

Planning Board

George Hall, Chairman

Rick Maddox, Selectmen Liaison



12 School Street · Hudson, New Hampshire 03051 · Tel: 603-886-6008 · Fax: 603-594-1142

PUBLIC MEETING TOWN OF HUDSON, NH **JANUARY 27, 2016**

The Town of Hudson Planning Board will hold a regularly scheduled meeting on Wednesday, January 27, 2016 at 7:00 p.m. in the "Buxton Community Development Conference Room" at Town Hall. The following items will be on the agenda:

- CALL TO ORDER BY CHAIRPERSON AT 7:00 P.M. I.
- PLEDGE OF ALLEGIANCE II.
- III. ROLL CALL
- SEATING OF ALTERNATES IV.
- **ELECTION OF OFFICERS** V.
- MINUTES OF PREVIOUS MEETING(S) VI.
- CASES REQUESTED FOR DEFERRAL VII.
- CORRESPONDENCE VIII.
 - PERFORMANCE SURETIES IX.
 - ZBA INPUT ONLY X.
 - A. Breckenridge Estates ZI# 03-15

50 Speare Road Map 186/Lot 013

Purpose of Petition: Work within Wetland Buffer Zone, requiring Conservation Commission and Planning Board Input to the Zoning Board of Adjustment (ZBA), relative to the ZBA conducting a public hearing for a Wetland Buffer Impact Special Exception, per Section 334-35 of the most recent Town Zoning Ordinance.

- **PUBLIC HEARINGS** XI.
- OLD BUSINESS/PUBLIC HEARINGS XII.
- **DESIGN REVIEW PHASE** XIII.
- CONCEPTUAL REVIEW ONLY XIV.
- NEW BUSINESS/PUBLIC HEARINGS XV.

OTHER BUSINESS XVI.

- A. Review of the Zoning Amendment Warrant Articles for the 2016 March Town Meeting.
- B. Discussion on the Zoning Ordinance Review Committee's (ZORC) Efforts-to-Date on Updating the Town's Zoning Ordinance.
- C. Review of the Updated Planning Board Land Use Regulations.

Planning Board Agenda January 27, 2016 Page 2

XVII. ADJOURNMENT

All plans and applications are available for review in the Planning Office. Comments may be submitted in writing until 10:00 a.m. on the Tuesday prior to the day of the meeting.

The public is invited to attend.

John M. Cashell Town Planner

POSTED: Town Hall, Library & Post Office - 01-15-16

ELECTION OF NEW OFFICERS FOR CALENDAR YEAR 2016

Acting Chairman, Glenn Della Monica shall address the need to elect new officers for reorganization of the Board, and shall first ask for a nomination for the position of Chairman.

DRAFT MOTIONS FOR ELECTION OF OFFICERS:

MOTION FOR CHAIRM	IAN:	
I move to nominate	to	be Chairman.
Second:		
If there are no other nomina	ations for this office, the	next motion is:
MOTION:		
There being no other nomin	nations, I move to close	the nominations and to elect
	as Chairman by acclama	ation.
Motion by:	Second:	Motion carried/failed:
MOTION FOR VICE-CH	HAIRMAN:	
I move to nominate	t	o be Vice-Chairman.
Second:	·	
If there are no other nomin	ations for this office, the	next motion is:
MOTION:		
There being no other nomin	nations, I move to close	e the nominations and to elect
	as Vice-Chairman by ac	cclamation.
Motion by:	Second:	Motion carried/failed:

MOTION FOR SECRETARY:

I move to nominate	to be	Secretary.
Second:		9
If there are no other nomin	nations for this office, the nex	t motion is:
MOTION:		
There being no other nomi	nations, I move to close the	nominations and to elect
	as Secretary by acclamation	
Motion by:	Second:	Motion carried/failed:

Packet: 01/27/2016

Breckenridge Estates – 50 Speare Road ZBA Input Only

Staff Report 27 January 2016

SITE: Breckenridge Estates -- 50 Speare Rd. -- Map 186/Lot013 -- ZI# 03-15

ZONING: General (G) Minimum Lot Size w/out sewer and water 43,560 sf for a duplex and 43,560 sf (1 acre) for a single-family dwelling and 150 ft. of frontage.

PURPOSE OF PETITION: Work within Wetland Buffer Zone, requiring Conservation Commission and Planning Board Input to the Zoning Board of Adjustment (ZBA), relative to the ZBA conducting a public hearing for a Wetland Buffer Impact Special Exception, per Section 334-35 of the most recent Town Zoning Ordinance.

PLANS UNDER REVIEW ENTITLED: Open Space Development Breckenridge Estates Map 186 Lot 13, Speare Road, Hudson, New Hampshire, prepared by Jones & Beach Engineers, Inc. 85 Portsmouth Ave., PO Box 219, Stratham, NH, dated 10 JUL 15 and revised thru 18 DEC 16, consisting of Sheets 1 – 19 (CS,Y1 -Y2, OV1, A1 – A3, C1 – C4, P1, H1, X1 – X2, D1 – D3 & E1) and Notes 1 – 21 on Sheet A1 (said plans are attached hereto).

ATTACHMENTS:

- 1. ZBA Input Only application, and Letter from the Project Eng., Joseph Coronati, date stamped 3 NOV 15 Attachment "A".
- 2. Zoning Determination by Interim Zoning Admin., Dave Hebert, dated 30 SEP 15 "B".
- 3. Zoning Determination by Interim Zoning Admin., Dave Hebert, dated 21 AUG 15 "C".
- 4. Conservation Commission's "Motion to Recommend a Wetlands Special Exception", dated 14 DEC 15 "D".

OUTSTANDING ISSUES/STAFF COMMENTS:

Although this review concerns wetlands and the proposed impacts thereto, which in turn require the Planning Board to forward input to the ZBA on same, there are important issues relating to future Planning Board action regarding this OSD Subdivision, which should be reviewed in conjunction with this present ZBA Input Only application:

1) The Board previously reviewed this proposed OSD Subdivision as a Conceptual Plan, and during that review the board advised the Applicant, that in order to create 9-lots on this parcel, he should consider reconfiguring the frontages of the proposed lots, so that the building envelops for proposed Lots 13 and 13-6 be located north of the wetland, which exists beyond the rear borders of these two lots. As you can see in the attached Plan set, the Applicant still proposes to create 9-lots south of said wetland, resulting in the same highly concentrated OSD subdivision, which may "technically" meet the dimensional OSD subdivision provisions (see Article XI – Open Space Development of the Zoning Ordinance), but not meet the spirit and intent provisions, of the Zoning Ordinance, i.e., §334-2.D. – Prevent the overcrowding of land and E. – Avoid undue concentration of population. Staff cites the foregoing concern, based on the Plans showing

multiple well protective radii encroachments, and the potential inadequacy of well water supply these encroachments may pose upon the future inhabitants of this development, as well as the potential of well water contamination that may result from the concentration of septic systems. Further, the proposed number of lots in such a relatively small area of land, creates a more concentrated (deeper) stormwater management retention area (base elevation 278 ft. rim elevation 292 ft. = 14 ft.), which creates a more direct impact on the abutting wetland. That is, as opposed to spreading the development area out throughout the 34 acre parcel, and thus, being able to design a larger and shallower retention basin, and, perhaps, located farther away from the subject abutting wetland.

- 2) The Lot Detail Charts found on the Yield Plan (Y1) and Cluster Plan (Conceptual) (C1) show: Gross Lot Area, minus (-) Wetlands, Slopes Greater than 25% (SF) equaling (=) Net Area (i.e., contiguous upland) for each proposed lot. Note: each lot shown meets or exceeds the minimum OSD lot requirements for the subject zoning district (i.e., G, min. OSD lot size = 21,780 sf). Please refer to Article XI Open Space Development of the Zoning Ordinance for all of the OSD provisions. NOTE: although each proposed lot appears to have the minimum required OSD lot frontage of 75 ft., the specific frontage for each lot is not indicated along the front lot line of each lot. Rather, the frontage and other lot line measurements are included in chart form on Sheet A2. For the Definitive OSD Subdivision Plan submission, staff will remind the Applicant to provide the lot line measurements for each lot on at least one Plan sheet.
- 3) The Yield Plans (Y1 & Y2) show a looped road design, which in the past, some board members have considered a means of usurping the 1,000 ft. maximum allowable cul-de-sac length. This issue can be further discussed by board members at the meeting. That is, relative to determining the actual lot yield for this property. On the other hand, the Applicant for this Plan has reduced the Standard Subdivision Lot Yield down from 16 lots to 9 OSD lots. In effect, the Applicant has not maximized the total number of potential lots. The only problem is, as previously cited in above outstanding item #1, the attached plans continue to create too many lots in too small of an area of the development parcel. This issue is more evident, when one reads the comments in Mr. Hebert's attached letter. Wherein, Mr. Hebert cites in the 3d para. of his letter, the following:

"Another concern would be the well protective radii. Numerous lots out of the proposed nine show the well protective radius to be nonconforming by the State of New Hampshire Water Well Board and the Department of Environmental Services. Whenever a protective radius is nonconforming, NHDES requires a release form for protective well radii. The Water Well Board requires a nonconforming well location form to be submitted."

NOTE: the scenario posed by the Applicant with this proposed development is a perfect example of a land development "Catch-22". That is, yes the Applicant proposes to leave an exorbitant amount of the 34 acre parcel as permanent open space – 27 acres, which is a good thing. On the other hand, the Applicant clearly proposes to overly develop the remaining 7 acres. Thus, which is more important: more or less open space, which as proposed by the Applicant, is created by his proposal to overly concentrate the development on a smaller portion of the total parcel?

- 4) §334-51. Lot sizes, Sub-section C. of the Zoning Ordinance reads:
 - "C. All subsurface sewage disposal and water supply requirements for individual or community systems shall be compiled [sic] (should state "complied") with, or Town water and sewer shall be provided."

Note: the above Sub-section is referred to, herein, because of the above-cited well protective radii encroachments, i.e., clearly these encroachments are considered as not being in compliance with said Sub-section C., which in turn requires the Applicant to provide Town water and sewer to the development parcel.

- 5) Since the Conceptual Plan submittal, the Applicant has addressed the following issue: the proposed narrow strip of "Open Space" between Speare Rd. and Lots 13-1 & 13-8 has been widened from 15 ft. to 30 ft. In regard to this widening, board members may determine that the spirit and intent of §334-51.B. and §334-52.A. of the Open Space ordinances have been met with this proposed widening. Said sections of the ZO are in bold-print below read as follows:
 - §334-51. The area of individual lots within an OSD may be reduced by up to 50% of the minimum lot size requirements established in Article <u>VII</u>, as provided herein.
 - <u>A.</u> An area of land, equal to or greater than the difference between the size of each open space lot and the minimum lot size, shall be dedicated to permanent open space, conservation land or recreation land.
 - B: No reduced area residential lots shall be arranged to front or abut preexisting streets, roads or highways.
 - <u>C.</u> All subsurface sewage disposal and water supply requirements for individual or community systems shall be compiled with, or Town water and sewer shall be provided.

§§334-52. Dimensional requirements.

[Amended 3-13-2001 by Amdt. No. 2]

Frontage and setback requirements for individual lots within an OSD may be reduced up to 50% of the minimum frontage and setback requirements established in Article <u>VII</u>, as provided herein, if approved by the Planning Board.

- <u>A.</u> No reduced frontage lots shall be allowed to front on preexisting streets, roads or highways.
- <u>B.</u> Setback reductions shall not be permitted along property lines that abut non-OSD residentially developed properties.
- 6) The required 400 ft. of all season, safe-sight distance (in each direction at the proposed intersection) has been delineated in the attached Plan set. Please see Sheet H1, which indicates that a section of Speare Rd., approximately 150 ft. west of the proposed intersection, needs to be reduced in height in order to provide the proposed 400 ft. of sight distance. Note: the issue of altering Speare Rd. falls within the jurisdiction of the BOS to decide. As such, the Applicant will be advised to seek BOS approval to alter Speare Rd., i.e., prior to submitting the Definitive OSD subdivision plan. Also in regard to this issue, per the recent Land Use Regulations amendments on sight distance, i.e., meeting AASHTO requirements v. 400 ft., please note, again, that the plans indicate that a small portion of Speare Rd. needs to be lowered approx. 150 ft. west of the proposed intersection. This distance is less than the AASHTO sight distance requirement of 250 ft., at 35 mph the posted maximum speed for Speare Rd.
- 7) In accordance with the attached Conservation Commission's "Motion to Recommend a Wetlands Special Exception", please note that the attached Plan set, specifically, Sheet C4, still refers to the "permanent" wetland buffer impact as "temporary". This discrepancy does not comply with Condition #5 of said attachment.

8) The issue of "No cut/No disturb" Conservation markers along the perimeter of the Conservation District boundaries is addressed in the Conservation Commission's attached "Motion to Recommend....", please see Condition #4.

RECOMMENDATION: With this present application being a ZBA Input Only, after the Applicant's presentation at the meeting, and it, perhaps, addressing each of the above-cited outstanding issues, answering questions from the board and audience members, the board may want to provide the following ZBA Input, as provided in DRAFT MOTION form below. If the board does not to agree with the below DRAFT MOTION or wishes to amend it, please feel free to discuss and do so at the meeting.

APPLICATION TRACKING:

- 3 NOV 15 ZBA Input Only Application submitted.
- 18 NOV 15 Per the written request of the Applicant, the ZBA Input Only Application
 Hearing was postponed until the 27 JAN 16 Meeting.
 27 JAN 16 Initial ZBA Input Hearing scheduled.

DRAFT MOTION:

I move to forward the following input to the Zoning Board of Adjustment, concerning the ZBA Input Only Plan-of-Record, entitled: Open Space Development Breckenridge Estates Map 186 Lot 13, Speare Road, Hudson, New Hampshire, prepared by Jones & Beach Engineers, Inc. 85 Portsmouth Ave., PO Box 219, Stratham, NH, dated 10 JUL 15 and revised thru 18 DEC 16, consisting of Sheets 1 – 19 (CS,Y1 -Y2, OV1, A1 – A3, C1 – C4, P1, H1, X1 – X2, D1 – D3 & E1) and Notes 1 – 21 on Sheet A1:

- 1) Although the above-cited Plan may "technically" meet the dimensional OSD subdivision provisions (see Article XI Open Space Development of the Zoning Ordinance), it does not meet the requirements set forth in Sub-Section C., §334-51., Article XI, which reads:
- "C. All subsurface sewage disposal and water supply requirements for individual or community systems shall be compiled [sic] (should state "complied") with, or Town water and sewer shall be provided."

Note: this Sub-section is referred, herein, because of the multiple well protective radii encroachments included in this proposed development. In this regard, please refer to Sheet C4 of the Plan, which depicts said encroachments for all of the proposed lots. In turn, such encroachments are considered noncompliant with cited Sub-section C., which requires the Applicant to either amend the plan accordingly (i.e., create lots not having such encroachments) or provide Town water and sewer to the development parcel.

2) Said well protective radii encroachments also lead to the determination that the proposed nine lots do not meet the spirit and intent provisions, of the Zoning Ordinance, i.e., §334-2.D. – Prevent the overcrowding of land and E. – Avoid undue concentration of population.

Note: the above-cited Sections of the Zoning Ordinance are referenced, herein, relative to the multiple protective well radii encroachments, but also because such encroachments may result in: (i) an inadequate well water supply within this development, and (ii) substandard quality of well water. Further, the proposed number of lots in such a relatively small area of land, creates a more

concentrated stormwater management retention area (base elevation 278 ft. rim elevation 292 ft. = 14
ft.), which creates a more direct impact on the abutting wetland. That is, as opposed to expanding the
development area out throughout the 34 acre parcel, and thus, being able to design a larger shallower
retention basin, and, perhaps, farther away from the subject abutting wetland.

Motion by:	Second:	Carried/Failed:	

JONES & BEACH ENGINEERS, INC.

85 Portsmouth Avenue Post Office Box 219 Stratham, NH 03875 Telephone: (603) 772-4746 Fax: (603) 772-0227 Email: jbe@jonesandbeach.com "A"

Post Office Box 484 Alton, NH 03809 Fax: (603) 875-8907 www.jonesandbeach.com



October 20, 2015

Hudson Planning Board Attn: George Hall, Chairman 12 School Street Hudson, NH 03051

RE: Request for Placement on Planning Board Agenda 50 Speare Road, Hudson, NH Tax Map 186 Lot 13 JBE Project No. 15031

Dear Mr. Hall,

On behalf of our client, Tuck Realty Corp., Jones & Beach Engineers, Inc. would like to request placement on the next Planning Board agenda to discuss the proposed subdivision and wetland buffer impacts associated with the project referenced above. We are including eight copies of the plan set for review.

Please place us on the next available Conservation Commission agenda and notify us of the date scheduled. Please contact our office with any questions.

Very truly yours,

JONES & BEACH ENGINEERS, INC.

Oseph Coronetti

Joseph A. Coronati

Vice President

cc:

Tuck Realty Corp.

Acont

ZBA INPUT ONLY APPLICATION FOR REVIEW TOWN OF HUDSON, NEW HAMPSHIRE

Date of Application: 11/3/15	Tax Map # Lot # / 3
Name of Project: BRECKE-PEDE ESIMES	
Zoning District: General Zoning (For Office Use)	1g ID# (For Office Use)
ZBA Action:	
PROPERTY OWNER:	DEVELOPER:
Name: Doubles SanDenson	TUCK PEALTY CONF.
Address: 11 NEVESTON WAY	149 EPPEN ROAD, SUSTE 25
Address: Mangar, NH 3842	EXE EX. NA 03033
Telephone #	607-944-7530
Fax #	
Email:	regardent grail com
PROJECT ENGINEER	
Name: Toris + BEACK FRETHERS	Telephone # 663-772-4741
Address: 118 PARTSMOJTH AVE.	Fax #
Address: STROTHAN, NH 03885	Email: JCOTONATT @jortsANBEACH COM
PURPOSE OF PLAN:	
PROPOSED M. 650 S. F. OF TEMPORMY	WITH 27 ACRES OF OPEN SPACE.
PROPOSED M, 650 S. F. OF TEMPINAY	WETLAND BIFFER IMPACT
I have no comments I have con	
Title:Title:	
Department:	
Zoning Engineering Assessor Po	lice Fire Planning
Highway Consultant Review	Fees Paid

APPLICATION FOR ZBA INPUT ONLY REVIEW TOWN OF HUDSON, NEW HAMPSHIRE

I hereby apply for ZBA Input Only Review and acknowledge I will comply with all of the Ordinances of the Town of Hudson, New Hampshire State Laws, as well as any stipulations of the Planning Board, in development and construction of this project. I understand that if any of the items listed under the ZBA Input Only specifications or application form are incomplete, the application will be considered rejected.

Pursuant to RSA 674:1-IV, the owner(s), by the filing of this application as indicated above, hereby give permission for any member of the Hudson Planning Board, the Town Engineer, the Conservation Commission and such agents or employees of the Town or other persons as the Planning Board may authorize, to enter upon the property which is the subject of this application at all reasonable times for the purpose of such examinations, surveys, tests and inspections as may be appropriate. The owner(s) release(s) any claim or right he/she (they) may now or hereafter possess against any of the above individuals as a result of any examinations, surveys, tests and inspections conducted on his/her (their) property in connection with this applications.

Signature of Owner:	SEE	LOA	ATTACKED	
---------------------	-----	-----	----------	--

If other than an individual, indicate name of organization and its principal owner, partners, or corporate officers.

Signature of Developer:

The developer/individual in charge must have control over all project work and be available to the Code Enforcement Officer/Building Inspector during the construction phase of the project. The individual in charge of the project must notify the Code Enforcement Officer/Building Inspector within two (2) working days of any change.

Planner Approval Signature:

Twenty-one days prior to the scheduled Planning Board Meeting, a complete subdivision, or site plan application including all supporting materials/documents must be submitted in final form to the Town Planner's Office.

- Please schedule an appointment with the Town Planner for initial plan submittal.
- Revisions are due on Tuesday the week prior to the Planning Board deferral date by 10:00AM. Any application/materials received after that time will be deferred until the next available meeting date.

Letter of Authorization

I, Douglas S. Sanderson, 11 Nersesian Way, Hampton, NH 03842, owner of property located in Hudson, NH, known as Tax Map 186, Lot 13, do hereby authorize Jones & Beach Engineers, Inc., PO Box 219, Stratham, NH, to act on my behalf concerning the previously mentioned property. The parcel is located on Speare Road in Hudson, NH.

I hereby appoint Jones & Beach Engineers, Inc., as my agent to act on my behalf in the review process, to include any required signatures.

Witness Douglas S. Sanderson Date





INSPECTIONAL SERVICES DIVISON

12 SCHOOL STREET, HUDSON, NEW HAMPSHIRE 03051

Emergency Business Fax 911 603-886-6005 603-594-1142 Robert M. Buxton Chief of Department

ZONING DETERMINATION

September 30, 2015

Joe Coronati Breckenridge Estates Subdivision Hudson, NH, 03051

Re: Breckenridge Estates Subdivision, Hudson, NH (Map 186/Lot 013)

Dear Mr. Coronati,

Your request for zoning review and determination to construct a drainage pond that will impact 17,650 square feet of permanent wetland buffer has been completed.

A Special Exception from the Zoning Board of Adjustment will be required.

Article IX §334-35 (B). Uses within Wetland Conservation District. Uses permitted by special exception. Exceptions are considered upon review by the Conservation Commission and the Planning Board for input to the Zoning Board of Adjustment. The Natural Resources Conservation Service and the State Wetland Board, where applicable as determined by the Conservation Commission, shall also be requested to review any proposed use to assess its environmental effect upon the wetland in question. The Zoning Board of Adjustment shall conduct a review and findings of fact.

Article IX §334-35 (C). All construction activity is expressly prohibited in wetlands and in the Wetland Conservation District, unless the proposed use meets the criteria for a special exception and such a permit has been issued.

This determination may be appealed within 30 days of the receipt of this letter to the Hudson Zoning Board of Adjustment. Please contact me at 886-6005 or via email at dhebert@hudsonnh.gov if you have any questions.

Thank you,

David Hebert

IR YILL

Acting Zoning Administrator / Code Enforcement Officer











Robert M. Buxton Chief of Department

Emergency Business Eax

911 603-886-6005 603-594-1142

ZONING DETERMINATION

August 21, 2015

Town Planner Mr. John Cashell

RE: Conceptual site plan (Breckenridge Estates Subdivision) Speare Road, Hudson, NH 03051(Map 186 / Lot 013)

Upon review of the conceptual plans I have the following concerns before determining full compliance with the Town of Hudson zoning ordinance.

Article X1 334-53 B (Open Space Requirements)

Upon review of the calculations on the conceptual plans, it has been determined the calculation chart is incomplete.

Roadways, driveways, right-of-way, utility easements, parking areas may not be included as part of the open space requirements. The square footages for these areas are not depicted.

Another concern would be the well protective radii. Numerous lots out of the proposed nine show the well protective radius to be nonconforming by the State of New Hampshire Water Well Board and the Department of Environmental Services. Whenever a protective radius is nonconforming, NHDES requires a release form for protective well radii. The Water well board requires a nonconforming well location form to be submitted.

The proposed driveway for lot13-2 shows the driveway only six feet wide in areas. The following lots show the driveways in the side setbacks 13-3, 13-4, 13-5, 13-8.

If I may be of further assistance, please contact me at (603) 886-1271 or Dhebert@hudsonnh.gov.

Thank you,

David Hebert

IR. Thos

Acting Zoning Administrator / Code Enforcement Officer





Ken Dickinson, Chairman

Nancy Brucker, Selectmen Liaison

Motion to Recommend a Wetlands Special Exception

Date: December 14, 2015

Case: Breckenridge Estates Subdivision

50 Spear Road Map 186, Lot 013

Description of work to be performed: The proposed project entails the construction of a nine lot Open Space residential subdivision along with a new roadway, driveways and associated utilities. Permanent wetland buffer impacts are required to facilitate proper site drainage and pretreatment of storm water prior to discharge into the surrounding area. The permanent buffer impact is approximately 17,650 square feet in total.

Members Present: Ken Dickinson, James Battis, Michael Tranfaglia, Raimundo Matos, William Collins

Conservation Members Stepping Down: None

Alternates Seated: None

This motion is to recommend approval of the Wetlands Special Exception Application filed by persons representing the proposed Breckenridge Estates Open Space Subdivision. This WSE is for a proposed permanent wetlands buffer impact of approximately 17,650 square feet along the back of proposed map 186: lot 13-1, lot 13-2 and lot 13-3 (Reference Grading, Drainage and Utility Plan; Drawing C4) with the following stipulations as noted below.

With Stipulations:

- Construction and restoration shall comply with: BEST MANAGEMENT PRACTICES
 TO CONSTROL NON-POINT SOURCE POLLUTION: A GUIDE FOR CITIZENS
 AND TOWN OFFICIALS (NH Department of Environmental Services-Current Issue.)
- 2. During Construction and restoration erosion control barriers shall be installed and maintained to the satisfaction of the Town Engineer.

("Breckenridge Wetlands Special Exception" motion stipulations continued from page 1.

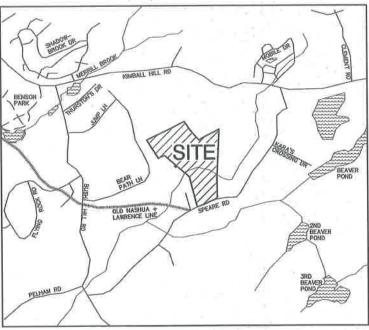
- 3. All notes found on the Grading, Drainage and Utility Plan, drawing no. C4 and the Erosion and Sediment Control Details, drawing No. E1 of the construction plan that pertain to alteration of terrain and storm water runoff will be strictly adhered to during all phases of construction.
- 4. Install approved "Do not cut/Do not disturb town conservation markers along the conservation districts boundaries.
- 5. Change the current wording from "Temporary Wetlands Buffer Impact" to "Permanent Wetlands Buffer Impact" to better represent what the scope of the project entails.
- 6. The Foot Bridge that was proposed to facilitate a stream crossing to gain access the "open space" behind future lot 13 and lot 13-6 of map186 shall have no temporary or permanent footings installed and there shall be no permanent disturbance to the surrounding terrain.

Motion By: William	Collins
Second By: James B	attis
Vote:	Favorable: 6 Unfavorable: 0 Abstaining: 0
Dissention Reason(s): (see below)
Approved	
Ken Dickinson, Chai	rman
Reason for an unfavo	orable decision:
Ken Dickinson, Chai	

GENERAL LEGEND PROPOSED DESCRIPTION PROPERTY LINES SETBACK LINES CENTERLINE TREE LINE STOCKADE FENCE SOIL BOUNDARY
AQUIFER PROTECTION LINE
FLOOD PLAIN LINE
ZONELINE
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
GAS LINE
WATER LINE
WATER SERVICE OVERHEAD ELECTRIC UNDERGROUND ELECTRIC UNDERDRAIN
FIRE PROTECTION LINE
THRUST BLOCK
IRON PIPE/IRON ROD
DRILL HOLE
IRON ROD/DRILL HOLE
STONE/CRANITE BOUND
SPOT GRADE
PAVEMENT SPOT GRADE × 100.00 × 100.00 CURB SPOT GRADE BENCHMARK (TBM) DOUBLE POST SIGN SINGLE POST SIGN WELL TEST PIT FAILED TEST PIT MONITORING WELL PERC TEST PHOTO LOCATION TREES AND BUSHES UTILITY POLE LIGHT POLES DRAIN MANHOLE SEWER MANHOLE WATER GATE WATER SHUT OFF REDUCER SINGLE GRATE CATCH BASIN DOUBLE GRATE CATCH BASIN DOUBLE GRATE CATCH BASIN TRANSFORMER CULVERT W/MINGWALLS 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 OPEN WATER FRESHWATER WETLANDS *** TIDAL WETLANDS STABILIZED CONSTRUCTION ENTRANCE

OPEN SPACE DEVELOPMENT "BRECKENRIDGE ESTATES"

TAX MAP 186, LOT 13 SPEARE ROAD, HUDSON, NH



LOCUS MAP

CIVIL ENGINEER AND SURVEYOR

JONES & BEACH ENGINEERS, INC. **85 PORTSMOUTH AVENUE** PO BOX 219 STRATHAM, NH 03885 (603) 772-4746 CONTACT: JOSEPH CORONATI EMAIL: JCORONATI@JONESANDBEACH.COM

WETLAND CONSULTANT GOVE ENVIRONMENTAL SERVICES, INC. 8 CONTINENTAL DRIVE, UNIT H EXETER, NH 03833 (603) 778-0644 CONTACT: JIM GOVE, CSS. CWS JGOVE@GESINC.BIZ

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE 74 OLD DOVER ROAD ROCHESTER, NH 03867 (603) 332-4227

TELEPHONE

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

TELEPHONE FAIRPOINT COMMUNICATIONS 100 TRI CITY ROAD

SOMERWORTH, NH 03878 ATTN:DAVE KESTNER (603) 743-1114

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

SHEET INDEX

COVER SHEET

YIELD PLANS Y1-Y2

OVERVIEW SUBDIVISION PLAN

SUBDIVISION PLAN A1-A3

EXISTING CONDITIONS PLAN C1-C3

GRADING, DRAINAGE AND UTILITY PLAN

PLAN AND PROFILE

HIGHWAY PLAN

CROSS SECTIONS

D1-D3 DETAIL SHEETS

EROSION AND SEDIMENT CONTROL DETAILS



APPLICANT TUCK REALTY CORP. 149 EPPING ROAD, SUITE 2A EXETER, NH 03633

APPROVED - HUDSON, NH PLANNING BOARD

DATE:

| Dosign: JAC | Draft: PSL | Date: 7/10/15 |
| Checked: JAC | Scale: AS NOTED | Project No.: 150 |
| Drawing Name: 15031-PLAN SET,dwg PERMISSION FROM JONES & REACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



CONCRETE

SNOW STORAGE

GRAVEL

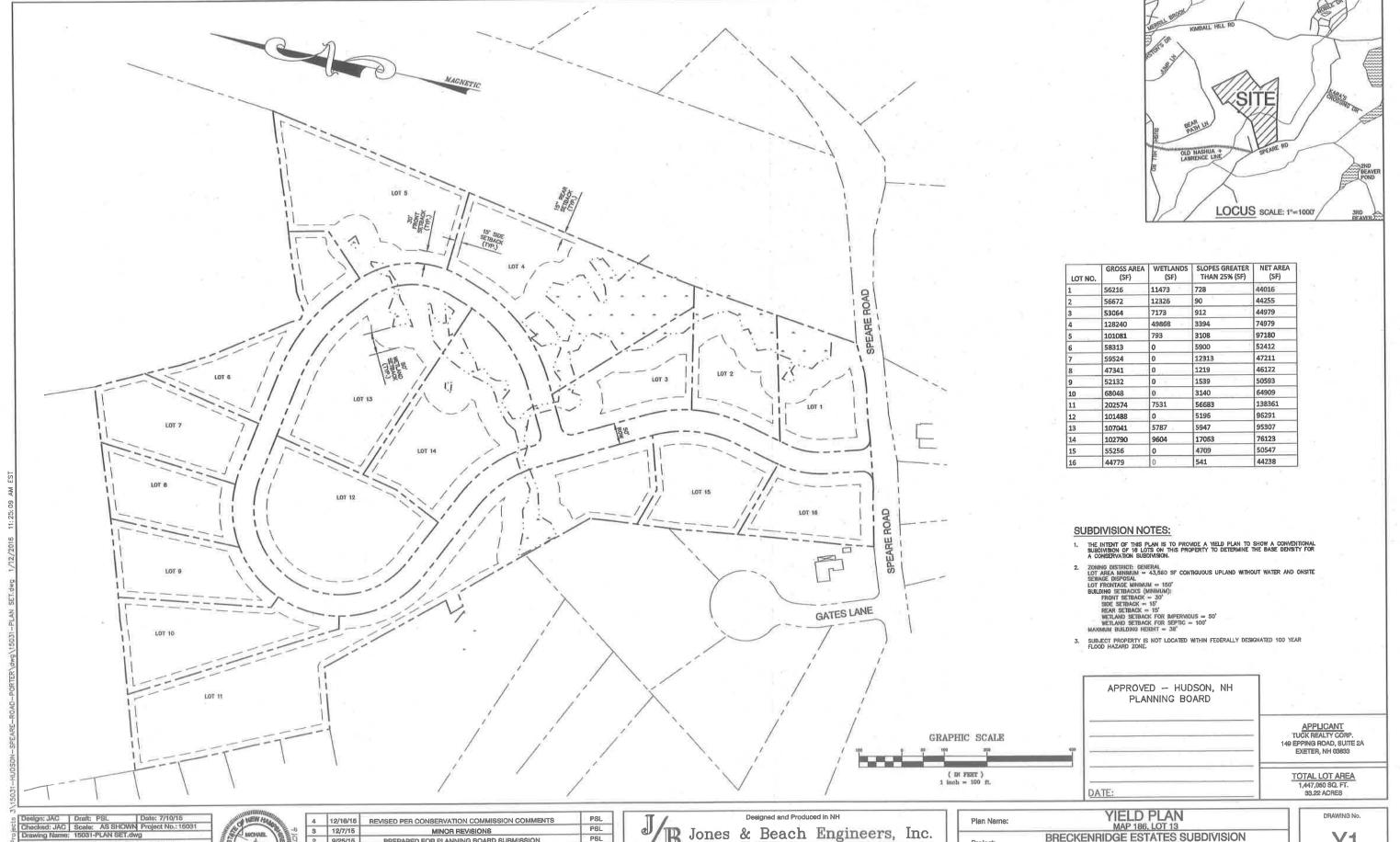
4	12/18/15	REVISED PER CONSERVATION COMMISSION COMMENTS	PSL
3	12/7/15	MINOR REVISIONS	P8L
2	9/25/15	PREPARED FOR PLANNING BOARD SUBMISSION	PSL
1	8/18/15	REVISED PER TOWN COMMENTS AND NEW WETLANDS	PSL
0	7/10/15	ISSUED FOR REVIEW	PSL
REV.	DATE	REVISION	BY



Civil Engineering Services E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	COVER SHEET
Project:	BRECKENRIDGE ESTATES SUBDIVISION SPEARE ROAD, HUDSON, NH 03051
Owner of Record:	DOUGLAS S. SANDERSON

DRAWING No. SHEET 1 OF 19



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.



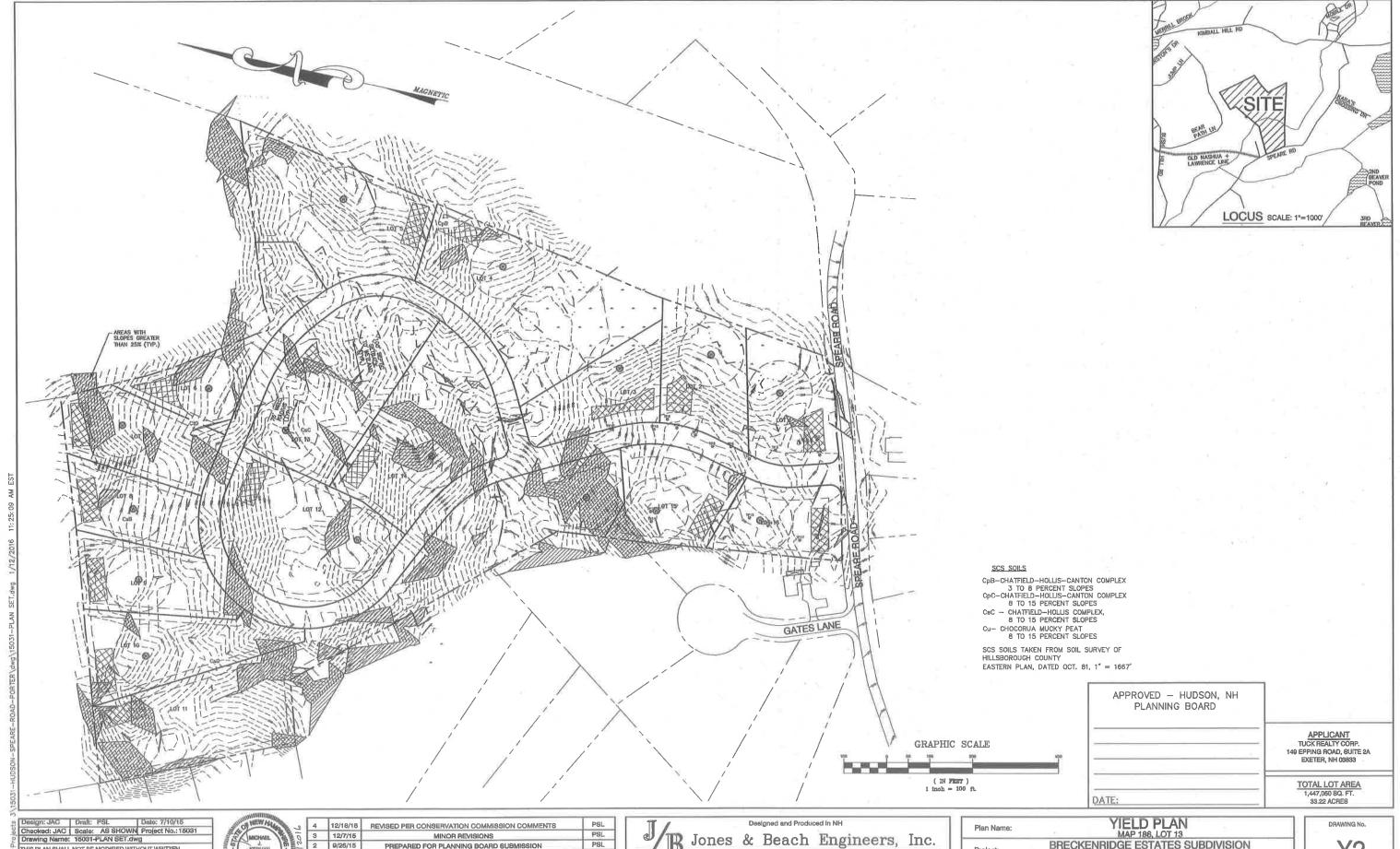
4	12/18/15	REVISED PER CONSERVATION COMMISSION COMMENTS	PSL
3	12/7/15	MINOR REVISIONS	PSL
2	9/25/15	PREPARED FOR PLANNING BOARD SUBMISSION	PSL
1	8/18/15	REVISED PER TOWN COMMENTS AND NEW WETLANDS	PSL
0	7/10/15	ISSUED FOR REVIEW	PSL
REV.	DATE	REVISION	BY

B Jones & Beach Engineers, Inc.

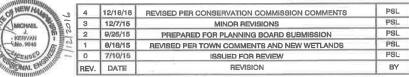
Services 603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM 85 Portsmouth Ave. Civil Engineering Services
PO Box 219
Stratham, NH 03886 E-MAIL: JBE@.

Plan Name:	YIELD PLAN MAP 186, LOT 13
Project	BRECKENRIDGE ESTATES SUBDIVISION SPEARE ROAD, HUDSON, NH 03051
Owner of Record:	DOUGLAS S. SANDERSON

SHEET 2 OF 19 JBE PROJECT NO. 15031



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.

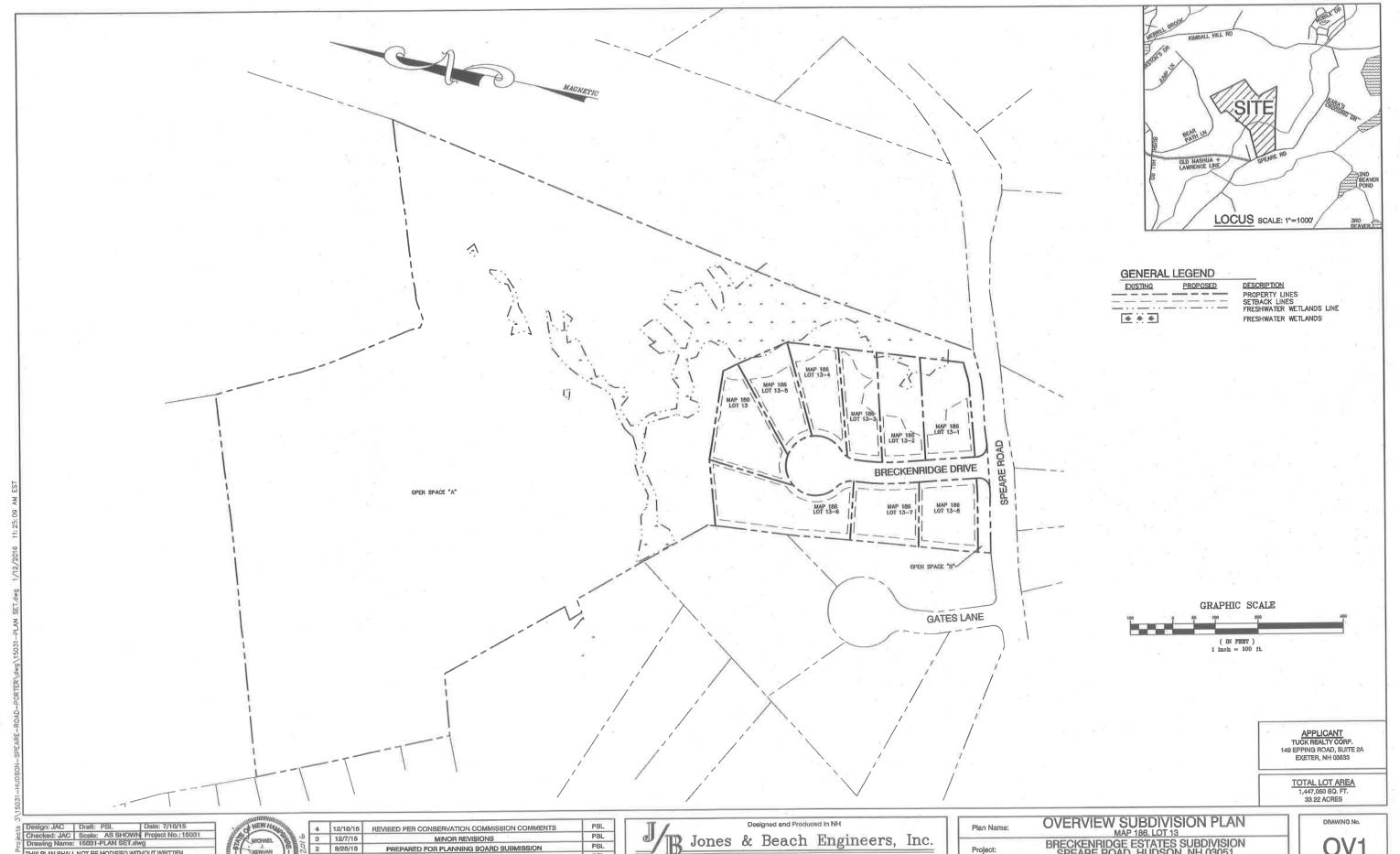


B Jones & Beach Engineers, Inc.

85 Portsmouth Ave. Civil Engineering Services
PO Box 219
Stratham, NH 03885
E-MAIL: JBE® Services 603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	YIELD PLAN MAP 186, LOT 13
Project:	BRECKENRIDGE ESTATES SUBDIVISION SPEARE ROAD, HUDSON, NH 03051
Owner of Record:	DOUGLAS S. SANDERSON 11 NERSESIAN WAY, HAMPTON, NH 03842

6HEET 3 OF 19 JBE PROJECT NO. 15031



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.



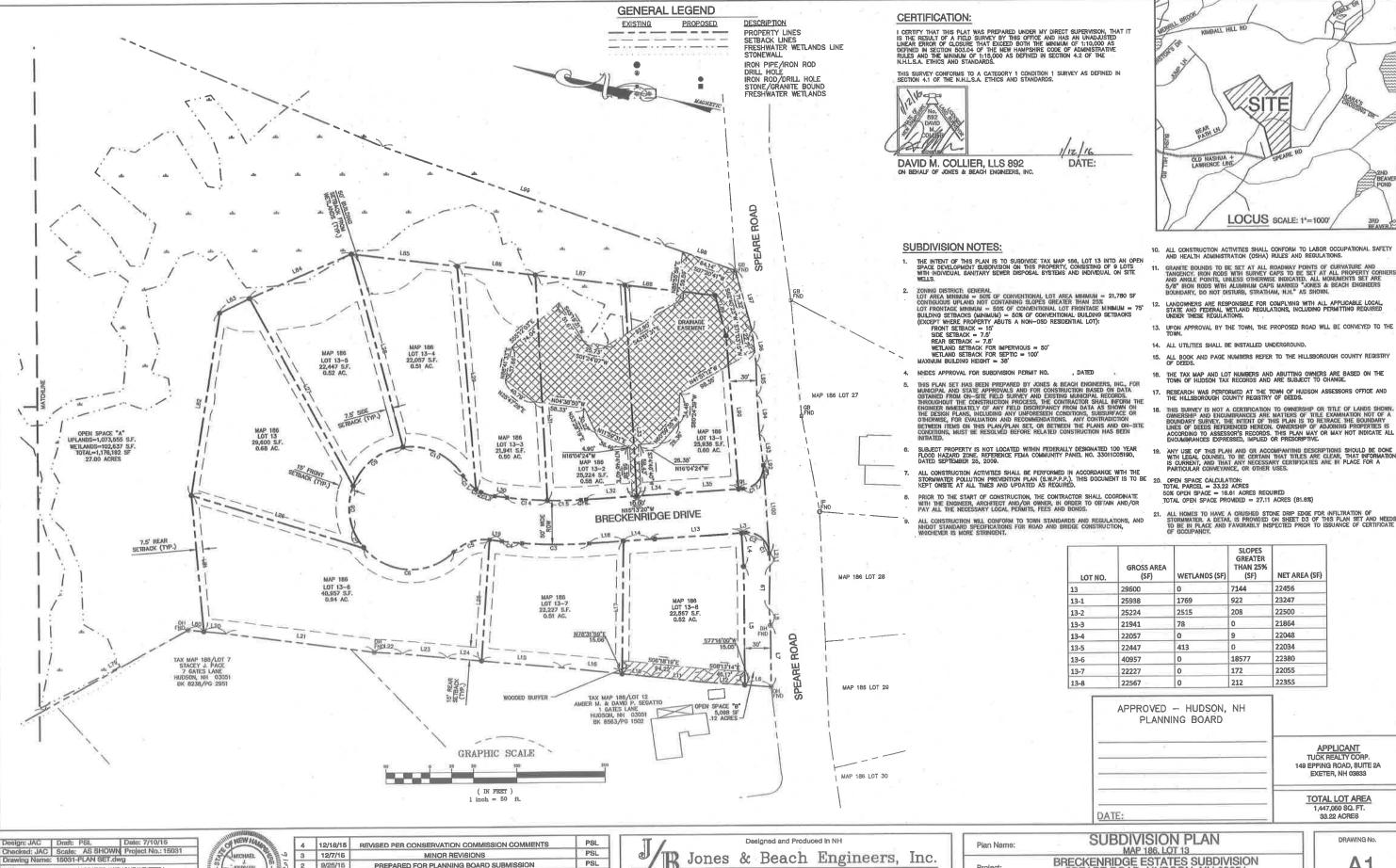
4	12/18/15	REVISED PER CONSERVATION COMMISSION COMMENTS	PSL
3	12/7/15	MINOR REVISIONS	PSL
2	9/25/15	PREPARED FOR PLANNING BOARD SUBMISSION	PSL
1	8/18/16	REVISED PER TOWN COMMENTS AND NEW WETLANDS	PSL
0	7/10/16	ISSUED FOR REVIEW	PSL
REV.	DATE	REVISION	BY

B Jones & Beach Engineers, Inc. Services 603-772-4748 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

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

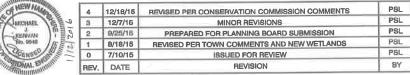
Plan Name:	OVERVIEW SUBDIVISION PLAN
Project:	BRECKENRIDGE ESTATES SUBDIVISION SPEARE ROAD, HUDSON, NH 03051
Owner of Record:	DOUGLAS S. SANDERSON

OV1 SHEET 4 OF. 19 JBE PROJECT NO. 15031



Strathem, NH 03885

Design: JAC Draft: PSL Date: 7/10/15
Chacked: JAC Scale: AS SHOWN Project No.: 1503
Drawing Name: 15031-PLAN SET.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.



85 Portsmouth Ave. Civil Engineering Services FAX: 603-772-0227 PO Box 219

Project: Owner of Record: E-MAIL: JBE@JONESANDBEACH.COM

BRECKENRIDGE ESTATES SUBDIVISION SPEARE ROAD, HUDSON, NH 03051 DOUGLAS S. SANDERSON 11 NERSESIAN WAY, HAMPTON, NH 03842

DRAWING No SHEET 5 OF 19 JBE PROJECT NO. 15031

APPLICANT TUCK REALTY CORP. 149 EPPING ROAD, SUITE 2A

EXETER, NH 03833

TOTAL LOT AREA 1,447,060 SQ. FT.

33.22 ACRES

NET AREA (SF)

22456

23247

22500

21864

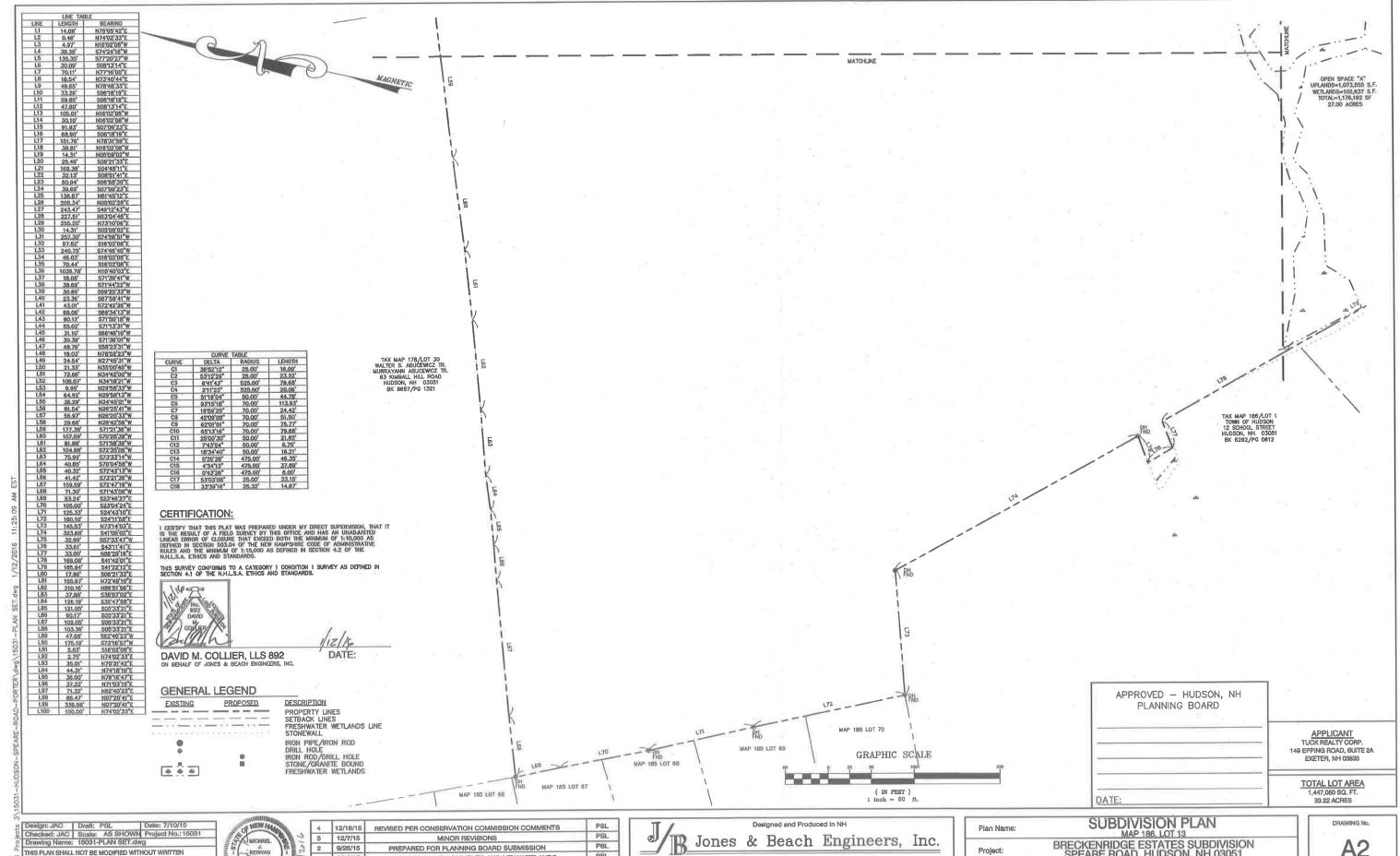
22048

22034

22380

22055

22355



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.



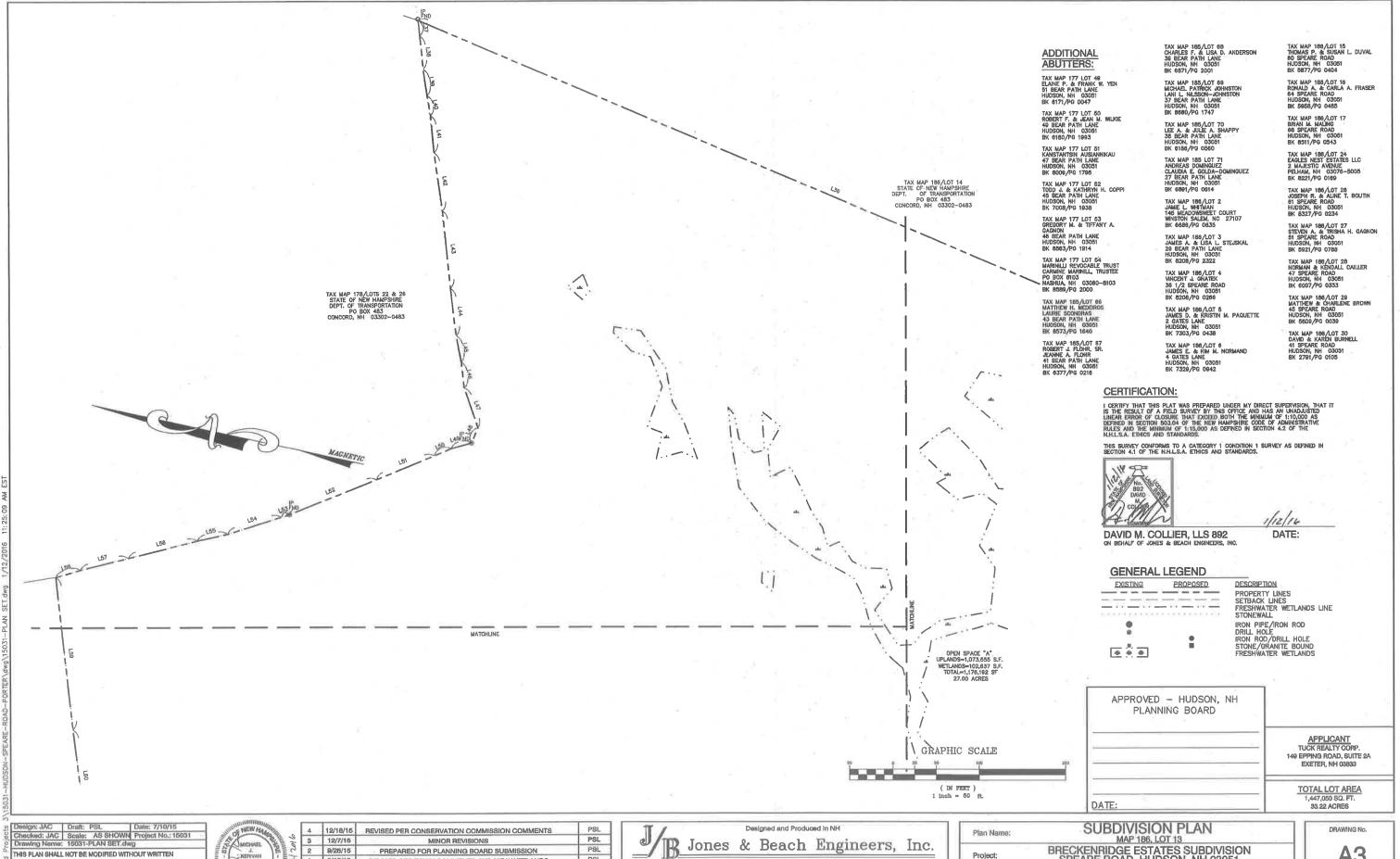
REV.	DATE	REVISION	BY
0	7/10/15	ISSUED FOR REVIEW	PSL
1	8/18/15	REVISED PER TOWN COMMENTS AND NEW WETLANDS	PBL
2	9/25/15	PREPARED FOR PLANNING BOARD SUBMISSION	P8L
3	12/7/15	MINOR REVISIONS	PSL
4	12/18/15	REVISED PER CONSERVATION COMMISSION COMMENTS	PSL

B Jones & Beach Engineers, Inc.

85 Portemouth Ave. Civil Engineering Services 603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	SUBDIVISION PLAN MAP 186, LOT 13
Project:	BRECKENRIDGE ESTATES SUBDIVISION SPEARE ROAD, HUDSON, NH 03051
Owner of Record:	DOUGLAS S. SANDERSON 11 NERSESIAN WAY, HAMPTON, NH 03842

A2 SHEET 6 OF 19 JBE PROJECT NO. 15031



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.



4	12/18/15	REVISED PER CONSERVATION COMMISSION COMMENTS	PSL
3	12/7/15 MINOR REVISIONS		PSL
2	9/25/15	PREPARED FOR PLANNING BOARD SUBMISSION	PSL
1	8/18/15	REVISED PER TOWN COMMENTS AND NEW WETLANDS	PSL
Q	7/10/15	ISSUED FOR REVIEW	PSL
REV.	DATE	REVISION	BY

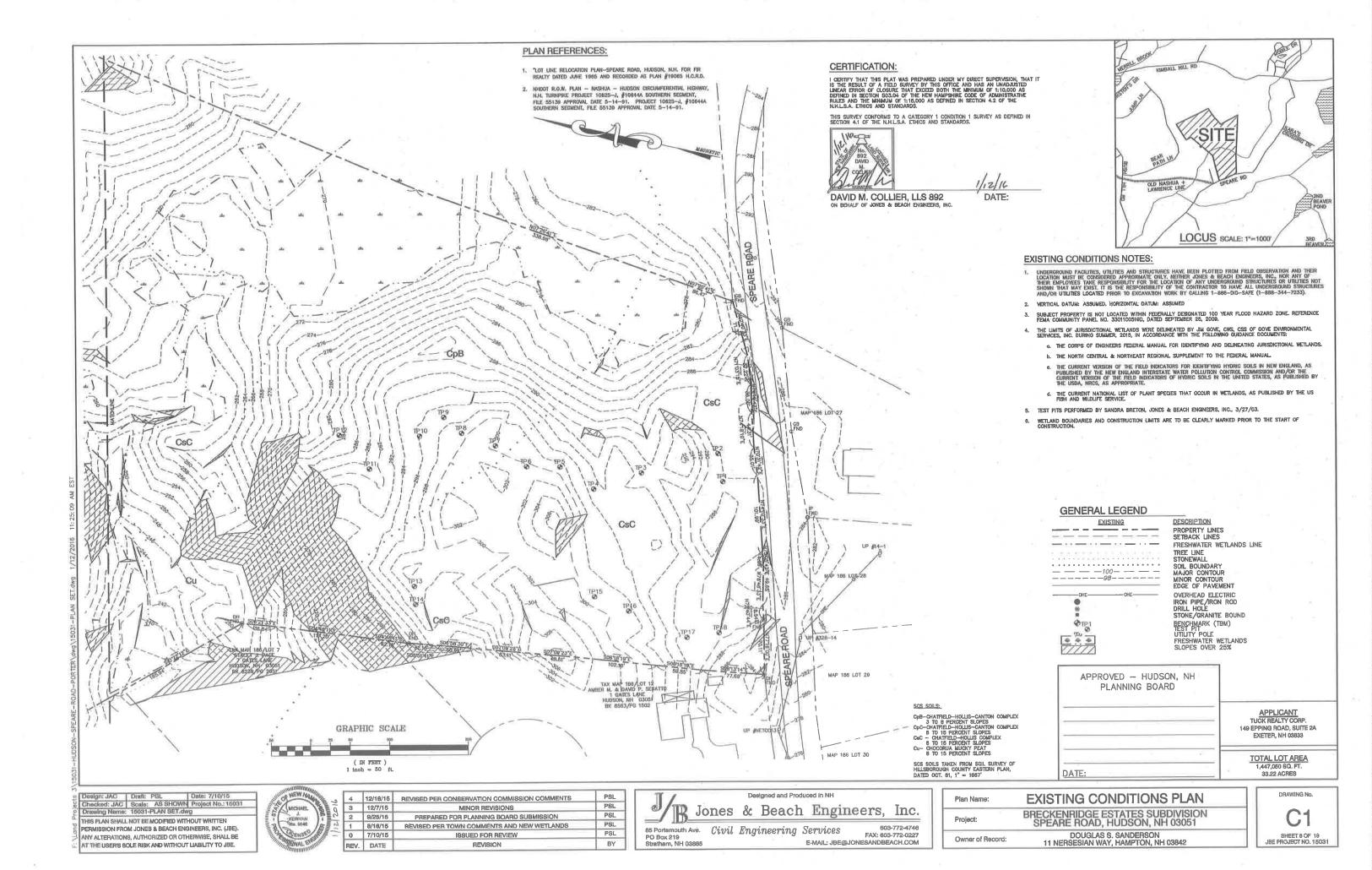
B Jones & Beach Engineers, Inc.

603-772-4746 FAX; 603-772-0227 85 Portsmouth Ave. Civil Engineering Services PO Box:219 Stratham, NH 03885 E-MAIL: JBE@JONESANDBEACH.COM

Plan Name:	SUBDIVISION PLAN
Project:	BRECKENRIDGE ESTATES SUBDIVISION SPEARE ROAD, HUDSON, NH 03051
Owner of Record:	DOUGLAS S. SANDERSON 11 NERSESIAN WAY, HAMPTON, NH 03842

A3

SHEET 7 OF 19 JBE PROJECT NO. 15031





Design: JAC Draft: PSL Date: 7/10/15
Checked: JAC Scale: AS SHOWN Project No.: 15031
Drawing Name: 15031-PLAN SET.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.



	4	12/18/15	REVISED PER CONSERVATION COMMISSION COMMENTS	PSL
色道	3	12/7/15	MINOR REVISIONS	PSL
8	2	9/25/15	PREPARED FOR PLANNING BOARD SUBMISSION	PSL
12.0	1	8/18/15	REVISED PER TOWN COMMENTS AND NEW WETLANDS	PSL
=	0	7/10/15	ISSUED FOR REVIEW	PSL.
	REV.	DATE	REVISION	BY

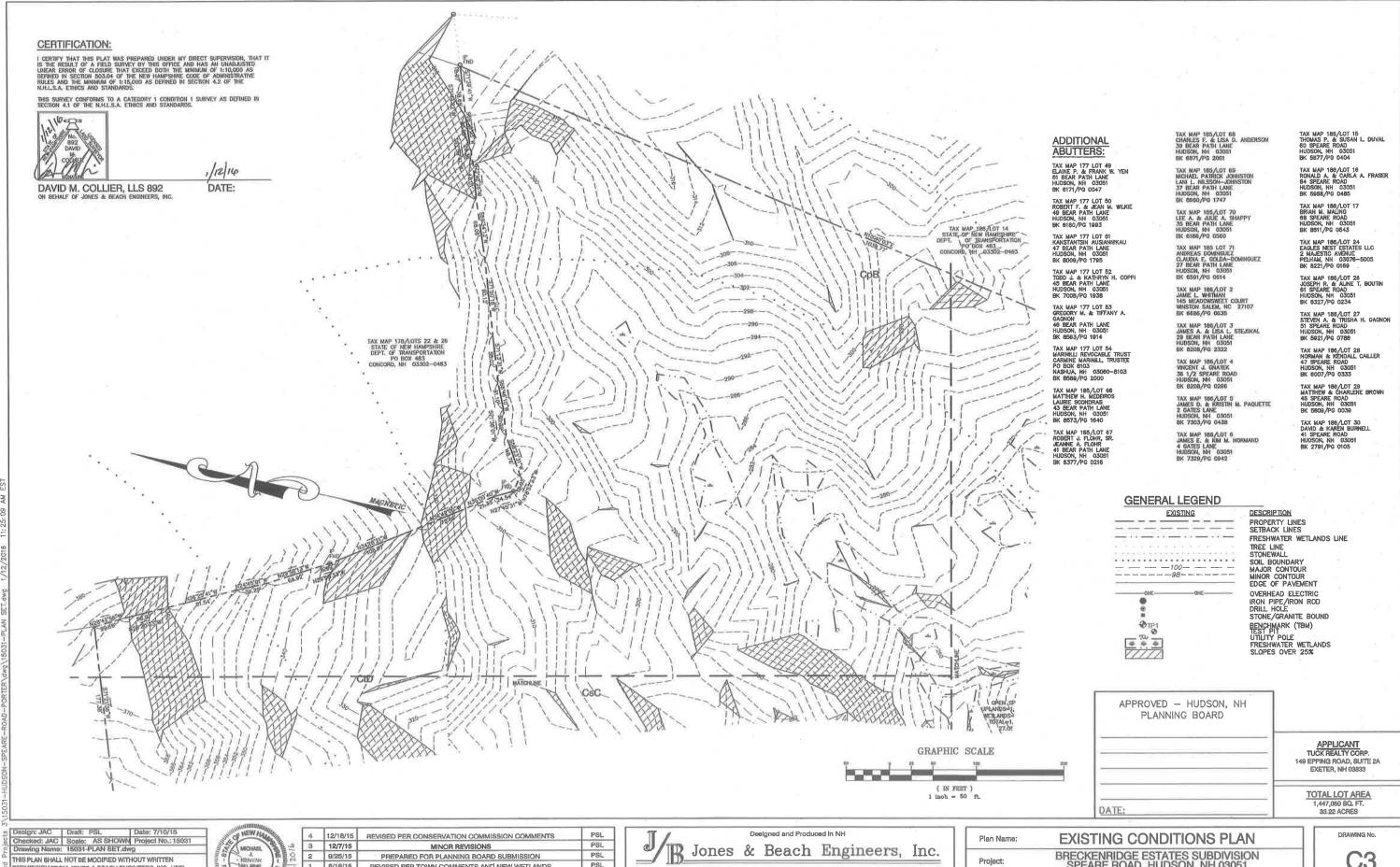
Jones & Beach Engineers, Inc.

_/ ID			- 0	
85 Portemouth Ave. PO Box 219	Civil	Engineering	Services	603-772-4746 FAX: 603-772-0227
Stratham, NH 03885			E-MAIL: JBE@J	ONESANDBEÄCH.COM

Plan Name:	EXISTING CONDITIONS PLAN
Project:	BRECKENRIDGE ESTATES SUBDIVISION SPEARE ROAD, HUDSON, NH 03051
Owner of Record:	DOUGLAS S, SANDERSON

C2

SHEET 9 OF 19 JBE PROJECT NO. 15031



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.



4	12/18/15	REVISED PER CONSERVATION COMMISSION COMMENTS	PSL
3	12/7/15	MINOR REVISIONS	PSL
2	9/25/15	PREPARED FOR PLANNING BOARD SUBMISSION	PSL
1_	8/18/15	REVISED PER TOWN COMMENTS AND NEW WETLANDS	PSL
0	7/10/15	ISSUED FOR REVIEW	PSL
REV.	DATE	REVISION	BY
	1 0	3 12/7/15 2 9/25/15 1 8/19/15 0 7/10/15	3 12/7/15 MINOR REVISIONS 2 9/25/15 PREPARED FOR PLANNING BOARD SUBMISSION 1 8/18/15 REVISED PER TOWN COMMENTS AND NEW WETLANDS 0 7/10/15 ISSUED FOR REVIEW

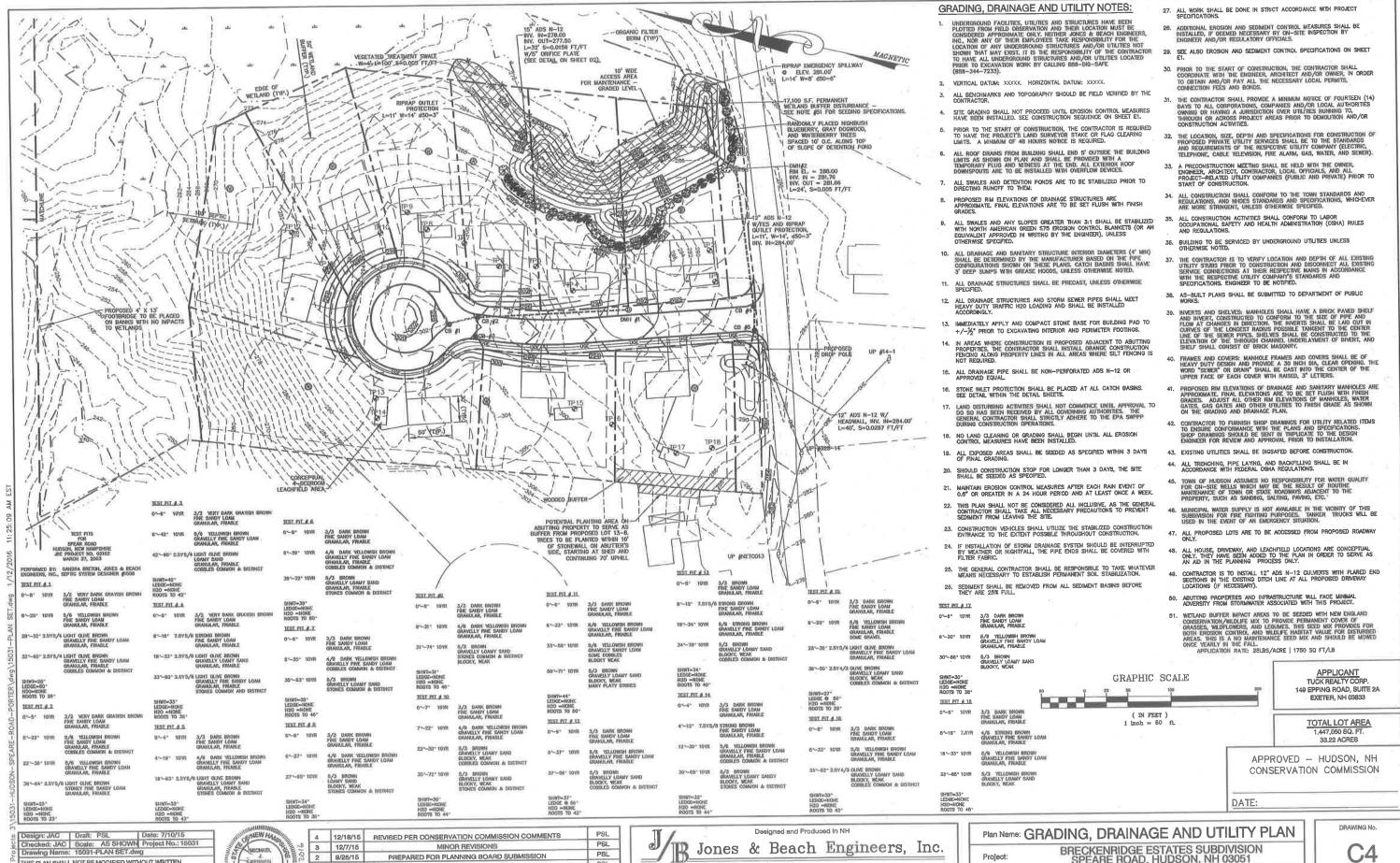
Jones & Beach Engineers, Inc.

85 Portsmouth Ave. PO Box 219 Stratham, NH 03885	Civil	Engineering	*	603-772-4746 FAX: 603-772-0227 ONESANDBEACH.COM	

Plan Name:	EXISTING CONDITIONS PLAN		
Project:	BRECKENRIDGE ESTATES SUBDIVISION SPEARE ROAD, HUDSON, NH 03051		
Owner of Record:	DOUGLAS S. SANDERSON 11 NERSESIAN WAY, HAMPTON, NH 03842		

C3

SHEET 10 OF 19 JBE PROJECT NO. 15031



2 9/25/15

1 8/18/15

0 7/10/15

REV. DATE

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.

PREPARED FOR PLANNING BOARD SUBMISSION

REVISED PER TOWN COMMENTS AND NEW WETLANDS

ISSUED FOR REVIEW

REVISION

PSL

PSL

85 Portsmouth Ave.

PO Box 219

Civil Engineering Services

C4

Prolect:

Owner of Record:

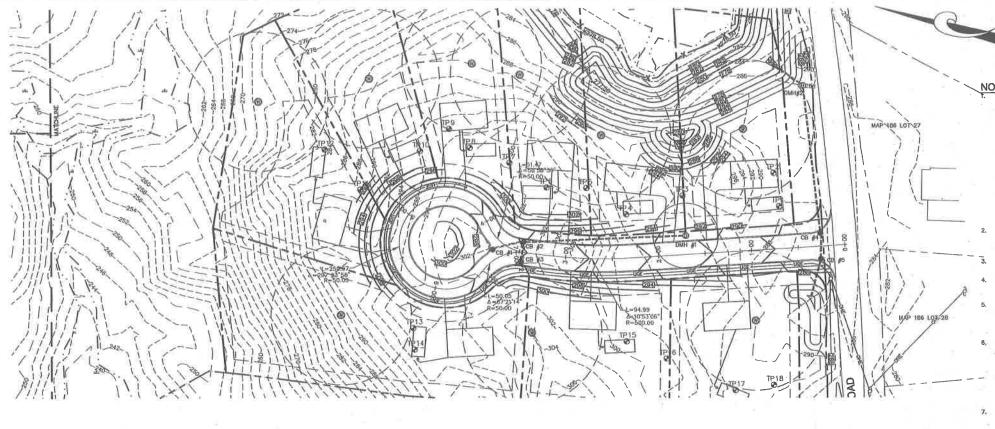
FAX: 603-772-0227

E-MAIL: JBE@JONESANDBEACH.COM

SPEARE ROAD, HUDSON, NH 03051

DOUGLAS S. SANDERSON

11 NERSESIAN WAY, HAMPTON, NH 03842



DRAINAGE TABLE

CB#1 - 4' ID RIM EL. = 296.60 INV. OUT = 292.35 12" ADS N-12 L=30' S=0.028

CB#2 - 4' iD RIM EL. = 295.85 CB#5 - 4' ID INV. IN = 291.51 RIM EL. = 286.00INV. IN = 291,51 INV. IN = 282.85 INV. OUT = 291.41 12" ADS N-12 12" ADS N-12 L=168' S=0.03 L=24' S=0,005

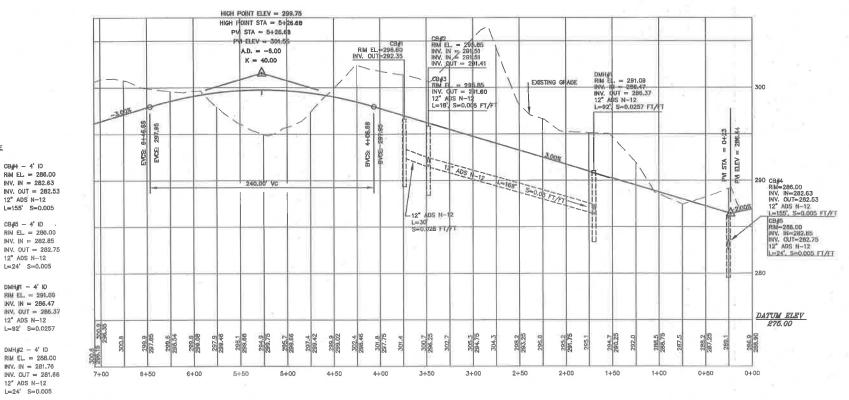
CB#3 - 4' ID RIM EL. = 295.85 INV. OUT = 291.60 12" ADS N-12

DMHAIT - 4' ID INV. IN = 286,47 INV. OUT - 285.37 12" ADS N-12 L=92' S=0.0257

CB#4 - 4' ID

12" ADS N-12 L=155' S=0.005

DMH#2 - 4' ID RIM EL. = 288.00 INV. IN = 281,76 INV. OUT = 281.66 L=24' S=0.005



NOTES:

T. THIS SITE WILL REQUIRE A USEPA NODES PERMIT FOR STORMWATER DISCHARGE FOR THE CONSTRUCTION SITE. THE CONSTRUCTION STED OPERATOR SHALL DEVELOP AND IMPLEMENT A CONSTRUCTION STORM WATER POLLUTION PREVENTION PLAN (SWPPP), WHICH SHALL REMAIN ON SITE AND BE MADE ACCESSIBLE TO THE PUBLIC, THE CONSTRUCTION SITE

SITE AND BE MADE ACCESSIBLE TO THE PUBLIC, THE CONSTRUCTION SITE OPERATOR SHALL SUBMIT A NOTICE OF INTENT (NO) TO THE EPA REGIONAL OFFICE SEVEN DAYS PRIOR TO COMMENCEMENT OF ANY WORK ON SITE, EPA WILL POST THE NOI AT HTTP: //CPPUBI.EPA.GOV/NIPDES/STORMWATER/NOI/NIOSEARCH.CFM. AUTHORIZATION IS GRANTED UNIDER THE PERMIT ONCE THE NOI IS SHOWN IN "ACTIVE" STATUS ON THIS WEBSITE. A COMPLETED NOTICE OF TERMINATION SHALL BE SUBMITTED TO THE NPOES PERMITTING AUTHORITY WITHIN 30 DAYS AFTER EITHER OF THE FOLLOWING CONDITIONS HAVE BEEN MET.

FINAL STABILIZATION HAS BEEN ACHIEVED ON ALL PORTIONS OF THE SITE FOR WHICH THE PERMITTEE IS RESPONSIBLE; OR

- ANOTHER OFFERTOR PRIVATE THE STEED WHITE ANOTHER OFFERTOR PRIVATE STEEL THAT HAVE NOT BEEN FINALLY STABILIZED, PROVIDE DPW WITH A COPY OF THE NOTICE OF TERMINATION (NOT).
- ALL ROAD AND DRAINAGE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR THE TOWN, AND NHIDDT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, WHICHEVER IS MORE STRINGENT.
- AS-BUILT PLANS TO BE SUBMITTED TO THE TOWN PRIOR TO ACCEPTANCE OF THE ROADWAY.
- DEVELOPER IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL STATE AND FEDERAL WETLAND REQUIATIONS, INCLUDING ANY PERMITTING AND SETBACK REQUIREMENTS REQUIRED UNDER THESE REGULATIONS.
- CONTRACTOR TO COORDINATE AND COMPLETE ALL WORK REQUIRED FOR THE RELOCATION AND/OR INSTALLATION OF ELECTRIC, CATY, TELEPHONE, AND FIRM ALARM PER UILITY DESIGN AND STANDARDS. LOCATIONS SHOWN ARE APPROXIMATE. LOW PROFILE STRUCTURES SHALL BE USED TO THE GREATEST EXTENT POSSIBLE.
- THIS PLAN HAS BEEN PREPARED BY JONES & BEACH ENGINEERS, INC. FOR MUNICIPAL AND STATE APPROVALS AND FOR CONSTRUCTION BASED ON DATA OBTAINED FROM ON-SITE FIELD SURVEY AND ESTINIO MUNICIPAL. RECORDS. THROUGHOUT THE CONSTRUCTION PROCESS, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY FIELD DISCREPANCY FROM DATA SHOWN ON THE DESIGN PLANS. THIS INCLUDES ANY UNFORESEEN CONDITIONS, SUBSURFACE OR OTHERWISE, FOR EVALUATION AND RECOMMENDATIONS. ANY CONTRADICTION BETWEEN THEIR OF THIS PLANYLAM SET, OR BETWEEN THE PLANYLAM SET, CONSTRUCTION MUST BE RESOLVED BEFORE RELATED CONSTRUCTION HAS BEEN INITIATED.
- SILTATION AND EROSION CONTROLS SHALL BE INSTALLED PRIOR TO CONSTRUCTION, SHALL BE MANITAINED DURING CONSTRUCTION, AND SHALL REMAIN UNTIL SITE HAS BEEN STABILIZED WITH PERMANENT VECETATION. SEE DETAIL SHEET ET FOR ADDITIONAL NOTES ON EROSION CONTROL.
- ALL DISTURBED AREAS NOT STABILIZED BY NOVEMBER 1st SHALL BE COVERED WITH AN EROSION CONTROL BLANKET, PRODUCT TO BE SPECIFIED BY THE ENGINEER.
- FINAL DRAINAGE, GRADING AND EROSION PROTECTION MEASURES SHALL CONFORM TO REGULATIONS OF THE PUBLIC WORKS DEPARTMENT.
- CONTRACTOR TO VERIFY EXISTING UTILITIES AND TO NOTIFY ENGINEER OF ANY DISCREPANCY IMMEDIATELY,
- ROADWAY INTERSECTIONS WITH SLOPE GRANITE CURB SHALL EXTEND AROUND RADIUS WITH 6' STRAIGHT PIECE ALONG TANGENT.
- 12. RETAINING WALLS SHALL BE DESIGNED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER PRIOR TO INSTALLATION.
- 13. 6" PERFORATED ADS UNDER DRAIN PLACEMENT TO BE DETERMINED BY THE ENGINEER DURING TIME OF SUBGRADE INSPECTION. CONTRACTOR TO ADJUST LOCATION IN THE FIELD ONLY WITH PRIOR APPROVAL OF PROJECT ENGINEER OR PUBLIC WORKS DEPARTMENT. CONTRACTOR TO INCLUDE 3000 LF IN BID PRICE.
- 14. ALL DRIVEWAYS TO BE CONSTRUCTED MAXIMUM 10% SLOPE. SEE DETAIL SHEET. ALL DRIVEWAYS TO HAVE CULVERTS UNLESS APPROVED BY THE TOWN ROAD AGENT.
- 15. ENGINEER TO INSTALL PERMANENT BENCHMARK (REINFORCED GRANITE MARKER) AT LOCATIONS SHOWN ON PLANS, BENCH MARKS TO BE TIED TO STATE PLANE COORDINATE SYSTEM.

Project:

Owner of Record:

16. SIDEWALK TO BE INSTALLED AT TIME OF TOP COURSE PAVING ALONG WITH

- DRAINAGE INSPECTION AND MAINTENANCE SCHEDULE: SILT FENCING WILL BE INSPECTIED DURING AND AFTER STORM EVENTS TO ENSURE THAT THE FERNCE STILL HAS INTEGRITY AND IS NOT ALLOHMO SEDIMENT TO PASS. SEDIMENT BUILD UP IN SWALES WILL BE REMOVED IF IT IS DEEPER THAN SIX HOLDERS, AND IS TO BE REMOVED FROM SUMPS BEDOW THE HALET OF COULVERTS SEMANUALLY, AS WELL AS FROM CATCH BASINS, FOLLOWING MAJOR STORM EVENTS, THE STADE DISCHARGE OUTLET STRUCTURES ARE TO BE INSPECTED AND ANY DEERIS REMOVED FROM THE ORIFICE, TRASH TRACK AND EMPRESS OF SPILL WAY, INFREQUENTLY, SEDIMENT MAY ALSO HAVE TO BE REMOVED FROM THE SUMP OF THE STRUCTURE.
- CONTRACTOR MUST HAVE A VALID PIPE INSTALLER'S LICENSE FROM THE PUBLIC WORKS DEPARTMENT BEFORE WORKING ON ANY DRAINAGE AND/OR UTILITY CONSTRUCTION.
- ALL DRAINAGE INFRASTRUCTURE SHALL BE INSTALLED AND STABILIZED PRIOR TO DIRECTING ANY RUNOFF TO IT.
- PRIOR TO DIRECTING ANY RUNOF TO IT.

 INSPECTED AFTER EVERY MAJOR STORM EVENT, AS WELL AS FREQUENTLY DURING THE FIRST YEAR OF OPERATION, AND ANNUALLY THEREAFTER. DURING THE FIRST YEAR OF OPERATION, AND ANNUALLY THEREAFTER. EVERY FIVE YEARS, THE SERVICES OF A PROFESSIONAL ENGINEER SHOULD BE RETAINED TO PERFORM A THOROUGH INSPECTION OF THE DETENTION POND AND ITS INFRASTRUCTURE. ANY DEBRIS AND SEDIMENT ACCUMULATIONS SHOULD BE REMOVED FROM THE OUTLET STRUCTURE(S) AND EMERGENCY SPILLWAY(S) AND INFOSEDED OF PROPERLY DETENTION POND BERMS SHOULD BE MOWED AT LEAST ONCE ANNUALLY 50 AS TO PREVENT THE ESTABLISHMENT OF WOODY VEGETATION. TREES SHOULD INCYER BE ALLOWED TO GROW ON A DETENTION POND BERM, AS THEY MAY DESTABLIZE THE STRUCTURE AND INCREASE THE POPENTIAL FOR FALLIPE AREAS SHOWING SIGNS OF EROSION OR THIN OR DYING VEGETATION. SHOULD BE REPAIRED IMMEDIATELY BY WHATEVER MEANS NECESSARY, WITH THE EXCEPTION OF FERTILIZER, RODENT BORROWS SHOULD BE REPAIRED IMMEDIATELY OF WHATEVER MEANS NECESSARY, WITH THE EXCEPTION OF FERTILIZER, RODENT BORROWS SHOULD BE REPAIRED IMMEDIATELY AND THE AWAMALS SHOULD BE TRAPPED AND RELOCATED IF THE PROBLEM PERSISTS.
- THE PROBLEM PERSISTS.

 THE DETENTION PONDS ARE TO BE CONSTRUCTED PRIMARILY THROUGH EXCAVATION. IN THOSE AREAS WHERE THE BERMS MUST BE CONSTRUCTED BY THE PLACEMENT OF FILL. THE ENTIRE EMBRANAMENT AREA OF THE DETENTION PONDS SHALL BY THE ENTRIE EMBRANAMENT AREA OF THE DETENTION PONDS SHALL BY THE ENTRE EMBRANAMENT AREA OF THE PLACEMENT OF THE EMBRANAMENT AND SCARFIED FROM THE PLACEMENT OF THE EMBRANAMENT MATERIAL. IN THE EVENT THE FOUNDATION MATERIAL EXPOSED DOES NOT ALLOW THE SPECIFIC COMPACTION, AN ADDITIONAL ONE POOT (1') OF EXCAVATION AND THE PLACEMENT OF A ONE POOT (1') THICK, TRELIE POOT (1') WHERE THE PLACEMENT OF A ONE POOT (1') THICK, TRELIE POOT (1') WHERE THE PLACEMENT OF SHEEP OF THE MATERIAL DESCRIBED. SHALL BE ACCUSED THE AND COMPACTION SHOULD OCCUP AT A MOSTURE CONTENT OF OPTIMUM PLUS OR WINLIS 3K, AND NO FROZEN OR ORGANIC MATERIAL SHOULD BE PLACED WITHIN FOR ANY.
- 22. EMBANKMENT MATERIAL FOR THE BERMS SHALL BE CLEAN MINERAL SOIL WITH A CLAY COMPONENT FREE OF ROOTS, ORGANIC MATTER, AND OTHER DELETERIOUS SUBSTANCES, AND SHALL CONTAIN NO ROCKS OR LUMPS OVER FOUR INCHES (4") IN JUMETER. THIS MATERIAL SHOULD BE INSTALLED IN 6" LITET AND COMPACTED TO 9-59.5 A SATM D—1557, AND SHOULD MEET THE FOLLOWING SPECIFICATIONS: 4" PASSING 100%, #4 SIEVE 25-70%, #200 SIEVE 10-29% (IN TOTAL SAMPLE).
- 23. EMBANKMENT IS TO HAVE 3:1 SIDE SLOPES (MAX.) AND IS TO BE BROUGHT TO SPECIFED GRADES PRIOR TO THE ADDITION OF LOAM (4" MINIMUM) SO AS TO ALLOW FOR THE COMPACTION OF THE STRUCTURE OVER TIME WHILE MAINTAINING THE PROPER BERM ELEVATION.
- COMPACTION TESTING SERVICES (I.E. NUCLEAR DENSITY TESTS) ARE TO BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER RETAINED BY THE CONTRACTOR FOR ROADWAY CONSTRUCTION, AND ON THE FOUNDATION OF THE BERM AND ON EVERY LIFT OF NEWLY PLACED MATERIAL.
- 25. ORNAMENTAL STREET LIGHTING SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE HOME OWNER'S ASSOCIATION, LIGHTING SHALL NOT TO BE OWNED OR MAINTAINED BY THE TOWN.
- 26. SLOPED GRANITE CURB TO BE TIPPED DOWN AT ALL DRIVEWAY ENTRANCES BY THE CONTRACTOR. ALL DRIVEWAY LOCATIONS SHALL BE RECYMED AND APPROVED BY PUBLIC WORKS PRIOR TO ISSUANCE OF BUILDING PERMIT.
- 27, NO IRRIGATION PIPES OR SPRINKLER HEADS SHALL BE LOCATED WITHIN TOWN RIGHT OF WAY.
- FILTER STRIP AREAS SHALL HAVE ALL BOULDERS REMOVED FROM THE ENTIRE LENGTH AND WOTH AND SHALL BE IMMEDIATELY STRABUZED WITH VEGETATION, OR THE CONTRACTOR SHALL GOBET THE FILTER STRIP AND LEVEL SPREADER SO AS TO ALLOW DRAWNAGE FLOW OVER A BOULDER FREE AREA OF EQUAL LENGTH AND WOTH. BROGRED SHALL BE NOTIFIED TO INSPECT ALL LEVEL SPREADERS AND FILTER STRIP LOCATIONS AFTER ROAD SUBGRADE IS ESTABLISHED. NO STORMWATER SHALL BE DIFFEED TO THE LEVEL SPREADER AND FILTER STRIP LIVING THE AREA HAS BEEN STABILIZED

GRAPHIC SCALE (IN FEET)

Design: JAC | Draft: PSL Checked: JAC Scale: AS SHOWN Project No.:1603
Drawing Name: 15031-PLAN SET.dwg THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN ERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE)

ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE

AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



4	12/18/15	REVISED PER CONSERVATION COMMISSION COMMENTS	PSL
3	12/7/15	MINOR REVISIONS	PSL
2	9/25/15	PREPARED FOR PLANNING BOARD SUBMISSION	PSL
1	8/18/15	REVISED PER TOWN COMMENTS AND NEW WETLANDS	PSI.
0	7/10/15	ISSUED FOR REVIEW	PSL
REV.	DATE	REVISION	BY
	3 2 1 0	3 12/7/15 2 9/25/15 1 8/18/15 0 7/10/15	3 12/7/15 MINOR REVISIONS 2 9/25/15 PREPARED FOR PLANNING BOARD SUBMISSION 1 8/18/16 REVISED PER TOWN COMMENTS AND NEW WETLANDS 0 7/10/15 ISSUED FOR REVIEW

Designed and Produced in NH Jones & Beach Engineers, Inc. 85 Portsmouth Ave. Civil Engineering Services FAX: 603-772-0227

E-MAIL: JBE@JONESANDBEACH.COM

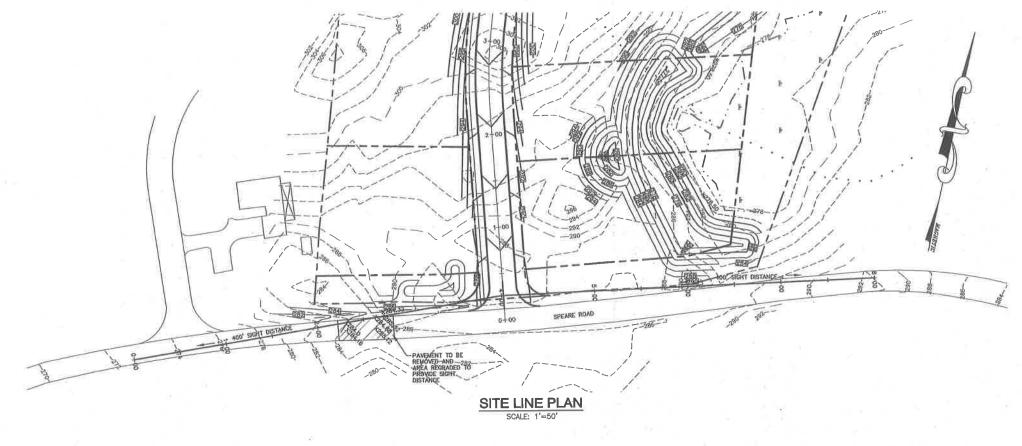
Plan Name: PLAN AND PROFILE

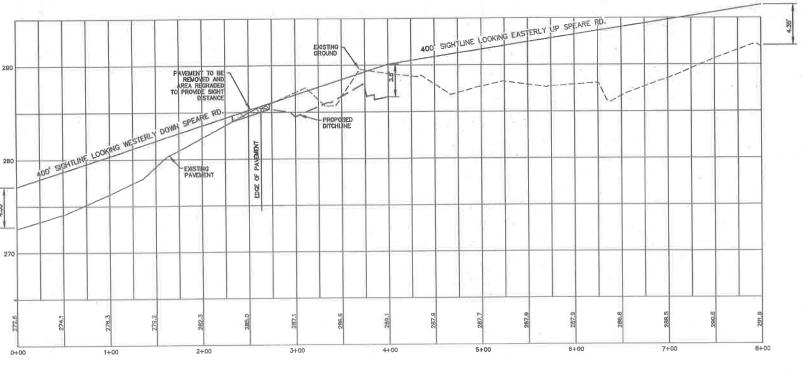
BRECKENRIDGE ESTATES SUBDIVISION SPEARE ROAD, HUDSON, NH 03051

DOUGLAS S. SANDERSON 11 NERSESIAN WAY, HAMPTON, NH 03842

DRAWING No P1

JBE PROJECT NO. 1503





NOTES:

SIGHT DISTANCE MEASURED FROM A HEIGHT OF 3.5' AT THE CENTERLINE OF THE PROPOSED ROAD TO AN OBJECT 4.35' IN HEIGHT 400' IN BOTH DIRECTIONS.

SIGHT LINE PROFILE

SCALE: 1"=50' HORIZ. SCALE: 1"=5' VERT.

Design: JAC Draft: PSL Date: 7/10/15
Checked: JAC Scale: AS SHOWN Project No.:1503:
Drawing Name: 15031-PLAN SET.dwg

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN
PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE).
ANY ALTERATIONS, AUTHORIZED OR OTHERWIBE, SHALL BE
AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



4	12/18/15	REVISED PER CONSERVATION COMMISSION COMMENTS	PSL
3	12/7/15	MINOR REVISIONS	PSL
2	9/25/15	PREPARED FOR PLANNING BOARD SUBMISSION	PSL
1	8/18/15	REVISED PER TOWN COMMENTS AND NEW WETLANDS	P8L
0	7/10/15	ISSUED FOR REVIEW	PSL
REV.	DATE	REVISION	BY

Designed and Produced in NH

Jones & Beach Engineers, Inc. 85 Portemou PO Box 219 Stretham, N

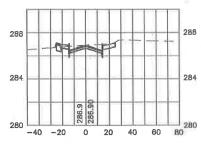
11/				
outh Ave.	Charit	Engineering	Samijaas	603-772-4746
ID TO	CLULL	Butytheer they	Delones	FAX: 603-772-0227
NH 03885			E-MAIL: JBE@J	ONESANDBEACH.COM

Plan Name:	HIGHWAY ACCESS PLAN
Project:	BRECKENRIDGE ESTATES SUBDIVISION SPEARE ROAD, HUDSON, NH 03051
Owner of Record:	DOUGLAS S. SANDERSON 11 NERSESIAN WAY, HAMPTON, NH 03B42

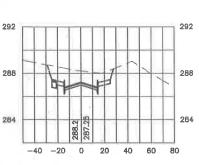
DRAWING No. H1

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft Horiz.
1 inch = 5 ft Vert.

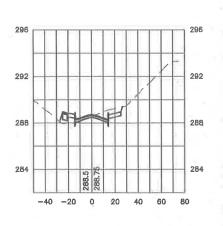
0+00



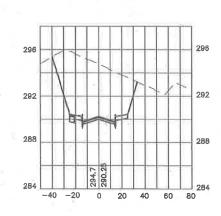
0+50



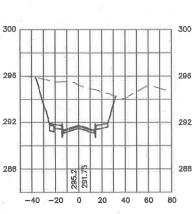
1+00



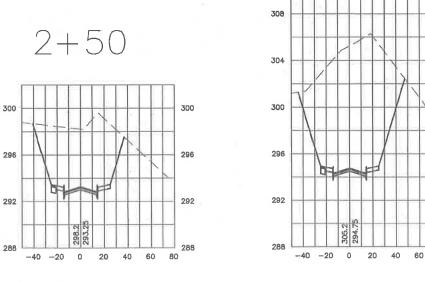
1 + 50



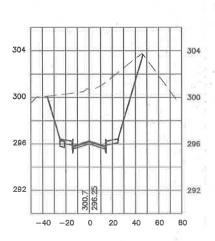
2+00



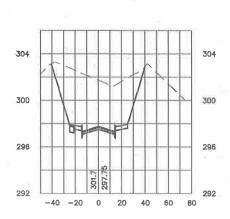
3+00



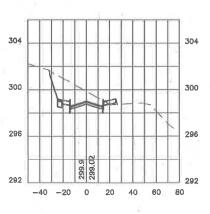
3 + 50



4+00



4+50



GRAPHIC SCALE

Design: JAC	Draft: PSL	Date: 7/10/15
Checked: JAC	Scale: AS SHOWN	Project No.: 15031
Drawing Name:	15031-PLAN SET.dv	/g
THIS PLAN SHALL	NOT BE MODIFIED WITH	HOUT WRITTEN
PERMISSION FRO	M JONES & BEACH ENG	SINEERS, INC. (JBE).
ANY ALTERATION	S, AUTHORIZED OR OTH	ERWISE, SHALL BE
	OLE RISK AND WITHOUT	



4	12/18/15	REVISED PER CONSERVATION COMMISSION COMMENTS	PSL
3	12/7/15	MÍNOR REVISIONS	PSL
2	9/25/15	PREPARED FOR PLANNING BOARD SUBMISSION	PSL
1	8/18/15	REVISED PER TOWN COMMENTS AND NEW WETLANDS	P8L
0	7/10/15	ISSUED FOR REVIEW	PSL
REV.	DATE	REVISION	BY



Jones & Beach Engineers, Inc. Services 603-772-4746 FAX: 603-772-0227 E-MAIL: JBE@JONESANDBEACH.COM 85 Portsmouth Ave. Civil Engineering Services
PO Box 219
Stratham, NH 03885

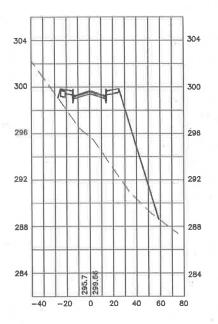
E-MAIL: JBE@

Plan Name:	CROSS SECTIONS STA 0+00 TO 4+50
Project:	BRECKENRIDGE ESTATES SUBDIVISION

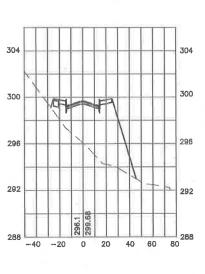
SPEARE ROAD, HUDSON, NH 03051 DOUGLAS S. SANDERSON 11 NERSESIAN WAY, HAMPTON, NH 03842 Owner of Record:



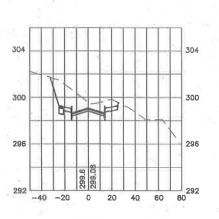
5+00



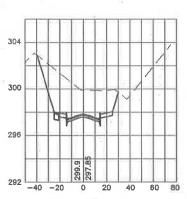
5+50



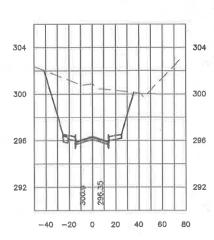
6+00



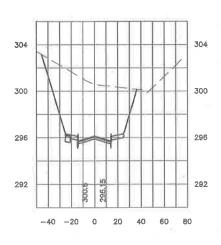
6 + 50



7+00



7+06.72



GRAPHIC SCALE

Design: JAC		Date: 7/10/15			
Checked: JAC	Scale: AS SHOWN	Project No.: 15031			
Drawing Name:	15031-PLAN SET.dw	Drewing Name: 15031-PLAN SET.dwg			
THIS PLAN SHALL PERMISSION FRO	NOT BE MODIFIED WITH M JONES & BEACH ENG	IOUT WAITTEN INEERS, INC. (JBE).			
THIS PLAN SHALL PERMISSION FRO ANY ALTERATION	NOT BE MODIFIED WITH	IOUT WAITTEN INEERS, INC. (JBE). ERWISE, SHALL BE			



4	12/18/15	REVISED PER CONSERVATION COMMISSION COMMENTS	PSL
3	12/7/15	MINOR REVISIONS	P8L
2	9/25/15	PREPARED FOR PLANNING BOARD SUBMISSION	PSL
1	8/18/15	REVISED PER TOWN COMMENTS AND NEW WETLANDS	P8L
0	7/10/15	ISSUED FOR REVIEW	PSL
REV.	DATE	REVISION	BY

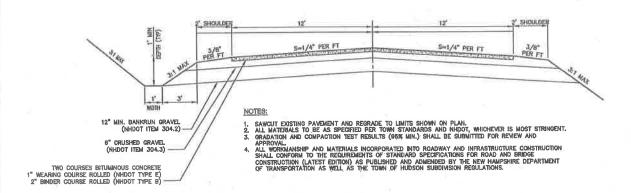


Plan Name: CROSS SECTIONS STA 5+00 TO 7+06.72

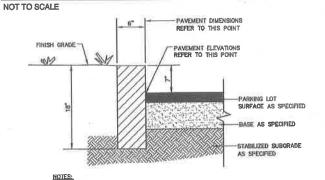
Project: SPEARE ROAD, HUDSON, NH 03051

Owner of Record: DOUGLAS S. SANDERSON
11 NERSESIAN WAY, HAMPTON, NH 03842

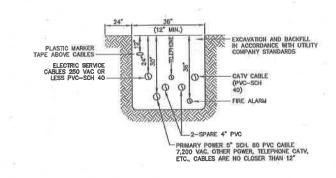




TYPICAL ROADWAY SECTION SPEARE ROAD



- 1. EDGING TO BE PLACED PRIOR TO PLACING TOP SURFACE COURSE.
- 2. JOINTS BETWEEN STONES SHALL BE MORTARED.



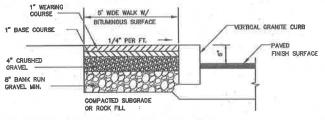
NOTE; ALL UTILITIES SHALL BE REVIEWED AND APPROVED BY APPROPRIATE UTILITY COMPANY.

7" VERTICAL GRANITE CURB

NOT TO SCALE

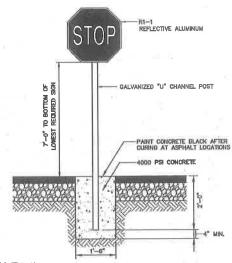
UTILITY TRENCH

NOT TO SCALE



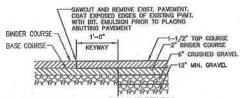
BIT. SIDEWALK W/ VERTICAL GRANITE CURB

NOT TO SCALE



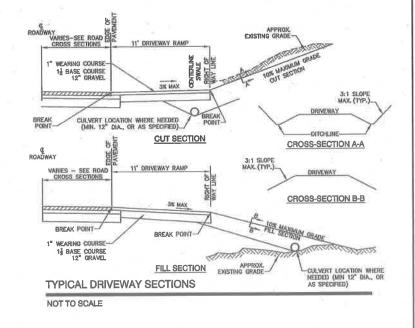
STOP SIGN (R1-1)

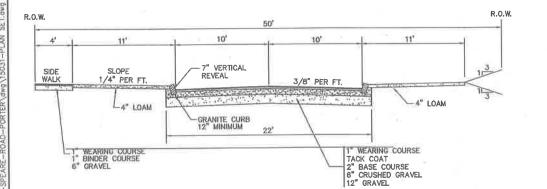
NOT TO SCALE



KEYWAY DETAIL FOR CONNECTION TO EXISTING PAVEMENT

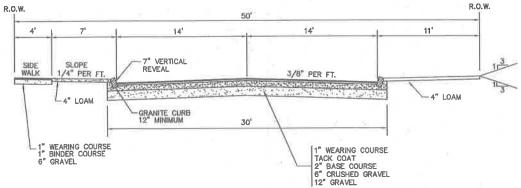
NOT TO SCALE





TYPICAL ROADWAY SECTION - CUL-DE-SAC

SCALE: 1"=10"



TYPICAL ROADWAY SECTION

SCALE: 1"=10'





4	12/18/15	REVISED PER CONSERVATION COMMISSION COMMENTS	PSL
3	12/7/15	MINOR REVISIONS	PSL
2	9/25/15	PREPARED FOR PLANNING BOARD SUBMISSION	PSL
1	8/18/15	REVISED PER TOWN COMMENTS AND NEW WETLANDS	PSL
0	7/10/15	ISSUED FOR REVIEW	PSL
REV.	DATE	REVISION	BY



Plan Name:	DETAIL SHEET
Project:	BRECKENRIDGE ESTATES SUBDIVISION SPEARE ROAD, HUDSON, NH 03051
Owner of Record:	DOUGLAS S. SANDERSON 11 NERSESIAN WAY, HAMPTON, NH 03842

DRAWING No.

D1

SHEET 16 OF 18

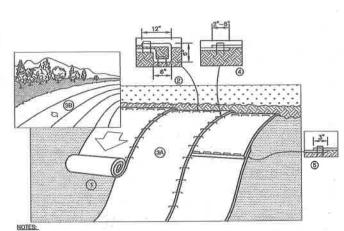
JBE PROJECT NO. 15031

MAINTENANCE NOTE:

1. ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAINFALL AND REPAIRS MADE AS NECESSARY, SEDMENT SHOULD BE REMOVED FROM TRAPPING DEVICES AFTER THE SEDMENT HAS REACHED A MAXIMUM OF ONE HALF THE DEPTH OF THE TRAP. THE SEDMENT SHOULD BE DISPOSED IN A SUITABLE UPLAND AREA AND PROTECTED FROM EROSION BY STINER STRUCTURE OR VEGETATIVE MEANS. THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AFTA REPAIRED AS SOON AS THE CONTRIBUTION DRAINAGE AREA TO THE BILET HAS BEEN COMPLETELY STABILIZED.

TEMPORARY CATCH BASIN INLET PROTECTION (Block and Gravel Drop Inlet Sediment Filter)

NOT TO SCALE



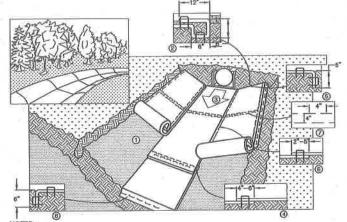
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED, NOTE: WHEN USING CELL—O-SEED DO NOT SEED PREPARED AREA. CELL—O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" BEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTRON OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH APTER STAPLING. APPLY SEED TO COMPACTIFE TRENCH APTER STAPLING. APPLY SEED TO COMPACTED SOIL. AND FOLD REMAINING 12" PORTRON 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 SOLL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS BOHOWN IN THE STAPLE PATTERN QUIDE, WHEN USING OPTIONAL DOT SYSTEMM, 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"-B" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM AUGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEIGN INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- 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 ENTRE BLANKET WIDTH. MODE. 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 (800) 772-2040

NOT TO SCALE



NOTES:

1. PREPARE SOIL BEFORE INSTALLING BLANKETE, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED, MOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST DE INSTALLED WITH PAPER SIDE DOWN.

2. BEEN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP BY 8" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET IN A 6" DEEP BY 8" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE HEINCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL, AND FOLD REMAINING 12" PORTION OF THE TRENCH. ASCAPLAGE AND COMPACTED SOIL, SECURITION OF THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL, AND OVER COMPACTED SOIL, WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET. DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL URROUL. 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 CUIDE. WHEN USING OFTONIAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EARLY OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

PLACE CONSECUTIVE BLANKETS BUD OVER END (SHINGLE STYLE) WITH A 4"-6" OVERLAP, USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.

FILL LEIGHT LEDGE OF BLANKETS ATT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (DEPENDING ON BLANKET (BLANKET BEHON INSTALLED ON TOP) EVEN WITH THE THE COLORED SEAM STITCH ON THE BLANKET BEHON OF STAPLES APPROXIMATELY 12" APART IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH APPER STAPLE. APART IN A 6" DEEP BY 6" WIDE TRENCH. BANKET BEHON OVER END OF THE CHANNET.

8. AD

S.T. ITTE. CONSTITUTE.

S. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 8" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE AFTER STAPLING.



CRITICAL POINTS:

A. OVERLAPS AND SEAMS B. PROJECTED WATER LINE C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTES: * HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

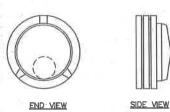
** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

P8L PSL PSL PSL

PSL.

EROSION CONTROL BLANKET SWALE INSTALLATION NORTH AMERICAN GREEN (800) 772-2040

NOT TO SCALE

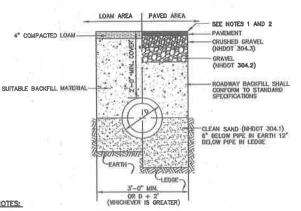


NOTE:

1. ADS N-12 SPLIT END CAP, ADS PRODUCT #--67-AA. CONTRACTOR TO DRILL A CRICULAR ORIFICE AS SPECIFIED ON CONSTRUCTION DRAWNOS IN THE ERIO CAP TO MATCH THE INLET INVERT OF THE RECEIVING ADS N-12 CULVERT. INSTALLATION REQUIRES THAT THE END CAP BE FIELD BOLLED TO THE CULVERT WITH STANKESS

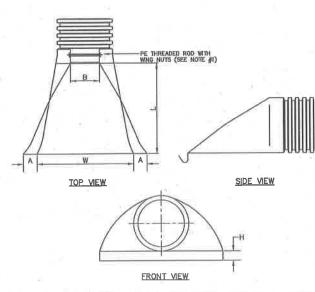
ADS ORIFICE END CAP

NOT TO SCALE



- 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 MATERIALS ARE TO BE COMPACTED TO 95% OF ASTM D-1657. DRAINAGE TRENCH

NOT TO SCALE



PART NO.	PIPE	A	B (MAX)	Н	-L	W
1210-NP	12°	6.5"	10°	6.6*	25"	20°
1510-NP	15"	6.6"	10"	6.5°	25°	29°
1810-NP	18"	7.5"	15"	6.5"	32°	35"
2410-NP	24°	7.5"	18°	6.5"	36*	45"
3010-NP	30"	10.5"	N/A	7.0"	53°	66"
3810-NP	36"	10.5"	N/A	7.0°	53°	68°

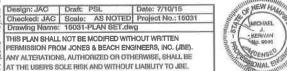
- PE THREADED ROD WITH WING NUTS PROVIDED FOR END SECTIONS 12"-24".
 30" AND 36" END SECTIONS TO BE WELDED PER MANUFACTURER'S RECOMMENDATIONS.

ADS N-12 FLARED END SECTION

DETAIL OLICE

NOT TO SCALE

Design: JAC	Draft: PSL	Date: 7/10/15
Checked: JAC	Scale: AS NOTED	Project No.: 15031
Drawing Name:	Scale: AS NOTED 15031-PLAN SET.dw	'Q



4	12/18/15	REVISED PER CONSERVATION COMMISSION COMMENTS
3	12/7/15	MINOR REVISIONS
2	9/25/15	PREPARED FOR PLANNING BOARD SUBMISSION
1	8/18/15	REVISED PER TOWN COMMENTS AND NEW WETLANDS
0	7/10/15	ISSUED FOR REVIEW
REV.	DATE	REVISION

T/		De	algned and Produc	oed in NH	
	Jones	80	Beach	Engineers,	Inc.

	1100	a Dead		0010, 1110
85 Portsmouth Ave. PO Box 219 Stratham, NH 03885		Engineering	Services	603-772-4746 FAX: 603-772-0227 IONESANDBEACH.CON

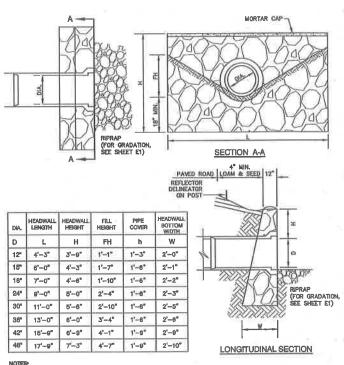
ı	П	Plan Name:	DETAIL SHEET	
١		Project:	BRECKENRIDGE ESTATES SUBDIVISION SPEARE ROAD, HUDSON, NH 03051	
	Ì	Owner of Record:	DOUGLAS S. SANDERSON 11 NERSESIAN WAY, HAMPTON, NH 03842	

DRAWING No. SHEET 17,0F 19

JBE PROJECT NO. 1 5091

DRIP EDGE DETAIL

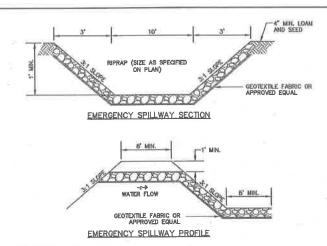
NOT TO SCALE



- 1, ALL DIMENSIONS GIVEN IN FEET AND INCHES.
- 2. PROVIDE BELL END AT INLET HEADWALL, AND SPIGOT END AT OUTLET END HEADWALL.
- 3. RIPRAP SHALL BE SIZED TO RESIST THE TRACTIVE VELOCITY FORCES

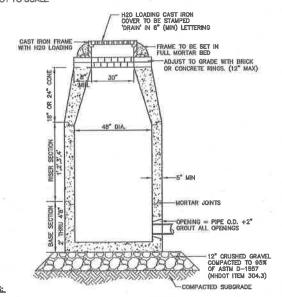
MORTAR RUBBLE MASONRY HEADWALL

NOT TO SCALE



EMERGENCY SPILLWAY

NOT TO SCALE

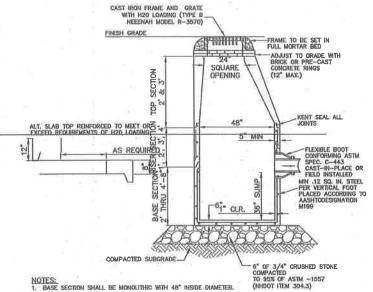


1. BASE SECTION SHALL BE MONOLITHIC WITH 48" INSIDE DIAMETER,

- 2. ALL SECTIONS SHALL BE DESIGNED FOR H20 LOADING.
- 3, CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI, TYPE II 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.
- ALL DRAIN MANHOLE FRAMES AND GRATES SHALL BE NHDOT TYPE MH-1, OR NEENAH R-1798 OR APPROVED EQUAL (30° DIA. TYPICAL).
- 8. STANDARD FRAME(S) 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 MAXMUM, BUT NO. MORE THAN 12"), OR FRECAST CONCERET "ONUTS".

DRAIN MANHOLE

NOT TO SCALE



NOTES: 1. BASE SECTION SHALL BE MONOLITHIC WITH 48" INSIDE DIAMETER.

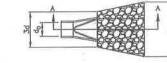
- 2. ALL SECTIONS SHALL BE DESIGNED FOR H20 LOADING.
- 3. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI, TYPE II CEMENT.
- 4. FRAMES AND GRATES SHALL BE HEAVY DUTY AND DESIGNED FOR H20 LOADING
- PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX, CLEARANCE TO OUTSIDE OF PIPE, MORTAR ALL PIPE CONNECTIONS SO AS TO BE WATERTIGHT.
- 6, JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE BUTYL RUBBER.
- ALL CATCH BASIN FRAMES AND GRATES SHALL BE NHOOT CATCH BASIN TYPE ALTERNATE 1 OR NEENAH R-3570 OR APPROVED EQUAL (24"x24" TYPICAL). STANDARD CATCH BASIN FRAME AND GRATE(\$) 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 CONCRETE "DONUTS".

E-MAIL: JBE@JONESANDBEACH.COM

CATCH BASIN

NOT TO SCALE

Stratham, NH 03885





LENGTH OF F.E.

SECTION A-A PIPE OUTLET TO FLAT AREA WITH NO DEFINED CHANNEL

PIPE OUTLET TO WELL-DEFINED CHANNEL

TABLE 7-24	RECOMMENDE	RIP RAP GRA	DATION RANGES
THICKNESS OF	RIP RAP = C	.75 FEET	
d50 SIZE=	0,25	FEET	3 INCHES
% OF WEIGHT S THAN THE GIVE		SIZE OF S	STONE (INCHES) TO
100%		5	6.
85%		4	5
50%		3	5
15%		1	2

TABLE 7-24	RECOMMENDED	RIP RAP GR	ADATI	ON RANGES
THICKNESS OF	RIP RAP = 1.	5 FEET		
d50 SIZE=	0.50	FEET	6	INCHES
% OF WEIGHT S THAN THE GIVE		SIZE OF FROM	STO	NE (INCHES) TO
100%		9	- 6	12
85%		8		11
50%		6		9
15%		2		3

- 1. THE SUBGRADE FOR THE GEOTEXTILE FABRIC AND RIP RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
- 2. THE RIP RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
- 3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP. DAMAGED AREAS IN THE FABRIC SHALL BE REPARED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPARTS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.

- 6. MAINTENANCE: THE OUTLET PROTECTION SHOULD BE CHECKED AT LEAST ANNUALLY AND AFTER EVERY MAJOR STORM. IF THE RIP RAF HAS BEEN DISPILACED, LINDERMINED OR DAMAGED, IT SHOULD BE REPARED MINEDIATELY HELDOW THE OUTLET SHOULD BE CHECKED TO SEE THAT EROSION IS NOT OCCURRING. THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEERIS, AND SEDMENT THAT COLLID CHANGE FLOW PATTERNS AND/OR TALLWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT MAINTENET OF VIOLET ROOMS.

RIP RAP OUTLET PROTECTION APRON

NOT TO SCALE

Design: JAC		Date: 7/10/15
	Soale: AS NOTED	
Drawing Name:	15031-PLAN SET.dw	/g
PERMISSION FRO	NOT BE MODIFIED WITH M JONES & BEACH ENG	RINEERS, INC. (JBE).
	S, AUTHORIZED OR OTH	
	OLE RISK AND WITHOUT	



4	12/18/15	REVISED PER CONSERVATION COMMISSION COMMENTS	PSL
3	12/7/15	MINOR REVISIONS	PSL
2	9/25/15	PREPARED FOR PLANNING BOARD SUBMISSION	PSL
1	8/18/15	REVISED PER TOWN COMMENTS AND NEW WETLANDS	PSL
0	7/10/15	ISSUED FOR REVIEW	P8L
REV.	DATE	REVISION	BY

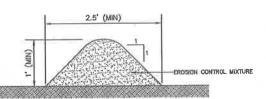


Plan Name:	DETAIL SHEET
Project:	BRECKENRIDGE ESTATES SUBDIVISION SPEARE ROAD, HUDSON, NH 03051
Owner of Record:	DOUGLAS S. SANDERSON 11 NERSESIAN WAY, HAMPTON, NH 03842

DRAWING No.

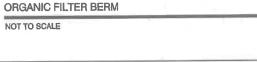
- TEMPORARY EROSION CONTROL NOTES

 1. 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 GREANEL LOAM AND SEEDED WITH SEED MIXTURE "O" AT A RATE NOT LESS THAN 1,10 POUNDS OF SEED PER 1,000 S.F. OF AREA (48 LBS. / ACRE).
- 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 AND DISPOSED OF.
- AREAS MUST BE SECDED 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 DAYS OF INITIAL DISTURBANCE.
- 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 575 PERSONN CONTROL BLANKETS (OR AN EQUIVALENT APPROVED IN WRITING BY THE ENGINEER) ON SLOPES GREATER THAN 5-1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACKE, SEVURED WITH AMCHORED NETHING, ELSEWHERE, THE INSTALLATION OF ERGSON CONTROL BLANKETS OR MULCH AND NETHING SHALL NOT OCCUR COLUMNLATES SHOW OR ON PROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAN OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OOTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORABLY WITH STONE OR PERCISION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW COMMITIONS.
- AFTER NOVEMBER 18th, 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
 - O. 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;
 - d. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 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:B3 AND AGR 3800 RELATIVE TO INVASIVE SPECIES.
- PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR'S NAME, ADDRESS, AND PHONE NUMBER SHALL BE SUBMITTED TO DES VIA EMAIL (SEE BELOW).
- PRIOR TO CONSTRUCTION, A PHASING PLAN THAT DELINEATES EACH PHASE OF THE PROJECT SHALL BE SUBMITED. ALL TEMPORARY SEDIMENT BASINS THAT WILL BE NEEDED FOR DEWATERING WORK AREAS SHALL BE LOCATED AND IDENTIFIED ON THIS FLAN.
- IN ORDER TO ENSURE THE STABILITY OF THE SITE AND EFFECTIVE IMPLEMENTATION OF THE SEDMENT AND EROSION CONTROL MEASURES SPECIFIED IN THE PLANS FOR THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL BE IN STRUCT COMPLIANCE WITH THE FOLLOWING INSPECTION AND MANIENANCE REQUIREMENTS IN ADDITION TO THOSE CALLED FOR IN THE SWPPP:
 - a. A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL OR A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE ("MONITOR") SHALL BE EMPLOYED TO HISPECT THE SITE FROM THE STATE TO PALTERATION 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 ½ INCH OR GREATER RAIN EVENT (I.E. ¼ 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 EVENT.
 - c. THE MONITOR SHALL PROVIDE TECHNICAL ASSISTANCE AND RECOMMENDATIONS TO THE CONTRACTOR ON THE APPROPRIATE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDMENT CONTROLS REQUIRED TO MEET THE REQUIREMENTS OF RSA 486 A:17 AND ALL APPLICABLE DES PERMIT CONDITIONS.
 - d. WITHIN 24 HOURS OF EACH INSPECTION, THE MONITOR SHALL SUBMIT A REPORT TO DES VIA EMAIL (RIDGELY MAUCK AT: RIDGELY.MAUCK@DES.NH.GOV).
 - e. THE MONITOR SHALL MEET WITH DES TO DECIDE UPON A REPORT FORMAT. THE REPORT FORMAT SHALL BE REVIEWED AND APPROVED BY DES PRIOR TO THE START OF CONSTRUCTION.



- 1. ORGANIC FILTER BERMS MAY BE UTILIZED IN LIEU OF SILT FENCE, UNLESS OTHERWISE SPECIFIED
- THE ERGSION CONTROL MIX USED IN THE FILTER BERMS SHALL BE A WELL-GRADED MIXTURE OF PARTICLE SIZES, MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER, STUMP GRADONGS, SHREODED OR COMPOSTED BARK, OR ACCEPTABEL MANUFACTURED PRODUCTS, AND SHALL BE FREE OF REFUSE, PHYSICAL CONTAINMANTS, AND MATERIAL TOXIC TO PLANT GROWTH, AND SHALL MEET THE FOLLOWING STANDARDS:
- c) THE ORGANIC CONTENT SHALL BE 80-100% OF DRY WEIGHT.
 b) PARTICLE SIZE BY WEIGHT SHALL BE 100% PASSING A 6" SCREEN, AND 70-85% PASSING A 0.75" SCREEN.
 O'THE ORGANIC PORTION SHALL BE FIBRIOUS AND ELONGATED.
 d) LARGE PORTIONS OF SELTS, CLAYS, OR FINE SANDS SHALL NOT BE INCLUDED IN THE MIXTURE.

- e) SOLUBLE SALTS CONTENT SHALL BE >4.0mmhos/cm.
 f) THE PH SHALL BE BETWEEN 5.0 AND 8.0.
- ORGANIC FILTER BERMS, SHALL BE INSTALLED ALONG A RELATIVELY LEVEL CONTOUR. IT MAY BE NECESSARY TO CUT TALL GRASSES OR WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES THAT WOULD ENABLE FIRST TO WASH UNDER THE BERM.
- 4. ON SLOPES LESS THAN 6% OR AT THE BOTTOM OF SLOPES STEEPER THAN 3:1, UP TO 20' LONG, THE BERM SHALL BE A MINIMUM OF 12" HIGH (AS MEASURED ON THE UPHILL SIDE), AND A MINIMUM OF 30" WIDE. ON LONGER OR STEEPER SLOPES, THE BERM SHALL BE WIDER TO ACCOMMODATE THE POTENTIAL ADDITIONAL RUNOFF.
- FROZEN GROUND, OUTCROPS OF BEDROCK, AND VERY ROOTED FORESTED AREAS PRESENT THE MOST PRACTICAL AND EFFECTIVE LOCATIONS FOR ORGANIC FILTER BESNIS. OTHER BIRT'S SHOULD BE USED AT LOW POINTS OF CONCENTRATED RUNDET, BELOW CULVER'T OUTET APRONS, AROUND CATCH BASENS, AND AT THE BOTTOM OF STEEP PERMETER SLOPES THAT HAVE A LARGE CONTIBILITIES AREA.
- 6, SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT HAS ACCUMULATED TO ONE HALF THE ORIGINAL HEIGHT OF THE STRUCTURE.
- 7. STRUCTURES MAY BE LEFT IN PLACE ONCE THE SITE IS STABILIZED.



SEEDING SPECIFICATIONS

- ORADING 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.

SEEDBED PREPARATION

 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 NICHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND PUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDIED AND FERTILIZER AND LIME MIXED INTO THE SOIL THE SECREDED SHOULD BE LETT IN A REASONABLY FRAM. AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

3. <u>Establishing a Stand.</u>

A. Lime and fertilizer should be applied prior to or at the time of seeding and incorporated into the soll 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.
(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 SOLL OR LESS, BY CULTIPACKING OR RANKING.
- .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.
 REFER TO THE "SEEDING GUIDE" AND "SEEDING RATES" TABLES ON THIS SHEET FOR APPROPRIATE SEED
 MIXTURES AND RATES OF SEEDING, ALL LEGUMES (CROWN/VETCH, BIRDSFOOT, TREFOIL AND FLATPEA)
 MUST BE INCOLLATED WITH THEIR SPECIFIC INCOLLANT PRIOR TO THEIR INTRODUCTION TO THE SITE.
 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.

- 4. MUICH
 A. HAY, STRAW, OR OTHER MUICH, WHEN NEEDED, SHOULD BE APPLIED MAMEDIATELY AFTER SEEDING.
 B. MUICH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE
 FOR MUICHING, HAY OR STRAW MUICH SHALL BE PLACED AT A RATE OF 90 LBS PER 1000 S.F.
- MAINTENANCE TO ESTABLISH A STAND.
 A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED.
- PRINTED AREAS SHOULD BE DETERMINED BY ONRITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNALS TAKE 2 TO 3 YEARS TO BECOME FULLY ESTABLISHED.

 IN WATERWAYS, CHANNELS, OR SWALES WHERE UNFORM FLOW CONDITIONS ARE ANTICIPATED, ANNUAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.

	SEEDING MIXTURE 1/	DROUGHTY	WELL	MODERATELY WELL DRAINED	POORLY
STEEP CUTS AND FILLS, BORROW AND DISPOSAL	A B C	FAIR POOR POOR	GOOD GOOD	GOOD FAIR EXCELLENT	FAIR FAIR GOOD
AREAS	D	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENC' SPELWAYS, AND OTHER CHANNELS WITH FLOWING WATER.	Y Å	G000 G00D	EXCELLENT GOOD	GOOD EXCELLENT	FAIR FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES.	A B C	GOOD GOOD	GOOD GOOD EXCELLENT	GOOD FAIR EXCELLENT	FAIR POOR FAIR
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	E	FAIR FAIR	EXCELLENT	EXCELLENT	翌/

GRAVEL PIT, SEE NH-PM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.

1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE BELOW. 2/ POORLY DRAINED SOLS 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 16th, IF PERMANENT SEEDING NOT YET COMPLETE.

SEEDING GUIDE

MIXTURE_	POUNDS PER ACRE	POUNDS PER 1,000 Sq. Ft
A. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
RED TOP	2	0.05
TOTAL	42	0.95
B. TALL FESCUE CREEPING RED FESCUE CROWN VETCH OR	15 10 15	0.35 0.26 0.35
FLAT PEA	30	0.75
TOTAL	40 OR 55	0.95 OR 1.35
C. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
BIRDS FOOT TREFOIL	8	0.20
TOTAL	48	1.10
D. TALL FESCUE	20	0.45
FLAT PEA	30	0.75
TOTAL	50	1.20
E. CREEPING RED FESCUE 1/	50	1.16
KENTUCKY BLUEGRASS 1/	50	1.15
TOTAL	100	2.30
F. TALL FESCUE 1	150	3.60

SEEDING RATES

-	50' MRIMUM	E0STING PAVEME
NEXISTING GROUND	6" MIN.	MOUNTABLE BERM (OPTIO
WOVEN GEOTEXTILE FILTER FABRIC	PROFILE	ΛT
**********	50' MINIMUM	/
	74	EXISTI
(25/25/25/2		PAVEME
	PLAN VIEW	Ď
		T makes

- MED STONE, OR

- RECYCLED CONGRETE EQUIVALENT.

 2. THE LENGTH OF THE SYMBLIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.

 3. THICKNESS OF THE SYMBLE FOR THE STABBLIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.

 4. THE WOOTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE PULL WOTH OF THE ENTRANCE WHERE INGRESS OR EGNESS OCCURS, OR OF FEET, WHICKNESS IS SENTENCED FOR THE ENTRANCE SHALL BE PLACED OVER THE ENTRE AFREA PRIOR TO PLACING THE STONE. FLUTE FRANCE SHALL BE PLACED OVER THE ENTRE AFREA PRIOR TO PLACING THE STONE. FLUTE FRANCE SHALL BE PLACED OVER THE ENTRE AFREA PRIOR TO PLACING THE STONE.

 5. ALEXANDER OF THE ENTRANCE OF A SHALE PARAILY RESIDENTIAL LOT CONSTRUCTION ENTRACHED SHALL BE REPORTED BY VEHICLES HAVE BE SUBSTRITTED FOR THE PIPE.

 7. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT—OF—WAY, THIS PLAY 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 PROMPILY.

STABILIZED CONSTRUCTION ENTRANCE

- 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 INDIES 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.
- WETLAND BOUNDARIES ARE TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION. AT LEAST A TEMPORARY CULVERT OF ROADBED TO BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.
- 3. CUT AND REMOVE TREES IN CONSTRUCTION AREA AS REQUIRED OR DIRECTED.
- 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.
- 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.
- 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.
- 8. PERFORM PRELIMINARY SITE GRADING IN ACCORDANCE WITH THE PLANS, INCLUDING THE CONSTRUCTION OF ANY RETAINING WALLS AND SOUND WALLS.
- 9. PREPARE BUILDING PAD(S) TO ENABLE BUILDING CONSTRUCTION TO BEGIN.
- 10. 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.
- 11. INSTALL INLET PROTECTION AT ALL CATCH BASINS AS THEY ARE CONSTRUCTED IN ACCORDANCE WITH DETAILS.
- 12. ALL SWALES AND DRAINAGE STRUCTURES ARE TO BE CONSTRUCTED AND STABILIZED PRIOR TO HAVING RUN-OFF DIRECTED TO THEM.
- DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE DITCHES, CHECK DAMS, SEDIMENT TRAPS, ETC., TO PREVENT EROSION ON THE SITE AND PREVENT. ANY SILITATION OF ABUITING WATERS AND/OR PROPERTY.
- 15. PAVE ALL PARKING LOTS AND ROADWAYS WITH INITIAL BASE COURSE'.
- 16. PERFORM ALL REMAINING SITE CONSTRUCTION (Le. BUILDING, CURBING, UTILITY CONNECTIONS, ETC.).
- LOAM AND SEED ALL DISTURBED AREAS AND INSTALL ANY REQUIRED SEDIMENT AND EROSION CONTROL FACILITIES (i.e. RIP RAP, EROSION CONTROL BLANKETS, ETC.).
- 18. FINISH PAVING ALL ROADWAYS AND PARKING AREAS WITH 'FINISH' COURSE.
- 19. ALL ROADWAYS AND PARKING LOTS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 20. ALL CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 21. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 22. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE BEEN 78%-85% ESTABLISHED AND SITE IMPROVEMENTS ARE COMPLETE. SMOOTH AND RE-VEGETATE ALL DISTURBED AREAS.
- 23. CLEAN SITE AND ALL DRAINAGE STRUCTURES, PIPES AND SUMPS OF ALL SILT AND DEBRIS
- 24. INSTALL ALL PAINTED PAVEMENT MARKINGS AND SIGNAGE PER THE PLANS AND DETAILS.
- 25. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.
- 26. 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.

DRAWING No.

Plan Name: EROSION AND SEDIMENT CONTROL DETAILS BRECKENRIDGE ESTATES SUBDIVISION Project: SPEARE ROAD, HUDSON, NH 03051 DOUGLAS S. SANDERSON Owner of Record: 11 NERSESIAN WAY, HAMPTON, NH 03842

SHEET 19 OF 16 JBE PROJECT NO. 1503

Design: JAC Draft: PSL L Checked: JAC Scale: AS NOTED F Drawing Name: 15031-PLAN SET.dwg T Date: 7/10/15 AS NOTED Project No.: 15031 PERMISSION FROM JONES & BEACH ENGINEERS, INC. (JBE). ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE

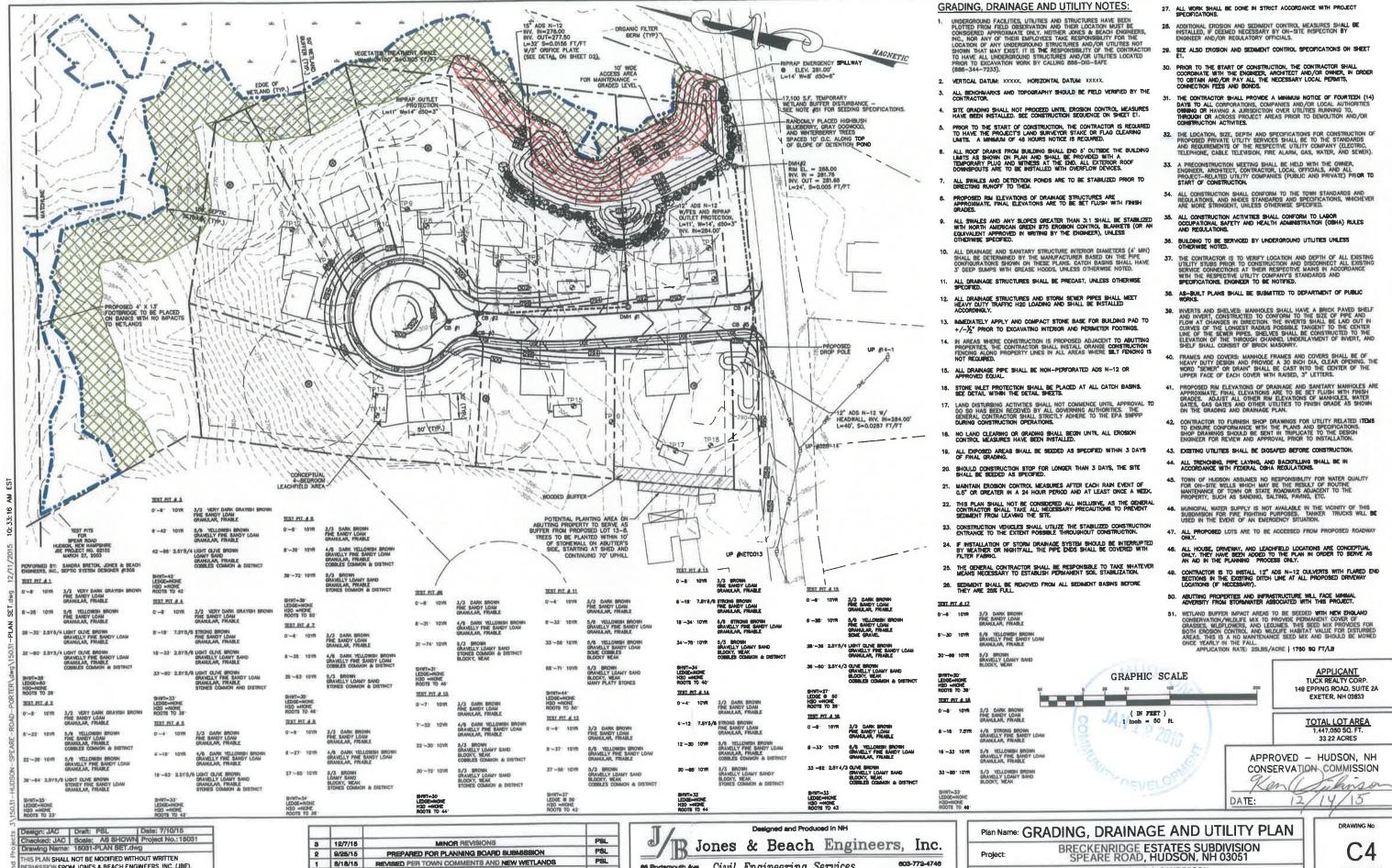
AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO JBE.



12/18/15 REVISED PER CONSERVATION COMMISSION COMMENTS PSL 3 12/7/15 MINOR REVISIONS PSL 2 9/25/15 PREPARED FOR PLANNING BOARD SUBMISSION PSL 1 8/18/15 REVISED PER TOWN COMMENTS AND NEW WETLANDS PSL 0 7/10/15 ISSUED FOR REVIEW BY

Jones & Beach Engineers, Inc. 85 Portsmouth Ave. Civil Engineering Services FAX: 603-772-0227 PO Box 219 E-MAIL: JBE@JONESANDBEACH.COM

Designed and Produced in NH



86 Portsmouth Ave.

P8L

Civil Engineering Services

FAX: 603-772-0227

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.

0 7/10/15

REV. DATE

ISSUED FOR REVIEW

DOUGLAS S. SANDERSON 11 NERSESIAN WAY, HAMPTON, NH 03842

SHEET 11 OF 19 JBE PROJECT NO 15031

Packet: 01/27/2016

Review of the Zoning Amendment Warrant Articles for the 2016 March Town Meeting

Staff Report 27 January 2016

Attached, please find a copy of the 2016 Town Meeting Warrant, as you can see, Articles 2 through 5 pertain to the recent Zoning Amendments approved for this Warrant. The remaining Articles pertain to matters of Town governance.

XVI. OTHER BUSINESS

- B. Discussion on the Zoning Ordinance Review Committee's (ZORC) Efforts-to-Date on Updating the Town's Zoning Ordinance.
- C. Review of the Updated Planning Board Land Use Regulations.

In regard to the above 2 agenda items, under XVI. OTHER BUSINESS, at the meeting staff will give a verbal update on each. That is, rather than a written staff Report provided herewith.

2016 Town Meeting Warrant Hudson, New Hampshire

To the inhabitants of the Town of Hudson, in the County of Hillsborough, State of New Hampshire, qualified to vote in town affairs. You are hereby notified to meet at the Hudson Community Center, 12 Lions Avenue, commencing at 9:00 a.m. on Saturday, February 6, 2016 for the transaction of all business, other than voting by official ballot. This first session of the Annual Town Meeting shall consist of explanation, discussion and debate of each warrant article. Warrant articles may be amended at the first session, subject to the restrictions set forth in NH RSA 40:13, IV.

You are hereby further notified that the second session of the Annual Meeting shall be held at Hudson Community Center, 12 Lions Avenue, between the hours of 7:00 a.m. and 8:00 p.m. on Tuesday, March 8, 2016, to elect Town officers and to vote by official ballot on all articles set forth in this Warrant, as may be amended by act of the first session meeting.

Election of Town Officers

Article 1 To choose all necessary Town Officers for the coming year.

Article 2 Are you in favor of the adoption of Amendment No. 1 as proposed by the Planning Board for the Town Zoning Ordinance as follows?

Amend the Official Zoning Map of the Town of Hudson by re-zoning from Industrial (I) to Business (B) the parcel of land located on the southerly border of Elm Avenue shown on the Town Assessor's Maps as identification number 156-063-000, together with a portion of the adjacent section of Elm Avenue, the resulting zoning line to run along the centerline of Elm Avenue, with the I District being to the north of the centerline and the B District being to the south of the centerline. (Approved by the Planning Board by a vote of 4-0-0)

Article 3 Are you in favor of the adoption of Amendment No. 2 as proposed by the Planning Board for the Town Zoning Ordinance as follows?

Amend the Official Zoning Map of the Town of Hudson by re-zoning from Business (B) to Town Residential (TR) the following parcels of land, which are located along the west border of Webster Street between Federal Street to the north and Daw Street to the south, with the following identification numbers on the Town Assessor's Maps: 165-001-000 thru 165-006-000, 165-037-000 thru 165-042-000, 173-007-000 through 173-010-000, and 173-024-000. (Approved by the Planning Board by a vote of 3-1-0)

Article 4 Are you in favor of the adoption of Amendment No. 3 as proposed by the Planning Board for the Town Zoning Ordinance as follows?

Amend Article IV, Establishment of Districts, § 334-18, subsections (F) and (G), to clarify that the General (G) and General-One (G-1) Districts do not include areas specifically zoned Town Residence (TR). (Approved by the Planning Board by a vote of 4-0-0)

Article 5

Are you in favor of the adoption of Amendment No. 4 as proposed by the Planning Board for the Town Zoning Ordinance as follows?

Amend Article III, General Regulations, §334-14, to permit a maximum allowed habitable building height of 50 feet for warehouses and distribution facilities in the Sagamore Industrial Park located in the Industrial (I) District. (Approved by the Planning Board by a vote of 5-1-0)

Selectmen's Articles

Article 6

Construction of a New Fire Station

Shall the Town of Hudson vote to raise and appropriate the sum of \$2,206,300 for the design and construction of a new fire station on Town-owned land located on Lowell Road, and authorize the issuance of \$2,206,300 of bonds or notes in accordance with the provisions of Municipal Finance Act (RSA Chapter 33), and authorize the Board of Selectmen to issue and negotiate such bonds or notes and to determine the rate of interest thereon, and further raise and appropriate the sum of \$75,158 for the purpose of paying 2016-2017 bond issuance cost and interest on said general obligation bonds or notes? (3/5 ballot vote required) (This appropriation is in addition to Article 7, the Operating Budget.) (Recommended by the Board of Selectmen 5 - 0) (Recommended by the Budget Committee 10 - 0)

Article 7

General Fund Operating Budget

Shall the Town of Hudson raise and appropriate as an operating budget, not including appropriations by special warrant articles and other appropriations voted separately, the amounts set forth on the budget posted with the warrant or as amended by vote of the first session, for the purposes set forth therein, totaling \$24,384,481? Should this article be defeated, the default budget shall be \$24,178,496, which is the same as last year, with certain adjustments required by previous action of the Town of Hudson or by law; or the governing body may hold one special meeting, in accordance with RSA 40:13, X and XVI, to take up the issue of a revised operating budget only. (Recommended by the Board of Selectmen 4 - 0) (Recommended by the Budget Committee 10 - 0)

Article 8

Sewer Fund Operating Budget

Shall the Town of Hudson raise and appropriate as a Sewer Fund operating budget, not including appropriations by special warrant articles and other appropriations voted separately, the amounts set forth on the budget posted with the warrant or as amended by vote of the first session, for the purposes set forth therein, totaling \$1,501,002? Should this article be defeated, the default budget shall be \$1,504,002, which is the same as last year, with certain adjustments required by previous action of the Town of Hudson or by law; or the governing body may hold one special meeting, in accordance with RSA 40:13, X and XVI, to take up the issue of a revised operating budget only. (Recommended by the Board of Selectmen 4-0) (Recommended by the Budget Committee 10-0)

Article 9

Water Fund Operating Budget

Shall the Town of Hudson raise and appropriate as a Water Fund operating budget, not including appropriations by special warrant articles and other appropriations voted separately, the amounts set forth on the budget posted with the warrant or as amended by vote of the first session, for the purposes set forth therein, totaling \$3,598,441? Should this article be defeated, the default budget shall be \$3,614,763, which is the same as last year, with certain adjustments required by previous action of the Town of Hudson or by

law; or the governing body may hold one special meeting, in accordance with RSA 40:13, X and XVI, to take up the issue of a revised operating budget only. (Recommended by the Board of Selectmen 4-0) (Recommended by the Budget Committee 10-0)

Article 10 Hudson Firefighters, IAFF Local 3154 Wage & Benefit Increases

Shall the Town of Hudson vote to approve the cost items included in the collective bargaining agreement reached between the Town of Hudson Board of Selectmen and the Hudson Firefighters, IAFF Local 3154 which calls for the following increase in salaries and benefits:

Year	Amount
7/1/16 - 6/30/17 7/1/17 - 6/30/18 7/1/18 - 6/30/19	\$74,451

and to raise and appropriate the sum of \$79,829 for the 2016 - 2017 Fiscal Year, said sum representing the additional costs attributable to the increase in salaries and benefits over those paid in the prior Fiscal Year? (This appropriation is in addition to Article 7, the Operating Budget.) (Recommended by the Board of Selectmen 5 - 0) (Recommended by the Budget Committee 9 - 1)

Article 11 Hudson Support Staff, AFSCME Local 1801 Wage & Benefit Increases

Shall the Town of Hudson vote to approve the cost items included in the collective bargaining agreement reached between the Town of Hudson Board of Selectmen and the Town of Hudson Support Staff, AFSCME Local 1801 which calls for the following increase in salaries and benefits:

Year	Amount
7/1/16 - 6/30/17	\$32,562
7/1/17 - 6/30/18	\$32,656
7/1/18 - 6/30/19	\$31,606

and to raise and appropriate the sum of \$32,562 for the 2016 - 2017 Fiscal Year, said sum representing the additional costs attributable to the increase in salaries and benefits over those paid in the prior Fiscal Year? (This appropriation is in addition to Article 7, the Operating Budget.) (Recommended by the Board of Selectmen 5 - 0) (Recommended by the Budget Committee 9 - 1)

Article 12 Hudson Police, Fire and Town Supervisors Association Wage & Benefit Increases

Shall the Town of Hudson vote to approve the cost items included in the collective bargaining agreement reached between the Town of Hudson Board of Selectmen and the Hudson Police, Fire and Town Supervisors Association which calls for the following increase in salaries and benefits:

Year	Amount
7/1/16 - 6/30/17	\$78,662
7/1/17 - 6/30/18	\$73,290
7/1/18 - 6/30/19	\$71,368

and to raise and appropriate the sum of \$78,662 for the 2016 - 2017 Fiscal Year, said sum representing the additional costs attributable to the increase in salaries and benefits over those paid in the prior Fiscal Year? (This appropriation is in addition to Article 7, the Operating Budget.) (Recommended by the Board of Selectmen 5 - 0) (Recommended by the Budget Committee 9 - 1)

Article 13 Wage and Benefit Increase for Town Clerk/Tax Collector

Shall the Town of Hudson vote to raise and appropriate the sum of \$6,035 which represents an increase in wages and benefits for the Town Clerk/Tax Collector? (This appropriation is in addition to Article 7, the Operating Budget.) (Recommended by the Board of Selectmen 4 - 0) (Recommended by the Budget Committee 8 - 2)

Article 14 Hire One Full Time Police Officer

Shall the Town of Hudson vote to raise and appropriate the sum of \$85,343 which represents the cost of wages and benefits necessary to hire one additional full time Police Officer? This officer will be assigned to the Patrol Division and will work directly in the neighborhoods and business community. (This appropriation is in addition to Article 7, the Operating Budget.) (Recommended by the Board of Selectmen 4 - 0) (Recommended by the Budget Committee 10 - 0)

Article 15 Part Time to Full Time – Recreation Department Office Assistant

Shall the Town of Hudson vote to raise and appropriate the sum of \$23,982 which represents the cost of wages and benefits necessary to convert the position of Recreation Department Office Assistant from part time to full time? The Recreation Office Assistant assists in the creation, direction and execution of recreation programs and opportunities for the residents of the Town of Hudson. The Recreation Office Assistant will also support the Senior Services Coordinator and serve as the backup when the Senior Service Coordinator is absent. (This appropriation is in addition to Article 7, the Operating Budget.) (Recommended by the Board of Selectmen 3 - 1) (Recommended by the Budget Committee 9-1)

Article 16 Hiring of Part-time IT Entry-Level Technician

Shall the Town of Hudson vote to raise and appropriate the sum of \$28,073 which represents the cost of wages and payroll taxes, to hire a part time entry level technician to work in the Information Technology Department? (This appropriation is in addition to Article 7, the Operating Budget.) (Recommended by the Board of Selectmen 4-1) (Recommended by the Budget Committee 9-1)

Article 17 Lining of the Central Street Bridge/Culvert

Shall the Town of Hudson vote to raise and appropriate the sum of \$160,000 for the lining and repair of the Central Street Bridge/Culvert located on Central Street over Hadley/First Brook? This bridge/culvert is currently on the New Hampshire Department of Transportation Red List. This is a Special Warrant Article, per RSA 32:3 VI, reflecting an appropriation that will not lapse until the monies are expended or June 30, 2021, whichever is the earliest. (This appropriation is in addition to Article 7, the Operating Budget.) (Recommended by the Board of Selectmen 4-0) (Recommended by the Budget Committee 10-0)

Article 18 Benson Park Utilities

Shall the Town of Hudson vote to raise and appropriate the sum of \$250,000 for the purpose of extending utility services into Benson Park and providing electric, water and sewer utility services to the building known as the Elephant Barn at Benson Park? This is the first phase of a proposed three phase project to provide utility services to Benson Park. This is a Special Warrant Article, per RSA 32:3 VI, reflecting an appropriation that will not lapse until the monies are expended or June 30, 2021, whichever is the earliest. (This appropriation is in addition to Article 7, the Operating Budget.) (Recommended by the Board of Selectmen 5 - 0) (Recommended by the Budget Committee 6-4)

Article 19 Establish Capital Reserve Fund for Water Utility Infrastructure and Capital Equipment Replacement

Shall the Town of Hudson vote to establish a Capital Reserve Fund under the provisions of RSA 35:1 for the purpose of replacing water utility infrastructure and capital equipment, including, but not limited to, wells, pumps, pipes, storage tanks, booster stations and other water utility infrastructure and capital equipment to be known as "Water Utility Replacement Capital Reserve Fund" and to raise and appropriate the sum of \$100,000 to be placed in this fund and to further appoint the Board of Selectmen as agents to expend from this fund? This appropriation will be funded from the 06/30/16 Water Utility Fund Balance. (This appropriation is in addition to Article 9, the Water Utility Operating Budget.) (Recommended by the Board of Selectmen 4 - 0) (Recommended by the Budget Committee 10 - 0)

Article 20 Funding for Capital Reserve Funds from Unassigned Fund Balance

Shall the Town of Hudson vote to raise and appropriate the sum of \$285,000 of which \$95,000 will be added to the Communications Equipment and Infrastructure Capital Reserve Fund previously established, \$95,000 will be added to the Recreation Field Construction Capital Reserve Fund previously established, and \$95,000 will be added to Major Repairs to Town Buildings Capital Reserve Fund previously established? This sum is to come from the June 30, 2015 Unassigned Fund Balance. No amount to be raised from taxation. (This appropriation is in addition to Article 7, the Operating Budget.) (Recommended by the Board of Selectmen 4-0) (Recommended by the Budget Committee 8-2)

GIVEN UNDER OUR HANDS AND SEALS AT SAID HUDSON ON THE JANUARY, 2016.

DAY

OF

A TRUE COPY ATTEST:

E. McGrath, Selectman
dew Luzs I

Patricia Nichols, Selectman