

604



The State of New Hampshire
Department of Environmental Services



Robert R. Scott, Commissioner

October 7, 2019

His Excellency, Governor Christopher T. Sununu
 and The Honorable Council
 State House
 Concord, NH 03301

REQUESTED ACTION

Approve City of Dover's request to perform the following work on Bellamy River in Dover. File # 2019-00636. Impact 70,985 square feet of previously-developed upland tidal buffer zone, dredge and fill 680 square feet of tidal wetland and 13,275 square feet of palustrine forested wetland in order to reconstruct Spur Road in Dover. In addition, temporarily impact 75 square feet of tidal wetland and 1,000 square feet of palustrine forested wetland for construction access and installation. This project will not have significant impact on or adversely affect the values of Bellamy River.

The New Hampshire Department of Environmental Services (NHDES) imposed the following conditions as part of this approval:

1. All work shall be in accordance with plans by Underwood Engineers dated July 30, 2019, as received by the New Hampshire Department of Environmental Services (NHDES) on August 02, 2019.
2. The permittee shall schedule a pre-construction meeting with NHDES Wetlands Bureau staff to occur at least 48 hours prior to the start of any work authorized by this permit to review the conditions of this wetlands permit.
3. The preconstruction meeting shall be held on-site. The meeting shall be attended by the permittee, the professional engineer(s), wetlands scientist(s), environmental consultant(s) and qualified professional(s), and the contractor(s) responsible for performing the work.
4. Not less than 5 state business days prior to starting work authorized by this permit, the permittee shall notify the NHDES Wetlands Bureau (Stefanie.Giallongo@des.nh.gov), and the local conservation commission, in writing, of the date on which work under this permit is expected to start.
5. This permit does not authorize encroachment onto an abutter's property unless, prior to starting work, the permittee has (1) obtained temporary construction easements or other written agreements from the owner of the abutting property, and (2) submitted a copy of each agreement to the NHDES Wetlands Bureau.
6. This permit does not authorize digging, excavation, disturbance or filling within the extents shown as "Temporary Access Areas," except where clearly defined by the shaded and annotated "wetland impact" areas on the approved plan.
7. Prior to construction, offset stakes shall be set temporarily to mark the boundaries of all salt marsh areas adjacent to construction to prevent unintentional encroachment or disturbance.

www.des.nh.gov

29 Hazen Drive • PO Box 95 • Concord, NH 03302-0095

NHDES Main Line: (603) 271-3503 • Subsurface Fax: (603) 271-6683 • Wetlands Fax: (603) 271-6588

TDD Access: Relay NH 1 (800) 735-2964

8. Native material removed from the streambeds and mudflat areas shall be stockpiled separately and reused to restore impact areas within the channels, between wing walls, and beyond. Any new materials used must be similar to the natural substrate and shall not include any angular rock.
9. All development activities associated with this project shall be conducted in compliance with applicable requirements of RSA 483-B and NH Administrative Rules Env-Wq 1400 during and after construction.
10. All in-stream work shall be conducted in dry conditions and in a manner that will not cause or contribute to any violations of surface water quality standards in RSA 485-A or New Hampshire Administrative Rules Env-Wq 1700.
11. Discharge from dewatering of work areas shall be to sediment basins that are: a) located in uplands; b) lined with hay bales or other acceptable sediment trapping liners; c) set back as far as possible from wetlands and surface waters, with a preferred undisturbed vegetated buffer of at least 50 feet and a minimum undisturbed vegetative buffer of 20 feet.
12. Dredged materials, whether to be stockpiled or disposed of, shall be dewatered in sedimentation basins lined with siltation and erosion controls, and located outside of wetland areas.
13. Work in tidal wetland areas shall be conducted during low tide only.
14. Work shall be conducted during annual low flow conditions and in the dry only. No excavation shall be done in flowing water. No construction equipment shall be operated in flowing water.
15. Any fill used shall be clean sand, gravel, rock or other suitable material.
16. Prior to construction, all wetland and surface water boundaries adjacent to construction areas shall be clearly marked to prevent unintentional encroachment on adjacent wetlands and surface waters.
17. The channel at the culvert inlet(s) and outlet(s) must maintain or improve the natural hydrology and not impede or accelerate flow.
18. To prevent the introduction or export of invasive plant species to or from the site, the permittee's contractor(s) shall clean all soils and vegetation from equipment and timber matting before it is moved to and from the site.
19. Work authorized shall be carried out such that there are no discharges in or to spawning or nursery areas during spawning seasons. Impacts to such areas shall be avoided or minimized to the maximum extent practicable during all other times of the year.
20. Within three days of final grading or temporary suspension of work in an area that is in or adjacent to wetlands or surface waters, all exposed soil areas shall be stabilized by seeding and mulching during the growing season, or if not within the growing season, by mulching with tackifiers on slopes less than 3:1 or netting and pinning on slopes steeper than 3:1.
21. Where construction activities occur between November 30 and May 1, all exposed soil areas shall be stabilized within 1 day of establishing the grade that is final or that otherwise will exist for more than 5 days. Stabilization shall include placing 3-inches of base course gravels, or loaming and mulching with tack or netting and pinning on slopes steeper than 3:1.
22. Appropriate siltation and erosion controls shall be in place prior to construction, shall be maintained during construction, and remain until the area is stabilized. Silt fence(s) must be removed once the area is stabilized.
23. Appropriate turbidity controls shall be installed prior to construction, shall be maintained during construction such that no turbidity escapes the immediate work area, and shall remain until suspended particles have settled and the water at the work site has returned to normal clarity.

24. The contractor responsible for completion of the work shall utilize techniques described in the NH Stormwater Manual, Volume 3, Erosion and Sediment Controls During Construction (December 2008).
25. Construction equipment shall be inspected daily for leaking fuel, oil and hydraulic fluid. Faulty equipment shall be repaired prior to construction. The contractor shall have appropriate oil spill kits on site and readily accessible at all times during construction and each operator shall be trained in its use.
26. All refueling of equipment shall occur outside of surface waters or wetlands during construction.
27. A certified wetland scientist or qualified professional shall monitor the project during construction and be on-site during restoration of impact areas to ensure that the work is conducted in accordance with the approved plans.
28. The permittee shall notify the NHDES Wetlands Bureau, in writing, of the certified wetland scientist or qualified professional retained. The permittee shall re-notify the NHDES Wetlands Bureau if the identity of the qualified professional changes during the project.
29. The qualified professional shall inspect the construction areas and submit a monitoring report to the NHDES Wetlands Bureau after any rain event of 1/2 inch or greater, within a 24-hour period, during construction.
30. Wet weather monitoring report(s) shall be submitted within 1 week of the rain event and shall include, but not be limited to, documentation of erosion control deployment, status of construction activities, sequence at time of monitoring, remedies enacted to correct deficiencies in water quality protection measures.
31. A follow-up report including photographs of all stages of construction shall be submitted to the NHDES Wetlands Bureau within 60 days of final site stabilization.
32. The certified wetlands scientist or qualified professional monitoring the project shall submit annual reports by January 30th following each of two full growing seasons, post-construction, to the NHDES Wetlands Bureau.
33. The permittee or permittee's contractor shall properly construct and monitor the restoration of impact areas, and shall take such remedial actions as may be necessary to restore areas to pre-existing function and condition.
34. Remedial measures may include replanting, removal of invasive species, adjusting material gradation or depth, deconsolidation of soils caused by compaction, adjusting the elevation of the surface, adjusting the stream channel geometry, profile or hydraulic regime.

EXPLANATION

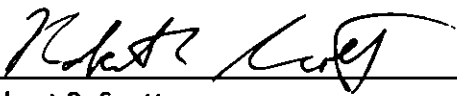
The NHDES approved this project on September 03, 2019. The NHDES supported its decision with the following findings:

1. This is a Major Project per New Hampshire Administrative Rule Env-Wt 303.02(a), projects in tidal wetlands.
2. The applicant has provided evidence which demonstrates that this proposal is the alternative with the least adverse impact to areas and environments under the department's jurisdiction per New Hampshire Administrative Rule Env-Wt 302.03.
3. The existing road is failing due to insufficient base material and poor drainage conditions. This project will improve and preserve open drainage and stabilize existing areas that are actively eroding.

4. The applicant has demonstrated by plan and example that each factor listed in New Hampshire Administrative Rule Env-Wt 302.04(a) Requirements for Application Evaluation, has been considered in the design of the project.
5. The project includes repair or replacement of 14 (out of 22) existing tier 1 stream crossings with no histories of flooding. In accordance with New Hampshire Administrative Rule Env-Wt 904.06 and 904.07, each repair or replacement will meet the general criteria specified in New Hampshire Administrative Rule Env-Wt 904.01 and neither diminish the hydraulic capacity of the crossing nor diminish the capacity of the crossing to accommodate aquatic organism passage.
6. In correspondence dated March 15, 2019, the Dover Conservation Commission expressed support of the project.
7. The Natural Heritage Bureau (NHB) report submitted with the application package (NHB18-1635) indicates the presence of threatened and endangered plant species, plus the presence of exemplary natural communities, located within the vicinity of the project.
8. In correspondence dated January 04, 2019, the NHB stated that, based on the nature and limitation of the impacts, there are no further concerns about this project.
9. Signed authorization has been obtained from abutting property owners on whose property the project will directly impact. This permit is conditioned upon obtaining temporary construction easements or other written agreements from the owner(s) of additional abutting properties if work will encroach outside of the established right of way.
10. In correspondence dated August 02, 2019, the applicant's agent stated that where areas were originally proposed for "Restoration and Grading," those have been revised to be "Temporary Access Areas" (as depicted on the approved plan set) and are only intended to define the extent to which the contractor may enter onto those properties. These areas will not be dug, excavated, deposited within or disturbed by the project.
11. No comments of concern were received by the NHDES from abutters or local governing organizations.
12. In accordance with New Hampshire Administrative Rule Env-Wt 302.03(c)(2)c., compensatory mitigation is not required.
13. In accordance with RSA 428-A:8, the NHDES finds that the requirements for a public hearing do not apply as the permitted project is not of substantial public interest, and will not have a significant impact on or adversely affect the values of the riverine resource, as identified under RSA 482-A:1.

Application file documents are being forwarded to the Governor and the Executive Council in connection with their consideration of this matter pursuant to RSA 482-A:3,II.(a) as it is a major project in public waters of the state.

We respectfully request your approval of this item.



Robert R. Scott
Commissioner



WETLANDS PERMIT APPLICATION

Water Division/ Wetlands Bureau

Land Resources Management

Check the status of your application: www.des.nh.gov/onestop



RSA/Rule RSA 482-A/ Env Wt 100-900

COMPLETE

<p>RECEIVED</p> <p>FEB 22 2019</p> <p>ADMINISTRATIVE SERVICES</p> <p>LAND RESOURCES MANAGEMENT</p>	<p>RECEIVED</p> <p>FEB 22 2019</p> <p>ADMINISTRATIVE SERVICES</p> <p>Only</p>	<p>RECEIVED</p> <p>FEB 22 2019</p> <p>ADMINISTRATIVE SERVICES</p> <p>Only</p>	<p>File No: 2019-00636</p> <p>Check No: 0337686</p> <p>Amount: \$77,919.00</p> <p>Initials: JSL</p>
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1. REVIEW TIME: Indicate your review time below. To determine review time refer to Guidance Document A for instructions.

- Standard Review (Minimum, Minor or Major Impact) Expedited Review (Minimum Impact only)

2. MITIGATION REQUIREMENT:

If mitigation is required, a Mitigation Pre-Application meeting must occur prior to submitting this Wetlands Permit Application. To determine if mitigation is required, please refer to the Determine if Mitigation is Required Frequently Asked Questions.

Mitigation Pre-Application Meeting Date: Month: ___ Day: ___ Year: ___

- N/A - Mitigation is not required

3. PROJECT LOCATION:

Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.

ADDRESS: Finch Lane & Spur Road TOWN/CITY: Dover

TAX MAP: L-1, L-2, M-2, M-4 BLOCK: LOT: UNIT:

USGS TOPO MAP WATERBODY NAME: Bellamy River NA STREAM WATERSHED SIZE: 32.45 sq. mi. NA

LOCATION COORDINATES (if known): 43.148°, 70.844° Latitude/Longitude UTM State Plane

4. PROJECT DESCRIPTION:

Provide a brief description of the project outlining the scope of work. Attach additional sheets as needed to provide a detailed explanation of your project. DO NOT reply "See Attached" in the space provided below.

The proposed work involves road reconstruction and culvert replacements on Spur Road. New development is not proposed. Several areas along the road experience standing water for extended periods throughout the year and a number of drainage culverts are in poor condition or failure. (description continued in attached narrative)

5. SHORELINE FRONTAGE:

- N/A This does not have shoreline frontage. SHORELINE FRONTAGE:

Shoreline Frontage is calculated by determining the average of the distances of the actual natural navigable shoreline frontage and a straight line drawn between the property lines, both of which are measured at the normal high water line (Env-Wt 101.89).

6. RELATED NHDES LAND RESOURCES MANAGEMENT PERMIT APPLICATIONS ASSOCIATED WITH THIS PROJECT:

Please indicate if any of the following permit applications are required and if required, the status of the application. To determine if other Land Resources Management Permits are required, refer to the Land Resources Management Webpage.

Permit Type	Permit Required	File Number	Permit Application Status
Alteration of Terrain Permit Per RSA 485-A:17	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	---	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Individual Sewerage Disposal per RSA 485-A:2	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	---	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Subdivision Approval Per RSA 485-A	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	---	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Shoreland Permit Per RSA 483-B	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	---	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED

7. NATURAL HERITAGE BUREAU & DESIGNATED RIVERS:

See the Instructions & Required Attachments document for instructions to complete a & b below.

a. Natural Heritage Bureau File ID: NHB 18 - 1635

b. This project is within a Designated River corridor. The project is within 1/4 mile of: _____; and date a copy of the application was sent to the Local River Management Advisory Committee: Month: ___ Day: ___ Year: ___

N/A - This project is not within a Designated River corridor.

8. APPLICANT INFORMATION (Desired permit holder)

LAST NAME, FIRST NAME, M.I.: White, David - City Engineer			
TRUST / COMPANY NAME: City of Dover		MAILING ADDRESS: 271 Mast Road	
TOWN/CITY: Dover		STATE: NH	ZIP CODE: 03820
EMAIL or FAX: d.white@doover.nh.gov		PHONE: (603) 516-6450	

ELECTRONIC COMMUNICATION: By initialing here: *DW* I hereby authorize NHDES to communicate all matters relative to this application electronically.

9. PROPERTY OWNER INFORMATION (If different than applicant)

LAST NAME, FIRST NAME, M.I.:			
TRUST / COMPANY NAME:		MAILING ADDRESS:	
TOWN/CITY:		STATE:	ZIP CODE:
EMAIL or FAX:		PHONE:	

ELECTRONIC COMMUNICATION: By initialing here _____ I hereby authorize NHDES to communicate all matters relative to this application electronically.

10. AUTHORIZED AGENT INFORMATION

LAST NAME, FIRST NAME, M.I.: Dreyer, Benjamin, T.		COMPANY NAME: Underwood Engineers	
MAILING ADDRESS: 25 Vaughan Mall			
TOWN/CITY: Portsmouth		STATE: NH	ZIP CODE: 03801
EMAIL or FAX: bdreyer@underwoodengineers.com		PHONE: (603) 436-6192	

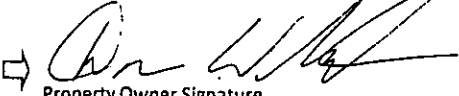
ELECTRONIC COMMUNICATION: By initialing here: *BD* I hereby authorize NHDES to communicate all matters relative to this application electronically.

11. PROPERTY OWNER SIGNATURE

See the Instructions & Required Attachments document for clarification of the below statements.

By signing the application, I am certifying that:

- I authorize the applicant and/or agent indicated on this form to act in my behalf in the processing of this application, and to furnish upon request, supplemental information in support of this permit application.
- I have reviewed and submitted information & attachments outlined in the Instructions and Required Attachment document.
- All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.
- I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type.
- I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative.
- Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47.
- I have submitted a Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to identify the presence of historical/ archeological resources while coordinating with the lead federal agency for National Historic Preservation Act (NHPA) 106 compliance.
- I authorize NHDES and the municipal conservation commission to inspect the site of the proposed project.
- I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate.
- I understand that the willful submission of falsified or misrepresented information to the NHDES is a criminal act, which may result in legal action.
- I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.
- The mailing addresses I have provided are up to date and appropriate for receipt of NHDES correspondence. NHDES will not forward returned

	DAVE WHITE	2/6/19
Property Owner Signature	Print name legibly	Date

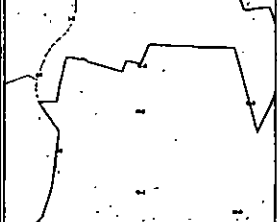
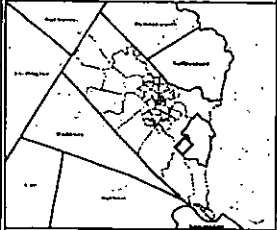
CITY OF DOVER
STAFFORD COUNTY, NH
TAX ASSESSORS MAP



Map Page: M-2



- Parcels
- Parcel on Adjacent Maps
- Buildings
- Rail Road
- Water Body
- Swamp/Marsh
- Streams
- A-28-4-8 Parcel Number
- 8.34AC Parcel Acreage
- 140 Address Number



200 100 0 200
Feet

1:1,200
1" = 100'

This map is for assessment and planning purposes only. It is not intended to be used for navigation, emergency, professional, or other legal purposes, or otherwise. This is not a survey. Users are advised to consult the appropriate authorities for the most current and accurate information. Map Government, Scarborough, Maine 21, 2010



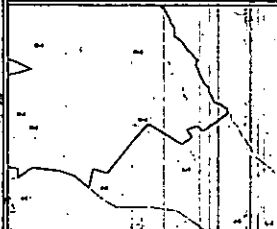
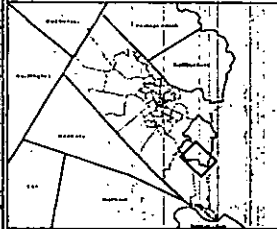
CITY OF DOVER
STAFFORD COUNTY NH
TAX ASSESSORS' MAP



Map Page: M-4



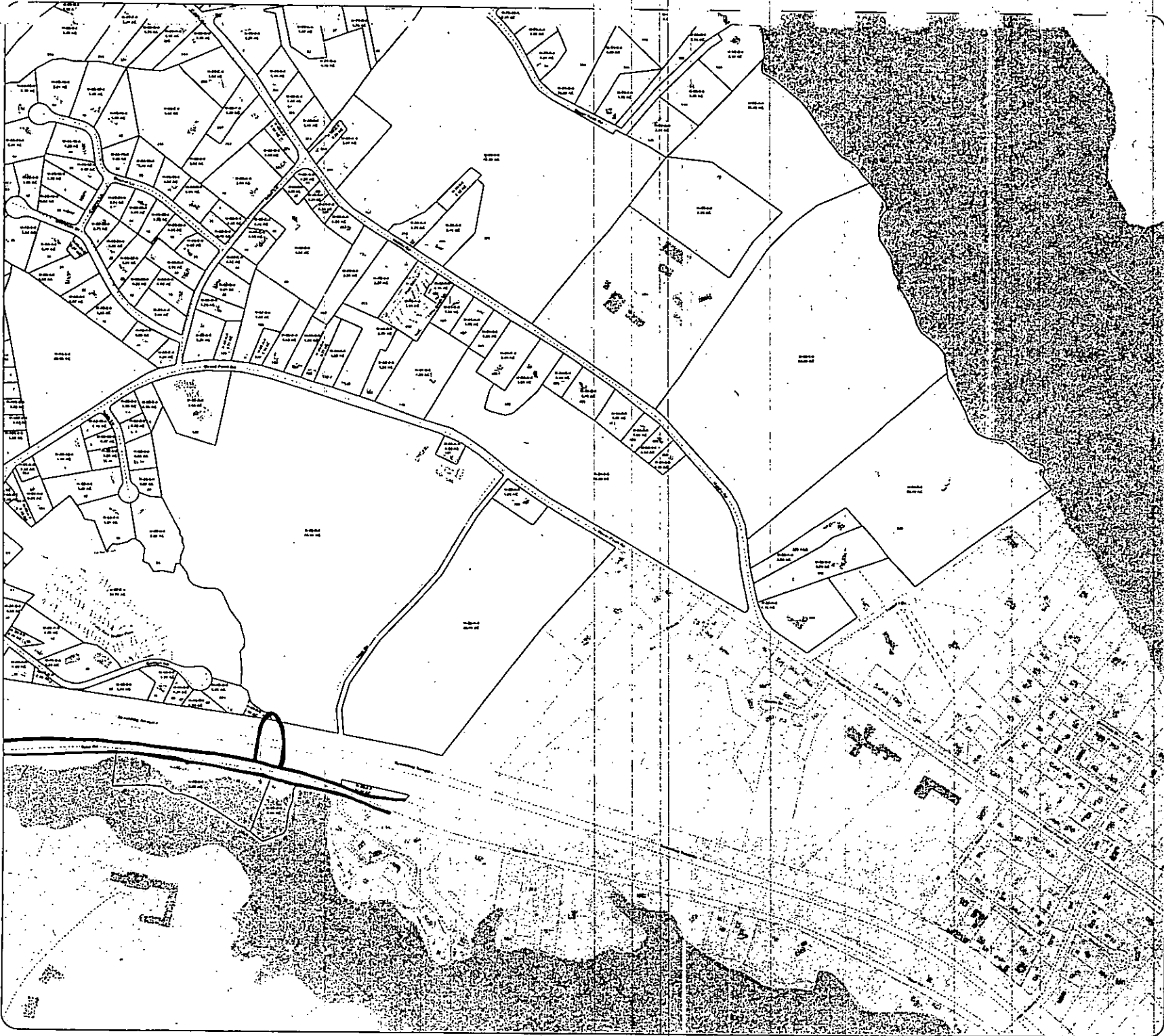
- Parcels
- Parcel on Adjacent Maps
- Buildings
- Rail Road
- Water Body
- Swamp/Marsh
- Streams
- A-19-44 Parcel Number
- 0.24 AC Parcel Acreage
- 148 Address Number



1:2,400
1" = 200'

This map is for assessment and zoning purposes only. It does not constitute a warranty, representation, or guarantee of any kind. The City of Dover is not responsible for any errors or omissions on this map. The information on this map is based on the best available information and is subject to change without notice.

AppGeo



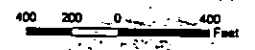
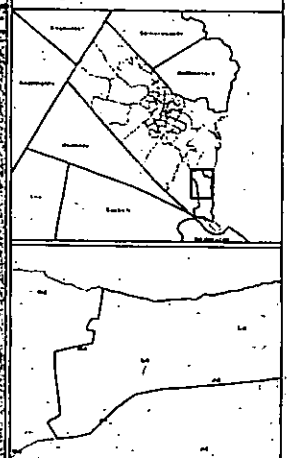
CITY OF DOVER
STAFFORD COUNTY NH
TAX ASSESSORS MAP



Map Page: L-1



- Parcels
- ▨ Parcel on Adjacent Maps
- Buildings
- Rail Road
- Water Body
- Swamp/Marsh
- Streams
- A-388-8 Parcel Number
- 6.21 AC Parcel Acreage
- 100 Address Number

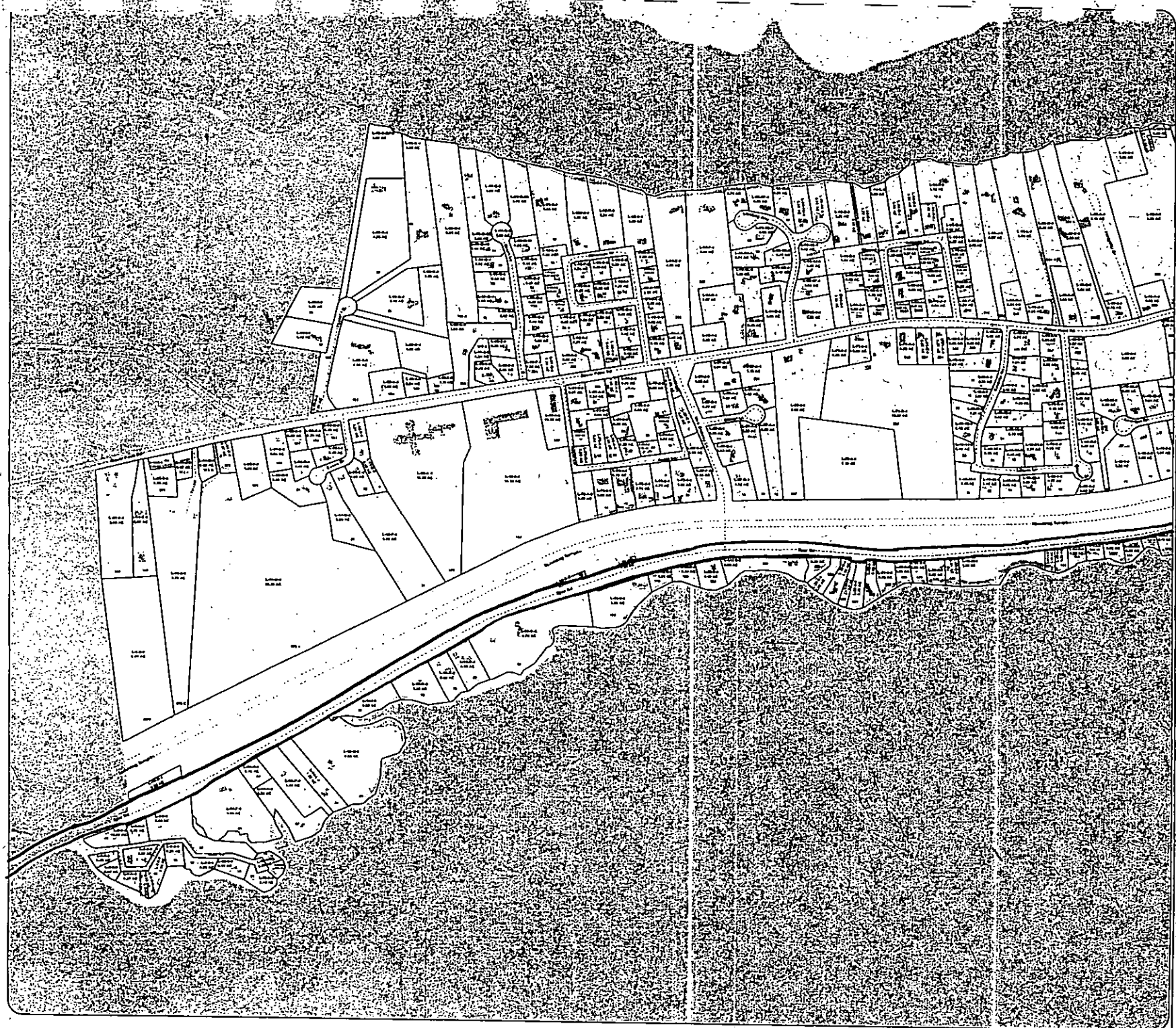


1:2,400
1" = 200'

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Map Generated: Wednesday, March 21, 2018

AppGeo



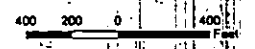
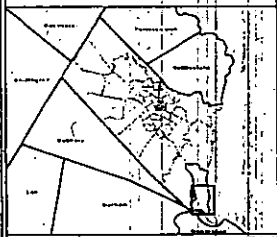
CITY OF DOVER
STAFFORD COUNTY NH
TAX ASSESSORS MAP



Map Page: L-2



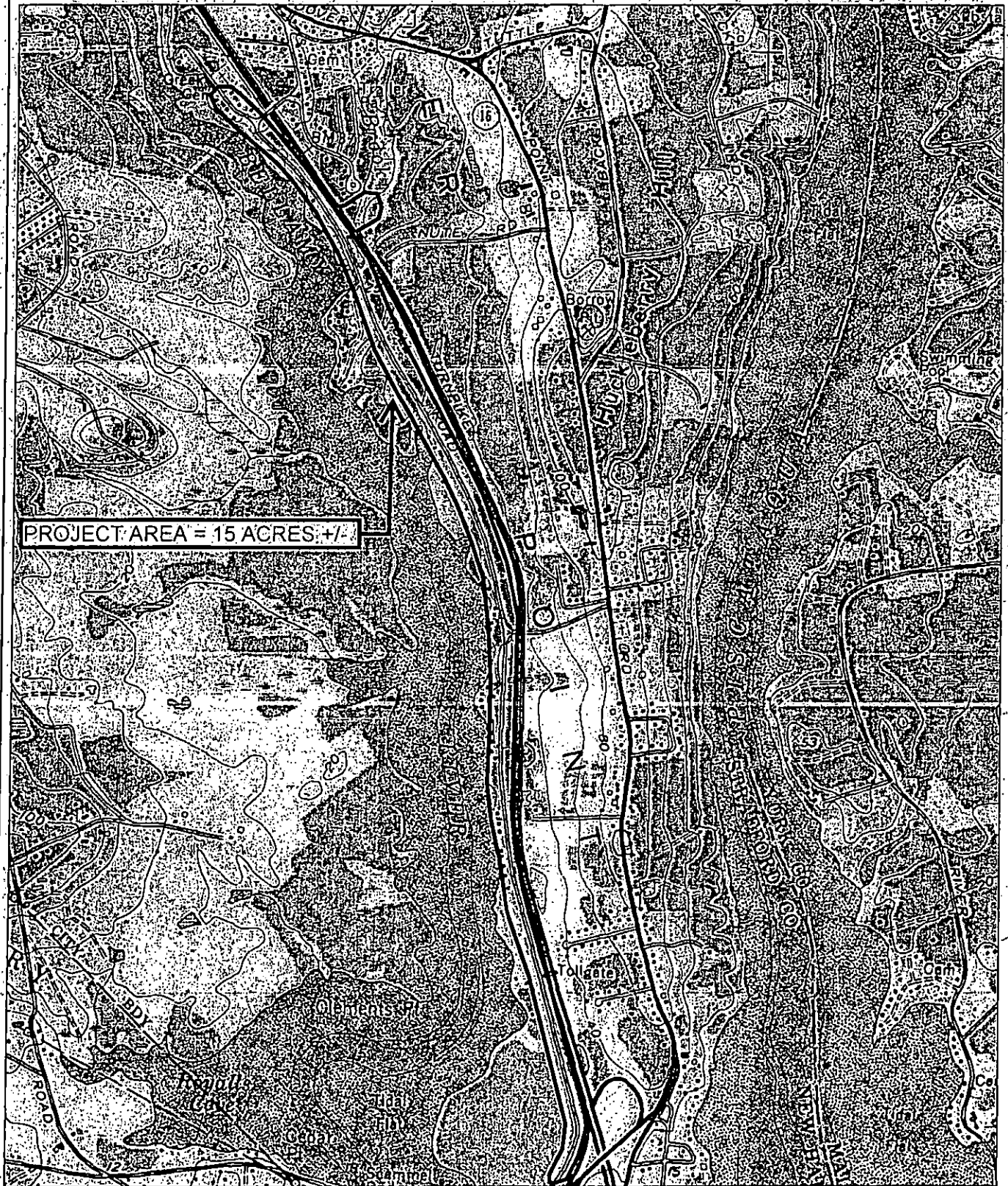
- Parcels
- Parcel on Adjacent Maps
- Buildings
- Rail Road
- Water Body
- Swamp/Marsh
- Streams
- A-38-44 Parcel Number
- 8.34 AC Parcel Acreage
- 100 Address Number



1:2,400
1" = 200'

This map is for assessment and planning purposes only. It is not intended to be used for engineering, construction or any other purpose. The City of Dover and the Assessor's Office are not responsible for any errors or omissions. The Assessor's Office is not responsible for any errors or omissions. The Assessor's Office is not responsible for any errors or omissions.





DATE

1/22/19

PROJECT
2297



25 Vaughan Mall, Portsmouth, N.H. 03801
Tel. 603-436-6192 Fax. 603-431-4733

PROJECT LOCUS MAP
SPUR ROAD RECONSTRUCTION
CITY OF DOVER, NH

FIG.

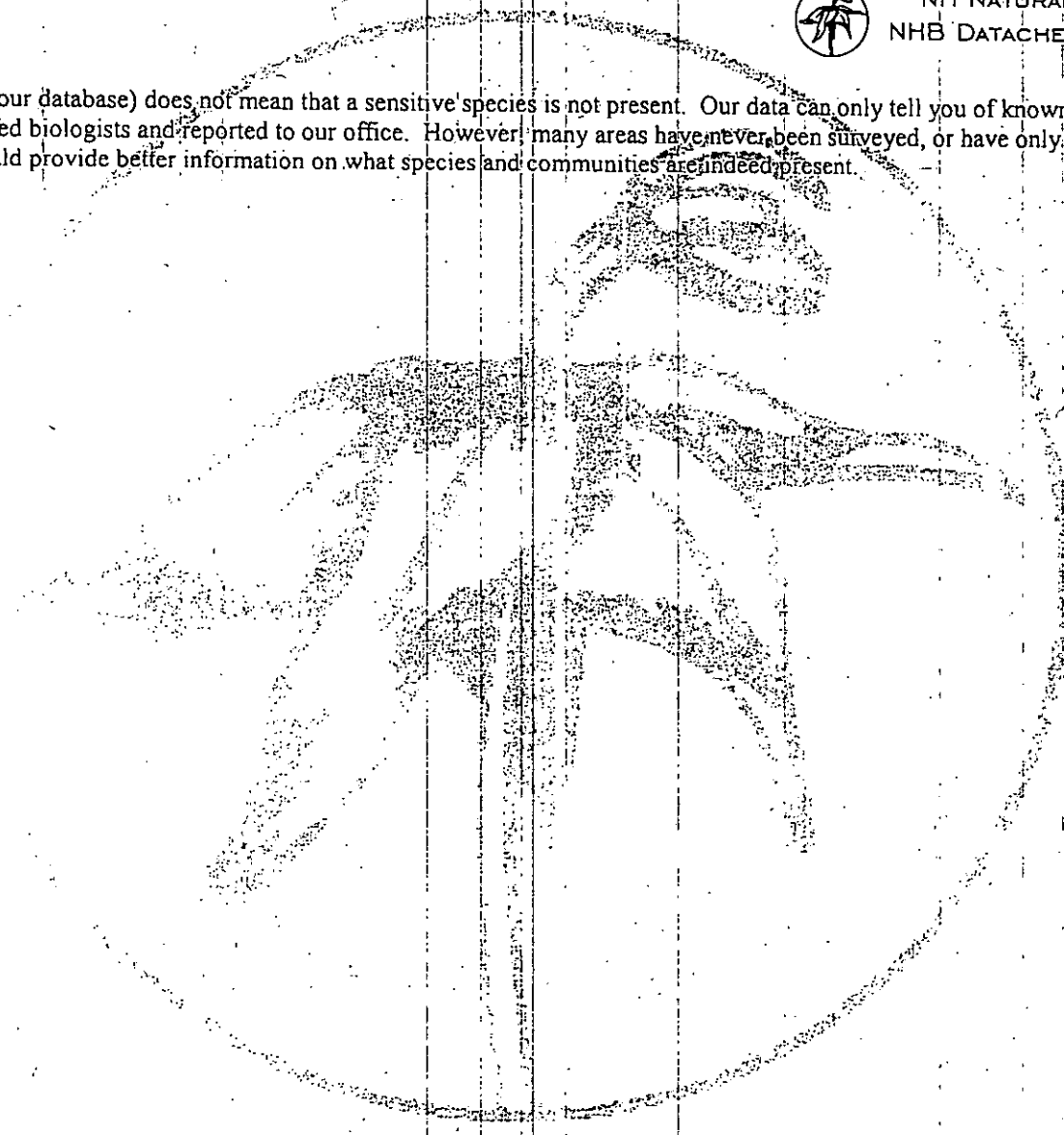
CONFIDENTIAL – NH Dept. of Environmental Services review

Memo



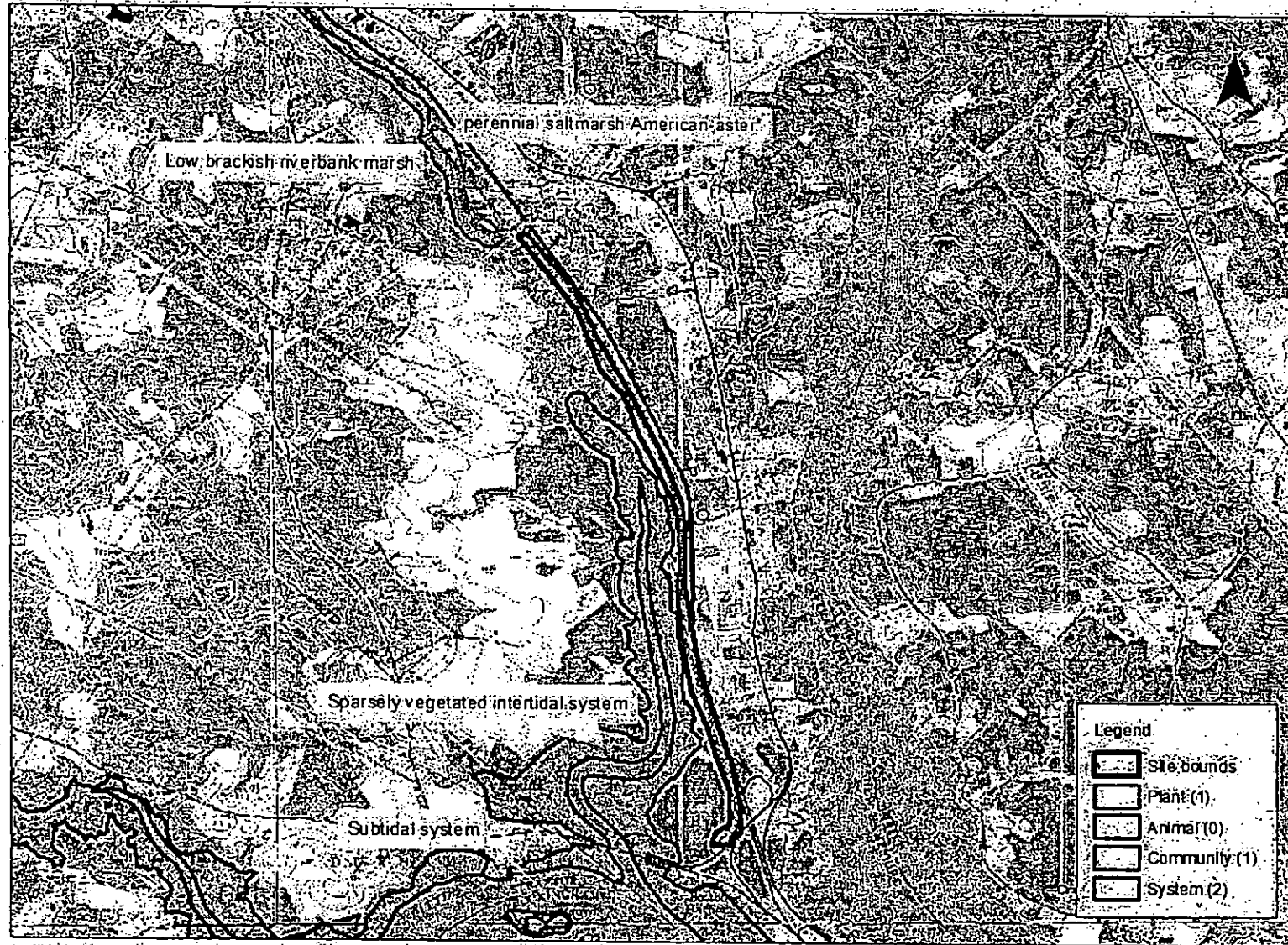
NH NATURAL HERITAGE BUREAU
NHB DATACHECK RESULTS LETTER

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.



CONFIDENTIAL – NH Dept. of Environmental Services review

NHB18-1635



Dover, NH 03820

Property ID: L0005-000000
(7 Nute Road)

Mavrikis Revocable Trust of 2005
George E. & Ann T. Mavrikis Trustees

Property ID: L0006-000000
(9 Nute Road)
Daniel L. Roux

Property ID: L0007-000000
(11 Nute Road)
Patricia K. Kuziomko
Marc Blumenthal

Property ID: L0008-000000
Richard D. & Jacquelyn G. Whitney Trustees
Richard & Jacquelyn Whitney Revocable

Property ID: L0009-000000
Robbie Hewitt

Property ID: L0010-000000
Mark F. & Donna P. Sears Trustees
Donna P. Sears Revocable Trust

Property ID: L0011-000000
(21 Nute Road)
Chandler D. & Gaiissl N. & Carol Estabrook
Dover Realty Irrevocable Trust

Property ID: L0012-000000
Russel E. Charleston
Stephanie Leflem

Property ID: L0013-000000
(25 Nute Road)
Adam R. Fogg
Patricia Nagle

Property ID: L0014-A00000
(55 Spur Road)
David Lemieux

Property ID: L0014-F00000
Dale S. D. Roemer Trustee
Dale S. D. Revocable Trust

Property ID: L0014-H00000
(61 Spur Road)
James L. Loomis

Property ID: L0014-H00001
(Spur Road)
State of New Hampshire

Property ID: L0014-I00000
Franklin M. & Dorothy E. Swisher
Trustees of the Swisher IRR TR

Permission for Work within 20'

Temporary Easement Required
Permission for Work within 20'

Temporary Easement Required
Permission for Work within 20'

Property ID: L0014-K00000
Edward J. & Nora D. Ellis Trustees
Ellis Family Trust of 2013

Property ID: L0014-K00002
Myles S. Bratter
Elizabeth A. Bratter

Property ID: L0014-L00000
Andrew Koellmer
Natalie A. Hoginski

Property ID: L0014-N00000
(53 Spur Road)
D. R. Lemieux Builders Inc.

Property ID: L0014-P00000
(3 Spur Road)
Natalie Koellmer

Property ID: L0015-B0000C
Joanne A. Bloom

Permission for Work within 20'

Property ID: L0015-D00000
Karl R. Leinsing Trust
Leinsing Trust

Property ID: L0021-000000
Janice Reilly Trustee
Spur 103 Realty Trust

Permission for Work within 20'

Property ID: L0022-000000
Tucker Strange

Property ID: L0023-000000
Alice G/ Meatley

Property ID: L0025-000000
Edward T. & Gretchen Clancy Trustees
Riverhome Family Revocable Trust

Property ID: L0028-000000
Michael Shannon
Kathleen Shannon

Temporary Easement Required
Permission for Work within 20'

Property ID: L0029-000000
Peter B. & Ann C. Strachan Trustees
Strachan Family Revocable Trust

Permission for Work within 20'

Property ID: L0030-000000
Terrance W. Hopper
Laura H. Conley

Permission for Work within 20'

Property ID: L0031-000000
Sally M. Evans

Property ID: L0032-000000
Kathleen Therrien
James Therrien

Property ID: L0033-000000

Robert E. & Lisa D. Hall Trustees
Robert E. & Lisa D. Hall Revocable

Permission for Work within 20'

Property ID: L0034-000000

Patrick M. Hourihane
Sarah E. Hourihane

Temporary Easement Required
Permission for Work within 20'

Property ID: L0036-000000

(139 Spur Road)
Gary Boukus
Elizabeth Boukus

Permission for Work within 20'

Property ID: L0037-000000

Andrea M. Wise
Edward B. Wise jr.

Permission for Work within 20'

Property ID: L0038-000000

(143 Spur Road)
Francis & Theresa Cassidy Trustees
Cassidy Family 2007 Revocable Trust

Permission for Work within 20'

Property ID: L0039-000000

Michael Novelli
Jennifer Novelli

Permission for Work within 20'

Property ID: L0040-023000

John E. Maclatchy

Existing Easement
Permission for Work within 20'

Property ID: L0041-000000
Patricia J. Maloney
Norma I. Bell

Existing Easement
Permission for Work within 20'

Property ID: L0042-000000
Richard R. Jermyn Trustee
Jermyn Revocable Trust of 2015

Permission for Work within 20'

Property ID: L0043-000000
Kristen R. Lomastro
John J. Lomastro

Permission for Work within 20'

Property ID: L0043-A00000
(165 Spur Road)
Real Estate Advisors Inc.

Permission for Work within 20'

Property ID: L0044-000000
(167 Spur Road)
Joseph and Joan McLaughlin Trustees
Joseph and Joan McLaughlin Revocable Trust

Permission for Work within 20'

Property ID: L0045-B00000
Frank Biehl
Noleen Biehl

Permission for Work within 20'

Property ID: L0045-C00000
Mildred Scovill Parks Trustee
Mildred Scovill Parks Revocable Trust

Permanent Easement Required
Permission for Work within 20'

Property ID: L0045-D00000

Ashok A. Shah Revocable Trust

Nita A. Shah Revocable Trust

Permission for Work within 20'

Property ID: L0045-E00000

Donald P. Hodgkins jr. & Janet L. Lewis Trustees

DHJL Revocable Trust

Permission for Work within 20'

Property ID: L0045-F00000

Nicolas D. Orsi

Julia H. Orsi

Permanent Easement Required

Permission for Work within 20'

Property ID: L0045-G00000

Michael R. Mottola jr.

Deena J. Mottola

Permission for Work within 20'

Property ID: L0045-H00000

Carl D. Therrien Trustee

Carl D. Therrien Revocable Trust

Permanent Easement Required

Permission for Work within 20'

Property ID: L0046-T00000

Fredrick C. Woodburn jr.

Roberta N. Woodburn

Temporary Easement Required

Permission for Work within 20'

Property ID: L0047-A00000

(193 Spur Road)

Michael T. Turgeon

Kerri A. Turgeon

Permission for Work within 20'

V

Property ID: L0047-B00000
Stepanek F. & Rushmore B. Trustees
Rushmore-Stepanek Real Estate Trust

Permission for Work within 20'

Property ID: L0047-C00000
Michael J. Casimiro
Rebecca A. Casimiro

Permission for Work within 20'

Property ID: L0047-C00001
Douglas A. Locy
Lorraine M. Locy

Permission for Work within 20'

Property ID: L0048-G00000
Eric G. Parker

Permission for Work within 20'

Property ID: L0048-P00000
(199 Spur Road)
Eileen C. Bardwell Trustee
Eileen C. Bardwell Revocable Trust

Permanent Easement Required
Permission for Work within 20'

Property ID: L0048-Q00000
Arthur L. Bettencourt

Permission for Work within 20'

Property ID: L0048-R00000
Gary J. Lindsey
Pamela S. Lindsey

Permission for Work within 20'

Property ID: L0049-A00000
(Blue Heron Drive)

Permission for Work within 20'

✓
Cricklewood On the Bellamy

Property ID: L0050-000000
(Clearwater Drive)
Bellamy River Village LLC

Permission for Work within 20'

Property ID: L0051-000000
(Spur Road)
State of New Hampshire- Fish & Game

Property ID: L0052-000000
(Spur Road)
State of New Hampshire- Department of Public Works

Permission for Work within 20'

Property ID: L0117-000000
(117 Spur Road)
Rosemary M. Seachrist Trustee
Rosemary M. Seachrist Revocable Trust

Temporary and Permanent Easements Required

~~Permission for Work within 20'~~

Property ID: M0013-000000
(Finch Lane)
Greek Cemetery Association

Property ID: M0015-000000
Sherry L. Leaver
Robin Alan Leaver

Permission for Work within 20'

Property ID: M0015-A00000
Ryland P. Kenney

Permission for Work within 20'

✓

Property ID: M0015-B00000
(15 Finch Lane)
William F. Knowles
Susan R. Knowles

Permission for Work within 20'

Property ID: M0015-C00000
G & V Marchisio Trustees
Marchisio Trust

Permission for Work within 20'

Property ID: M0017-000000
Curti Family Trust of 1993
Raymond W. & Norma O. Trustees

Permission for Work within 20'

✓
Property ID: M0017-A00000
(39 Spur Road)
Curti Family Trust of 1993
Raymond W. & Norma O. Trustees

Permission for Work within 20'

Property ID: M0033-A00000
Gerald R. Walsh
Penelope T. Walsh

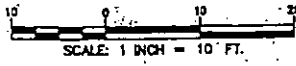
Property ID: M0033-C00000
Douglas E. Gustin Sr.

✓
Property ID: M0040-000000
Kevin P. Coppinger
Karen M. Coppinger

✓

Property ID: M0053-A00000
(Dover Point Road)
Matthew Kozazcki

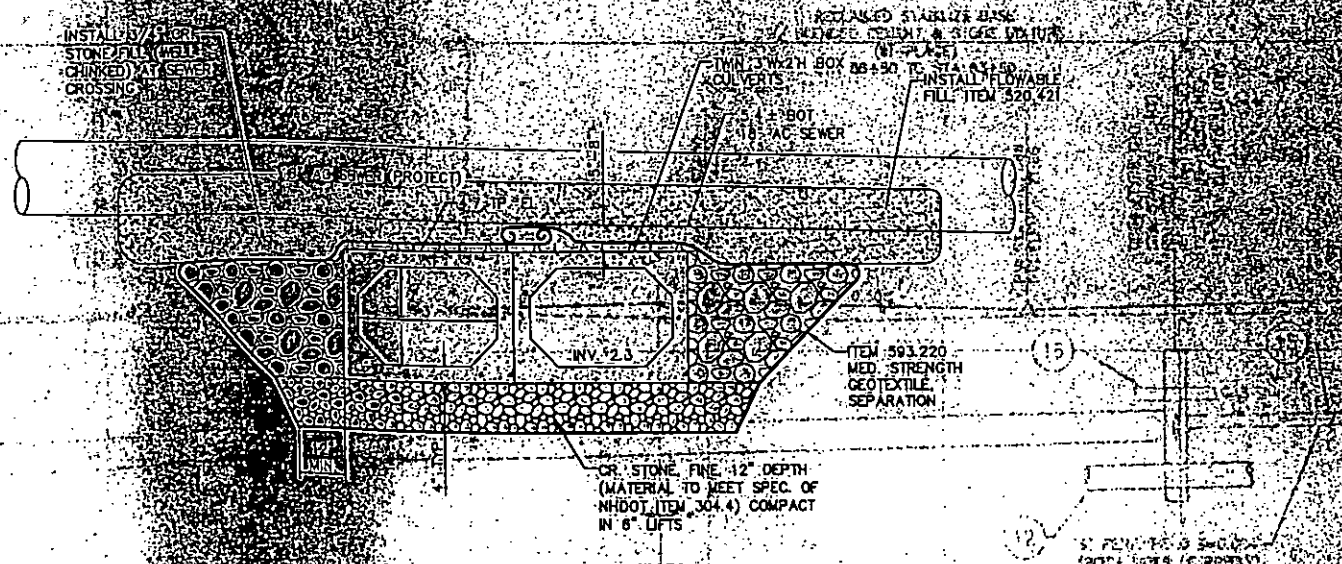
SPUR ROAD CULVERT CROSSING
(STA 52+09) PLAN VIEW



CULVERT CROSSING CROSS SECTION 52+09

SECTION A-A
SCALE: 1"=2'

SPUR ROAD PLAN



CONST. MORTAR RUBBLE
MASONRY HEADWALL (BOTH
SIDES OF ROADWAY) (17)
(D)

150 S.F. TOTAL
WETLAND IMPACT

TWIN REIN. CONC. BOX CULVERTS
SLOPE 0.5% FROM
SEWER CROSSING (DURT) TO
INLET (37. LT)

TWIN REINFORCED CONCRETE
36" DIA. BOX CULVERTS
SLOPE 0.5% TO
SEWER X-ING

CONST. MORTAR RUBBLE
MASONRY HEADWALL (BOTH
SIDES OF ROADWAY) SPAY AS 4
ITEM 800.4 SEE DETAIL

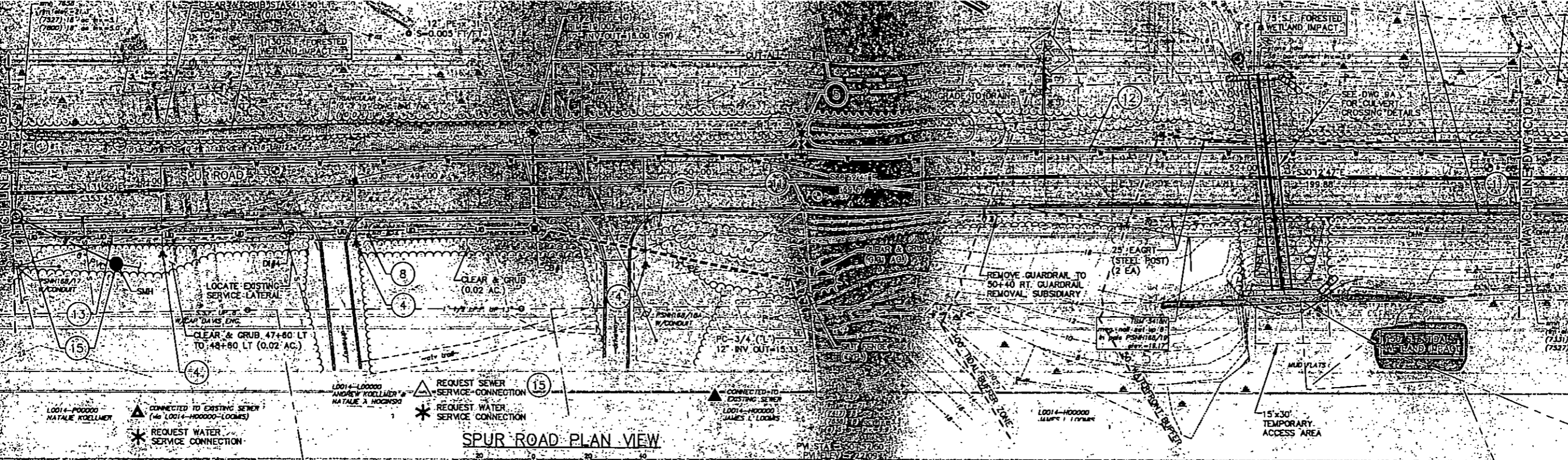
INV. 2.5
TWIN 36" DIA. BOX CULVERTS

UNDERWOOD
engineers

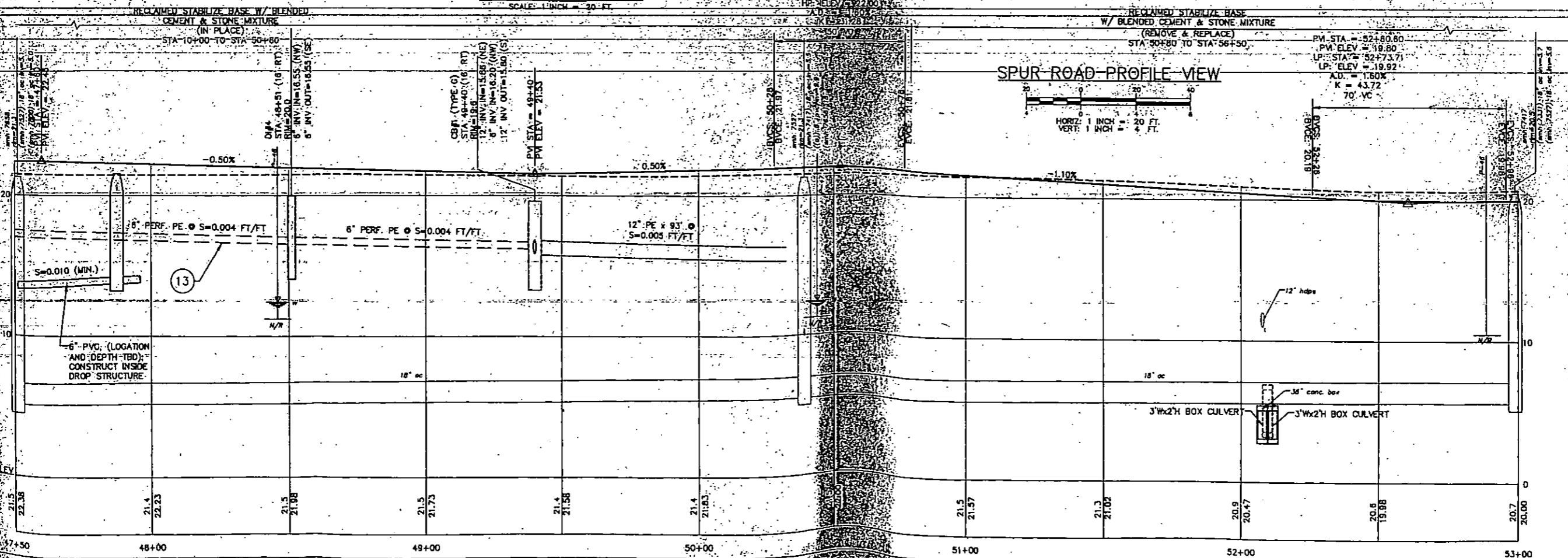
PLAN & PROFILE SPUR ROAD
STA. 52+09

SPUR ROAD
RECONSTRUCTION

CITY OF DOVER, NEW HAMPSHIRE



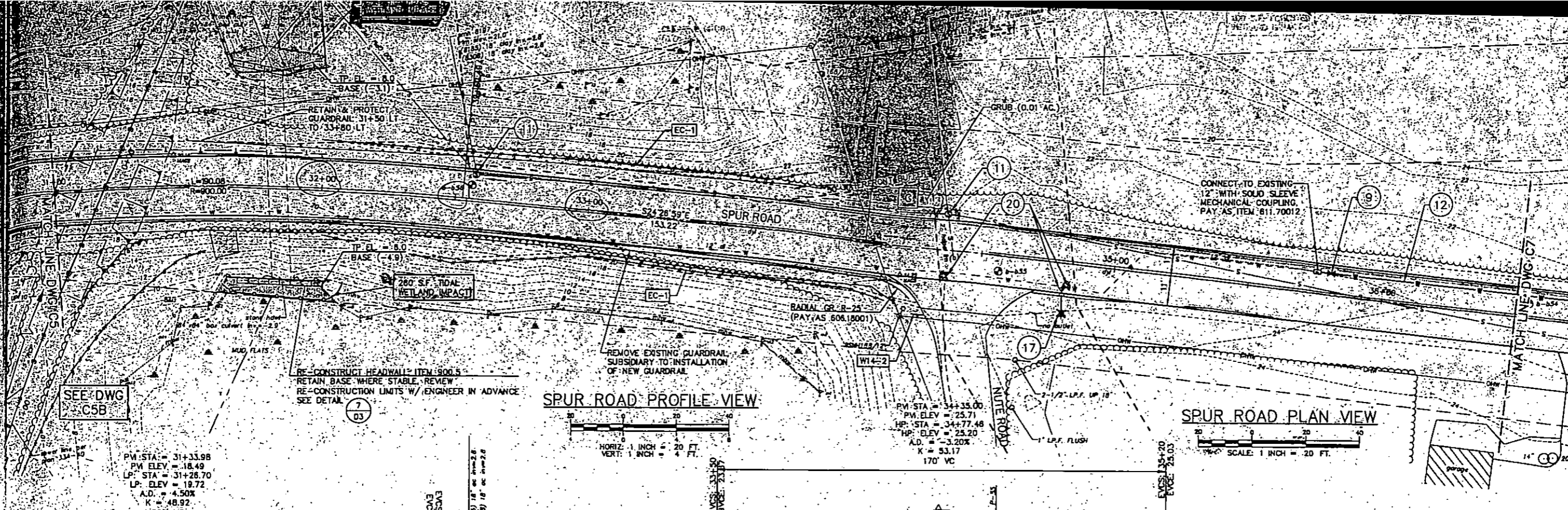
SPUR ROAD PLAN VIEW



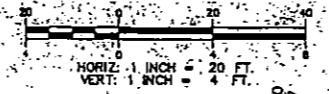
SPUR ROAD PROFILE VIEW

UNDERWOOD
engineers

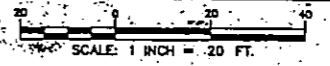
PLAN & PROFILE SPUR ROAD
STA 47+50 TO STA 53+00
SPUR ROAD RECONSTRUCTION
CITY OF DOVER, NEW HAMPSHIRE



SPUR ROAD PROFILE VIEW

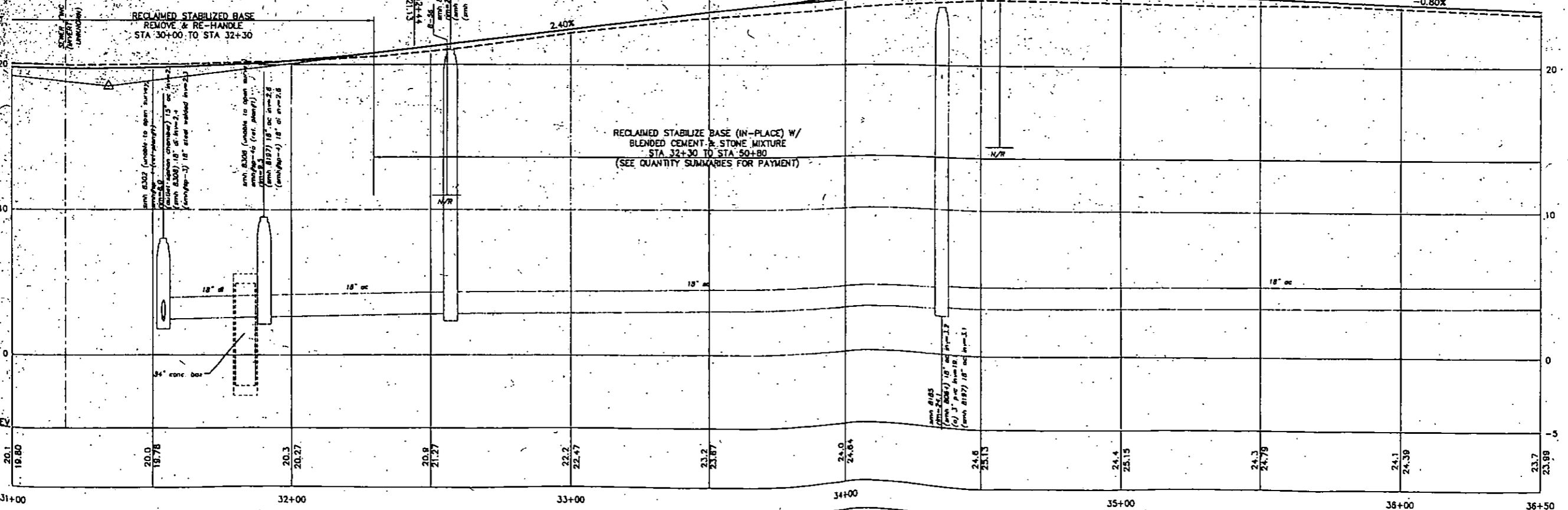


SPUR ROAD PLAN VIEW



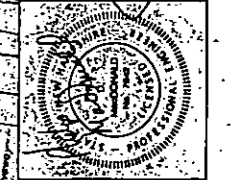
PM STA = 31+33.98
 PM ELEV = 18.49
 LP STA = 31+26.70
 LP ELEV = 19.72
 A.D. = 4.50%
 K = 48.92
 220' VC

PM STA = 34+35.00
 PM ELEV = 25.71
 HP STA = 34+77.48
 HP ELEV = 25.20
 A.D. = -3.20%
 K = 53.17
 170' VC



NO.	REVISIONS

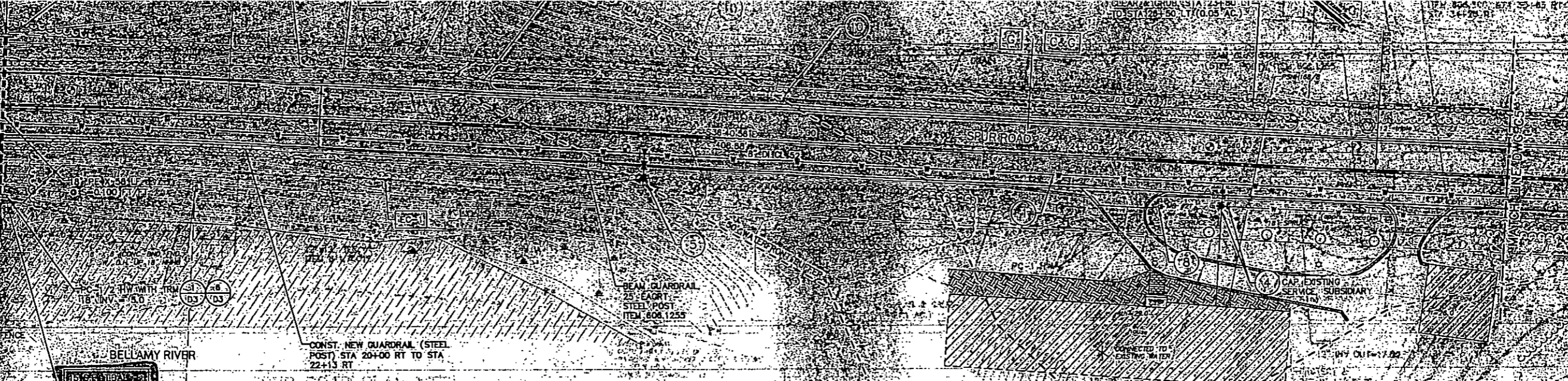
Drawn: []
 Checked: []
 Date: []
 Scale: []



UNDERWOOD
Engineers

25 Vaughtan Mall, Portsmouth, N.H. 03801
 Tel. 603-436-6192 Fax. 603-431-4733

PLAN & PROFILE SPUR ROAD
 STA 31+00 TO STA 36+50
 SPUR ROAD
 RECONSTRUCTION
 CITY OF DOVER, NEW HAMPSHIRE



SPUR ROAD PLAN VIEW

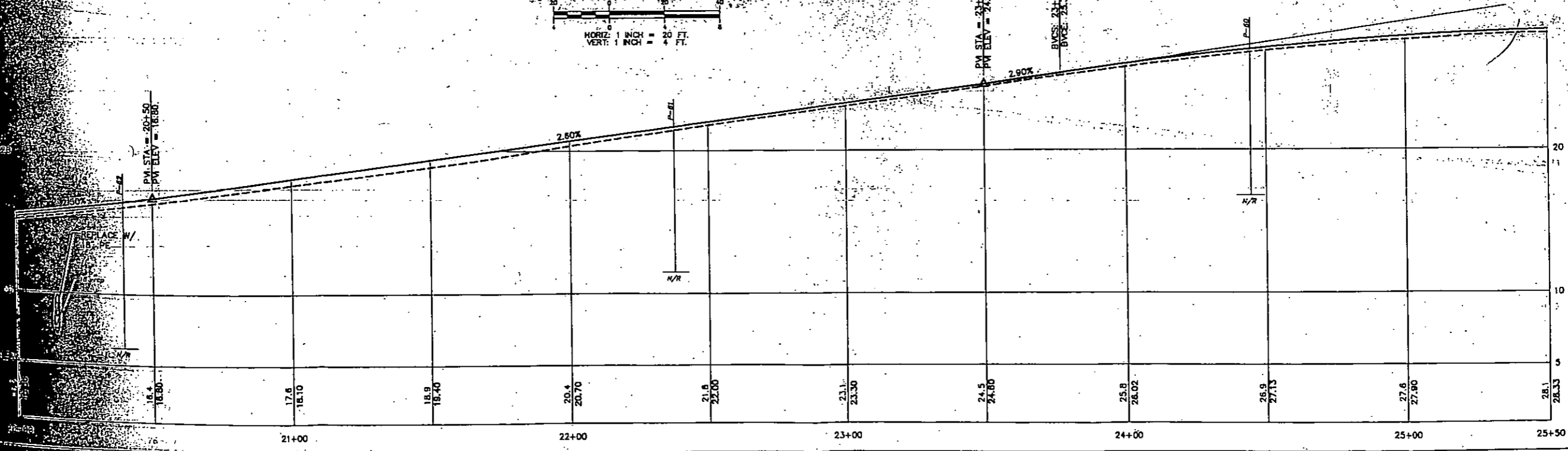
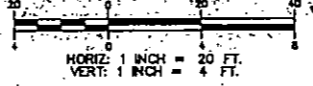


MOD17-000000
CLARK FAMILY TRUST OF 1993
RAYMOND W. & NORMA O. CLARK TRUSTEES

MOD17-000000
CLARK FAMILY TRUST OF 1993
RAYMOND W. & NORMA O. CLARK TRUSTEES

PVI: STA = 25+57.00
PVI: ELEV = 30.61
HI: STA = 25+185.81
HI: ELEV = 28.42
A.D. = 5.00%
K = 72.00
360' VC

SPUR ROAD PROFILE VIEW



H UNDERWOOD
engineers

PLAN 284 PROFILE SPUR ROAD
STA 20+00 TO STA 25+50
SPUR ROAD
RECONSTRUCTION
CITY OF DOVER, NEW HAMPSHIRE

DWG NO. 64 SHEET 1 OF 4