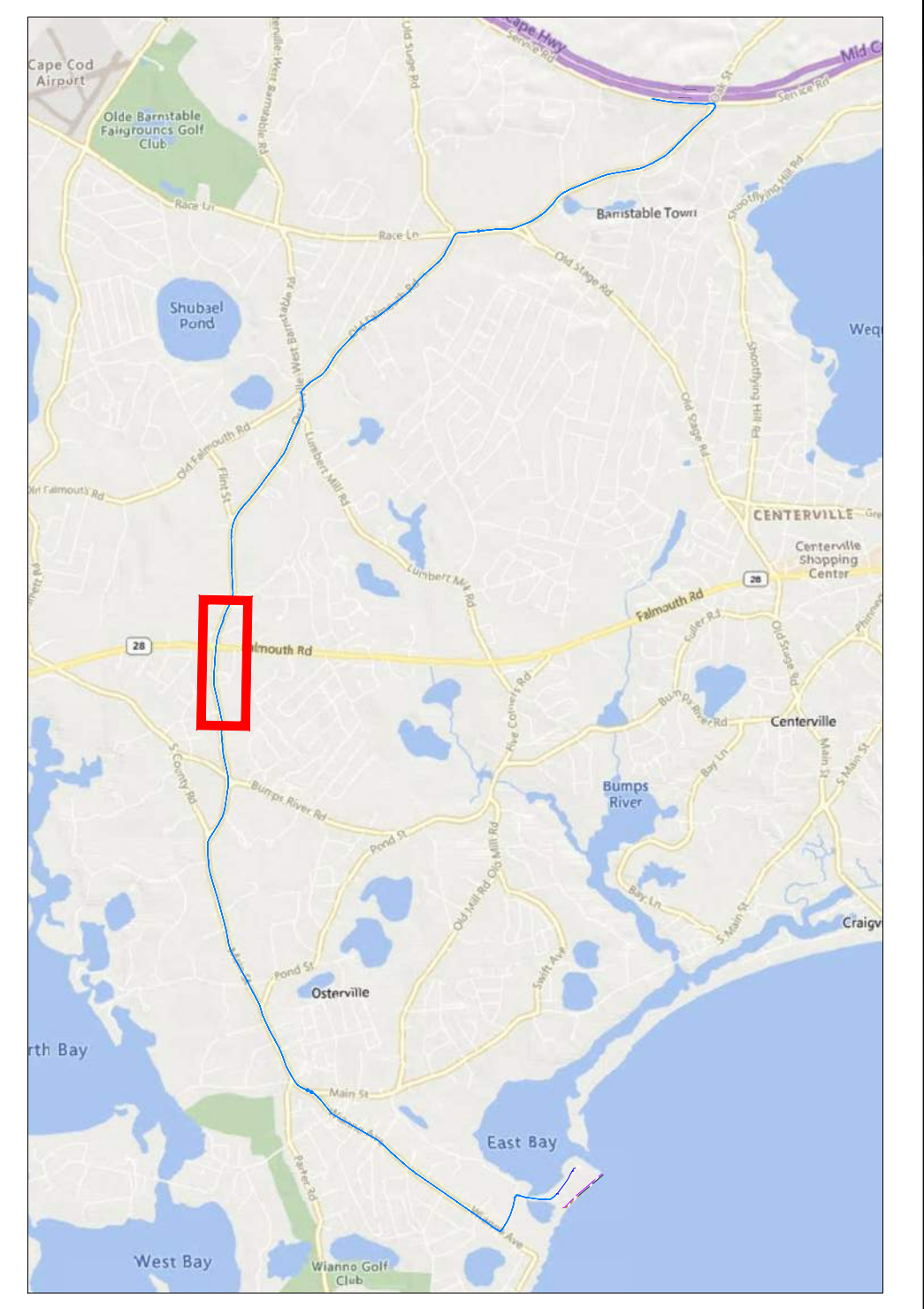
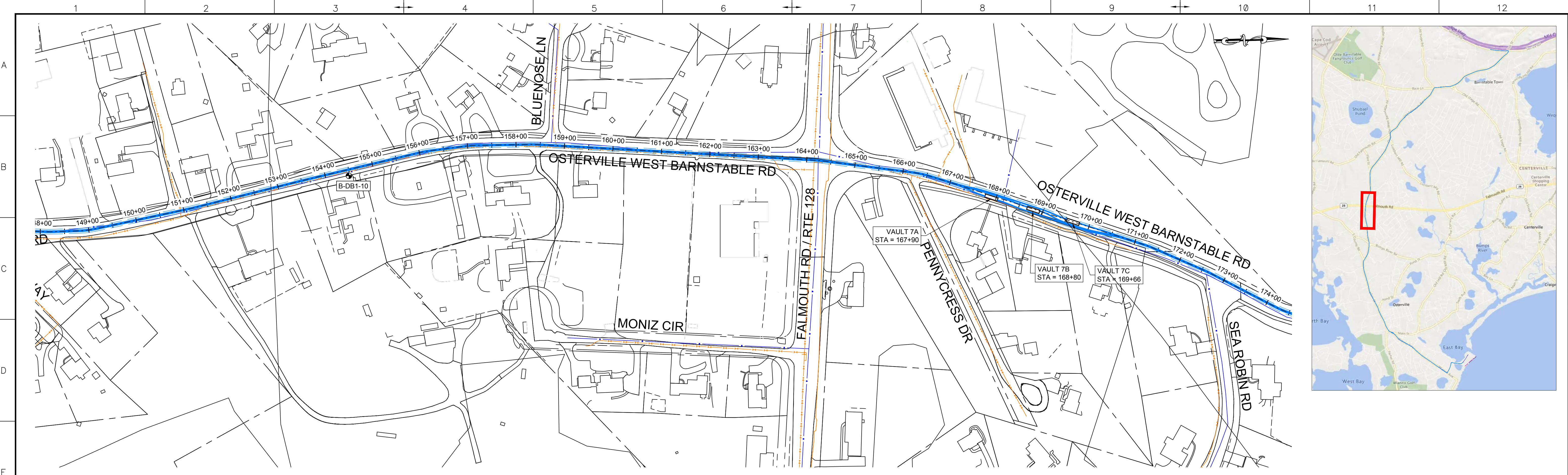
PROJECT: **NEW ENGLAND WIND 2 CONNECTOR**

TITLE: **ONSHORE 275KV DUCT BANK
 275KV DUCT BANK - PLAN SHEET 7**

DOCID: **CWW-OC-P-STC-DW-0001**

SHEET 10 OF 33	DWG. NO. SHEET - 10	SCALE AS SHOWN	FORMAT/SIZE ANSI D	REV. F
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 by: rrobart



- LEGEND:**
- PROPOSED 275KV DUCT BANK
 - PROPOSED TRENCH EXTENTS
 - PROPOSED SPlice VAULT
 - EASEMENT
 - ROAD RIGHT-OF-WAY
 - OVERHEAD ELECTRIC
 - EXISTING GAS
 - EXISTING DRAIN
 - EXISTING WATER
 - MASSDEP GIS WETLAND AREAS - DUNE
 - MASSDEP GIS WETLAND AREAS - MARSH
 - MASSDEP 100K PONDS AND STREAMS
 - SURVEY DELINEATED WETLAND BOUNDARY
 - SURVEY DELINEATED WETLAND - BANK
 - SURVEY DELINEATED WETLAND - DUNE
 - SURVEY DELINEATED WETLAND - SALT MARSH
 - SURVEY DELINEATED WETLAND - COASTAL BEACH
 - FLOOD ZONE EXTENTS
 - BOREHOLE LOCATIONS

REV	DATE	REVISION DESCRIPTION	STATUS	DRAWN	CHKD	APPROV
F	2023-08-28	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
E	2023-05-03	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
D	2023-03-31	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
C	2023-02-10	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
B	2022-09-28	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
A	2022-08-05	ISSUED FOR CLIENT REVIEW	IFCR	RN/DM	JDT	KEF

CONTRACTOR:

 Stantec Consulting Services Inc.
 400 Crown Colony Drive Suite 200
 Quincy, MA U.S.A. 02169-0982

CLIENT:

 125 High Street
 Boston, MA 02110

PROJECT:
 NEW ENGLAND WIND 2 CONNECTOR

TITLE:
 ONSHORE 275KV DUCT BANK
 275KV DUCT BANK - PLAN SHEET 8

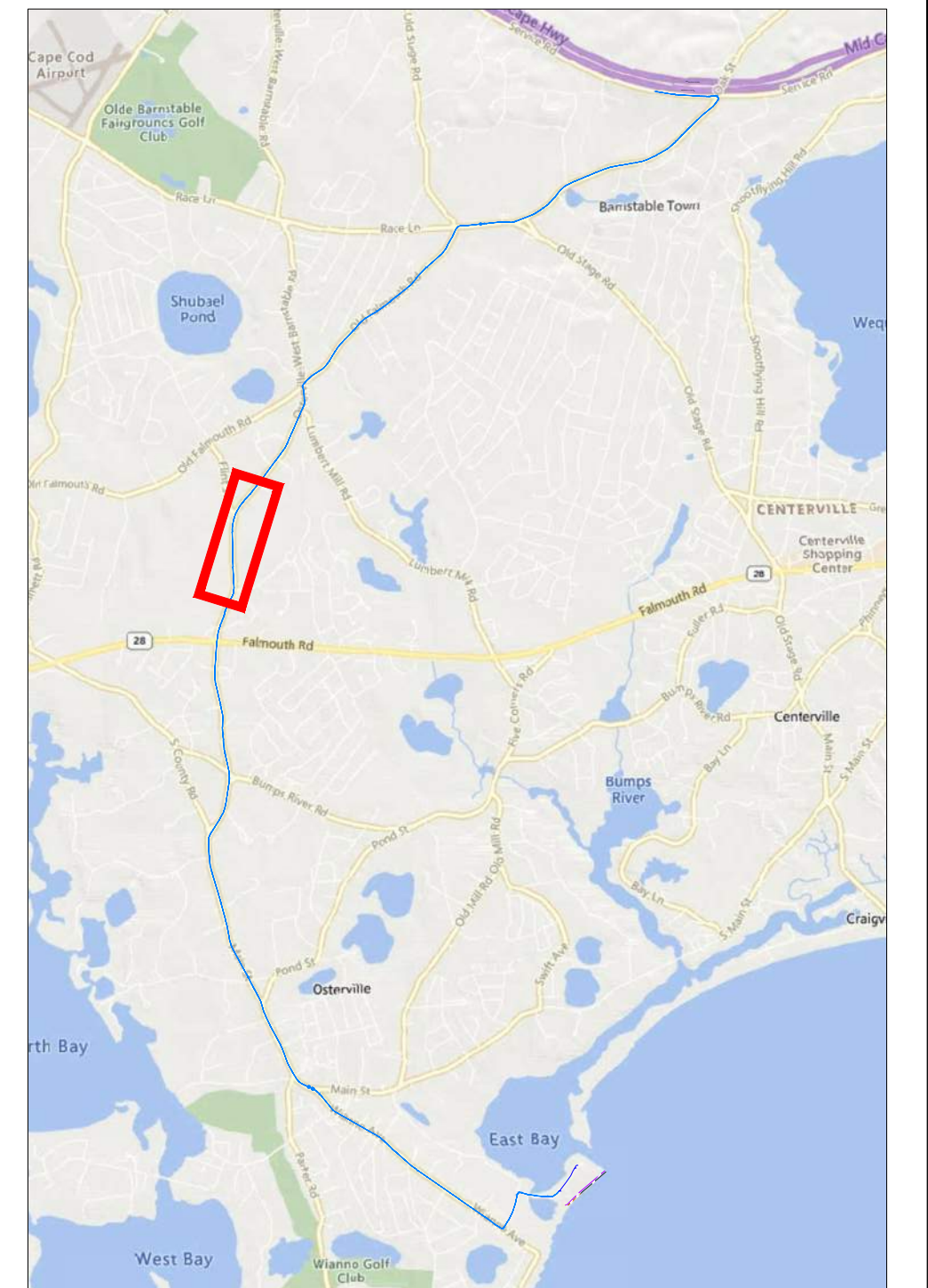
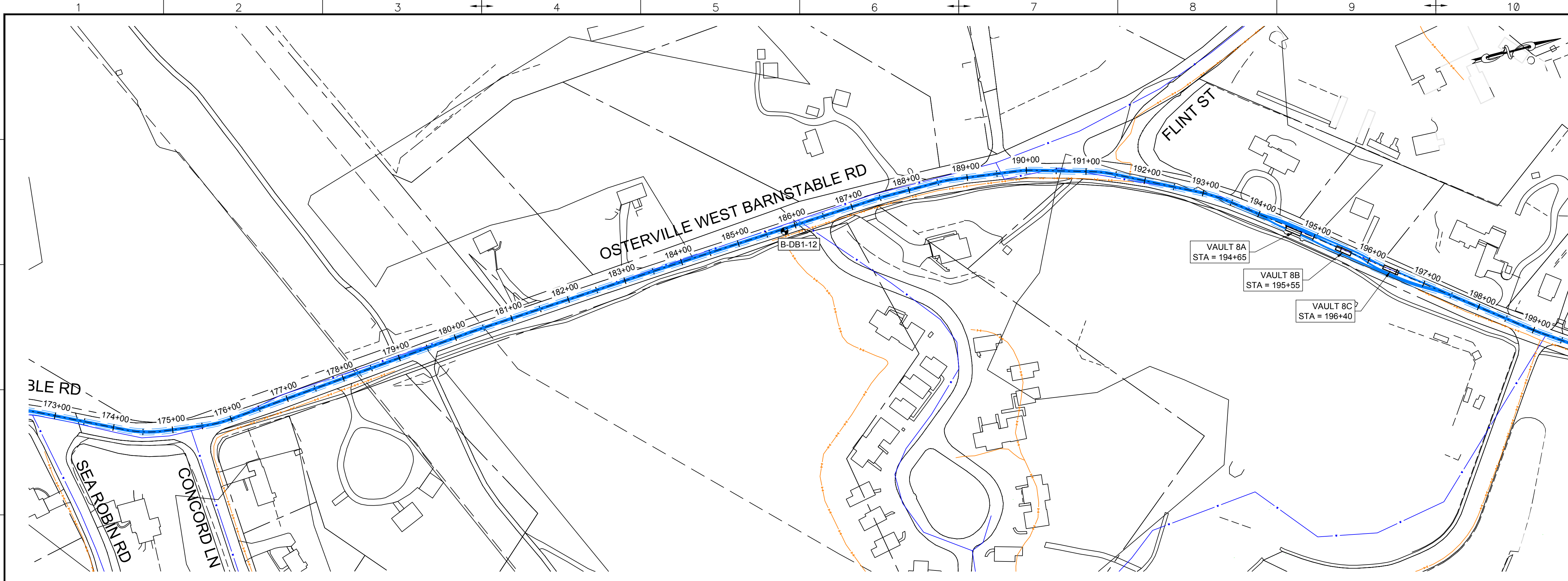
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SHEET 11 OF 33	DWG. NO. SHEET - 11	SCALE AS SHOWN	FORMAT/SIZE ANSI D	REV. F
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NOTE: ANY ABOVE AND BELOW GROUND UTILITY CONFLICTS TO BE COORDINATED WITH THE RESPECTIVE UTILITY COMPANY DURING FINAL DESIGN

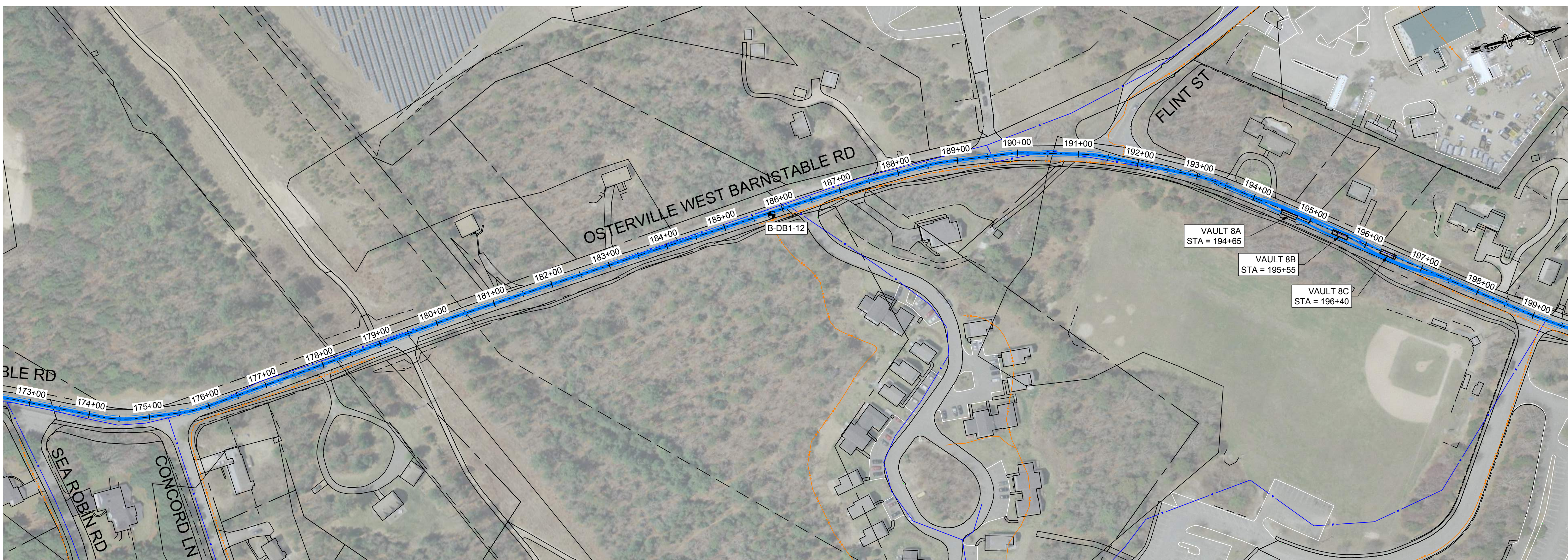
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0 100 200 300 400
SCALE: 1" = 100'

- LEGEND:**
- PROPOSED 275KV DUCT BANK
 - - - PROPOSED TRENCH EXTENTS
 - ▭ PROPOSED SPICE VAULT
 - - - EASEMENT
 - - - ROAD RIGHT-OF-WAY
 - OVERHEAD ELECTRIC
 - EXISTING GAS
 - EXISTING DRAIN
 - EXISTING WATER
 - ▨ MASSDEP GIS WETLAND AREAS - DUNE
 - ▨ MASSDEP GIS WETLAND AREAS - MARSH
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 - - - SURVEY DELINEATED WETLAND BOUNDARY
 - ▨ SURVEY DELINEATED WETLAND - BANK
 - ▨ SURVEY DELINEATED WETLAND - DUNE
 - ▨ SURVEY DELINEATED WETLAND - SALT MARSH
 - ▨ SURVEY DELINEATED WETLAND - COASTAL BEACH
 - - - FLOOD ZONE EXTENTS
 - BOREHOLE LOCATIONS



0 100 200 300 400
SCALE: 1" = 100'

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400 Crown Colony Drive Suite 200
Quincy, MA U.S.A. 02169-0982

CLIENT:

125 High Street
Boston, MA 02110

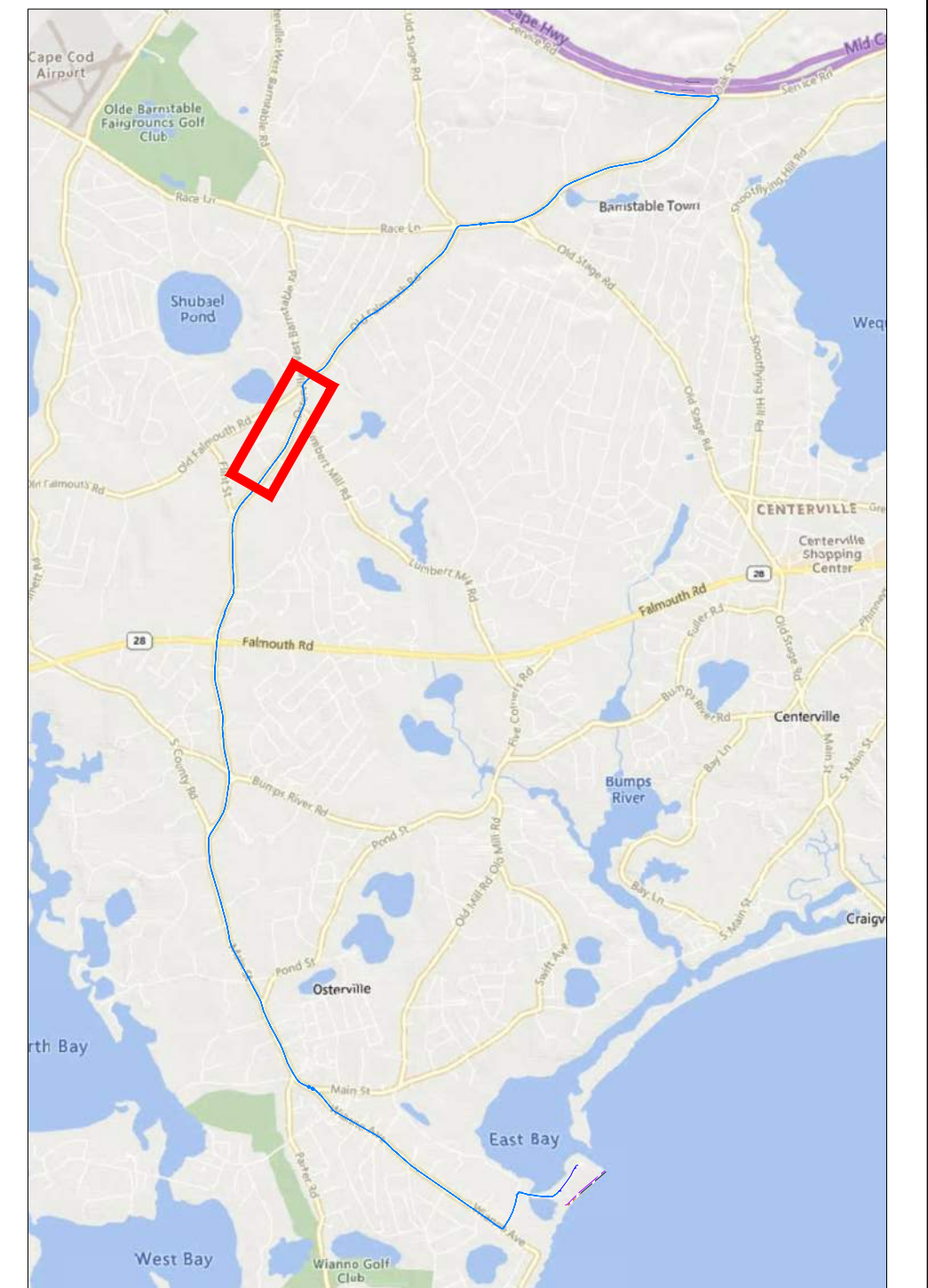
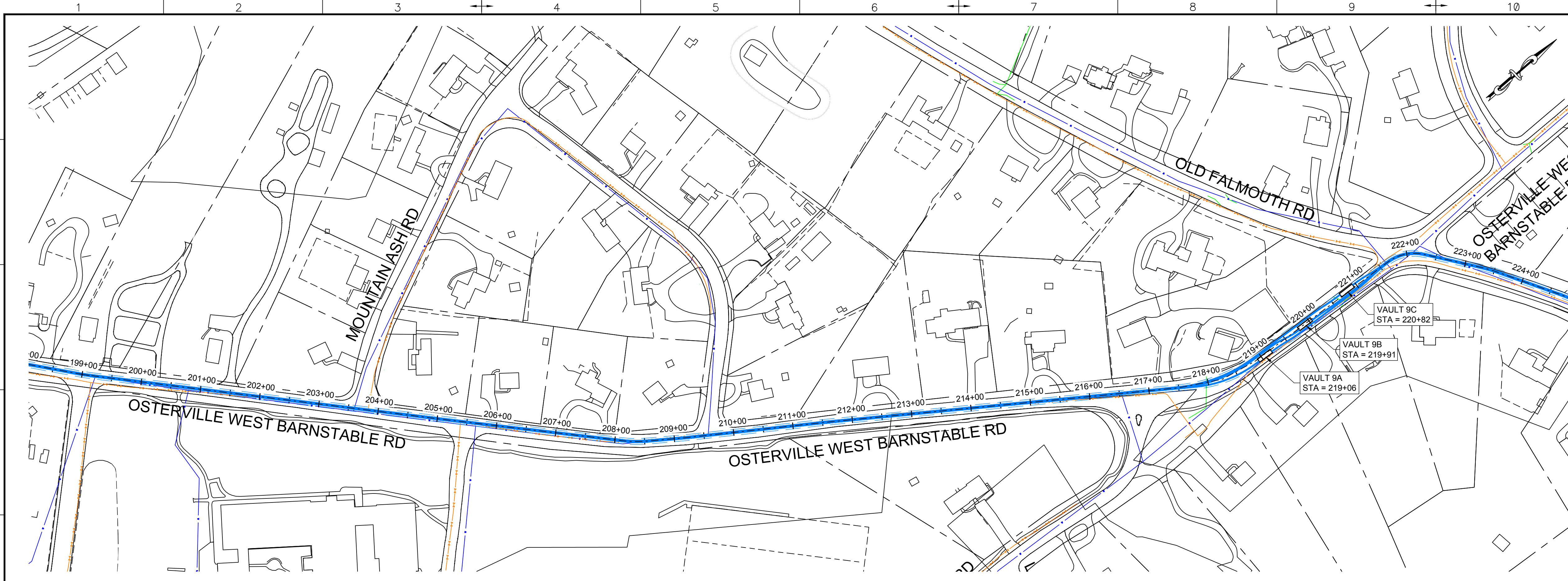
PROJECT: NEW ENGLAND WIND 2 CONNECTOR

TITLE: ONSHORE 275KV DUCT BANK
275KV DUCT BANK - PLAN SHEET 9

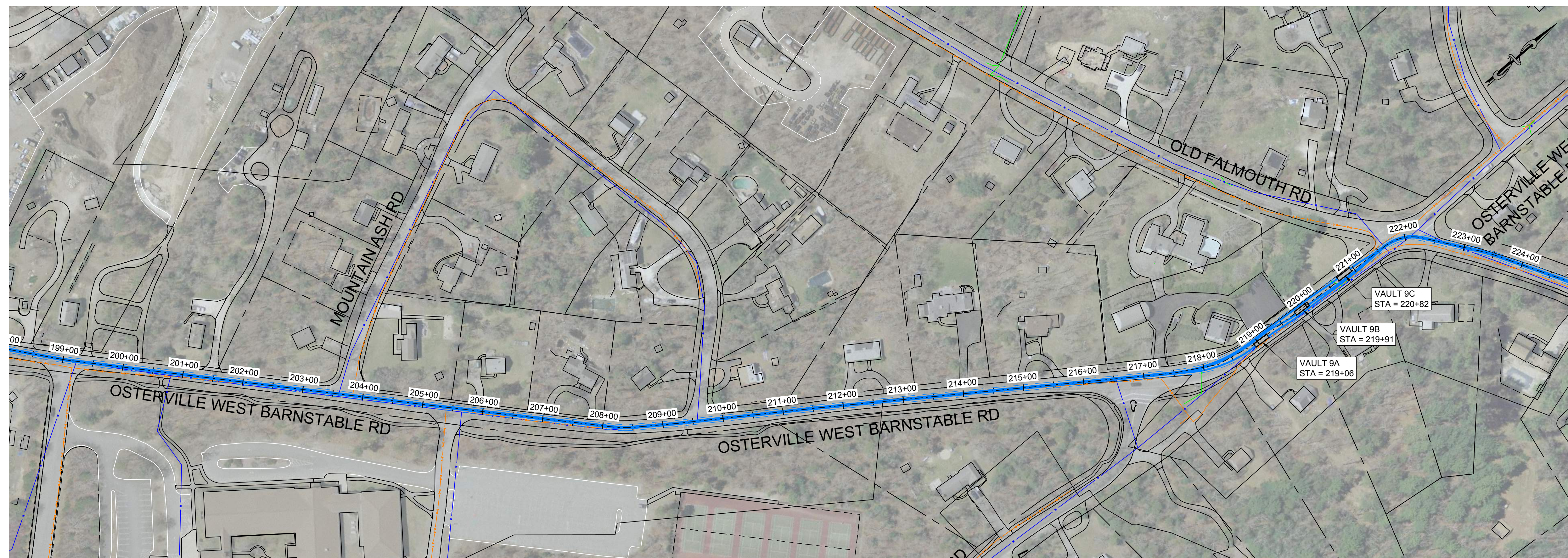
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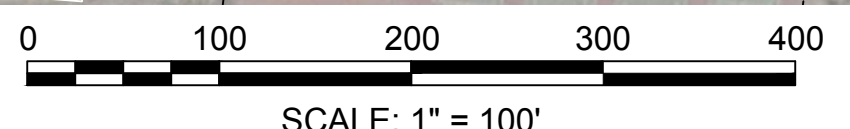
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- LEGEND:**
- PROPOSED 275KV DUCT BANK
 - PROPOSED TRENCH EXTENTS
 - PROPOSED SPLICE VAULT
 - EASEMENT
 - ROAD RIGHT-OF-WAY
 - OVERHEAD ELECTRIC
 - EXISTING GAS
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 - SURVEY DELINEATED WETLAND - COASTAL BEACH
 - FLOOD ZONE EXTENTS
 - BOREHOLE LOCATIONS



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C	2023-02-10	ISSUED FOR STATE PERMITTING	IF1	RN/DM	JDT	KEF
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 Quincy, MA U.S.A. 02169-0982

CLIENT: **AVANGRID** / **Offshore Wind**
 125 High Street
 Boston, MA 02110

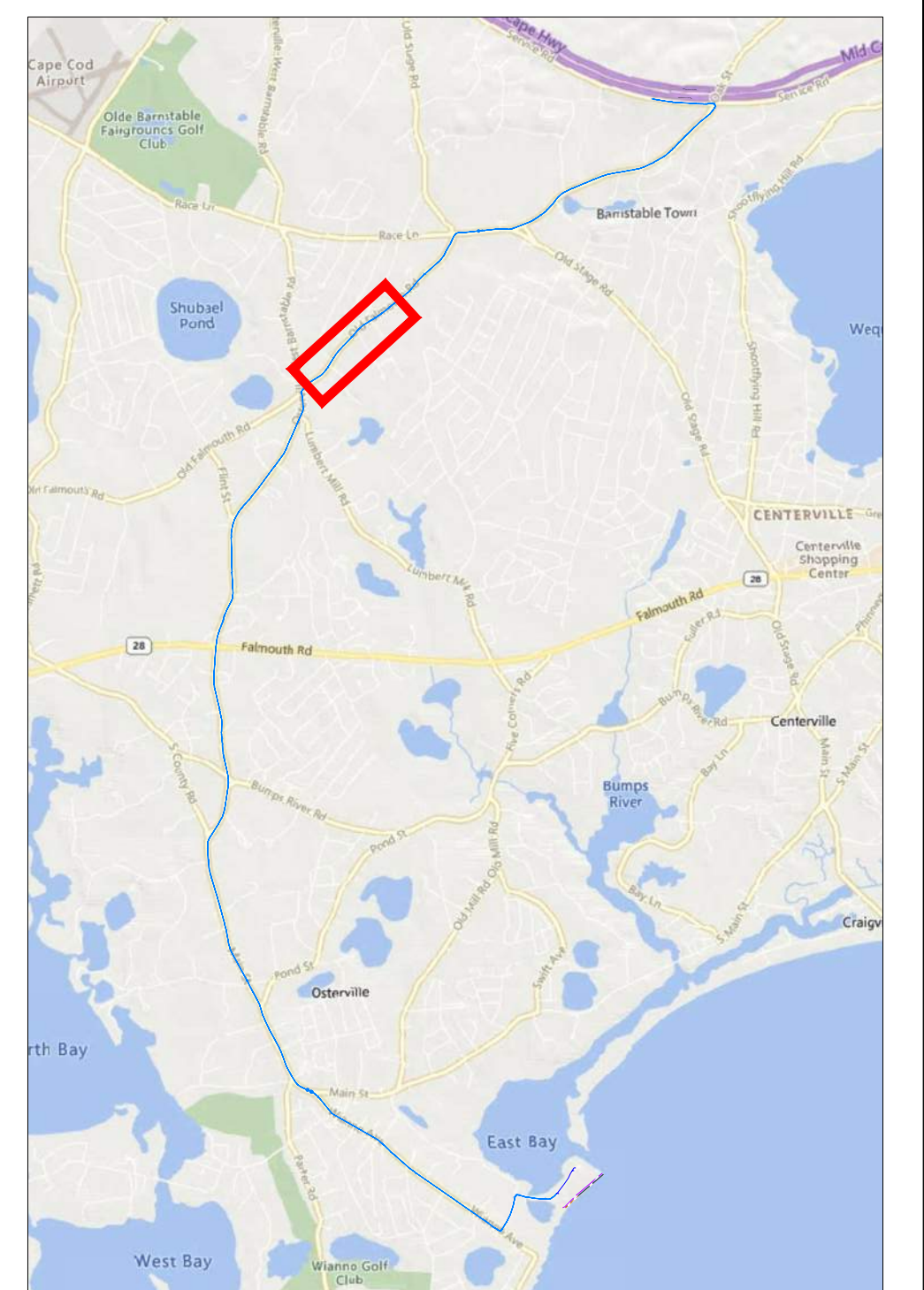
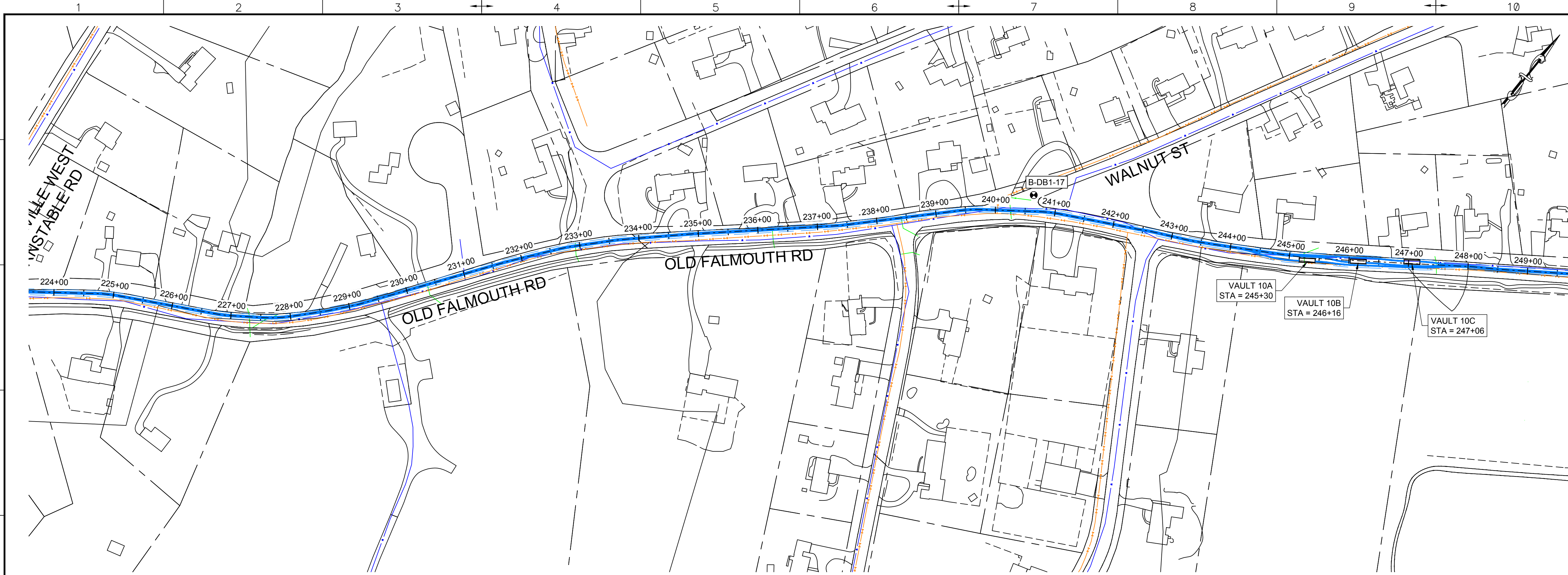
PROJECT: **NEW ENGLAND WIND 2 CONNECTOR**

TITLE: **ONSHORE 275KV DUCT BANK
 275KV DUCT BANK - PLAN SHEET 10**

DOCID: **CWW-OC-P-STC-DW-0001**

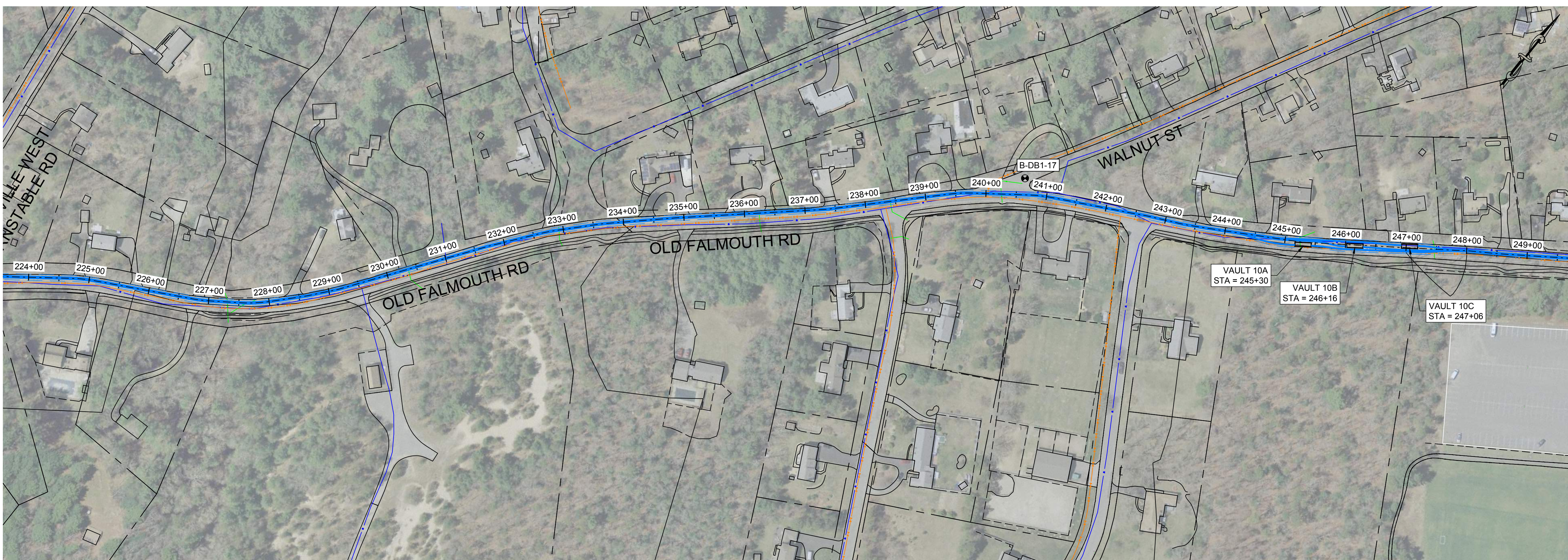
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 by: rmlhughes, robart



0 100 200 300 400
SCALE: 1" = 100'

- LEGEND:**
- PROPOSED 275KV DUCT BANK
 - - - PROPOSED TRENCH EXTENTS
 - ▭ PROPOSED SPICE VAULT
 - - - EASEMENT
 - - - ROAD RIGHT-OF-WAY
 - OVERHEAD ELECTRIC
 - EXISTING GAS
 - EXISTING DRAIN
 - EXISTING WATER
 - ▨ MASSDEP GIS WETLAND AREAS - DUNE
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 - ▨ SURVEY DELINEATED WETLAND - DUNE
 - ▨ SURVEY DELINEATED WETLAND - SALT MARSH
 - ▨ SURVEY DELINEATED WETLAND - COASTAL BEACH
 - - - FLOOD ZONE EXTENTS
 - BOREHOLE LOCATIONS



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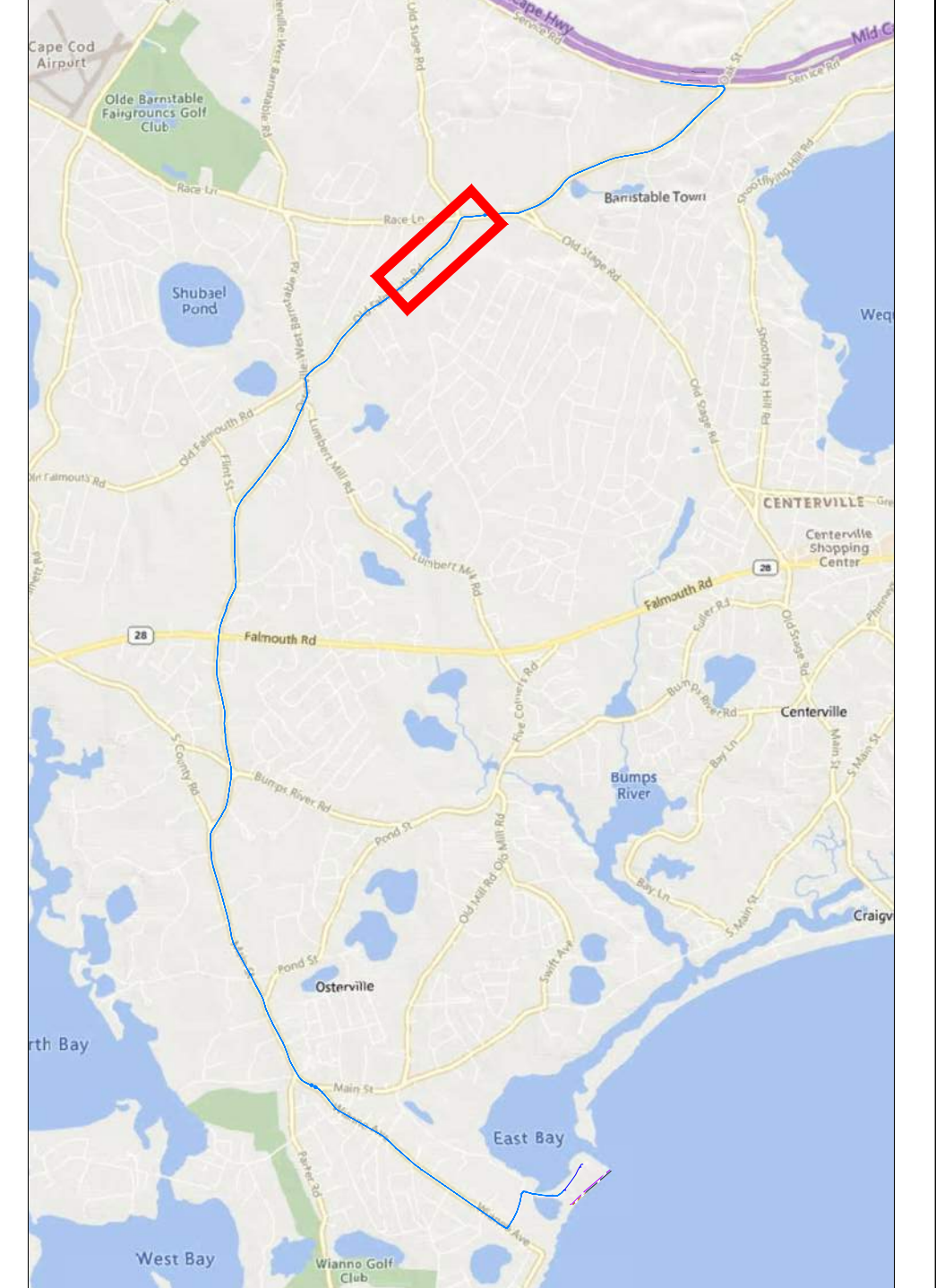
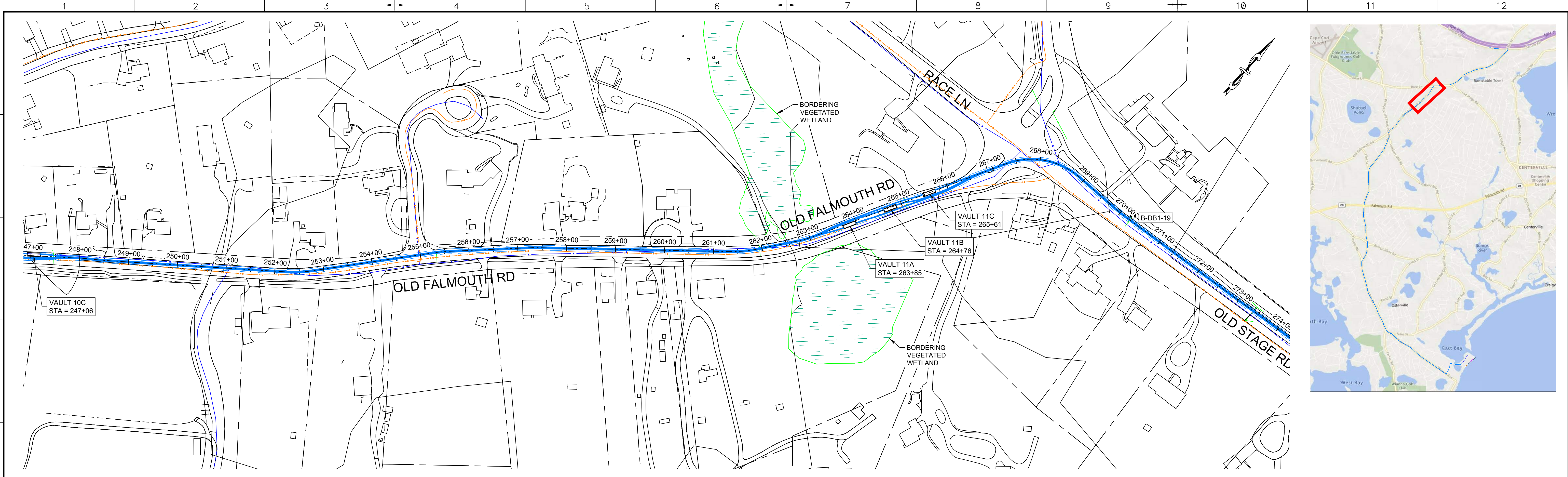
PROJECT: NEW ENGLAND WIND 2 CONNECTOR

TITLE: ONSHORE 275KV DUCT BANK
275KV DUCT BANK - PLAN SHEET 11

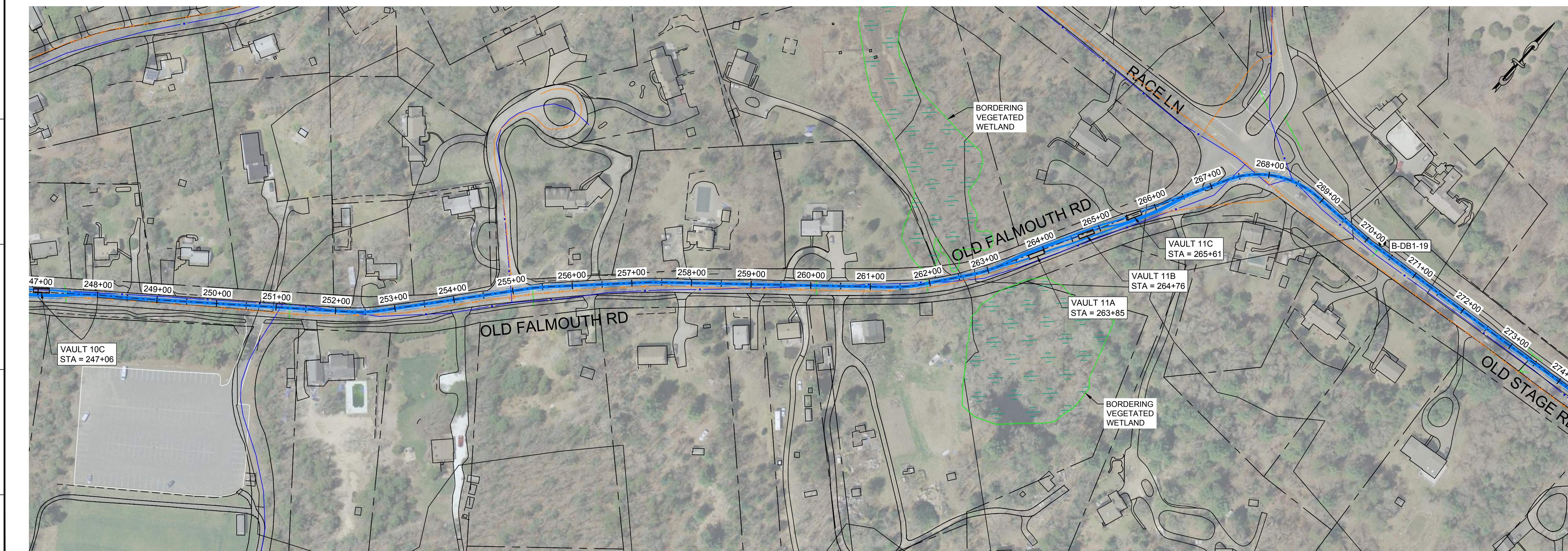
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by: rathnagiri.robert



- LEGEND:**
- PROPOSED 275kV DUCT BANK
 - PROPOSED TRENCH EXTENTS
 - PROPOSED SPICE VAULT
 - EASEMENT
 - ROAD RIGHT-OF-WAY
 - OVERHEAD ELECTRIC
 - EXISTING GAS
 - EXISTING DRAIN
 - EXISTING WATER
 - MASSDEP GIS WETLAND AREAS - DUNE
 - MASSDEP GIS WETLAND AREAS - MARSH
 - MASSDEP 100K PONDS AND STREAMS
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A	2022-08-05	ISSUED FOR CLIENT REVIEW	IFCR	RN/DM	JDT	KEF

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400 Crown Colony Drive Suite 200
Quincy, MA U.S.A. 02169-0982

CLIENT:

125 High Street
Boston, MA 02110

PROJECT:

NEW ENGLAND WIND 2 CONNECTOR

TITLE:

ONSHORE 275kV DUCT BANK
275kV DUCT BANK - PLAN SHEET 12

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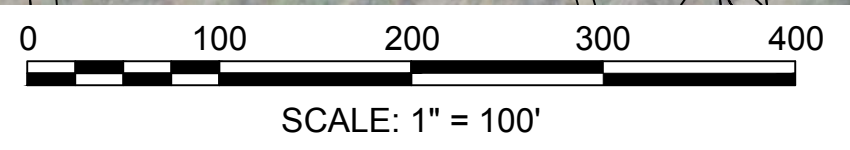
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