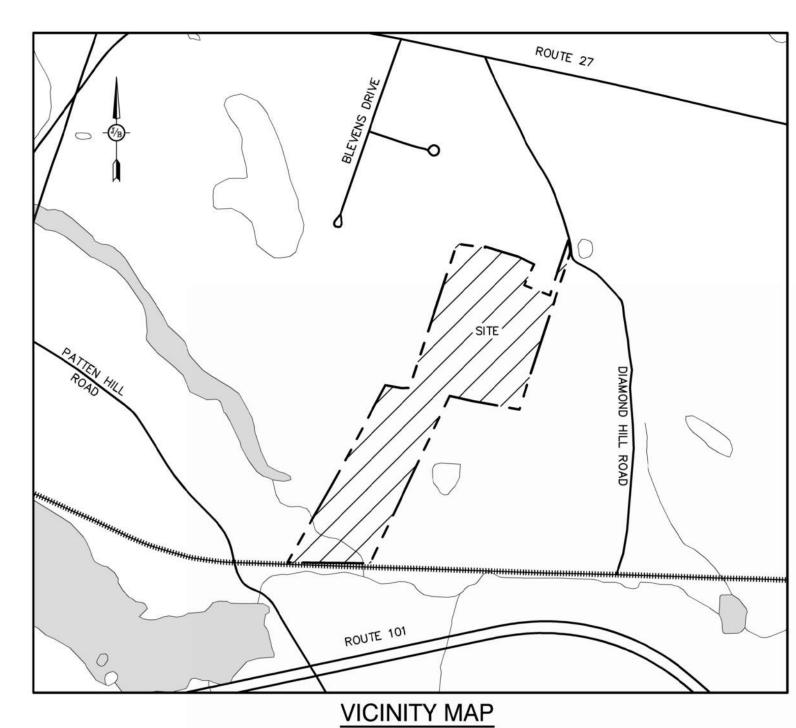
# **GENERAL LEGEND** SETBACK LINES FRESHWATER WETLANDS LINE TIDAL WETLANDS LINE STREAM CHANNEL TREE LINE STONEWALL BARBED WIRE FENCE SOIL BOUNDARY AQUIFER PROTECTION LINE FLOOD PLAIN LINE **EASEMENT** MAJOR CONTOUR MINOR CONTOUR EDGE OF PAVEMENT VERTICAL GRANITE CURB SLOPE GRANITE CURB CAPE COD BERM POURED CONCRETE CURB SILT FENCE DRAINAGE LINE SEWER LINE SEWER FORCE MAIN WATER SERVICE OVERHEAD ELECTRIC UNDERGROUND ELECTRIC GUARDRAIL UNDERDRAIN FIRE PROTECTION LINE THRUST BLOCK IRON PIPE/IRON ROD DRILL HOLE IRON ROD/DRILL HOLE STONE/GRANITE BOUND 100x0 100x0 SPOT GRADE x 100.00 × 100.00 PAVEMENT SPOT GRADE CURB SPOT GRADE BENCHMARK (TBM) DOUBLE POST SIGN 00 0 0 SINGLE POST SIGN FAILED TEST PIT MONITORING WELL PERC TEST PHOTO LOCATION TREES AND BUSHES UTILITY POLE LIGHT POLES DRAIN MANHOLE SEWER MANHOLE $-\bowtie$ WATER GATE WATER SHUT OFF REDUCER SINGLE GRATE CATCH BASIN DOUBLE GRATE CATCH BASIN $\boxplus$ TRANSFORMER CULVERT W/WINGWALLS CULVERT W/FLARED END SECTION CULVERT W/STRAIGHT HEADWALL STONE CHECK DAM DRAINAGE FLOW DIRECTION 4K SEPTIC AREA WETLAND IMPACT XXXXX VEGETATED FILTER STRIP RIPRAP PAVEMENT HATCH OPEN WATER <u>जीकि</u> जीकि जीकि FRESHWATER WETLANDS •••• TIDAL WETLANDS STABILIZED CONSTRUCTION **ENTRANCE** CONCRETE **GRAVEL** mm SNOW STORAGE RETAINING WALL STEEP SLOPES

# PROPOSED SUBDIVISION "DIAMOND HILL SUBDIVISION"

# TAX MAP 409, LOT 228 DIAMOND HILL ROAD, CANDIA, NH



CIVIL ENGINEER

JONES & BEACH ENGINEERS, INC. 85 PORTSMOUTH AVENUE PO BOX 219 STRATHAM, NH 03885 (603) 772-4746 **CONTACT: BARRY GIER** E-MAIL: BGIER@JONESANDBEACH.COM

**SURVEYOR** HAYES ENGINEERS, INC.

603 SALEM STREET WAKEFIELD, MA 01880 (781) 246-2800

WETLAND CONSULTANT MISSION WETLAND & ECOLOGICAL SERVICES, LLC P.O. BOX 4028 PORTSMOUTH, NH 03802 CONTACT: SERGIO BONILLA, PWS, CWS SCALE 1" = 1000'

**ELECTRIC EVERSOURCE** 740 N COMMERCIAL ST PO BOX 330 MANCHESTER, NH 03105-0330 (800) 662-7764

**TELEPHONE** 

Stratham, NH 03885

CONSOLIDATED COMMUNICATIONS 1575 GREENLAND ROAD GREENLAND, NH 03840 (603) 427-5525 CONTACT: JOE CONSIDINE

**CABLE TV** COMCAST COMMUNICATION CORPORATION 334-B CALEF HIGHWAY EPPING, NH 03042-2325 (603) 679-5695

# SHEET INDEX

**COVER SHEET** OVERVIEW SUBDIVISION PLAN SUBDIVISION PLANS OVERVIEW EXISTING CONDITIONS PLANS EXISTING CONDITIONS PLANS OVERVIEW SITE PLAN SITE PLANS OVERVIEW GRADING & DRAINAGE PLAN C10-C11 GRADING & DRAINAGE PLANS PROFILE SHEETS

# **WAIVERS:**

D1-D3 DETAIL SHEETS

SUBDIVISION REGULATIONS SECTION 18.14 SUBDIVISION REGULATIONS SECTION 10.6.c

**EROSION CONTROL SHEET** 

SUBDIVISION REGULATIONS SECTION 10.6.u SUBDIVISION REGULATIONS SECTION 12.04

# **PERMITS**

TYPE OF PERMIT

SUBMITTED: NHDES ALTERATION OF TERRAIN PERMIT NEW HAMPSHIRE DEPARTMENT OF PERMIT NO. **ENVIRONMENTAL SERVICES - WATER DIVISION** 29 HAZEN DRIVE, P.O. BOX 95 DATED: CONCORD, NEW HAMPSHIRE 03302-0095 (603) 271-3503 RESPONSIBLE CONSULTANT: **EXPIRATION:** JONES & BEACH ENGINEERS, INC. SUBMITTED: NHDES SUBDIVISION PERMIT: **ENVIRONMENTAL SERVICES -**PERMIT NO. SUBSURFACE SYSTEMS BUREAU 29 HAZEN DRIVE, P.O. BOX 95 CONCORD, NEW HAMPSHIRE 03302-0095 DATED: (603) 271-3503 RESPONSIBLE CONSULTANT: **EXPIRATION:** JONES & BEACH ENGINEERS, INC. SUBMITTED: NHDES WETLAND PERMIT: **NEW HAMPSHIRE DEPARTMENT OF** PERMIT NO. ENVIRONMENTAL SERVICES-**WETLANDS BUREAU** 29 HAZEN DRIVE, P.O. BOX 95 DATED: CONCORD, NEW HAMPSHIRE 03302 **EXPIRATION:** (603) 271-2147 **RESPONSIBLE CONSULTANT-**

Know what's below

811 before you dig

STATUS

USEPA NPDES PHASE II CONSTRUCTION GENERAL PERMIT NOTICE OF INTENT (NOI), AND NOTICE OF TERMINATION (NOT) TO BE FILED IN ACCORDANCE WITH FEDERAL AND LOCAL REGULATIONS PRIOR TO AND FOLLOWING CONSTRUCTION: **EPA STORMWATER NOTICE PROCESSING CENTER** MAIL CODE 4203M, 1200 PENNSYLVANIA AVENUE, NW WASHINGTON, DC 20460 RESPONSIBLE CONSULTANT: JONES & BEACH ENGINEERS, INC.

JONES & BEACH ENGINEERS, INC.

APPROVED - CANDIA, NH PLANNING BOARD

PROJECT PARCEL TOWN OF CANDIA TAX MAP 409, LOT 228

> APPLICANT/OWNER AV DEVELOPMENT, LLC 2 GRANITE RAIL COURT QUINCY, MA 02169

**TOTAL LOT AREA** 

±72 ACRES

DATE:

**COVER SHEET** 

DIAMOND HILL SUBDIVISION

JBE PROJECT NO. 24025

Date: 02/20/25 Design: JPT | Draft: KDR Checked: BWG Scale: AS NOTED Project No.: 24025 Drawing Name: 24025-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



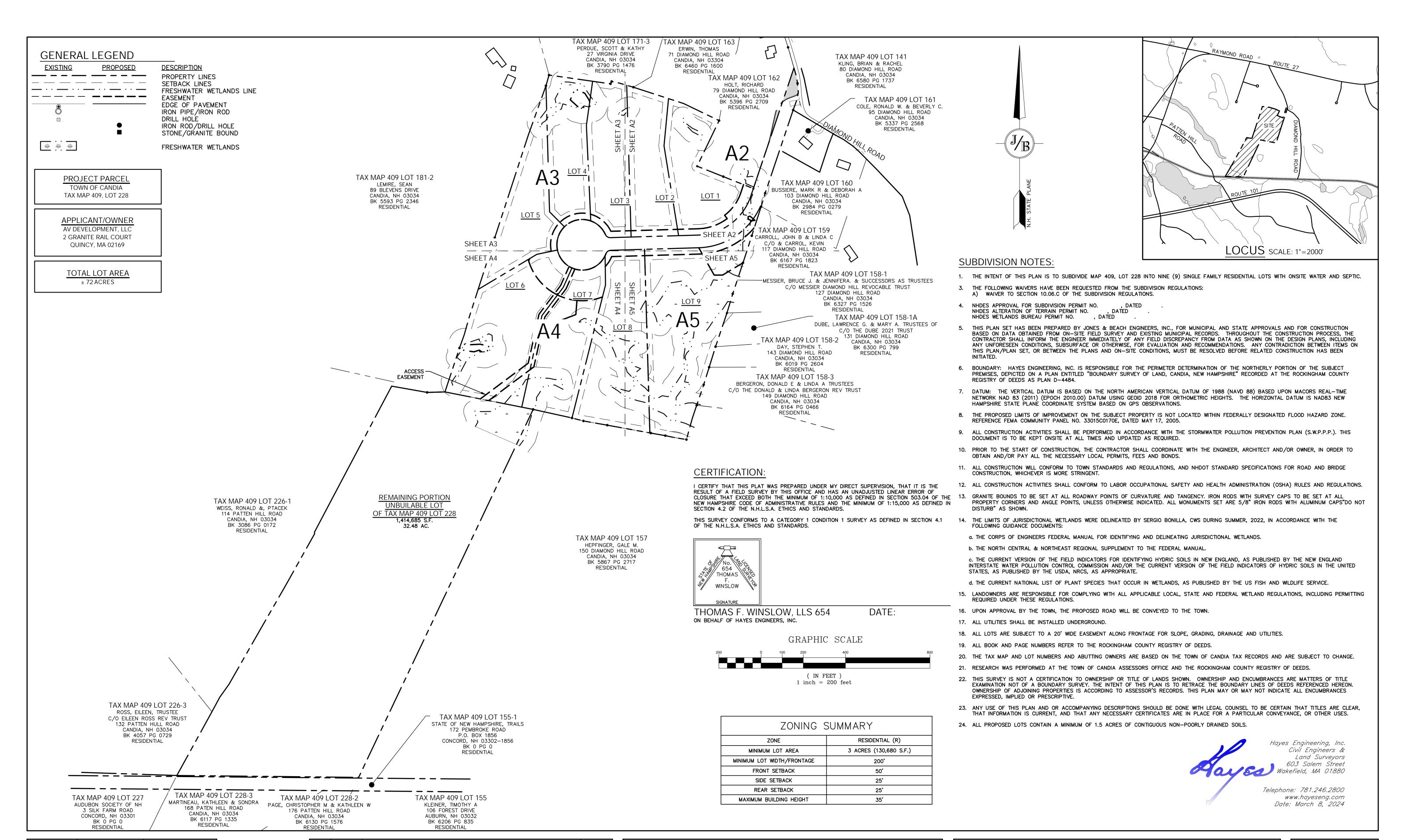
1	02/20/25	REVISED PER PB COMMENTS	BWG
0	11/18/24	ISSUED FOR REVIEW	BWG
REV.	DATE	REVISION	BY

Designed and Produced in NH Jones & Beach Engineers, Inc. 85 Portsmouth Ave. Civil Engineering Services 603-772-4746 PO Box 219

E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:

MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH AV DEVELOPMENT, LLC Owner of Record: 2 GRANITE RAIL COURT, QUINCY, MA 02169



Design: JPT	Draft:	KDR	Date: 02/20/25	
Checked: BWG	Scale:	AS SHOWN	Project No.: 24025	
Drawing Name:	24025-F	PLAN.dwg		
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PERMISSION FRO	M JONES	& BEACH ENG	SINEERS, INC. (JBE).	
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85 Portsmouth Ave. Civil Engineering Services

603-772-4746

PO Box 219

Stratham, NH 03885

E-MAIL: JBE@JONESANDBEACH.COM

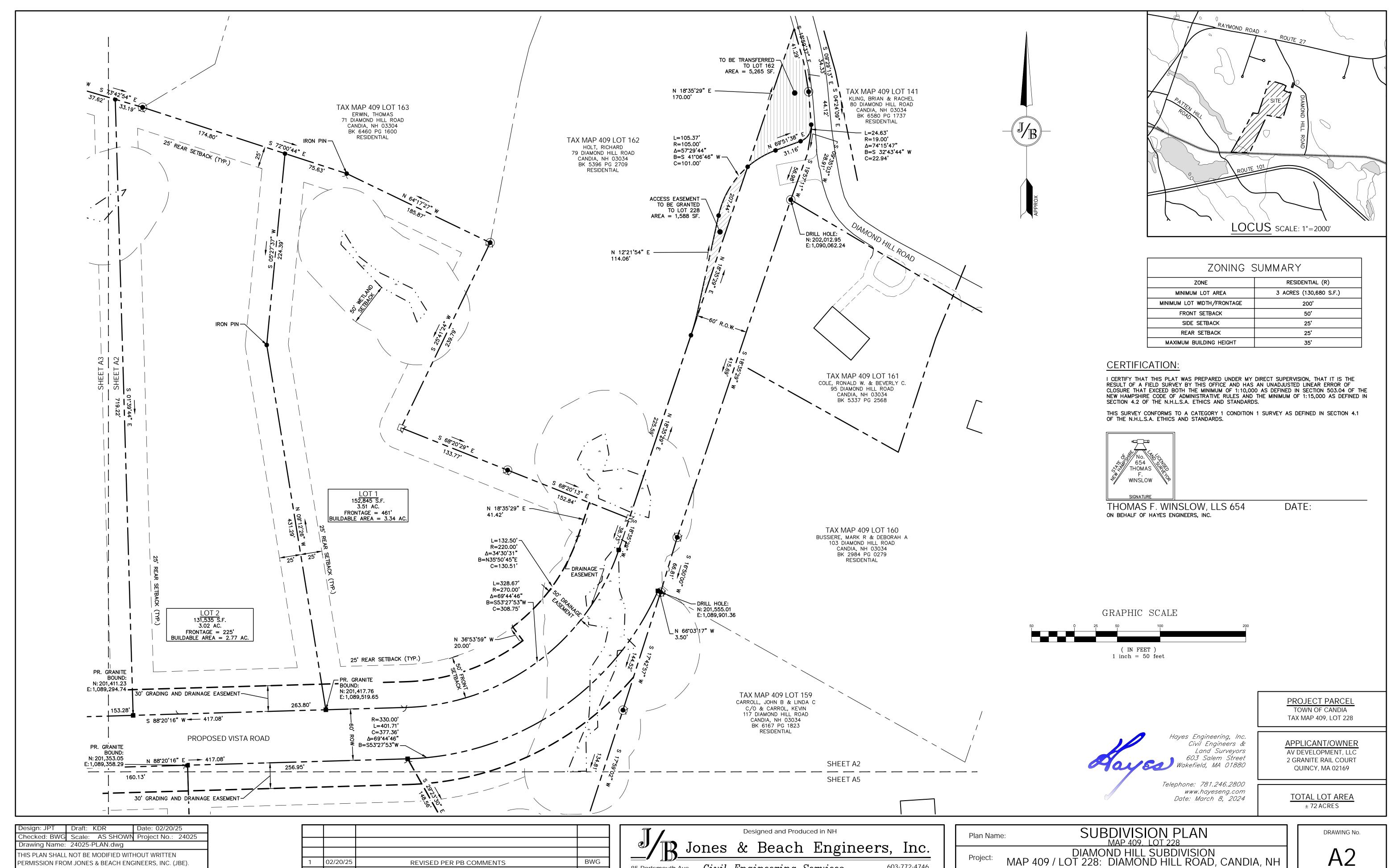
Plan Name: OVERVIEW SUBDIVISION PLAN MAP 409, LOT 228

DIAMOND HILL SUBDIVISION MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH

Owner of Record:

AV DEVELOPMENT, LLC
2 GRANITE RAIL COURT, QUINCY, MA 02169

SHEET 2 OF 30
JBE PROJECT NO. 24025



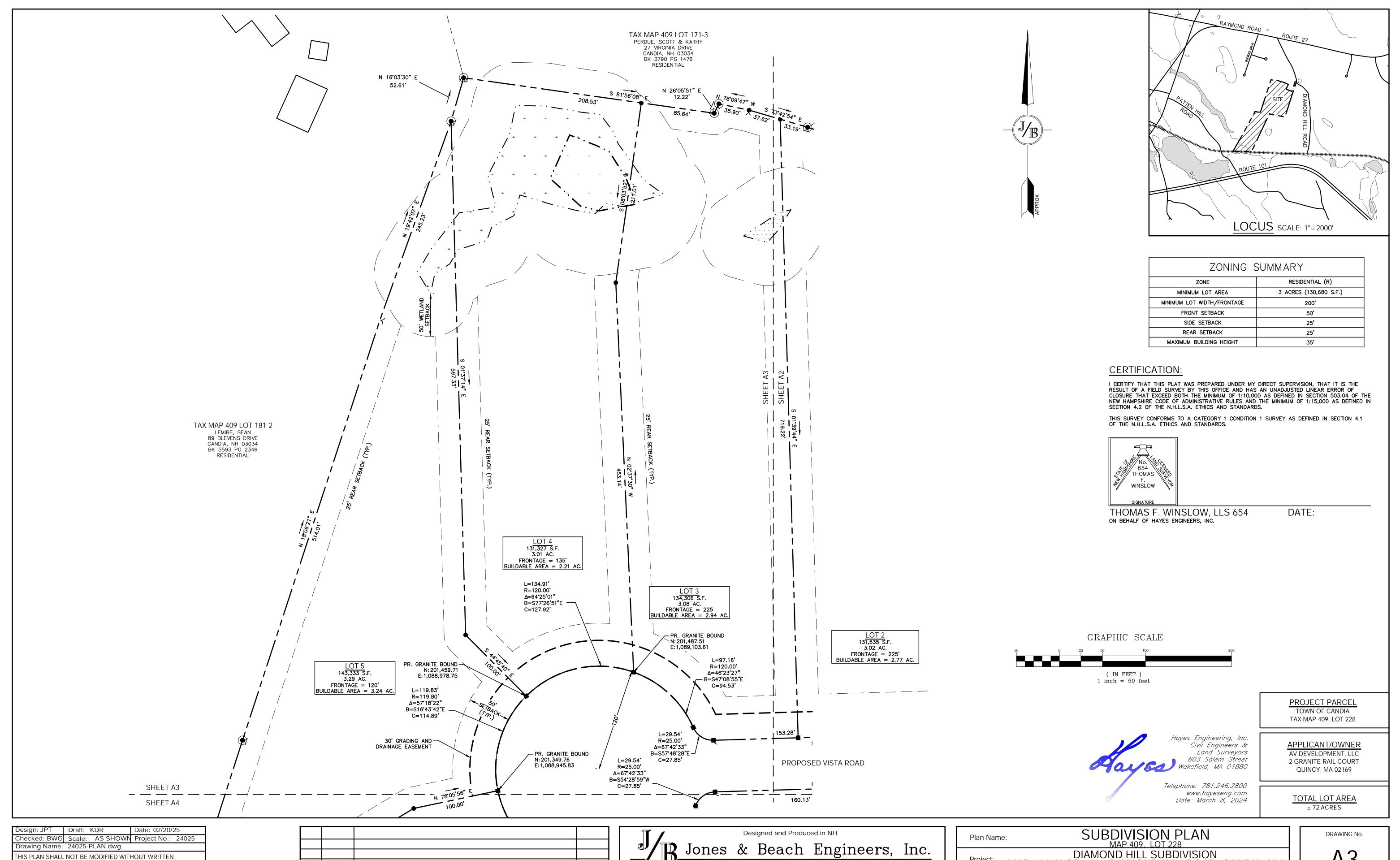
02/20/25 BWG **REVISED PER PB COMMENTS** BWG 11/18/24 **ISSUED FOR REVIEW** REVISION BY DATE

Stratham, NH 03885

85 Portsmouth Ave. Civil Engineering Services 603-772-4746 PO Box 219 E-MAIL: JBE@JONESANDBEACH.COM

AV DEVELOPMENT, LLC 2 GRANITE RAIL COURT, QUINCY, MA 02169 Owner of Record:

SHEET 3 OF 30 JBE PROJECT NO. 24025



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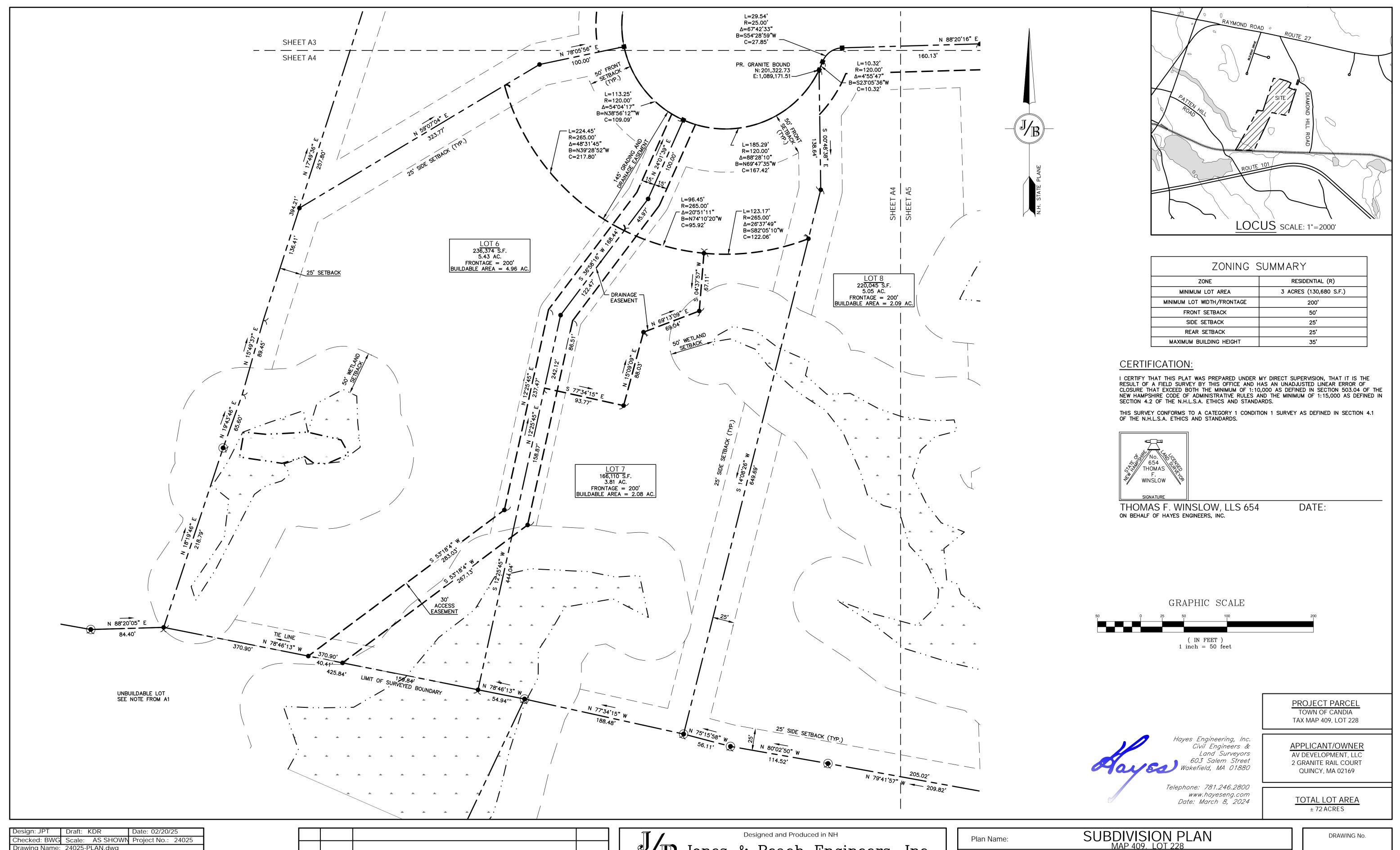
E-MAIL: JBE@JONESANDBEACH.COM

Owner of Record:

DIAMOND HILL SUBDIVISION MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH

AV DEVELOPMENT, LLC 2 GRANITE RAIL COURT, QUINCY, MA 02169

SHEET 4 OF 30 JBE PROJECT NO. 24025



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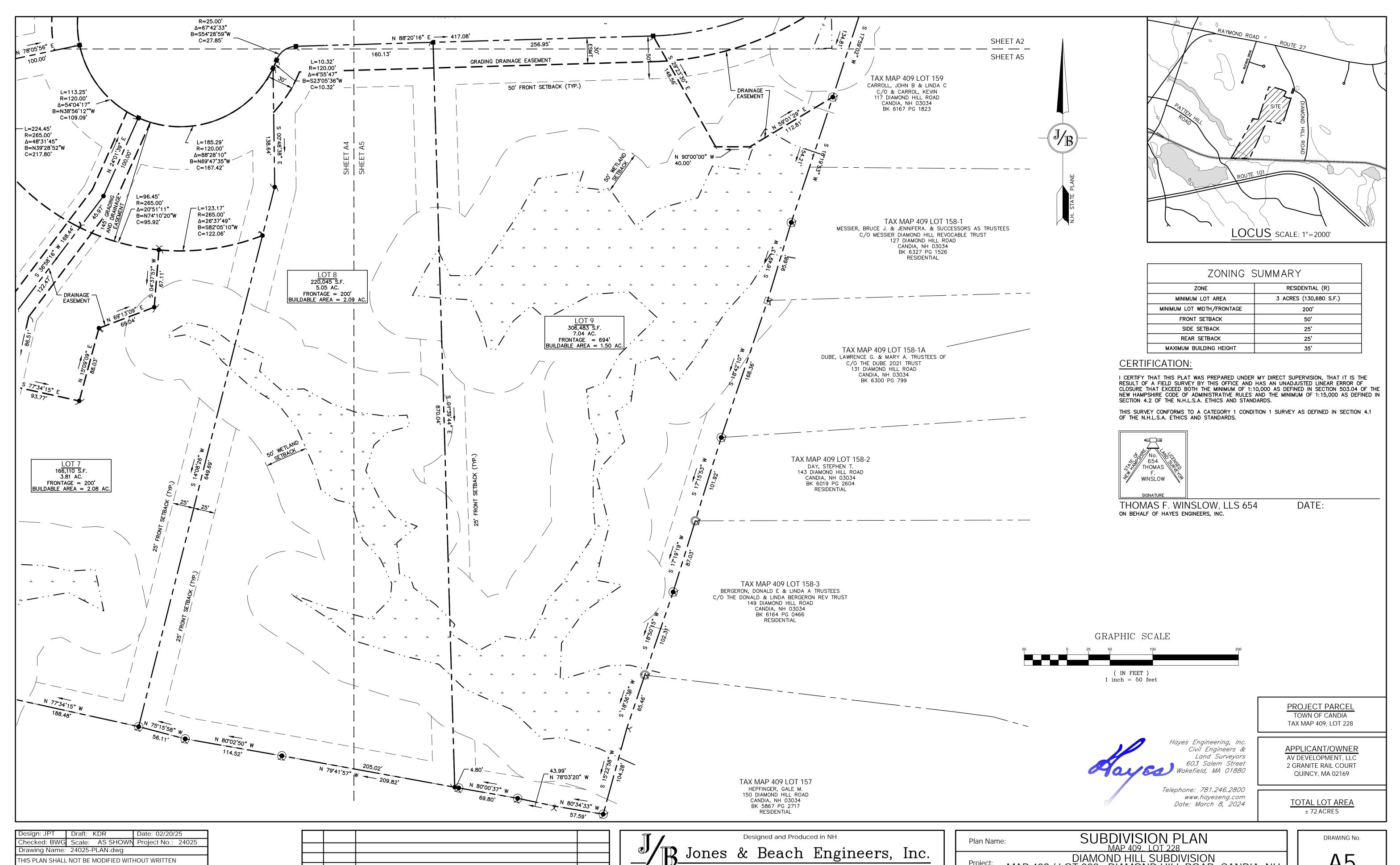
Jones & Beach Engineers, Inc. 85 Portsmouth Ave. Civil Engineering Services
PO Box 219 603-772-4746

Stratham, NH 03885

E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:		MAP 409, LOT 228
Project:	MAP 40	DIAMOND HILL SUBDIVISION 19 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH
Owner of	Record:	AV DEVELOPMENT, LLC 2 GRANITE RAIL COURT, QUINCY, MA 02169

SHEET 5 OF 30 JBE PROJECT NO. 24025



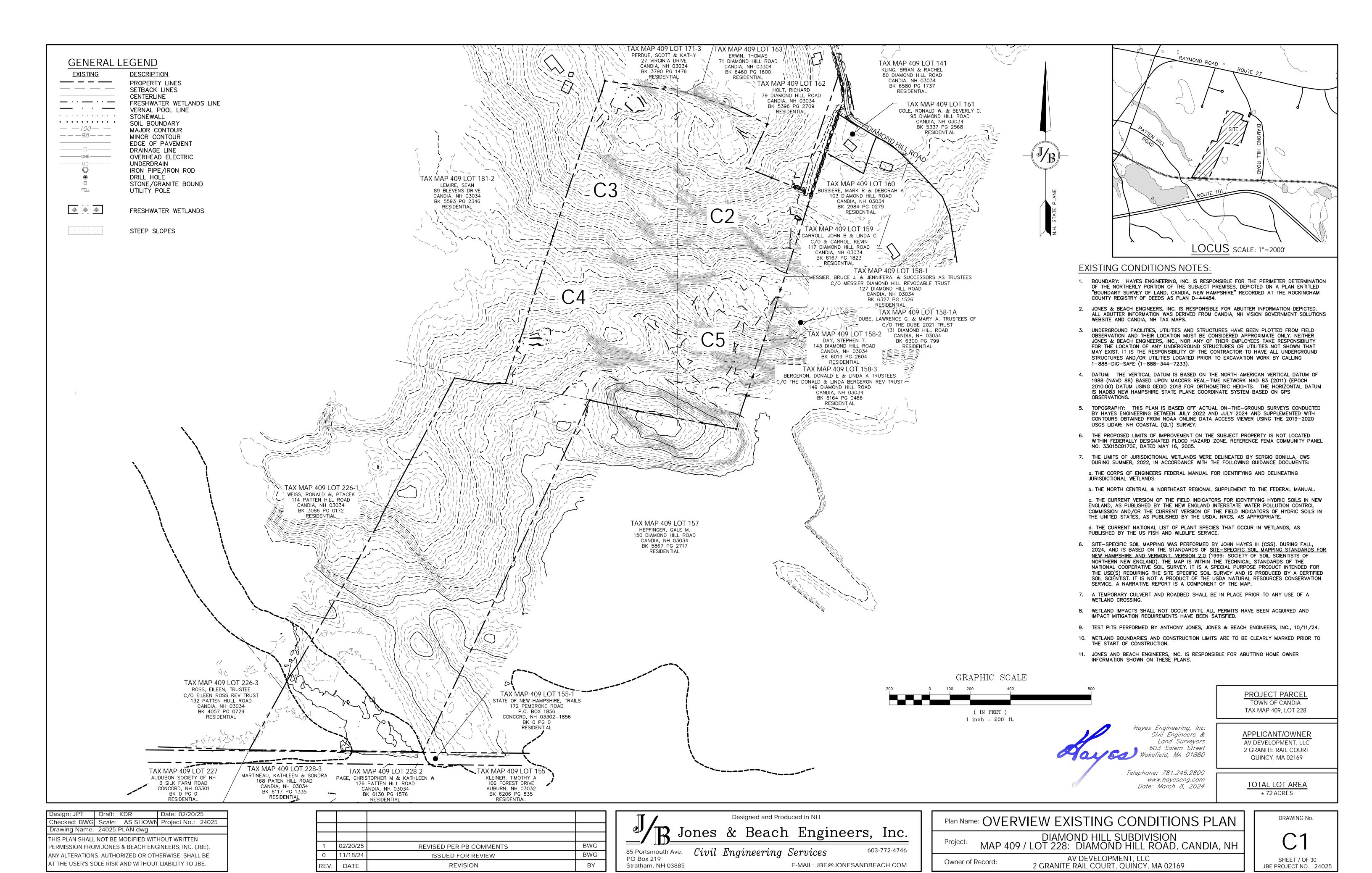
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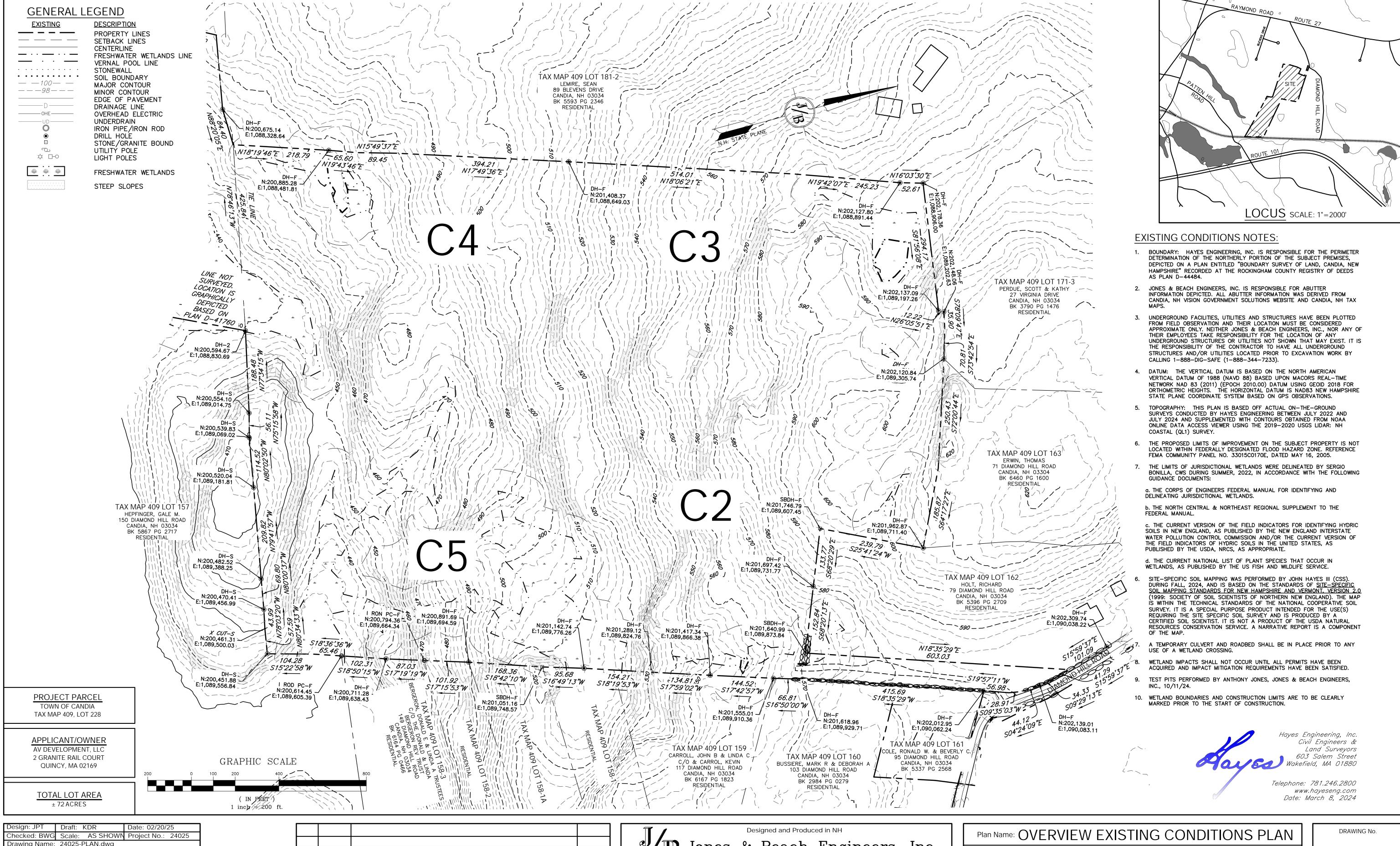
85 Portsmouth Ave. Civil Engineering Services 603-772-4746 PO Box 219 E-MAIL: JBE@JONESANDBEACH.COM Stratham, NH 03885

DIAMOND HILL SUBDIVISION MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH

AV DEVELOPMENT, LLC 2 GRANITE RAIL COURT, QUINCY, MA 02169 Owner of Record:

SHEET 6 OF 30 JBE PROJECT NO. 24025





Design: JPT	Draft: KDR	Date: 02/20/25				
Checked: BWG	Scale: AS SHOW	N Project No.: 24025				
Drawing Name:	24025-PLAN.dwg					
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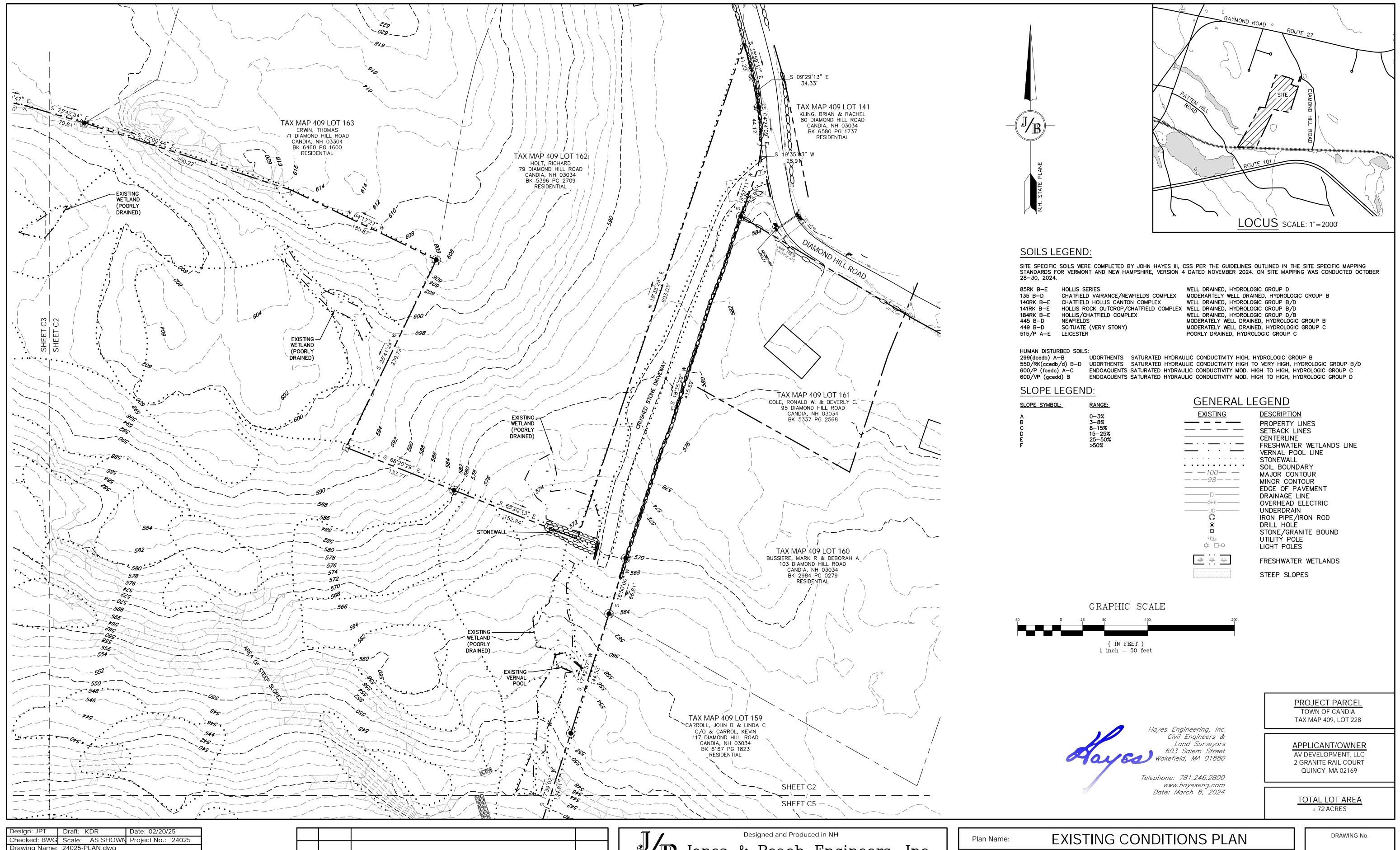
Owner of Record:

DIAMOND HILL SUBDIVISION Project: MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NE

AV DEVELOPMENT, LLC

2 GRANITE RAIL COURT, QUINCY, MA 02169

SHEET 8 OF 30 JBE PROJECT NO. 24025



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Drawing Name: 24025-PLAN.dwg

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E-MAIL: JBE@JONESANDBEACH.COM

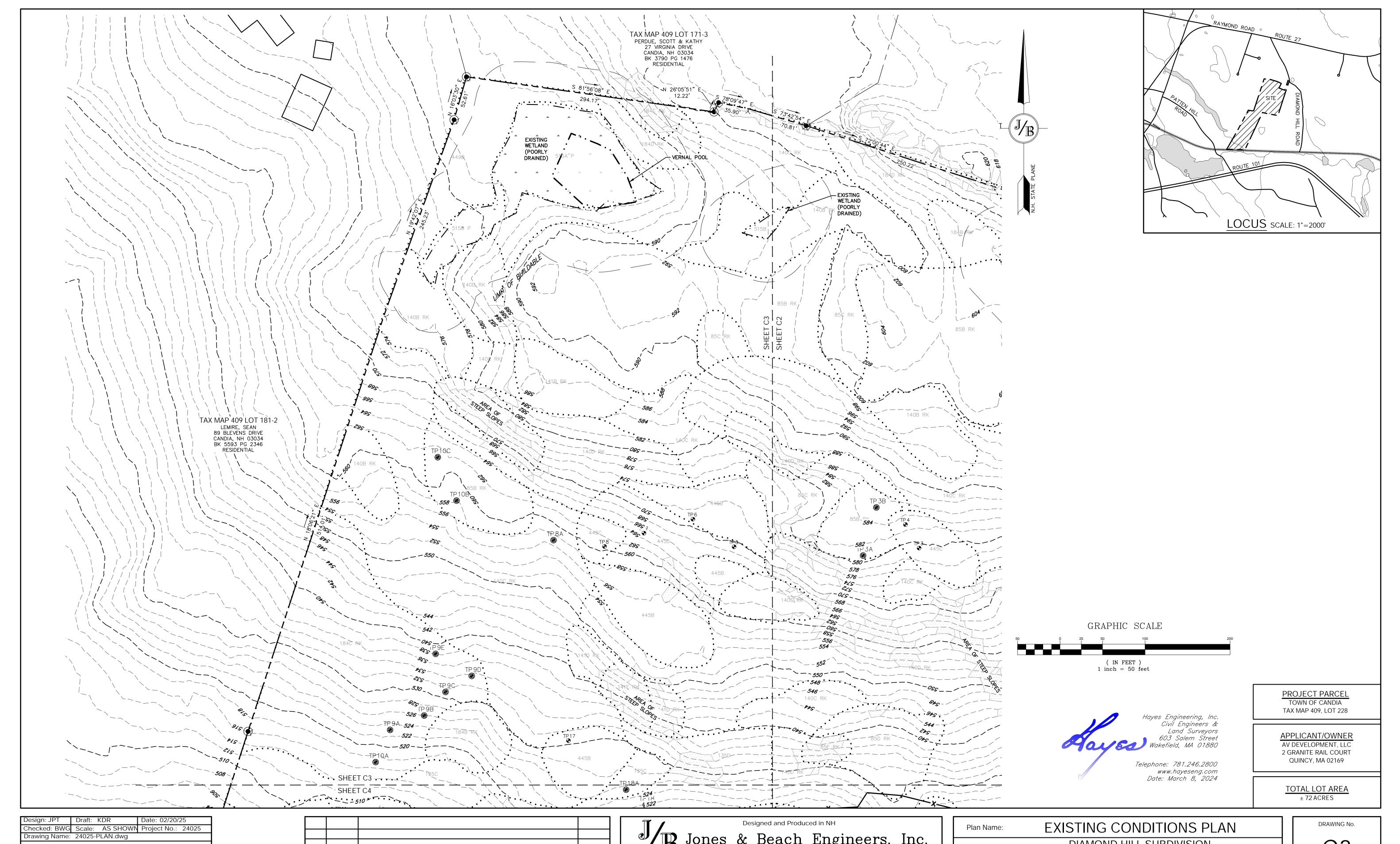
DIAMOND HILL SUBDIVISION
MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH

Owner of Record: AV DEVELOPMENT, LLC 2 GRANITE RAIL COURT, QUINCY, MA 02169

C2

SHEET 9 OF 30

JBE PROJECT NO. 24025



Design: JPT Draft: KDR Date: 02/20/25

Checked: BWG Scale: AS SHOWN Project No.: 24025

Drawing Name: 24025-PLAN.dwg

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603-772-4746

Stratham, NH 03885

E-MAIL: JBE@JONESANDBEACH.COM

DIAMOND HILL SUBDIVISION
MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH

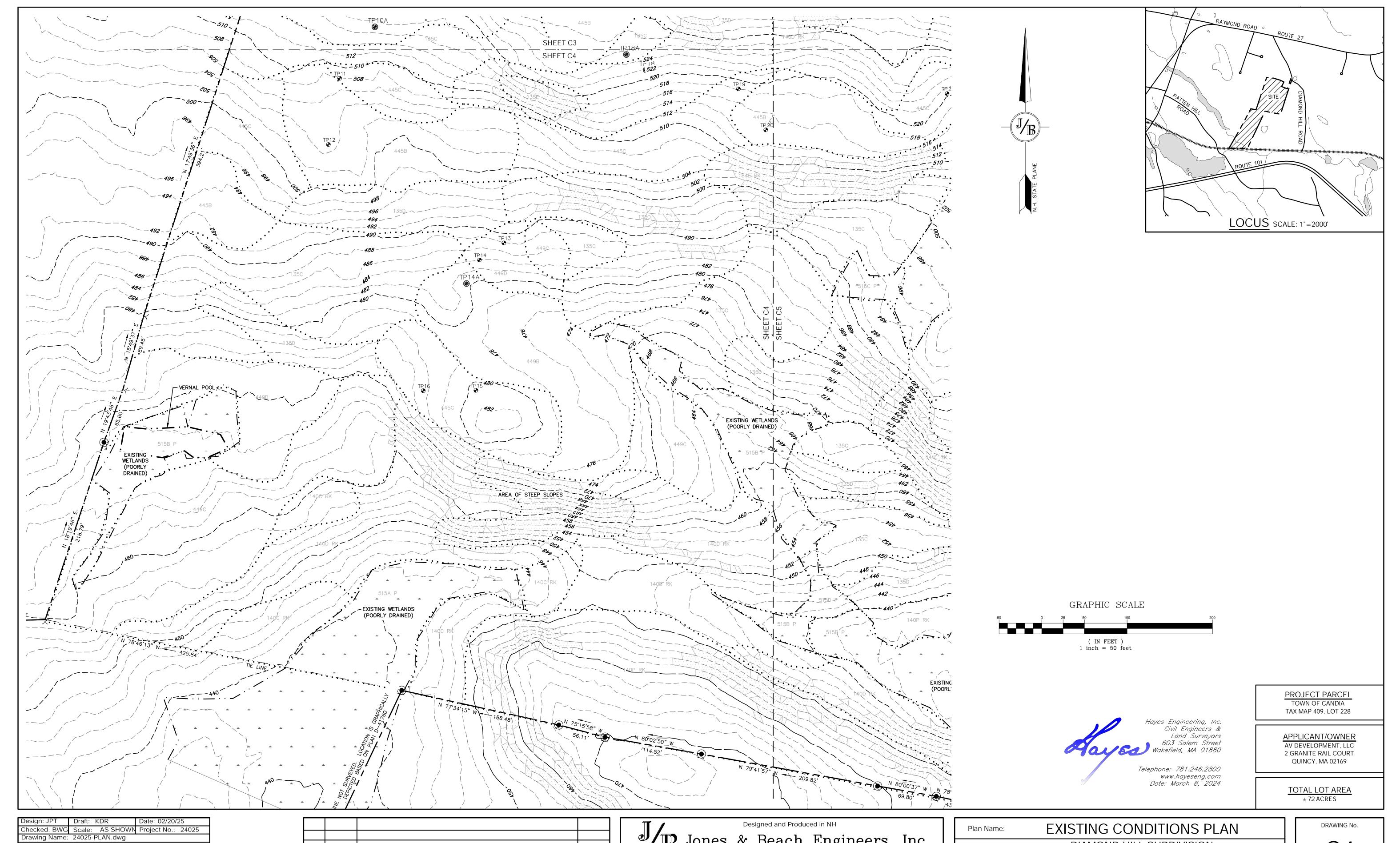
Owner of Record:

AV DEVELOPMENT, LLC
2 GRANITE RAIL COURT, QUINCY, MA 02169

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SHEET 10 OF 30

JBE PROJECT NO. 24025



Drawing Name: 24025-PLAN.dwg

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85 Portsmouth Ave.
PO Box 219
Stratham, NH 03885

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Beach Engineers, Inc.

603-772-4746

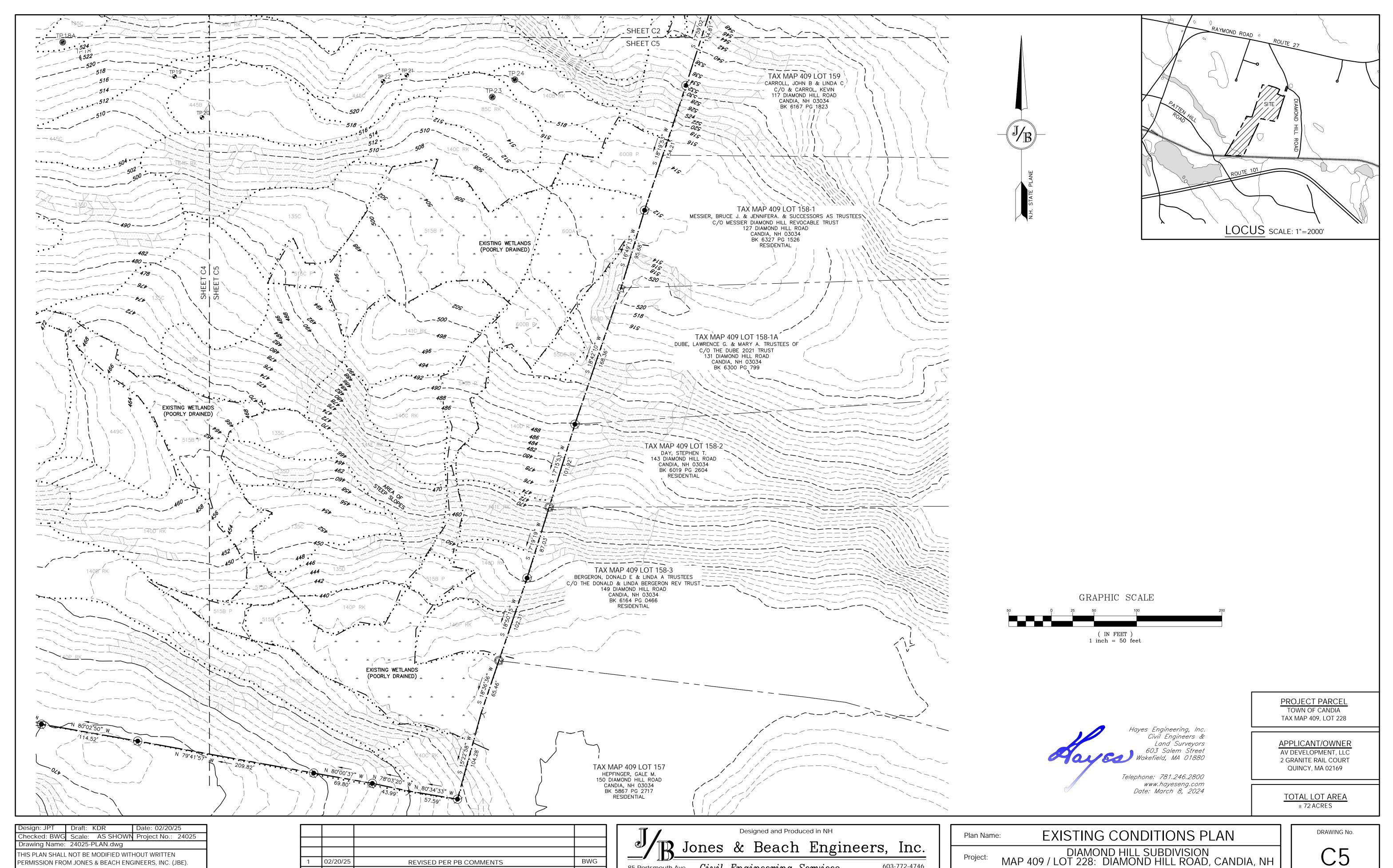
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DIAMOND HILL SUBDIVISION MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH

Owner of Record:

AV DEVELOPMENT, LLC
2 GRANITE RAIL COURT, QUINCY, MA 02169

C4
SHEET 11 OF 30
JBE PROJECT NO. 24025



85 Portsmouth Ave. Civil Engineering Services

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E-MAIL: JBE@JONESANDBEACH.COM

Owner of Record:

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PO Box 219

Stratham, NH 03885

02/20/25

11/18/24

DATE

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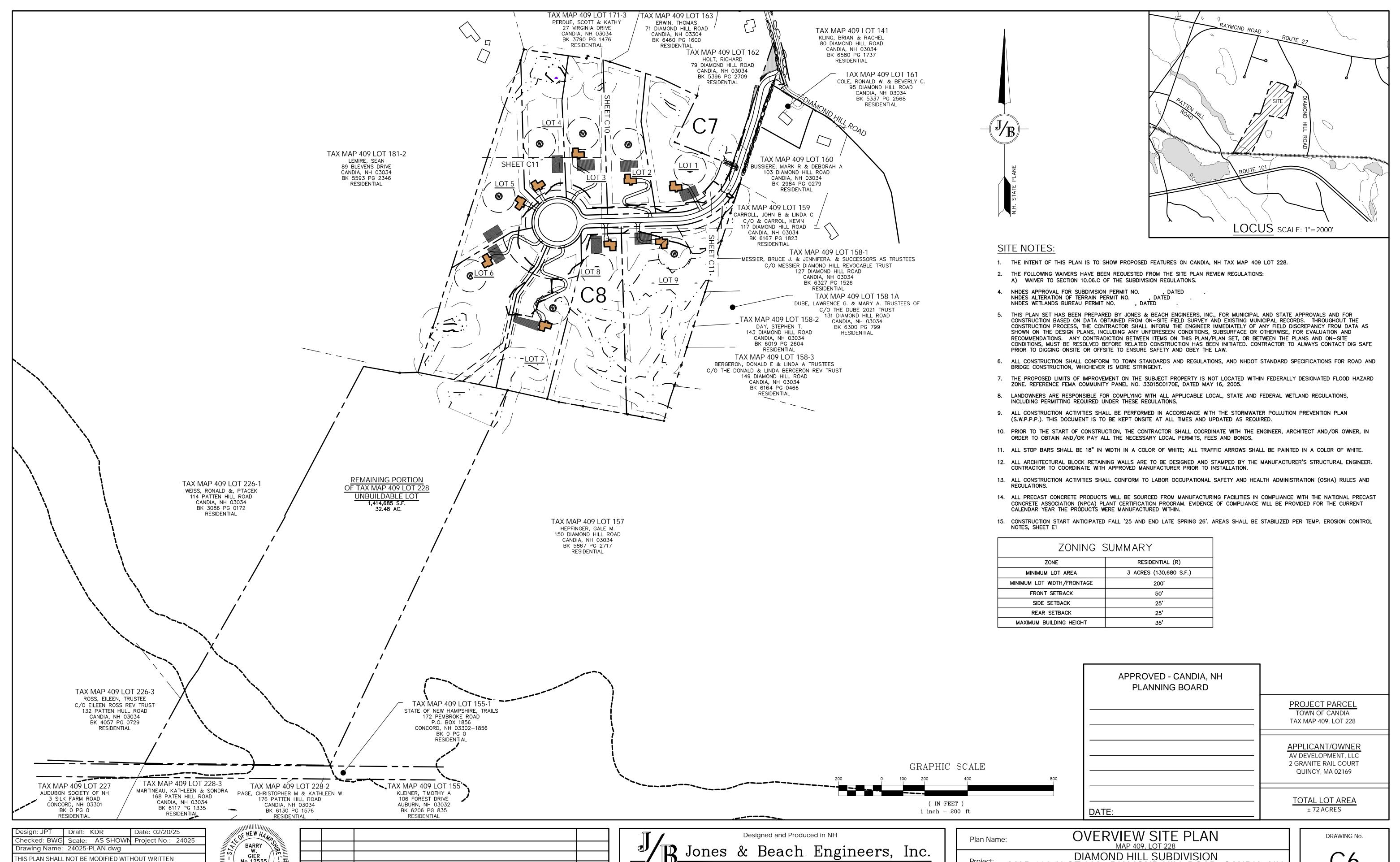
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REVISED PER PB COMMENTS

**ISSUED FOR REVIEW** 

REVISION

AV DEVELOPMENT, LLC 2 GRANITE RAIL COURT, QUINCY, MA 02169 SHEET 12 OF 30 JBE PROJECT NO. 24025





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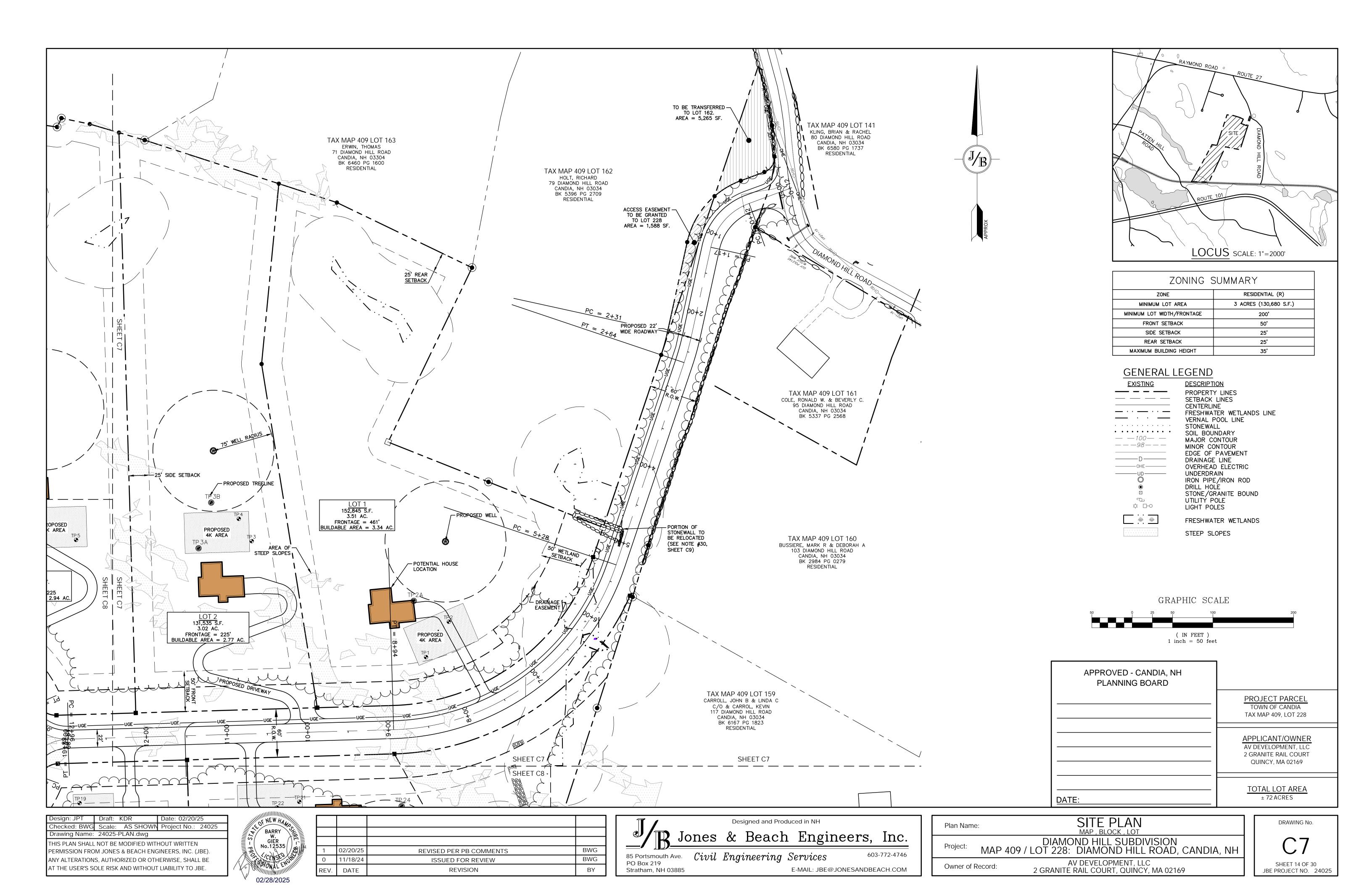
85 Portsmouth Ave. Civil Engineering Services 603-772-4746 PO Box 219 E-MAIL: JBE@JONESANDBEACH.COM Stratham, NH 03885

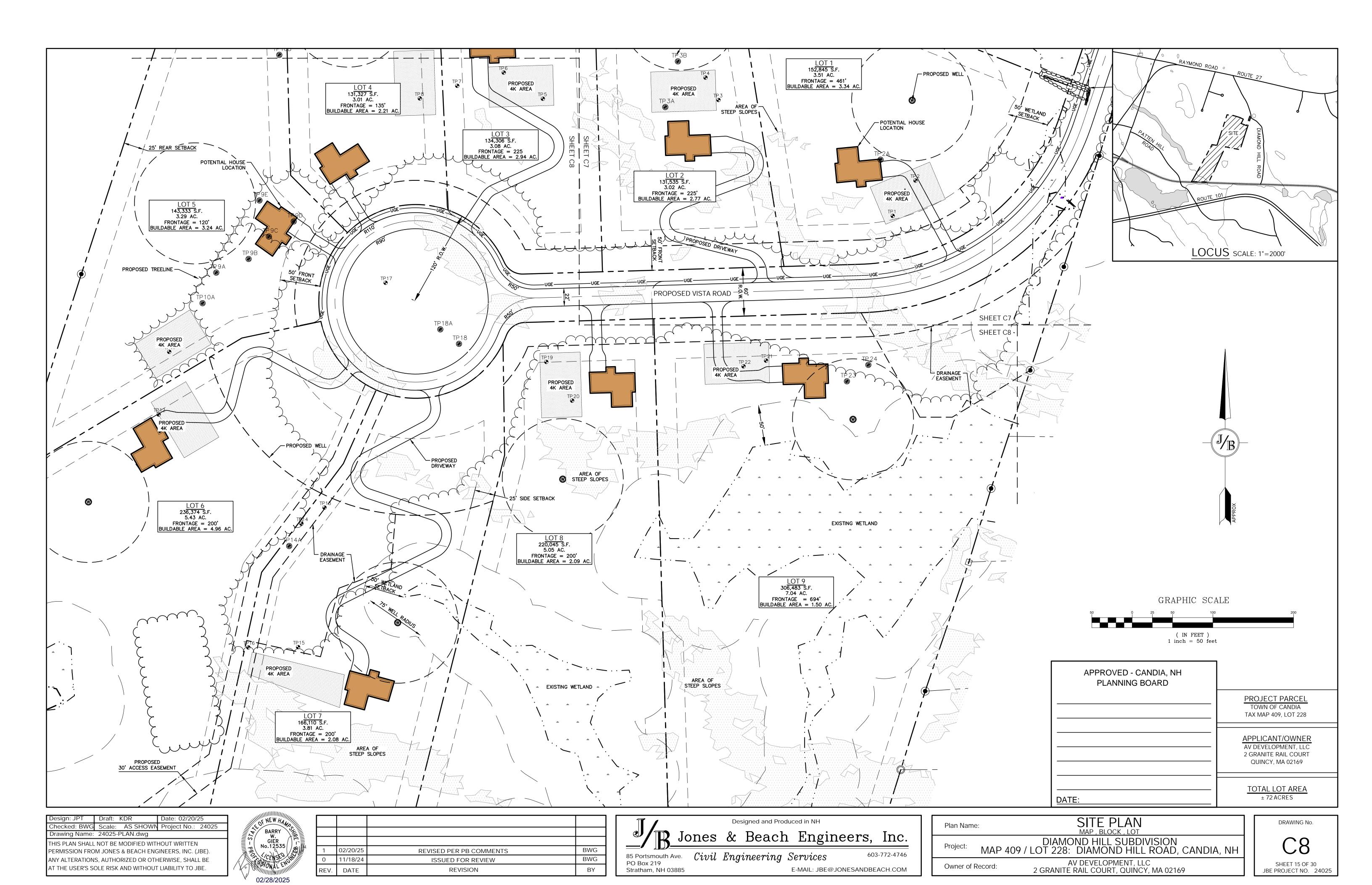
Plan Nam	e: OVERVIEW SITE FEATU MAP 409, LOT 228
Project:	DIAMOND HILL SUBDIVISION MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NE
Owner of	Record: AV DEVELOPMENT, LLC

2 GRANITE RAIL COURT, QUINCY, MA 02169

Owner of Record:

SHEET 13 OF 30 JBE PROJECT NO. 24025







# GRADING AND DRAINAGE NOTES:

- UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM FIELD OBSERVATION AND THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. NEITHER JONES & BEACH ENGINEERS, INC., NOR ANY OF THEIR EMPLOYEES TAKE RESPONSIBILITY FOR THE LOCATION OF ANY UNDERGROUND STRUCTURES AND/OR UTILITIES NOT SHOWN THAT MAY EXIST. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UNDERGROUND STRUCTURES AND/OR UTILITIES LOCATED PRIOR TO EXCAVATION WORK BY CALLING 888-DIG-SAFE (888-344-7233).
- 2. VERTICAL DATUM: NH STATE PLANE. HORIZONTAL DATUM: NAD83
- 3. ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
- 4. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED. SEE CONSTRUCTION SEQUENCE ON SHEET E1.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO HAVE THE PROJECT'S LAND SURVEYOR STAKE OR FLAG CLEARING LIMITS. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED.
- 6. ALL ROOF DRAINS FROM BUILDING SHALL END 5' OUTSIDE THE BUILDING LIMITS AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AND WITNESS AT THE END. ALL EXTERIOR ROOF DOWNSPOUTS ARE TO BE INSTALLED WITH OVERFLOW DEVICES.
- 7. ALL SWALES AND DETENTION PONDS ARE TO BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- PROPOSED RIM ELEVATIONS OF DRAINAGE STRUCTURES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES.
- ALL SWALES AND ANY SLOPES GREATER THAN 3:1 SHALL BE STABILIZED WITH NORTH AMERICAN GREEN S75 EROSION CONTROL BLANKETS (OR AN EQUIVALENT APPROVED IN WRITING BY THE ENGINEER), UNLESS
- 10. ALL DRAINAGE AND SANITARY STRUCTURE INTERIOR DIAMETERS (4' MIN) SHALL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS. CATCH BASINS SHALL HAVE 3' DEEP SUMPS WITH GREASE HOODS, UNLESS OTHERWISE NOTED.
- 11. ALL DRAINAGE STRUCTURES SHALL BE PRECAST, UNLESS OTHERWISE SPECIFIED.
- 12. ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC H20 LOADING AND SHALL BE INSTALLED ACCORDINGLY.
- 13. IMMEDIATELY APPLY AND COMPACT STONE BASE FOR BUILDING PAD TO  $+/-\frac{1}{2}$ " PRIOR TO EXCAVATING INTERIOR AND PERIMETER FOOTINGS.
- 14. IN AREAS WHERE CONSTRUCTION IS PROPOSED ADJACENT TO ABUTTING PROPERTIES, THE CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING ALONG PROPERTY LINES IN ALL AREAS WHERE SILT FENCING
- 15. ALL DRAINAGE PIPE SHALL BE NON-PERFORATED ADS N-12 OR APPROVED EQUAL.
- 16. STONE INLET PROTECTION SHALL BE PLACED AT ALL CATCH BASINS. SEE DETAIL WITHIN THE DETAIL SHEETS.
- 17. LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY ALL GOVERNING AUTHORITIES. THE GENERAL CONTRACTOR SHALL STRICTLY ADHERE TO THE EPA SWPPP DURING CONSTRUCTION OPERATIONS.
- 18. ALL EXPOSED AREAS SHALL BE SEEDED AS SPECIFIED WITHIN 3 DAYS OF FINAL GRADING AND ANYTIME CONSTRUCTION STOPS FOR LONGER THAN 3 DAYS.
- 19. MAINTAIN EROSION CONTROL MEASURES AFTER EACH RAIN EVENT OF 0.5" OR GREATER IN A 24 HOUR PERIOD AND AT LEAST ONCE A WEEK.
- 20. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE, AS THE GENERAL CONTRACTOR SHALL TAKE ALL
- NECESSARY PRECAUTIONS TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- 21. CONSTRUCTION VEHICLES SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE TO THE EXTENT POSSIBLE THROUGHOUT CONSTRUCTION.
- PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.

22. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE

- 23. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION.
- 24. SEDIMENT SHALL BE REMOVED FROM ALL SEDIMENT BASINS BEFORE THEY ARE 25% FULL.
- 25. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS.
- 26. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED, IF DEEMED NECESSARY BY ON-SITE INSPECTION BY ENGINEER AND/OR REGULATORY OFFICIALS.
- 27. SEE ALSO EROSION AND SEDIMENT CONTROL SPECIFICATIONS ON SHEET E1.
- 28. STUMPS, RUBBLE, ROAD CONSTRUCTION MATERIAL AND BRUSH SHALL BE DEPOSITED WITHIN AREAS DESIGNATED WASTING AREA. WASTING AREA SHALL NOT BE BELOW GROUND WATER ELEVATION AND SHALL BE CAPPED WITH 4" LOAM AND SEEDED.
- 29. CONSTRUCTION OF ROADWAY INFRASTRUCTURE IS SCHEDULED TO BEGIN JUNE 1ST AND BE COMPLETED BY AUGUST 30TH. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME. AT NO TIME SHALL AN AREA IN EXCESS OF 5 ACRES BE EXPOSED AT ANY ONE TIME BEFORE DISTURBED AREAS ARE
- 30. PORTIONS OF EXISTING STONEWALL TO BE REMOVED SHALL BE RELOCATED ALONG THE EXISTING PROPERTY LINE ADJACENT TO THE SECTION BEING REMOVED.

	WETLAND IMPACT (SF)
WETLAND IMPACT #1	576
WETLAND IMPACT #2	4270
TOTAL	4846

PROJECT PARCEL TOWN OF CANDIA

TAX MAP 409, LOT 228

APPLICANT/OWNER AV DEVELOPMENT, LLC 2 GRANITE RAIL COURT QUINCY, MA 02169

TOTAL LOT AREA ± 72 ACRES

Design: JPT | Draft: KDR Date: 02/20/25 Checked: BWG Scale: AS SHOWN Project No.: 24025 Drawing Name: 24025-PLAN.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN ERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE T THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.

OF NEW HAMP BARRY W. GIER No.12535 02/28/2025

02/20/25 BWG **REVISED PER PB COMMENTS** BWG 11/18/24 **ISSUED FOR REVIEW** DATE REVISION BY REV.

Designed and Produced in NH

PO Box 219

Stratham, NH 03885

85 Portsmouth Ave.

Civil Engineering Services 603-772-4746 E-MAIL: JBE@JONESANDBEACH.COM Plan Name: OVERVIEW GRADING & DRAINAGE PLAN

GRAPHIC SCALE

( IN FEET )

Owner of Record:

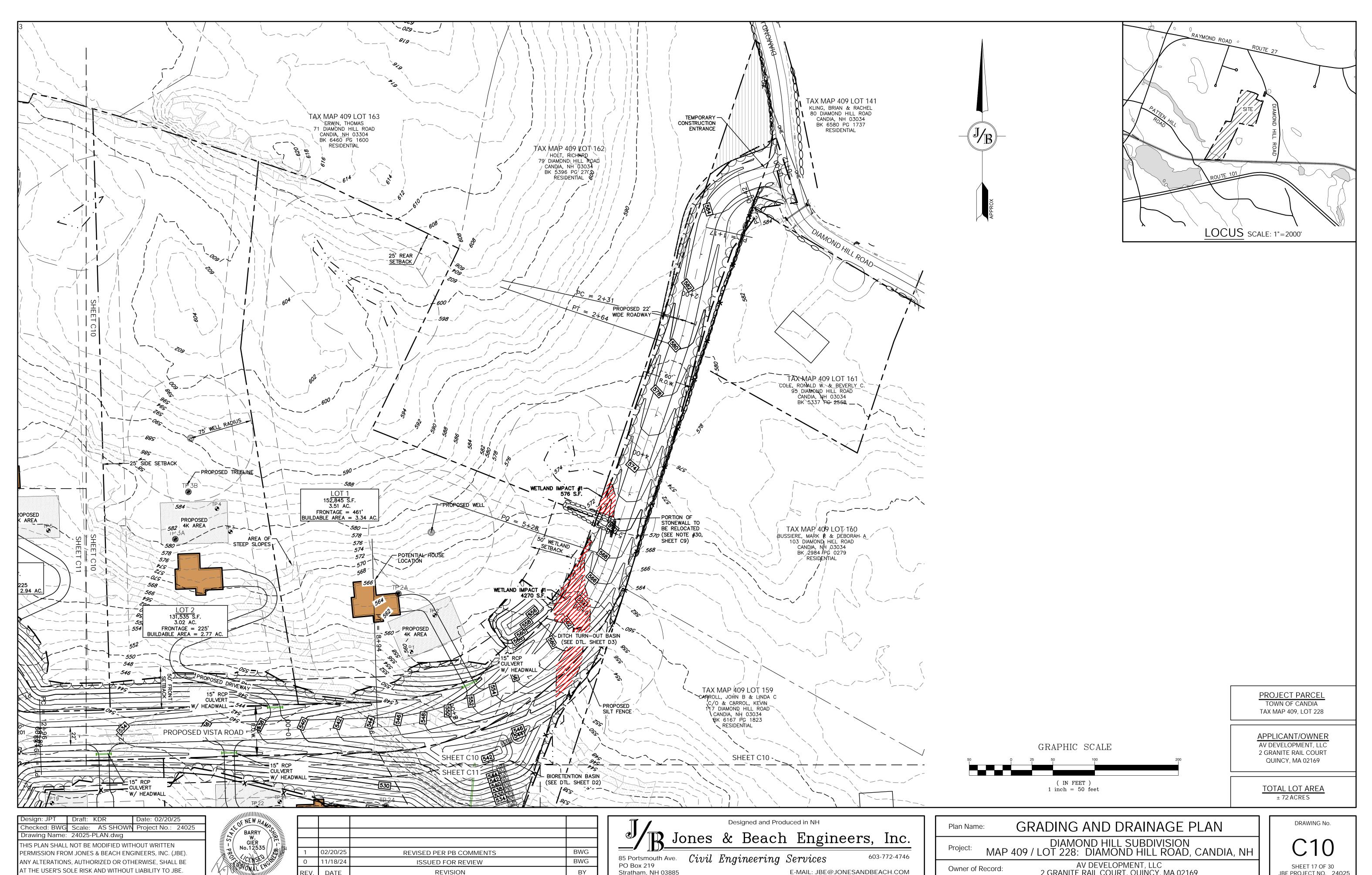
1 inch = 200 feet

DIAMOND HILL SUBDIVISION Project: MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH

AV DEVELOPMENT, LLC

2 GRANITE RAIL COURT, QUINCY, MA 02169

SHEET 16 OF 30 JBE PROJECT NO. 24025



PO Box 219

Stratham, NH 03885

BY

REVISION

DATE

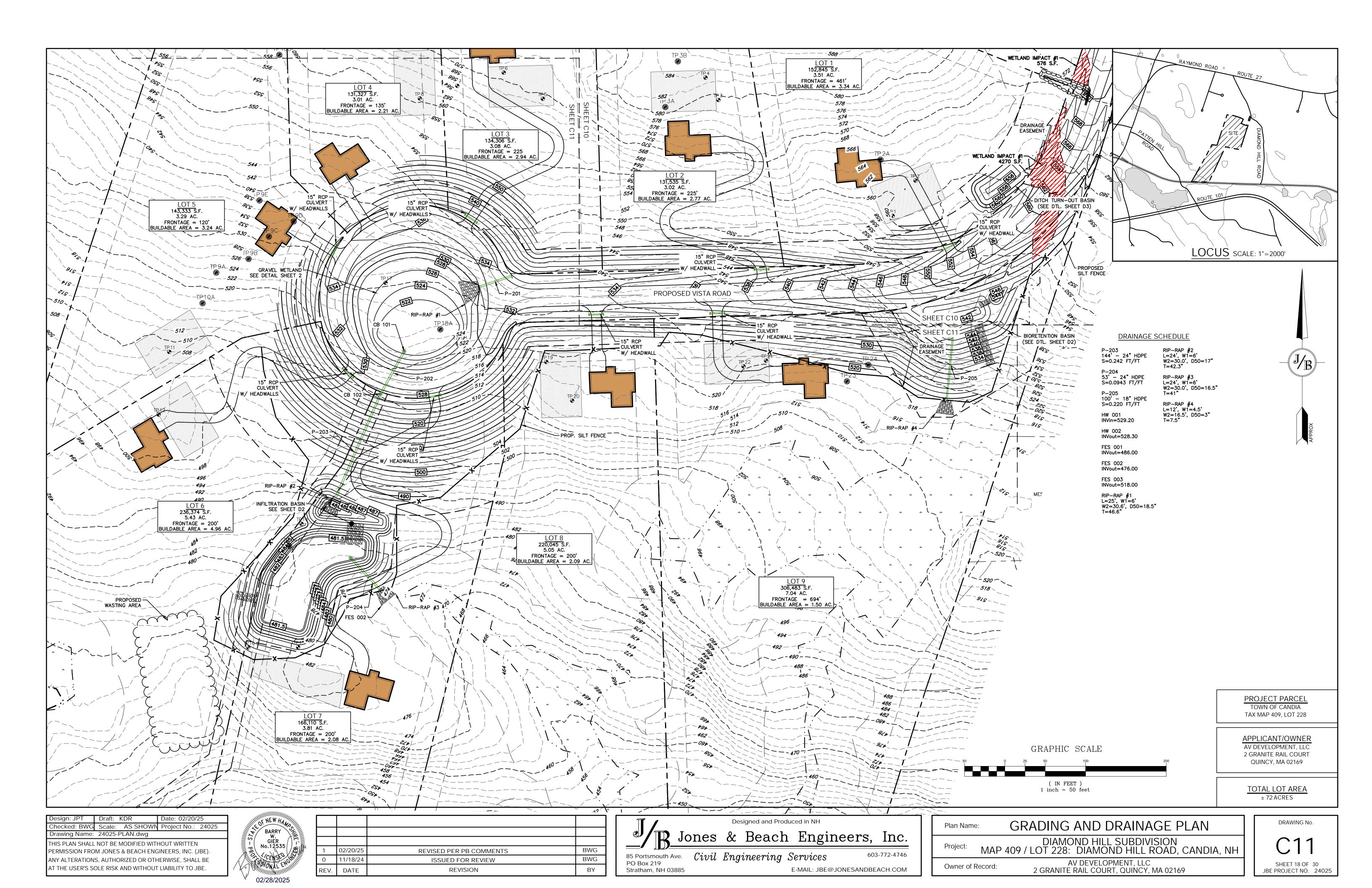
02/28/2025

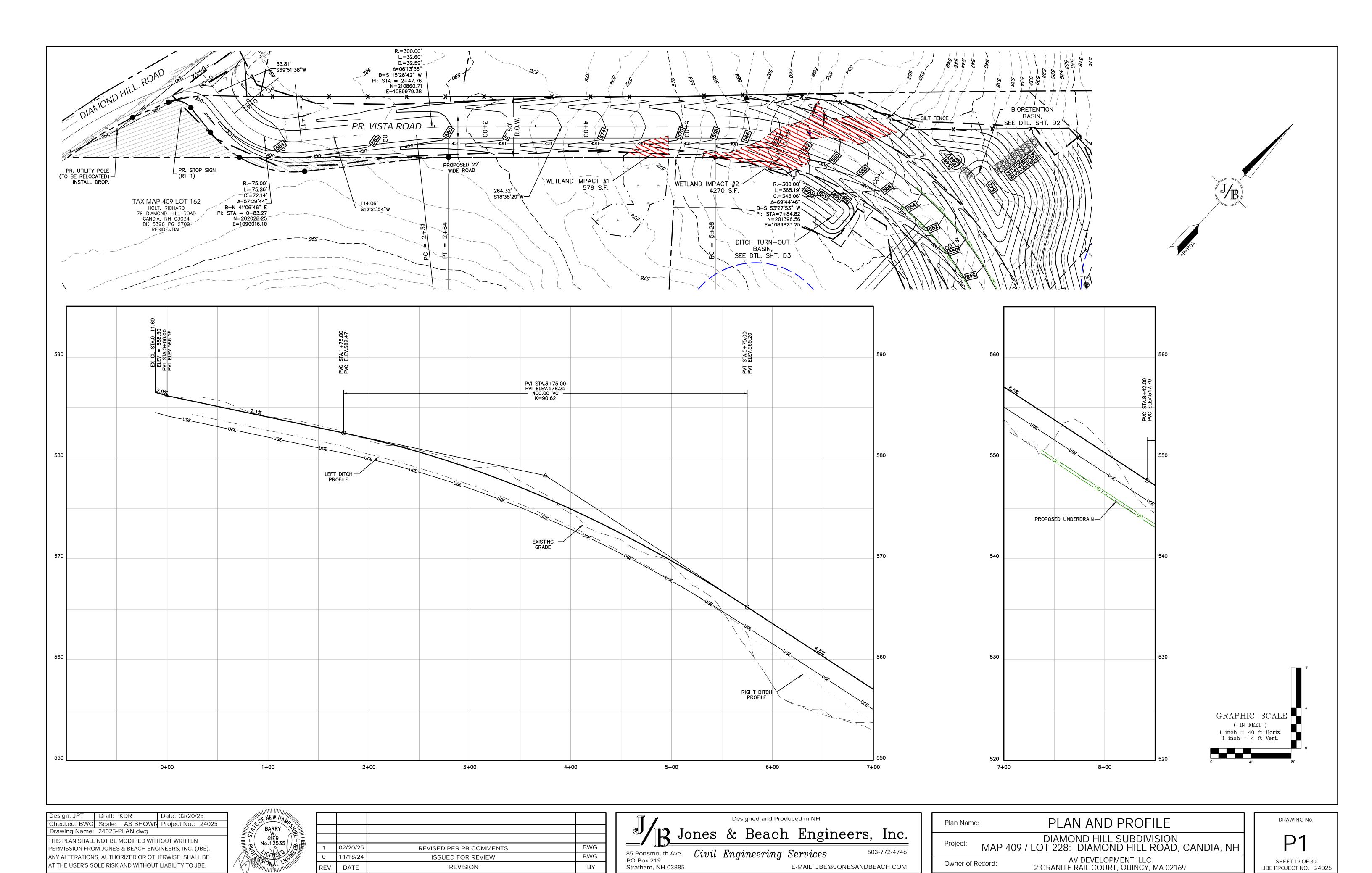
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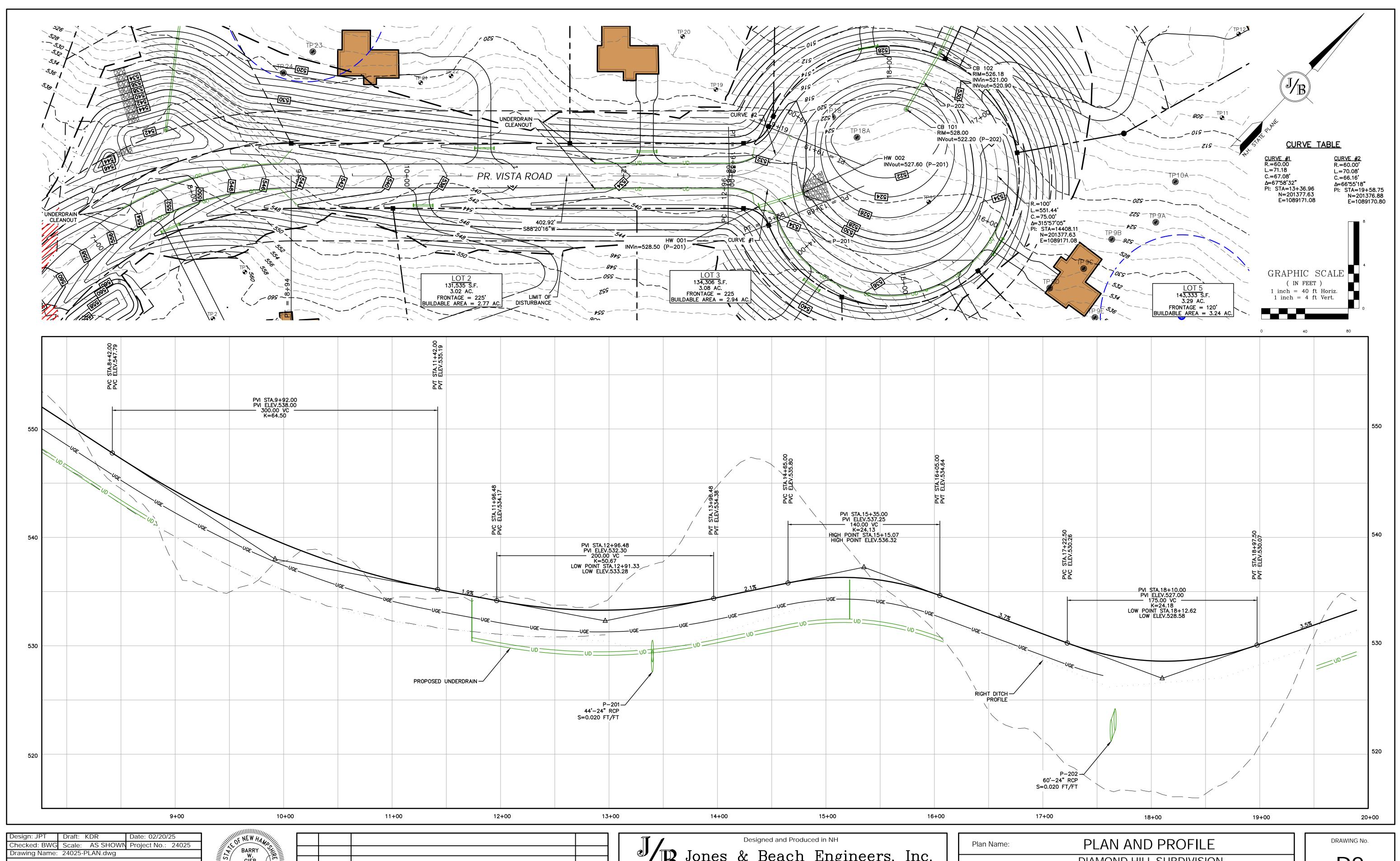
AV DEVELOPMENT, LLC 2 GRANITE RAIL COURT, QUINCY, MA 02169 JBE PROJECT NO. 24025

Owner of Record:

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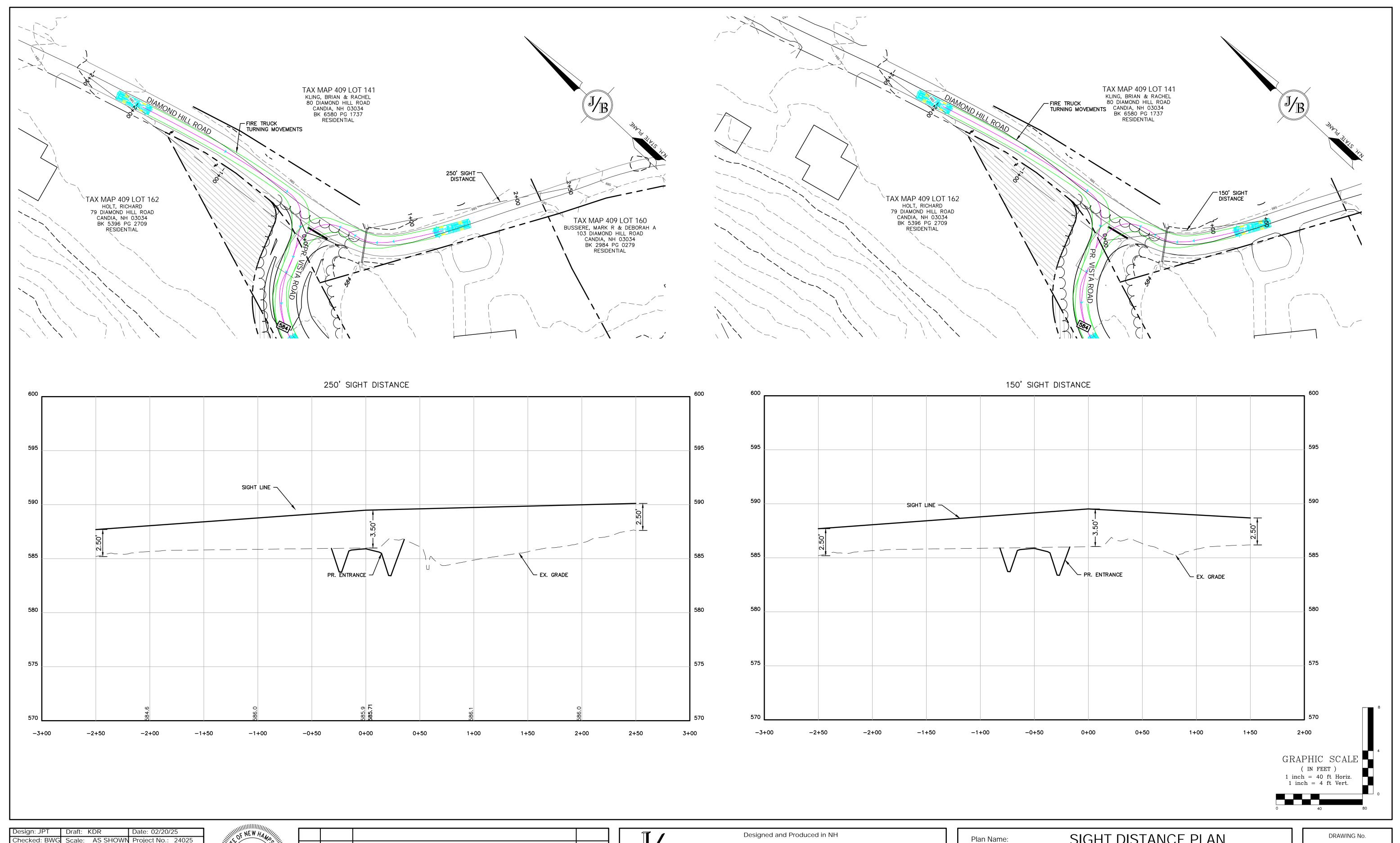
Plan Name: PLAN AND PROFILE

Project: DIAMOND HILL SUBDIVISION MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH

Owner of Record: AV DEVELOPMENT, LLC 2 GRANITE RAIL COURT, QUINCY, MA 02169

P2

SHEET 20 OF 30
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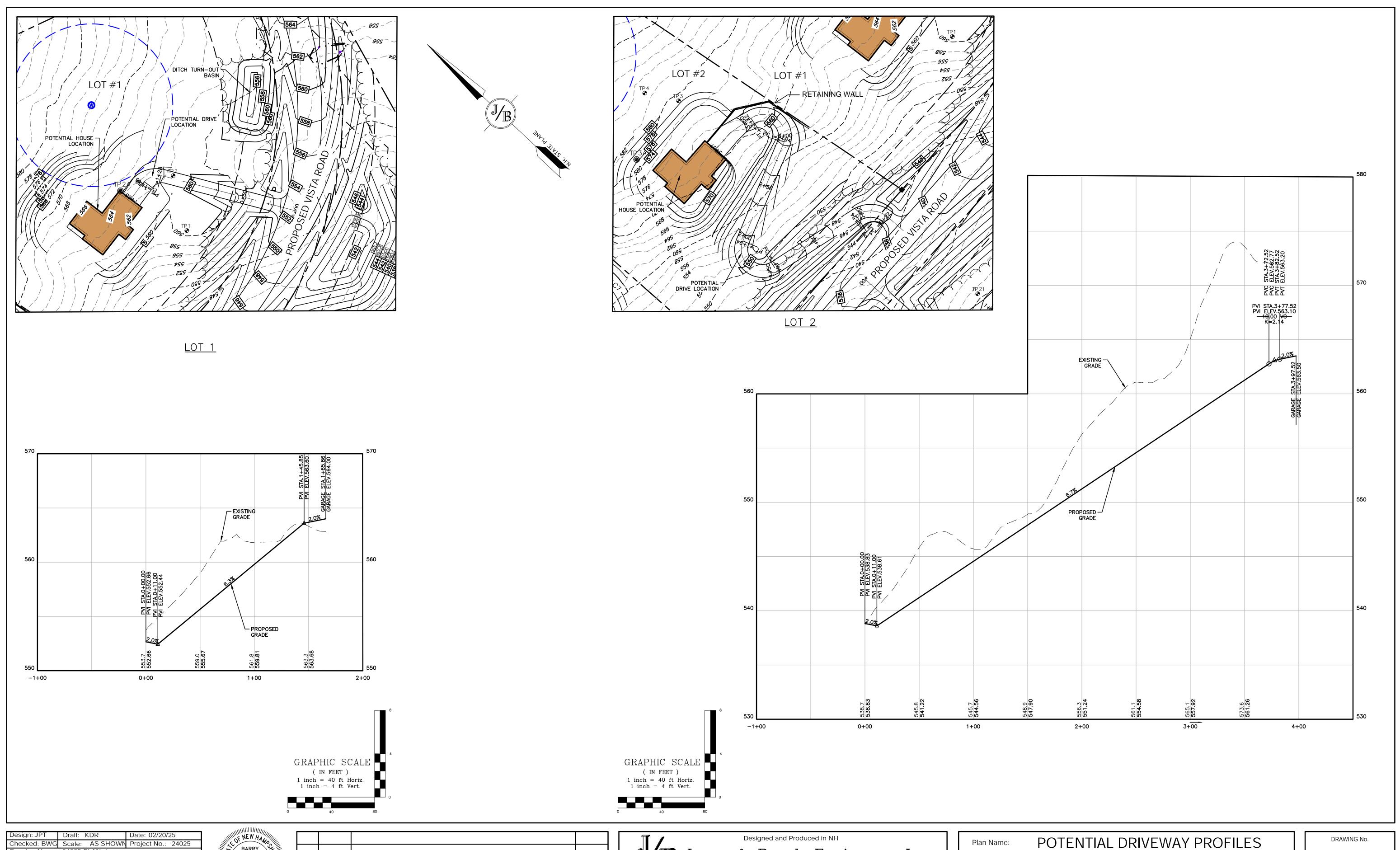
Beach Engineers, Inc.

603-772-4746

E-MAIL: JBE@JONESANDBEACH.COM

Plan Nam	SIGHT DISTANCE PLAN	
Project:	DIAMOND HILL SUBDIVISION MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, I	NH
Owner of	ecord: AV DEVELOPMENT, LLC 2 GRANITE RAIL COURT, QUINCY, MA 02169	

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SHEET 21 OF 30
JBE PROJECT NO. 24025



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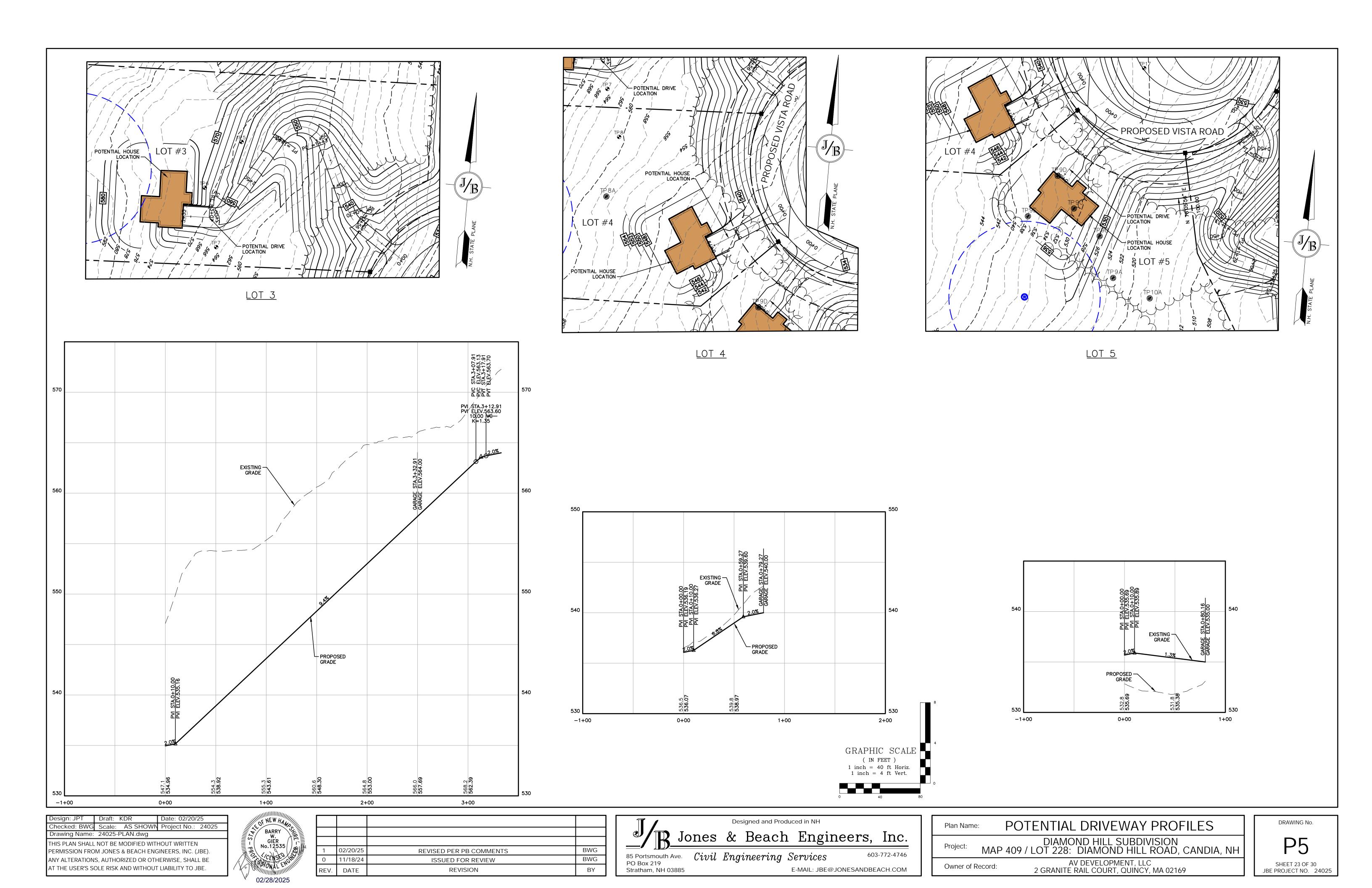
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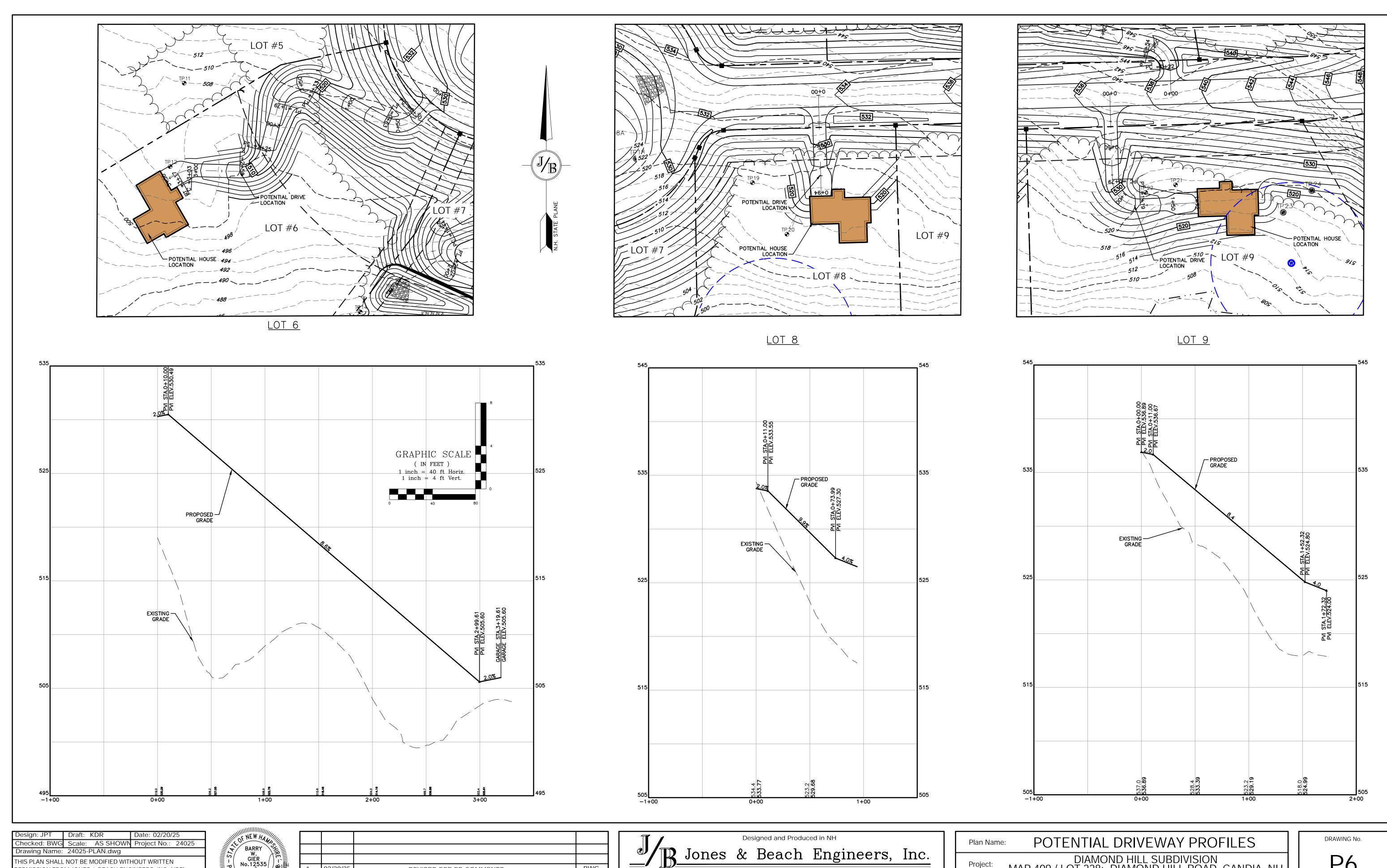
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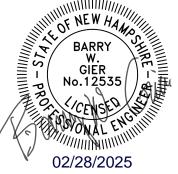
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Plan Name:	POTENTIAL DRIVEWAY PROFILES
Project:	DIAMOND HILL SUBDIVISION MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH
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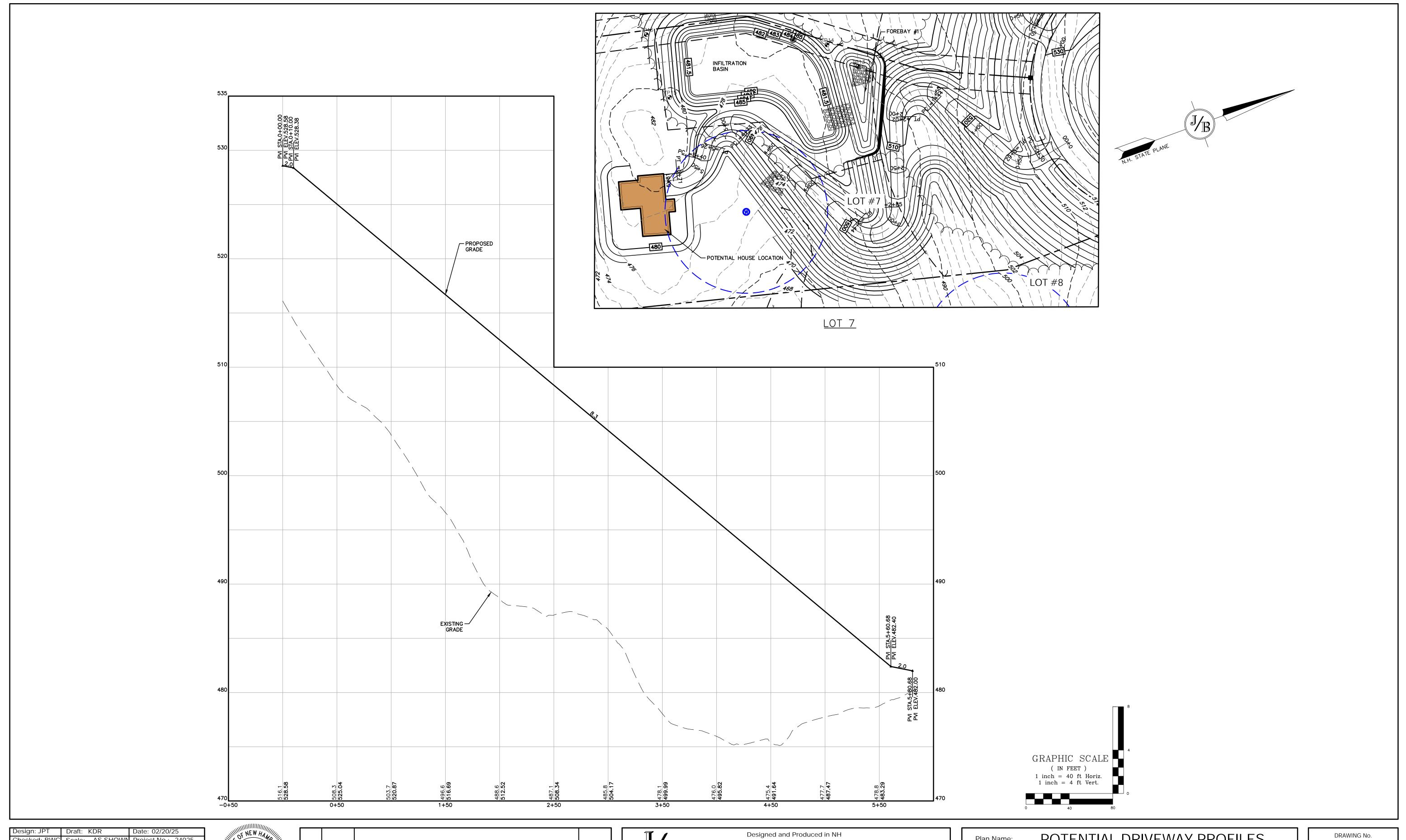


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DIAMOND HILL SUBDIVISION MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH AV DEVELOPMENT, LLC 2 GRANITE RAIL COURT, QUINCY, MA 02169 Owner of Record:

SHEET 24 OF 30 JBE PROJECT NO. 24025



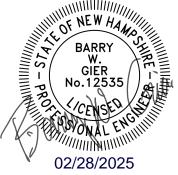
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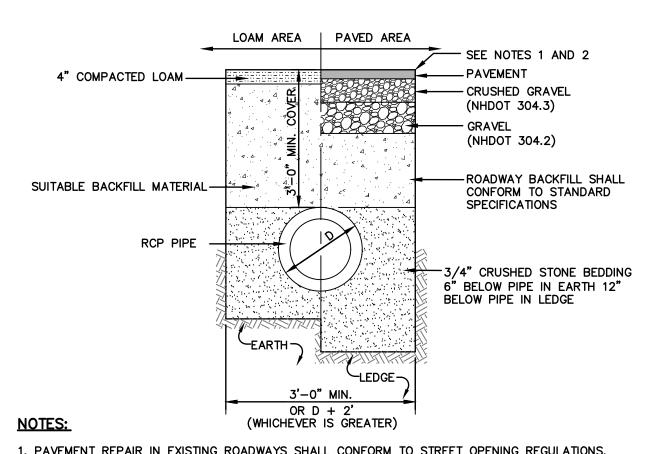
Plan Name	POTENTIAL DRIVEWAY PROFILES
Project:	DIAMOND HILL SUBDIVISION MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, I

Owner of Record:

AV DEVELOPMENT, LLC 2 GRANITE RAIL COURT, QUINCY, MA 02169 P7

SHEET 25 OF 30

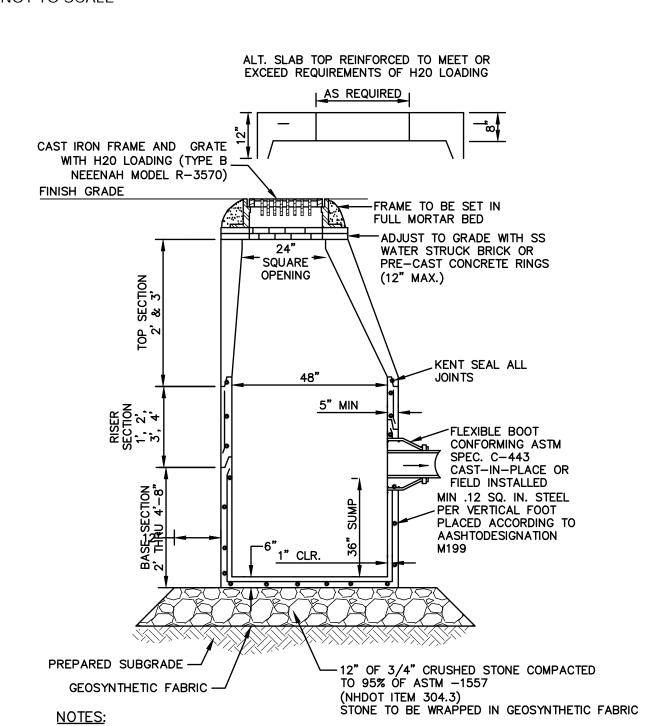
JBE PROJECT NO. 24025



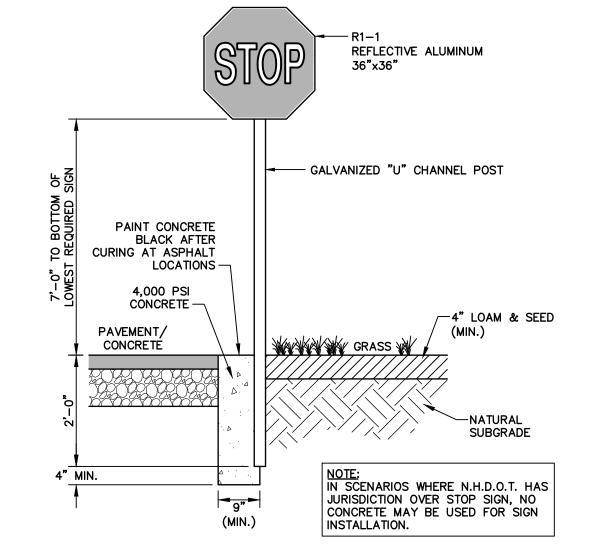
- 1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS.
- 2. NEW ROADWAY CONSTRUCTION SHALL CONFORM WITH PROJECT AND TOWN SPECIFICATIONS.
- 3. ALL BACKFILL MATERIALS ARE TO BE INSTALLED IN 12" MAXIMUM LIFTS AND COMPACTED TO 95% OF A MODIFIED PROCTOR (ASTM D-1557.)

# DRAINAGE TRENCH

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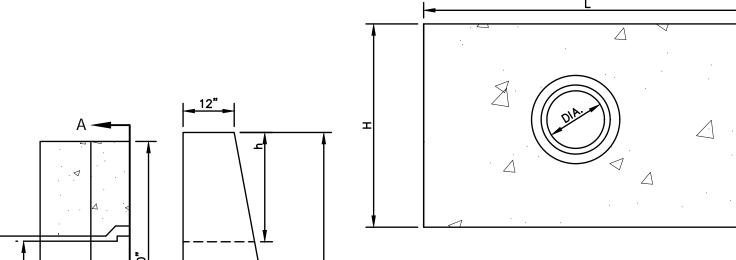


- 1. BASE SECTION SHALL BE MONOLITHIC WITH 48" INSIDE DIAMETER.
- 2. ALL SECTIONS SHALL BE DESIGNED FOR H20 LOADING.
- 3. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI, TYPE II PORTLAND CEMENT.
- 4. FRAMES AND GRATES SHALL BE HEAVY DUTY AND DESIGNED FOR H20 LOADING
- 5. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS SO AS TO BE WATERTIGHT.
- 6. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
- 7. ALL CATCH BASIN FRAMES AND GRATES SHALL BE NHDOT CATCH BASIN TYPE ALTERNATE 1 OR NEENAH R-3570 OR APPROVED EQUAL (24"x24" TYPICAL).
- 8. STANDARD CATCH BASIN FRAME AND GRATE(S) SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM, BUT NO MORE THAN 12"), OR PRECAST
- 9. ALL BACKFILL MATERIALS ARE TO BE INSTALLED IN 12" MAXIMUM LIFTS AND COMPACTED TO 95% OF A MODIFIED PROCTOR. 10. MORTAR SHALL BE TYPE 1/11 PORTLAND CEMENT.
- 11. ALL BACKFILL MATERIALS ARE TO BE INSTALLED IN 12" MAXIMUM LIFTS AND COMPACTED TO 95% OF A MODIFIED PROCTOR (ASTM D-1557)



STOP SIGN (R1-1)

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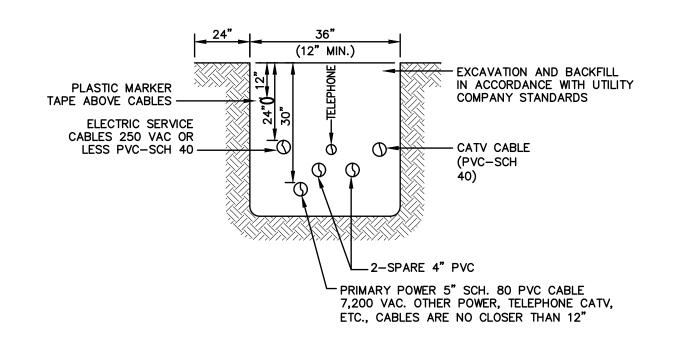
# SECTION A-A

	DIA.	HEADWALL LENGTH	HEADWALL HEIGHT	FILL HEIGHT	PIPE COVER	HEADWALL BOTTOM WIDTH
\\ \  \  \	D	L	Н	FH	h	W
	12"	4'-2"	3'-9"	1'-6"	1'-3"	1'-11"
\	15"	5'-11"	4'-2"	1'-6"	1'-5"	2'-0"
<del></del>	18"	6'-11"	4'-5"	1'-6"	1'-5"	2'-1"
NOTES: LONGITUDINAL SECTION	24"	8'-10"	4'-11"	1'-6"	1'-5"	2'-3"

- ALL DIMENSIONS GIVEN IN FEET & INCHES. PROVIDE BELL END AT INLET HEADWALL, AND SPIGOT END AT OUTLET END HEADWALL.
   CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS. CEMENT TO BE TYPE II PORTLAND CEMENT PER ASTM C-150. REINFORCING TO MEET OR EXCEED ASTM A-615 GRADE 60 DEFORMED BARS.
- 4. 1" THREADED INSERTS PROVED FOR FINAL ATTACHMENT IN FIELD BY OTHERS. 5. ALL BACKFILL MATERIALS ARE TO BE INSTALLED IN 12" MAXIMUM LIFTS AND COMPACTED TO 95% OF A MODIFIED PROCTOR (ASTM D-1557).

# PRECAST CONCRETE HEADWALL

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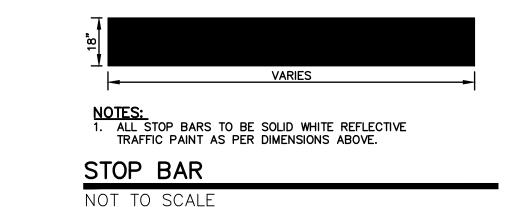


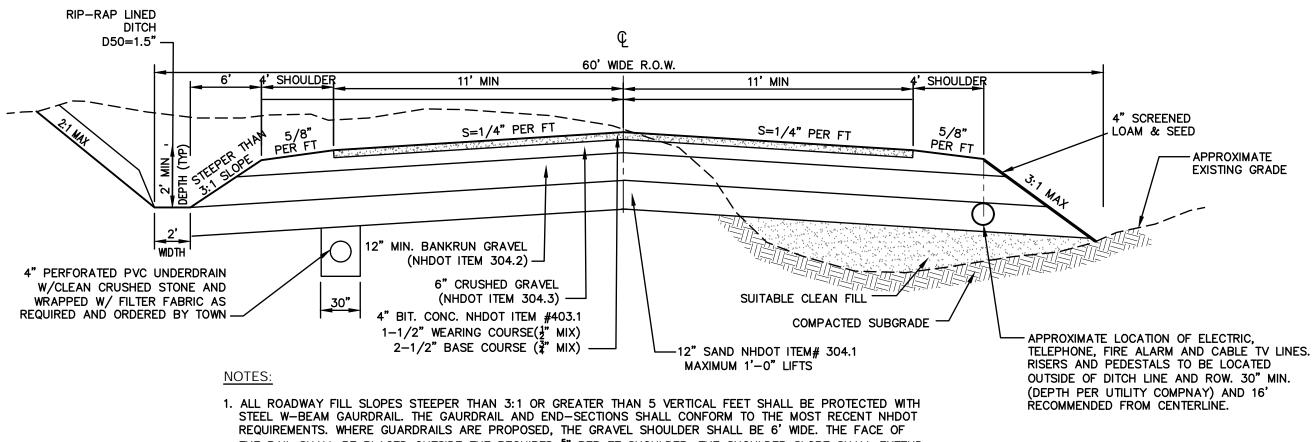
NOTE: ALL UTILITIES SHALL BE REVIEWED AND APPROVED BY APPROPRIATE UTILITY COMPANY.

# L=24.63' √586.05 ¬ 585.40 **TEMPORARY** CONSTRUCTION ENTRANCE PR. VISTA ROAD L=105.37' N 18°35'29" E R=105.00' 170.00' Δ=57\*29'44" B=S 41°06'46" C=101.00'

INTERSECTION DETAIL: DIAMOND HILL ROAD & VISTA ROAD

SCALE: 1'' = 20'





- THE RAIL SHALL BE PLACED OUTSIDE THE REQUIRED FOR PER FT SHOULDER. THE SHOULDER SLOPE SHALL EXTEND AT LEAST 12" BEHIND THE POSTS, PRIOR TO THE SLOPE BREAK
- 2. REMOVE ALL ORGANICS, TOPSOIL AND MATERIAL YIELDING TO A 10 TON ROLLER. SUBBASE AREAS THAT CONTAIN UNSUITABLE MATERIALS MUST BE EXCAVATED TO A DEPTH NO LESS THAN 36" BELOW FINISH GRADE AND BE REPLACED WITH GRAVEL COMPACTED TO 95% MODIFIED PROCTOR.
- 3. ALL MATERIALS TO BE AS SPECIFIED PER TOWN STANDARDS AND NHDOT, WHICHEVER IS MOST STRINGENT. GRADATION AND COMPACTION TEST RESULTS (95% MIN.) SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
- 4. TOWN MAY REQUIRE UNDERDRAIN, ADDITIONAL GRAVEL AND/OR ADDITIONAL DRAINAGE IF SOIL CONDITIONS WARRANT.
- 5. WOVEN GEOTEXTILE FABRIC SHALL BE PLACED ABOVE SUBGRADE AT ALL WETLAND CROSSINGS.

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TYPICAL ROADWAY SECTION

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CATCH BASIN

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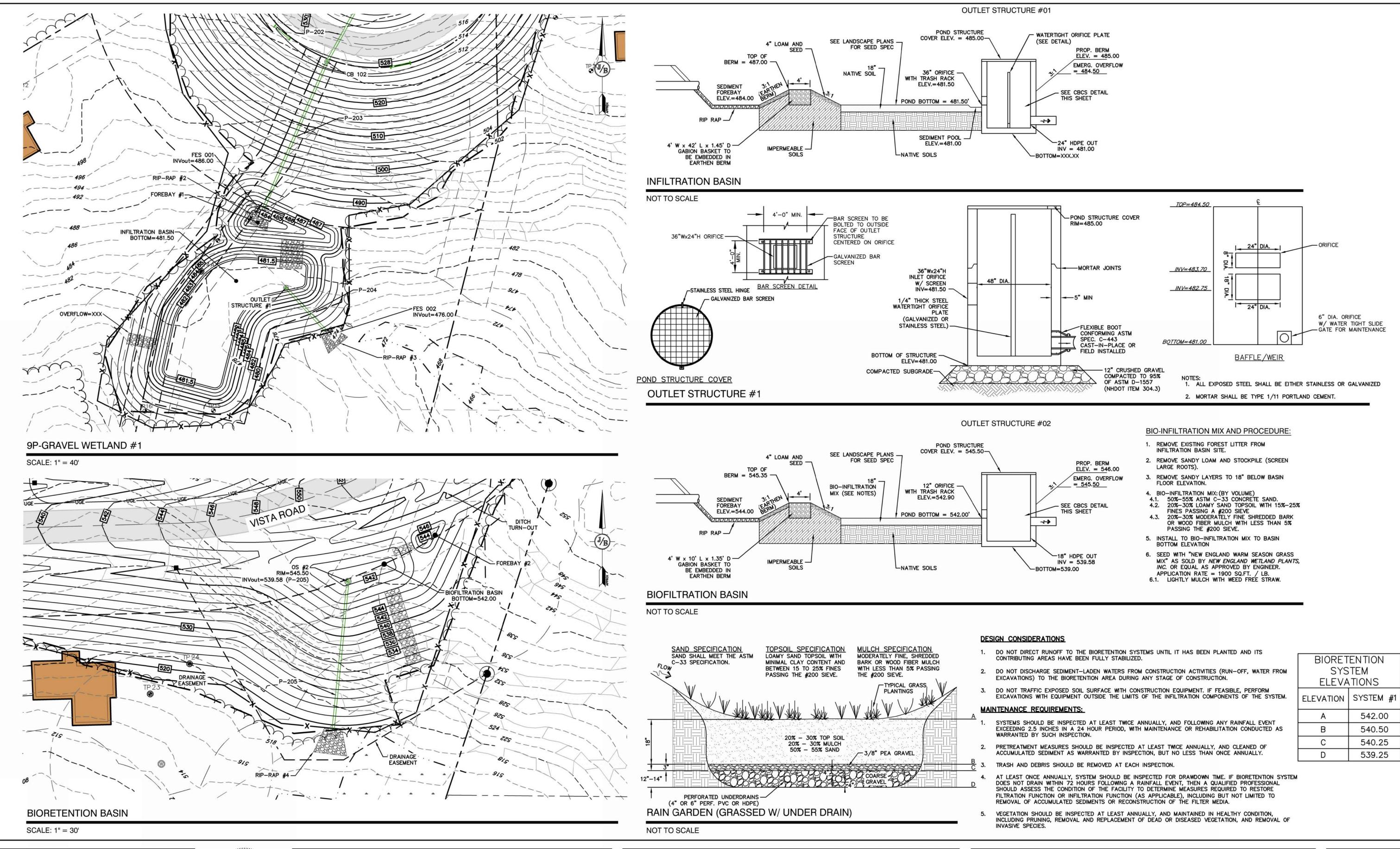
**UTILITY TRENCH** 

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DETAIL SHEET Plan Name: DIAMOND HILL SUBDIVISION MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH AV DEVELOPMENT, LLC Owner of Record: 2 GRANITE RAIL COURT, QUINCY, MA 02169

DRAWING No. JBE PROJECT NO. 24025



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Project: MAP 409 /

Plan Name:

DIAMOND HILL SUBDIVISION MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH

**DETAIL SHEET** 

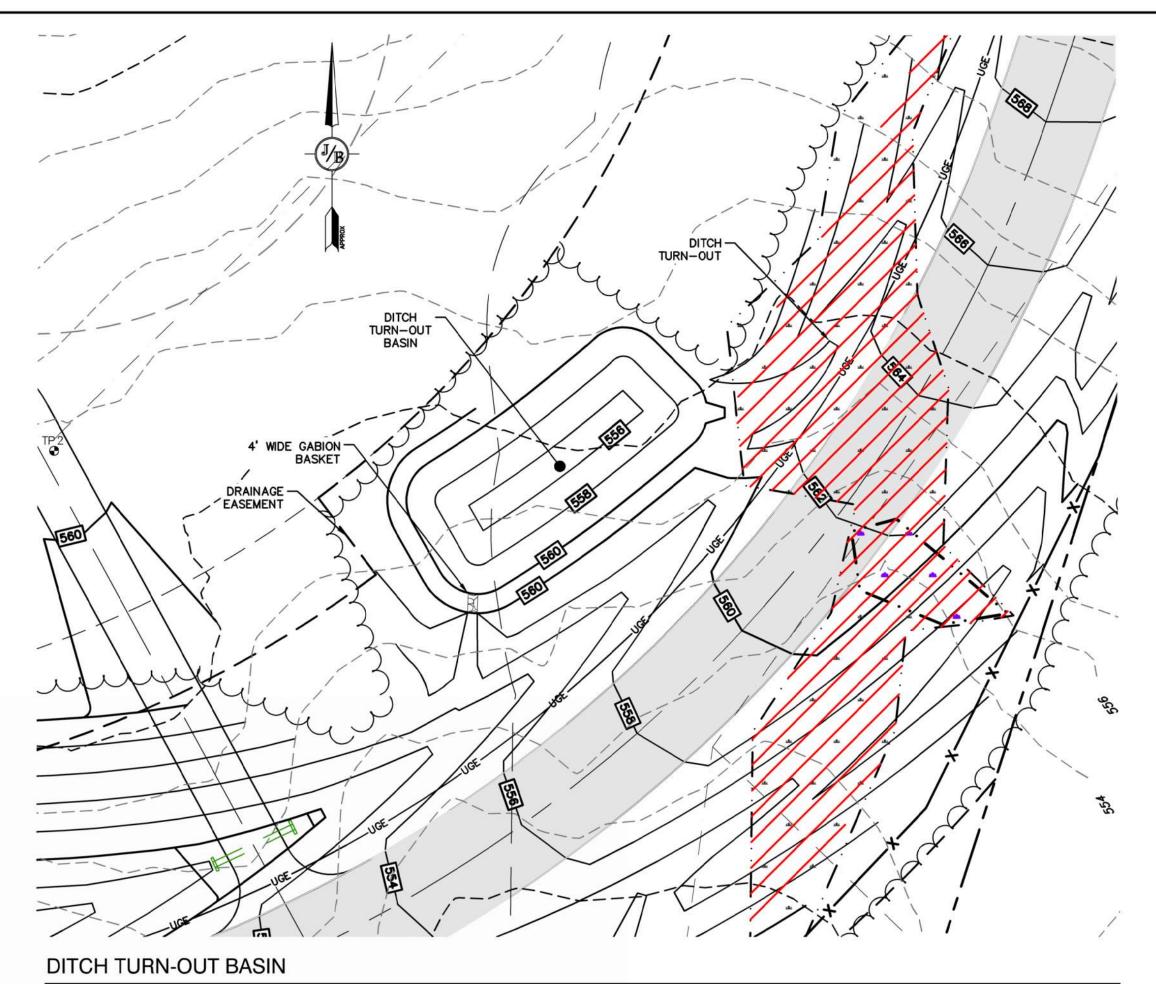
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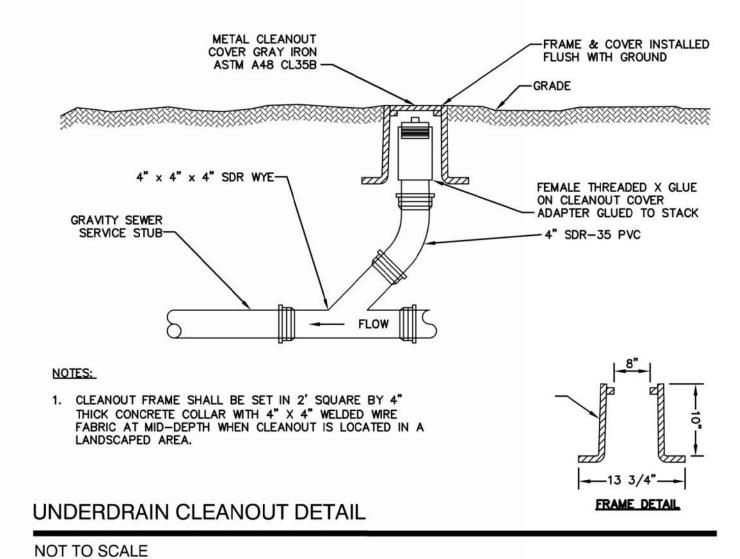
DRAWING No.

D2

SHEET 27 OF 30
JBE PROJECT NO. 24025



SCALE: 1" = 20'



# SEE LANDSCAPE PLANS FOR SEED SPEC (IF NO SPEC: PLANT BASIN W/ N.E. WETLAND SEED MIX) 4" LOAM & SEED SLOPE VARIES (SEE PLAN) POND BOTTOM = 556.00 NATIVE SOILS 4' W x 4' L GABION BASKET TO BE EMBEDDED IN EARTHEN BERM

# DETENTION POND MAINTENANCE MAINTENANCE IS NECESSARY IF DETENTION / RETENTION BA

MAINTENANCE IS NECESSARY IF DETENTION/RETENTION BASINS ARE TO CONTINUE TO FUNCTION AS ORIGINALLY DESIGNED. A LOCAL GOVERNMENT, A DESIGNATED GROUP SUCH AS A HOME-OWNERS' ASSOCIATION OR SOME INDIVIDUAL MUST BE ASSIGNED RESPONSIBILITY FOR MAINTAINING THE STRUCTURES AND THE BASIN AREA. A MAINTENANCE PLAN SHOULD BE DEVELOPED THAT OUTLINES THE MAINTENANCE OPERATIONS AND A SCHEDULE FOR CARRYING OUT THE PROCEDURES. THE FOLLOWING ARE SOME ITEMS WHICH SHOULD BE CONSIDERED IN FORMULATING A MAINTENANCE PLAN

- 1. EMBANKMENT -- THE EMBANKMENT SHOULD BE INSPECTED ANNUALLY TO DETERMINE IF RODENT BURROWS, WET AREAS, OR EROSION OF THE FILL IS TAKING PLACE.
- VEGETATION —— THE VEGETATED AREAS OF THE STRUCTURE SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH. LIME AND FERTILIZER SHOULD BE APPLIED AS NECESSARY AS DETERMINED BY SOIL TESTS. TREES AND SHRUBS SHOULD BE KEPT OFF THE EMBANKMENT AND EMERGENCY SPILLWAY AREAS.
- 3. INLETS —— PIPE INLETS AND SPILLWAY STRUCTURES SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. ACCUMULATED DEBRIS AND SEDIMENT SHOULD BE REMOVED. IF PIPES ARE COATED, THE COATING SHOULD BE CHECKED AND REPAIRED AS NECESSARY.
- 4. OUTLETS -- PIPE OUTLETS SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. THE CONDITION OF THE PIPES SHOULD BE NOTED AND REPAIRS MADE AS NECESSARY. IF EROSION IS TAKING PLACE, MEASURES SHOULD BE TAKEN TO STABILIZE AND PROTECT THE AFFECTED AREA OF THE OUTLET.
- 5. SEDIMENT -- SEDIMENT SHOULD BE CONTINUALLY CHECKED IN THE BASIN. WHEN SEDIMENT ACCUMULATIONS REACH THE PREDETERMINED DESIGN ELEVATION, THEN SEDIMENT SHOULD BE REMOVED AND PROPERLY DISPOSED OF.
- 6. SAFETY INSPECTIONS —— ALL PERMANENT IMPOUNDMENTS SHOULD BE INSPECTED BY A QUALIFIED PROFESSIONAL ENGINEER ON A PERIODIC BASIS. IF THERE IS POTENTIAL FOR SIGNIFICANT DAMAGE OR LOSS OF LIFE DOWNSTREAM, THEN THE INSPECTION SHOULD BE CARRIED OUT ANNUALLY. THE DESIGNATED INDIVIDUAL OR GROUP SHOULD ALSO MAKE INSPECTIONS AFTER EVERY MAJOR STORM EVENT.

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Engineers Engineers For Services

Stratham, NH 03885

E-MAIL: JBE@JONESANDBEACH.COM

Plan Nam	DETAIL SHEET
Project:	DIAMOND HILL SUBDIVISION MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH

Owner of Record:

AV DEVELOPMENT, LLC
2 GRANITE RAIL COURT, QUINCY, MA 02169

D3
SHEET 28 OF 30
JBE PROJECT NO. 24025

# TEMPORARY EROSION CONTROL NOTES THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME. AT NO TIME SHALL AN AREA IN EXCESS OF 5

- ACRES BE EXPOSED AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
- EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED, DIRECTED BY THE ENGINEER.
- ALL DISTURBED AREAS (INCLUDING POND AREAS BELOW THE PROPOSED WATERLINE) SHALL BE RETURNED TO PROPOSED GRADES AND ELEVATIONS. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 6" OF SCREENED ORGANIC LOAM AND SEEDED WITH 2. SEEDBED PREPARATION SEED MIXTURE 'C' AT A RATE NOT LESS THAN 1.10 POUNDS OF SEED PER 1,000 S.F. OF AREA (48 LBS. / ACRE).
- 4. SILT FENCES AND OTHER BARRIERS SHALL BE INSPECTED EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 0.5" OR GREATER. ALL DAMAGED AREAS SHALL BE REPAIRED, AND SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED
- AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
- AREAS MUST BE SEEDED AND MULCHED OR OTHERWISE PERMANENTLY STABILIZED WITHIN 3 DAYS OF FINAL GRADING, OR TEMPORARILY STABILIZED WITHIN 14 DAYS OF THE INITIAL DISTURBANCE OF SOIL. ALL AREAS SHALL BE STABILIZED WITHIN 45
- ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING NORTH AMERICAN GREEN S75 EROSION CONTROL BLANKETS (OR AN EQUIVALENT APPROVED IN WRITING BY THE ENGINEER) ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER OCTOBER 15th, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3" OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.
- 10. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
  - a. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
  - b. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
  - c. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED; OR
  - d. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 11. FUGITIVE DUST CONTROL IS REQUIRED TO BE CONTROLLED IN ACCORDANCE WITH ENV-A 1000, AND THE PROJECT IS TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES.
- 12. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR'S NAME, ADDRESS, AND PHONE NUMBER SHALL BE SUBMITTED TO DES
- 13. PRIOR TO CONSTRUCTION, A PHASING PLAN THAT DELINEATES EACH PHASE OF THE PROJECT SHALL BE SUBMITTED. ALL TEMPORARY SEDIMENT BASINS THAT WILL BE NEEDED FOR DEWATERING WORK AREAS SHALL BE LOCATED AND IDENTIFIED ON THIS
- 14. IN ORDER TO ENSURE THE STABILITY OF THE SITE AND EFFECTIVE IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROL MEASURES SPECIFIED IN THE PLANS FOR THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL BE IN STRICT COMPLIANCE WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS IN ADDITION TO THOSE CALLED FOR IN THE SWPPP:
  - a. A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL <u>OR</u> A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE ("MONITOR") SHALL BE EMPLOYED TO INSPECT THE SITE FROM THE START OF ALTERATION OF TERRAIN ACTIVITIES UNTIL THE SITE IS IN FULL COMPLIANCE WITH THE SITE SPECIFIC PERMIT ("PERMIT"
  - b. DURING THIS PERIOD, THE MONITOR SHALL INSPECT THE SUBJECT SITE AT LEAST ONCE A WEEK, AND IF POSSIBLE, DURING ANY 1/2 INCH OR GREATER RAIN EVENT (I.E. 1/2 INCH OF PRECIPITATION OR MORE WITHIN A 24 HOUR PERIOD). IF UNABLE TO BE PRESENT DURING SUCH A STORM, THE MONITOR SHALL INSPECT THE SITE WITHIN 24 HOURS OF THIS
  - c. THE MONITOR SHALL PROVIDE TECHNICAL ASSISTANCE AND RECOMMENDATIONS TO THE CONTRACTOR ON THE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROLS REQUIRED TO MEET THE REQUIREMENTS OF RSA 485 A:17 AND ALL APPLICABLE DES PERMIT CONDITIONS.

—16" POST DEPTH (MIN)

# SEEDING SPECIFICATIONS

- 1. GRADING AND SHAPING A. SLOPES SHALL NOT BE STEEPER THAN 2:1 WITHOUT APPROPRIATE EROSION CONTROL MEASURES AS
- SPECIFIED ON THE PLANS (3:1 SLOPES OR FLATTER ARE PREFERRED). B. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.

- A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
- B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND FERTILIZER AND LIME MIXED INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

- 3. ESTABLISHING A STAND A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. TYPES AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE
  - AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS. PER 1,000 SQ.FT. NITROGEN(N), 50 LBS. PER ACRE OR 1.1 LBS. PER 1,000 SQ.FT. PHOSPHATE(P205), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ.FT.

POTASH(K20), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ.FT.

TAKE 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED.

-MAXIMUM RECOMMENDED

CONTOUR LINES \_\_\_

600' RECOMMENDED MAXIMUM

-FLARE ENDS UPHILL TO PROVIDE

7. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE

1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING

2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED

3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE

4. SEDIMENT DEPOSITS THAT ARE REMOVED, OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED,

PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE DONE IMMEDIATELY.

REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.

SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.

DISPOSED AS DIRECTED BY THE ENGINEER. THE AREA DISTURBED BY THE REMOVAL SHALL BE

STORAGE AREA

TRAPPING CAPABILITY AND SEDIMENT

UNCONTROLLED SLOPE LENGTH

- (NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER ACRE OF 5-10-10.)
- B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
- C. REFER TO THE 'SEEDING GUIDE' AND 'SEEDING RATES' TABLES ON THIS SHEET FOR APPROPRIATE SEED MIXTURES AND RATES OF SEEDING. ALL LEGUMES (CROWNVETCH, BIRDSFOOT, TREFOIL AND FLATPEA) MUST BE INOCULATED WITH THEIR SPECIFIC INOCULANT PRIOR TO THEIR INTRODUCTION TO THE SITE.
- D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20th OR FROM AUGUST 10th TO SEPTEMBER 1st.

→ DISTURBED AREA

(UPHILL) -

\_\_\_\_\_

SMOOTHED AND REVEGETATED.

MAINTENANCE:

A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING. B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING. HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90 LBS PER 1000 S.F.

# 5. MAINTENANCE TO ESTABLISH A STAND

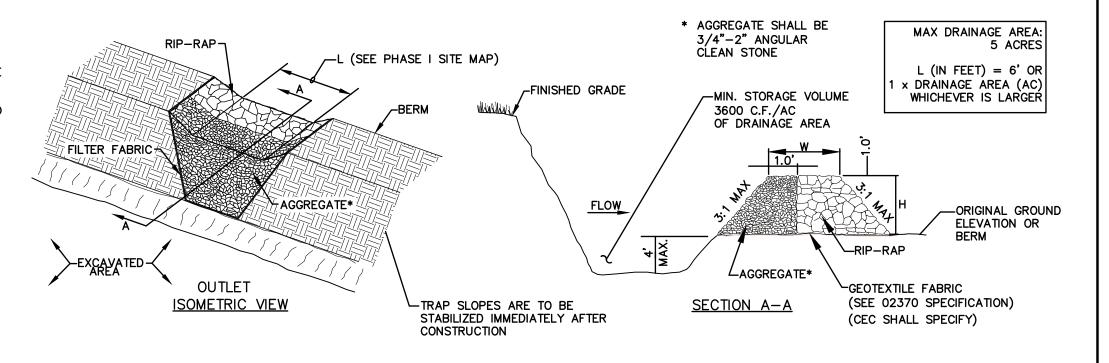
- A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED
- B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS
- C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, ANNUAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

FENCING IS TO RUN WITH THE

CONTOURS ACROSS A SLOPE

# MAINTENANCE NOTES:

- SEDIMENT TRAPS MUST BE INSPECTED AND MUST BE CLEANED WHEN THE ORIGINAL CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR LESS, AS REQUIRED BY THE
- **GOVERNING AGENCY** 2. ALL MATERIAL EXCAVATED FROM BEHIND SEDIMENT BARRIERS OR FROM TRAPS SHALL BE INCORPORATED INTO ON-SITE SOILS OR SPREAD OUT ON AN UPLAND PORTION OF THE SITE AND STABILIZED.
- 3. VERIFY THAT NO EROSION IS OCCURRING AT DISCHARGE POINTS TO AND FROM IMPOUNDMENTS AND VERIFY THAT TRAP SIDE SLOPES ARE STABILIZED AND SHOW NO SIGNS
- 4. THE TRAP SHALL BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIBLE.
- 5. TRAP TO BE CLEANED WHEN 50% OF ORIGINAL VOLUME IS
- 6. THE MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.



# TEMPORARY SEDIMENT TRAP

NOT TO SCALE

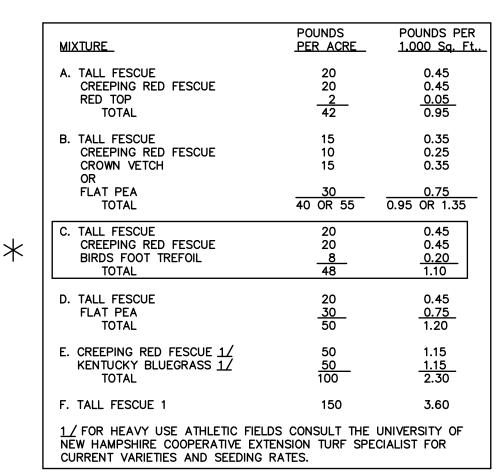
SEEDING	DROUGHTY	WELL	WELL	POORLY
MIXTURE 1/		DRAINED	DRAINED	DRAINED
A	FAIR	GOOD	GOOD	FAIR
B	POOR	GOOD	FAIR	FAIR
C	POOR	GOOD	EXCELLENT	GOOD
D	FAIR	EXCELLENT	EXCELLENT	POOR
A	GOOD	GOOD	GOOD	FAIR
C	GOOD	EXCELLENT	EXCELLENT	FAIR
A B C	GOOD GOOD	GOOD GOOD EXCELLENT	GOOD FAIR EXCELLENT	FAIR POOR FAIR
E	FAIR	EXCELLENT	EXCELLENT	<u>2/</u>
F	FAIR	EXCELLENT	EXCELLENT	2/
	A B C C A B C C	A FAIR B POOR C POOR D FAIR A GOOD C GOOD  A GOOD C GOOD  E FAIR	A FAIR GOOD C POOR GOOD C POOD GOOD C EXCELLENT	SEEDING MIXTURE 1/ DROUGHTY DRAINED  A FAIR GOOD GOOD B POOR GOOD FAIR C POOR GOOD EXCELLENT  D FAIR EXCELLENT EXCELLENT  A GOOD GOOD GOOD C GOOD EXCELLENT  A GOOD GOOD FAIR C GOOD EXCELLENT EXCELLENT  A GOOD GOOD FAIR C GOOD EXCELLENT EXCELLENT  E FAIR EXCELLENT EXCELLENT

GRAVEL PIT, SEE NH-PM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS. / REFER TO SEEDING MIXTURES AND RATES IN TABLE BELOW.

2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREA AND ATHLETIC FIELDS.

NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR OATS AT A RATE OF 2.5 LBS. PER 1000 S.F. AND SHALL BE PLACED PRIOR TO OCTOBER 15th, IF PERMANENT SEEDING NOT YET COMPLETE.

# SEEDING GUIDE



SEEDING RATES

E-MAIL: JBE@JONESANDBEACH.COM

# CONSTRUCTION SEQUENCE

- 1. PRIOR TO THE START OF ANY ACTIVITY, IT IS THE RESPONSIBILITY OF THE SITE'S SITE DEVELOPER (OR OWNER) TO FILE A NOTICE OF INTENT (NOI) FORM WITH THE ENVIRONMENTAL PROTECTION AGENCY (EPA) IN ORDER TO GAIN COVERAGE UNDER THE NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES. A PRE CONSTRUCTION MEETING IS TO BE HELD WITH ALL DEPARTMENT HEADS PRIOR TO THE START OF CONSTRUCTION.
- 2. WETLAND BOUNDARIES ARE TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION. AT LEAST A TEMPORARY CULVERT OR ROADBED TO BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.
- 3. CUT AND REMOVE TREES IN CONSTRUCTION AREA AS REQUIRED OR DIRECTED.
- 4. INSTALL SILT FENCING, HAY BALES AND CONSTRUCTION ENTRANCES PRIOR TO THE START OF CONSTRUCTION. THESE ARE TO BE MAINTAINED UNTIL THE FINAL PAVEMENT SURFACING AND LANDSCAPING AREAS ARE ESTABLISHED.
- 5. CLEAR, CUT, GRUB AND DISPOSE OF DEBRIS IN APPROVED FACILITIES. THIS INCLUDES ANY REQUIRED DEMOLITION OF EXISTING STRUCTURES, UTILITIES, ETC. 6. CONSTRUCT AND/OR INSTALL TEMPORARY OR PERMANENT SEDIMENT AND/OR DETENTION BASIN(S) AS REQUIRED. THESE FACILITIES
- SHALL BE INSTALLED AND STABILIZED PRIOR TO DIRECTING RUN-OFF TO THEM. 7. STRIP LOAM AND PAVEMENT, OR RECLAIM EXISTING PAVEMENT WITHIN LIMITS OF WORK PER THE RECOMMENDATIONS OF THE PROJECT ENGINEER AND STOCKPILE EXCESS MATERIAL. STABILIZE STOCKPILE AS NECESSARY.
- PERFORM PRELIMINARY SITE GRADING IN ACCORDANCE WITH THE PLANS, INCLUDING THE CONSTRUCTION OF ANY RETAINING WALLS
- 9. INSTALL THE SEWER AND DRAINAGE SYSTEMS FIRST, THEN ANY OTHER UTILITIES IN ACCORDANCE WITH THE PLAN AND DETAILS. ANY CONFLICTS BETWEEN UTILITIES ARE TO BE RESOLVED WITH THE INVOLVEMENT AND APPROVAL OF THE ENGINEER.
- 10. ALL SWALES AND DRAINAGE STRUCTURES ARE TO BE CONSTRUCTED AND STABILIZED PRIOR TO HAVING RUN-OFF DIRECTED TO THEM. 11. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE DITCHES, CHECK DAMS, SEDIMENT TRAPS, ETC., TO PREVENT EROSION ON THE SITE AND PREVENT ANY SILTATION OF ABUTTING WATERS AND/OR PROPERTY.
- 12. PERFORM FINAL FINE GRADING, INCLUDING PLACEMENT OF 'SELECT' SUBGRADE MATERIALS.
- 13. PAVE ROADWAY WITH INITIAL 'BASE COURSE'.
- 14. PERFORM ALL REMAINING SITE CONSTRUCTION (i.e. CURBING, UTILITY CONNECTIONS, ETC.).
- 15. LOAM AND SEED ALL DISTURBED AREAS AND INSTALL ANY REQUIRED SEDIMENT AND EROSION CONTROL FACILITIES (i.e. RIP RAP, EROSION CONTROL BLANKETS, ETC.).
- 16. FINISH PAVING ALL ROADWAYS WITH 'FINISH' COURSE.
- 17. ALL ROADWAYS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 18. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 19. COMPLETE PERMANENT SEEDING AND LANDSCAPING.

Owner of Record:

- 20. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE BEEN 75%-85% ESTABLISHED AND SITE IMPROVEMENTS ARE COMPLETE. SMOOTH AND RE-VEGETATE ALL DISTURBED AREAS.
- 21. CLEAN SITE AND ALL DRAINAGE STRUCTURES, PIPES AND SUMPS OF ALL SILT AND DEBRIS.
- 22. INSTALL ALL PAINTED PAVEMENT MARKINGS AND SIGNAGE PER THE PLANS AND DETAILS.
- 23. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL
- 24. UPON COMPLETION OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ANY RELEVANT PERMITTING AGENCIES THAT THE CONSTRUCTION HAS BEEN FINISHED IN A SATISFACTORY MANNER.

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Drawing Name: 24025-PLAN.dwg				
THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN				
PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE).				
ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE				
AT THE USER'S SO	DLE RISK	AND WITHOUT	LIABILITY TO JE	3E.

6. SILT FENCE SHALL REMAIN IN PLACE FOR 24 MONTHS.

48" HARDWOOD

EMBEDDED IN THE GROUND A MINIMUM OF 8" AND THEN COVERED WITH SOIL.

OVERLAPPED 6", FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.

5. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.

WHEN IT IS 6" DEEP OR VISIBLE 'BULGES' DEVELOP IN THE SILT FENCE.

. WOVEN FABRIC FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.

2. THE FENCE POSTS SHALL BE A MINIMUM OF 48" LONG, SPACED A MAXIMUM 6' APART, AND DRIVEN A

4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED AND PROPERLY DISPOSED OF

3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE

FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP, MID AND BOTTOM AND

AREA OF EMBANKMENT CONSTRUCTION OR ANY

DISTURBED AREA TO BE

**CONSTRUCTION SPECIFICATIONS:** 

SILT FENCE

NOT TO SCALE

MINIMUM OF 16" INTO THE GROUND.

STABILIZED (UPHILL)



PROPEX-SILT STOP SEDIMENT

CONTROL FABRIC OR

APPROVED EQUAL

1	02/20/25	REVISED PER PB COMMENTS	BWG
0	11/18/24	ISSUED FOR REVIEW	BWG
REV.	DATE	REVISION	BY

Designed and Produced in NH

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Stratham, NH 03885

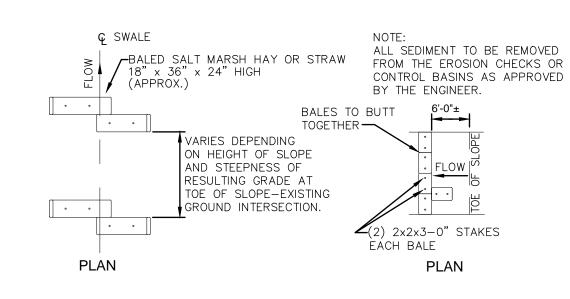
85 Portsmouth Ave. Civil Engineering Services 603-772-4746 EROSION AND SEDIMENT CONTROL DETAILS

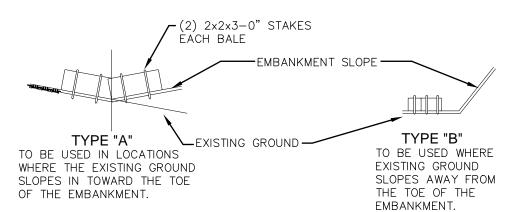
DIAMOND HILL SUBDIVISION MAP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NE

AV DEVELOPMENT, LLC

2 GRANITE RAIL COURT, QUINCY, MA 02169

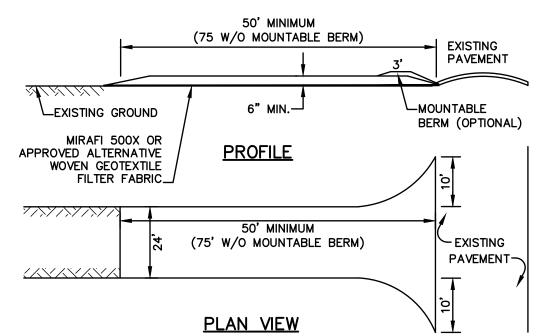
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# BALED HAY OR STRAW EROSION CHECK DETAIL

# NOT TO SCALE



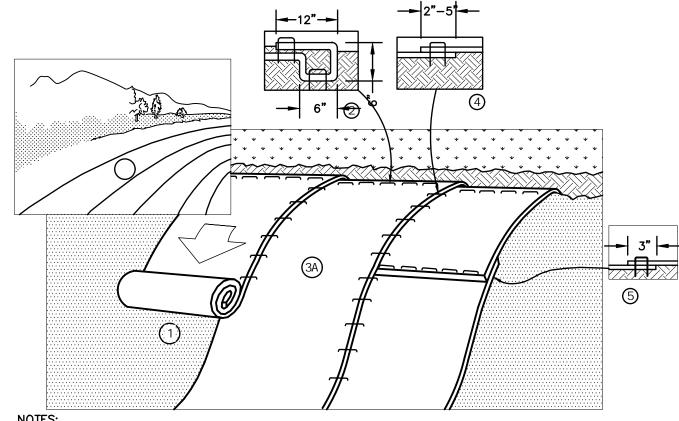
# NOTES:

- 1. STONE FOR STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
- 2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, 75' WITHOUT A MOUNTABLE BERM, AND EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY. 3. THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6
- 4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE
- ENTRANCE WHERE INGRESS OR EGRESS OCCURS, OR 10 FEET, WHICHEVER IS GREATER. 5. GEOTEXTILE FILTER FABRIC SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER FABRIC IS NOT REQUIRED FOR A SINGLE FAMILY RESIDENTIAL LOT. 6. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A STONE
- 7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO THE PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR

# STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



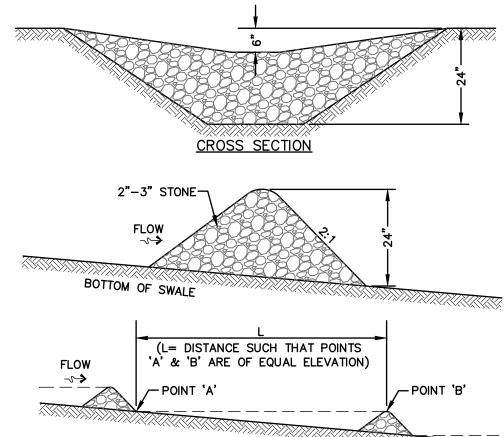
- 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- 3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEMTM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED
- 5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.



NORTH AMERICAN GREEN 14649 HIGHWAY 41 NORTH EVANSVILLE, INDIANA 47725 1-800-772-2040

EROSION CONTROL BLANKET SLOPE INSTALLATION (North American Green SC150BN)

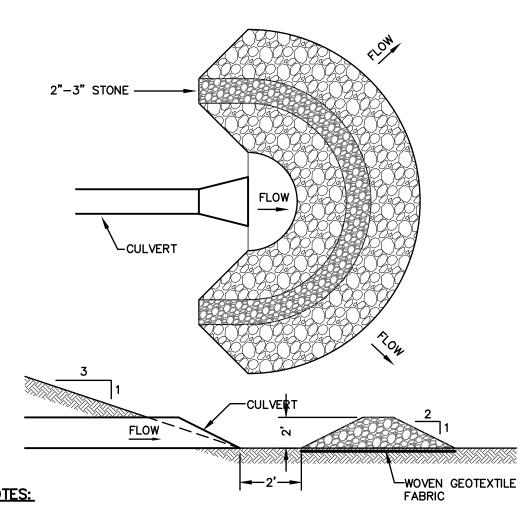
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MAINTENANCE NOTE: 1. STONE CHECK DAMS SHOULD BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY NECESSARY REPAIRS SHOULD BE MADE IMMEDIATELY. PARTICULAR ATTENTION SHOULD BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM TOE OF THE STRUCTURE. WHEN THE STRUCTURES ARE REMOVED, THE DISTURBED PORTION SHOULD BE BROUGHT TO THE EXISTING CHANNEL GRADE AND THE AREAS PREPARED, SEEDED AND MULCHED. WHILE THIS PRACTICE IS NOT INTENDED TO BE USED PRIMARILY FOR SEDIMENT TRAPPING, SOME SEDIMENT WILL ACCUMULATE BEHIND THE STRUCTURES. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT HAS ACCUMULATED TO ONE HALF OF THE ORIGINAL HEIGHT OF THE STRUCTURE.

NOT TO SCALE

STONE CHECK DAM



- 1. TEMPORARY CULVERT INLET PROTECTION CHECK DAMS SHALL BE CONSTRUCTED OF 2-3" STONE OVER WOVEN GEOTEXTILE FABRIC.
- 3. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURE WHEN IT HAS ACCUMULATED TO ONE HALF THE ORIGINAL HEIGHT OF THE STRUCTURE.
- 4. STRUCTURE SHALL BE REMOVED WHEN THE SITE IS STABILIZED WITH THE PROPOSED RIP RAP FIELD. AREAS OUTSIDE THE RIP RAP FIELD ARE TO BE VEGETATED AND SMOOTHED.

# TEMPORARY CULVERT OUTLET PROTECTION CHECK DAM

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-SUBGRADE

RUNOFF WATER

WITH SEDIMENT

**MAINTENANCE NOTE:** 

NOT TO SCALE



WIRE SCREEN SHALL BE PLACED BETWEEN STONE AND BLOCKS TO

—CONCRETE BLOCKS

1. ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAINFALL AND REPAIRS MADE AS NECESSARY.

SUITABLE UPLAND AREA AND PROTECTED FROM EROSION BY EITHER STRUCTURE OR VEGETATIVE MEANS.

SEDIMENT SHOULD BE REMOVED FROM TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A

MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP. THE SEDIMENT SHOULD BE DISPOSED IN A

THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE

CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.

TEMPORARY CATCH BASIN INLET PROTECTION

(Block and Gravel Drop Inlet Sediment Filter)

PREVENT THE AGGREGATE FROM BEING WASHED INTO THE STRUCTURE

STONE FILTER

-FILTERED WATER

→ DROP INLET WITH GRATE

1	02/20/25	REVISED PER PB COMMENTS	BWG
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REV.	DATE	REVISION	BY

Designed and Produced in NH

# 603-772-4746

85 Portsmouth Ave. Civil Engineering Services PO Box 219 E-MAIL: JBE@JONESANDBEACH.COM Stratham, NH 03885

Plan Name:	EROSION AND SEDIMENT CONTROL DETAILS
Project: M	DIAMOND HILL SUBDIVISION AP 409 / LOT 228: DIAMOND HILL ROAD, CANDIA, NH
Owner of Reco	AV DEVELOPMENT, LLC 2 GRANITE RAIL COURT, QUINCY, MA 02169

DRAWING No. SHEET 30 OF 30 JBE PROJECT NO. 24025