



**MAJOR SUBDIVISION APPLICATION**

(a total of four or more lots)

**City of Rochester, New Hampshire**

[office use only. Check # \_\_\_\_\_ Amount \$ \_\_\_\_\_ Date paid \_\_\_\_\_]



Date: November 7, 2017 Is a conditional needed? Yes: \_\_\_\_\_ No: X Unclear: \_\_\_\_\_  
(If so, we encourage you to submit an application as soon as possible.)

**Property information**

Tax map #: 140 ; Lot #'s: 73 ; Zoning district: R-1  
Property address/location: Old Dover Road  
Name of project (if applicable): Hayes Hill  
Size of site: 20.799 acres; Overlay zoning district(s)? Conservation

**Property owner**

Name (include name of individual): Quantum Real Estate Group, LLC  
Mailing address: 755 Central Avenue, Dover, NH  
Telephone #: (603)742-8107 Email: rjs@tritecheng.com

**Applicant/developer** (if different from property owner)

Name (include name of individual): \_\_\_\_\_  
Mailing address: \_\_\_\_\_  
Telephone #: \_\_\_\_\_ Email: \_\_\_\_\_

**Engineer/surveyor**

Name (include name of individual): Tritech Engineering Corporation  
Mailing address: 755 Central Avenue, Dover, NH  
Telephone #: (603)742-8107 Fax #: (603)742-4830  
Email address: rjs@tritecheng.com Professional license #: P.E. 9903  
LLS 884

**Proposed project**

Number of proposed lots: 17 ; estimated length of new roads: 1200 Feet  
Number of cubic yard of earth being removed from the site? N/A  
City water? yes X no \_\_\_\_\_; How far is city water from the site? \_\_\_\_\_  
City sewer? yes \_\_\_\_\_ no X; How far is city sewer from the site? More than a mile  
If city water, what are the est. total gal. per day? 10,200 ; Are there pertinent covenants? No  
Where will stormwater be discharged? Infiltration, Bioretention then to unnamed stream.

(Continued Major Subdivision Plan application Tax Map: 140 Lot: 73 Zone R-1 )

Wetlands: Is any fill proposed? No; area to be filled: No; buffer impact? No

Comments

Please feel free to add any comments, additional information, or requests for waivers here:

Submission of application

This application must be signed by the property owner, applicant/developer (if different from property owner), and/or the agent.

I/we) hereby submit this Subdivision application to the City of Rochester Planning Board pursuant to the City of Rochester Subdivision Regulations and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant/developer (if different from property owner)/as agent, I attest that I am duly authorized to act in this capacity.

Signature of property owner: [Signature], MANAGER  
Date: 11/07/17

Signature of applicant/developer: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature of agent: [Signature], PRESIDENT  
Date: 11/07/17

Authorization to enter subject property

I hereby authorize members of the Rochester Planning Board, Zoning Board of Adjustment, Conservation Commission, Planning Department, and other pertinent City departments, boards and agencies to enter my property for the purpose of evaluating this application including performing any appropriate inspections during the application phase, review phase, post-approval phase, construction phase, and occupancy phase. This authorization applies specifically to those particular individuals legitimately involved in evaluating, reviewing, or inspecting this specific application/project. It is understood that these individuals must use all reasonable care, courtesy, and diligence when entering the property.

Signature of property owner: [Signature], MANAGER  
Date: 11/07/17

# TRITECH

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ENGINEERING CORPORATION

755 CENTRAL AVENUE  
DOVER, NEW HAMPSHIRE 03820

TELEPHONE 603.742.8107  
FACSIMILE 603.742.3830

November 7, 2017



Seth Creighton, Chief Planner  
City of Rochester  
31 Wakefield Street  
Rochester, NH 03867-1917

**Subject: Major Subdivision Application**  
***Quantum Real Estate Group, LLC***  
Rochester Tax Map 140, Lot 73  
Old Dover Road  
Rochester, New Hampshire  
Job No. 16133

Dear Seth:

Quantum Real Estate Group is the owner of 20 acres of vacant land on the easterly side of Old Dover Road shown as City of Rochester Tax Map 140, Lot 73. The property is located in the R-1 Zoning District and has City Water available. Quantum Real Estate, LLC desires to subdivide the property.

The owner has proposed a 17 Lot Subdivision (16 new lots). Lot 73 will access from its frontage on Old Dover Road. The remaining 16 Lots, along with the previously subdivided Lot 73-1, will access the proposed road.

All lots will be serviced by municipal water, on-site septic systems, and underground electric, telephone and cable tv. All lots meet the zoning requirements of 100 feet of frontage and 10,000 square foot lot size. As this project utilizes on-site septic systems, the project will require NHDES Subdivision Approval. All Lots have been sized to conform to the NHDES lot sizing requirements.

The proposed roadway crosses an intermittent stream at Station 9+ 56. This crossing will require a NHDES Wetlands Permit. There are no wetlands associated with it at this location. The Rochester Conservation Overlay District is not applicable to this work as there are no wetlands or wetlands buffer impact and it is not a "Perennial Stream". A Conditional Use Permit is not required.

Enclosed please find the following:

- Cover Letter (22 copies)
- Major Subdivision Application (22 copies)
- Major Subdivision Checklist (22 copies)
- Traffic Assessment Memorandum (22 copies)
- Subdivision Plan Set, Sheets S-1 & S-2 – 11 x 17 (22 copies)
- Subdivision Plan Set, Sheets S-1 & S-2 – full size (3 copies)
- Application Fee \$4,365.60 (Tritech Check No. 31517)
- Abutters List (1 copy) with Labels

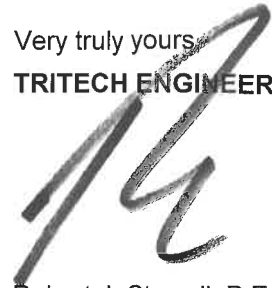
City of Rochester  
November 7, 2017  
Page 2 of 2

We look forward to meeting with the Technical Review Group on November 17, 2017 and hopeful this will clear the way for review by the Planning Board Meeting on December 4, 2017.

Please advise should you have any questions.

Very truly yours,

**TRITECH ENGINEERING CORP.**

A handwritten signature in dark ink, appearing to be 'RJS', is written over the company name.

Robert J. Stowell, P.E., L.L.S.  
President

RJS / rms

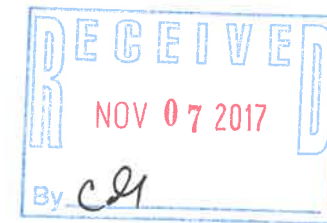
Enclosures

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# SUBDIVISION & CONSTRUCTION PLANS

## THE HOMES AT HAYES HILL

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE



### LIST OF PLANS

T-1	-	TITLE SHEET	C-3	-	CONSTRUCTION NOTES
T-2	-	KEY PLAN - 1" = 200'	C-4	-	STREAM CROSSING PLAN & PROFILE - 1" = 10'
EX-1	-	EXISTING CONDITIONS PLAN - 1" = 100'	C-5	-	INFILTRATION PRACTICE (IP-#1) PLAN - 1" = 20'
S-1	-	SUBDIVISION PLAN - 1" = 100'	C-6	-	CROSS COUNTRY DRAINAGE PLAN - 1" = 20'
S-2	-	SUBDIVISION PLAN - 1" = 60'	C-7	-	CONSTRUCTION DETAILS
S-3	-	SUBDIVISION PLAN - 1" = 60'	C-8	-	CONSTRUCTION DETAILS
S-4	-	TOPOGRAPHIC PLAN - 1" = 60'	C-9	-	CONSTRUCTION DETAILS
S-5	-	TOPOGRAPHIC PLAN - 1" = 60'	C-10	-	CONSTRUCTION DETAILS
SSS-1	-	SITE SPECIFIC SOILS PLAN - 1" = 40'	XS-1	-	ROADWAY CROSS SECTIONS (STA. 0+00 - 3+50)
SSS-2	-	SITE SPECIFIC SOILS PLAN - 1" = 40'	XS-2	-	ROADWAY CROSS SECTIONS (STA. 4+00 - 5+90)
SSS-3	-	SITE SPECIFIC SOILS, TEST PITS	XS-3	-	ROADWAY CROSS SECTIONS (STA. 6+00 - 7+50)
SSS-4	-	SITE SPECIFIC SOILS, TEST PITS	XS-4	-	ROADWAY CROSS SECTIONS (STA. 8+00 - 9+50)
C-1	-	ROAD PLAN & PROFILE - 1" = 30'	XS-5	-	ROADWAY CROSS SECTIONS (STA. 9+60 - 11+50)
C-2	-	ROAD PLAN & PROFILE - 1" = 30'	XS-6	-	ROADWAY CROSS SECTIONS (STA. 12+00 - 13+50)

PREPARED BY

**TRITECH**

ENGINEERING CORPORATION



PREPARED FOR

quantum  
real estate group, llc

**TRITECH**

ENGINEERING CORPORATION

785 CENTRAL AVENUE  
DOVER, NEW HAMPSHIRE 03820  
TELEPHONE 603 742 8107  
FAX 603 742 3830

REVISIONS  
DATE: DESCRIPTION:

TITLE SHEET

**HA YES HILL**

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017  
JOB No. 16133

SHEET NO.

**T-1**



MAP - LOT	OWNER-ADDRESS
140-72	DONALD & JOAN SEAVEY P.O. BOX 874 ROCHESTER, NH.
140-73-1	CHRISTOPHER COFFEY & KALLA PAQUETTE 156 OLD DOVER ROAD ROCHESTER, NH.
140-74	NORMA JEAN BAILEY 117 OLD DOVER ROAD ROCHESTER, NH.
140-75-1	DANA & KAREN GRAVEL 151 OLD DOVER ROAD ROCHESTER, NH.
253-1	HENRY & TARYN DECKEN 162 OLD DOVER ROAD ROCHESTER, NH.
253-23	PATRICIA WOODWARD 1891 TRUST 227 LEDGES DRIVE #125 LACONIA, NH.
253-24	PATRICIA WOODWARD 1891 TRUST 227 LEDGES DRIVE #125 LACONIA, NH.
253-25	ALEXANDRE KLEVITCH & EMILY SMITH 1 LAURA DRIVE ROCHESTER, NH.
253-93-1	CHARLES A. BURROWS 155 OLD DOVER ROAD ROCHESTER, NH.
253-94	CHARLES A. BURROWS 155 OLD DOVER ROAD ROCHESTER, NH.



SHEET NO.

# HAYES HILL

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017 JOB No. 16133  
SCALE: 1" = 200'

## T-2

**TRITECH**  
ENGINEERING CORPORATION

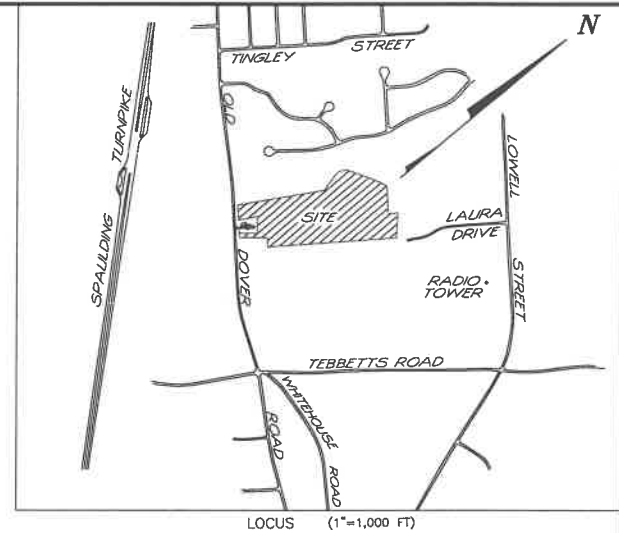
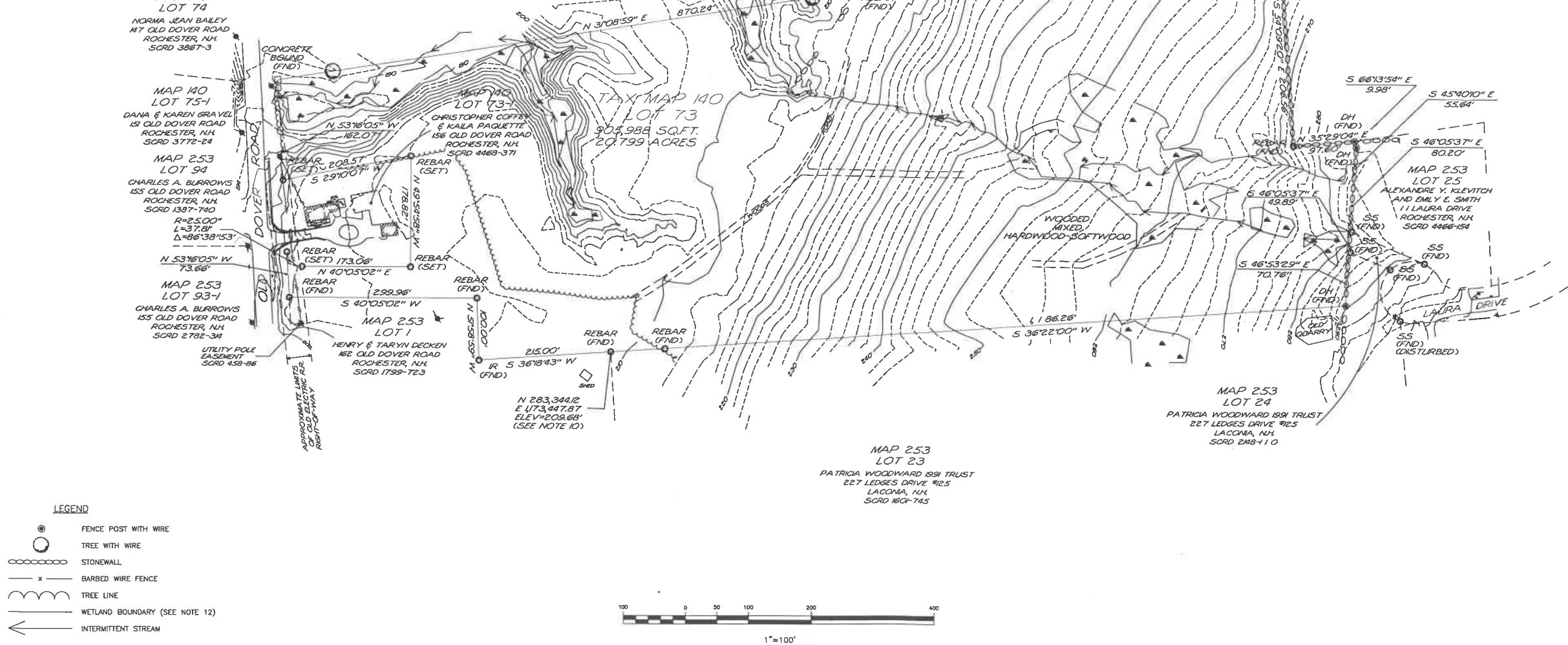
REVISIONS	DESCRIPTION:
DATE:	

785 CENTRAL AVENUE  
DOVER NEW HAMPSHIRE 03860  
TELEPHONE 603 742 8107  
FAX 603 742 3830



# NOTES

- INTENT: TO SHOW THE EXISTING CONDITIONS FOR ROCHESTER TAX MAP 140 LOT 73.
- CURRENT OWNER OF RECORD: QUANTUM REAL ESTATE GROUP  
755 CENTRAL AVENUE  
DOVER, N.H. 03820
- SUBJECT PARCELS ARE LOCATED IN THE CITY OF ROCHESTER, COUNTY OF STRAFFORD AND THE STATE OF NEW HAMPSHIRE.
- TOTAL LOT AREA: 905,988 SQ.FT. - 20.799 ACRES
- TAX MAP 140 LOT 73.
- PROJECT DEED REFERENCE: BK 4445 PG 20
- PROJECT PLAN REFERENCE: MINOR SUBDIVISION PLAN  
CRAMER FAMILY TRUST  
156 OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
TRITECH ENGINEERING CORPORATION  
OCTOBER 27, 2017 SCRD 113-51  
  
PLAN OF SUBDIVISION  
WILLIS J. MOORE  
LAURA DRIVE  
ROCHESTER, N.H.  
BERRY CONST. CO. INC.  
SCRD PO 11 TO 1 PLAN #44  
DECEMBER 26, 1973  
  
PROPOSED SUBDIVISION  
LAND OF CARLYLE SEAVEY  
OLD DOVER ROAD - ROUTE 16B  
ROCHESTER, N.H.  
BERRY SURVEYING & ENGINEERING  
SCRD 36-122 DEC. 19, 1988  
  
PLAN OF LAND FOR  
ROBERT & NANCY CRAMER &  
JOSEPH & PATRICIA WOODWARD  
OLD DOVER ROAD  
ROCHESTER, N.H.  
MCNEANEY SURVEY ASSOCIATES  
12-1-88 NOT RECORDED  
  
LOT LINE ADJUSTMENT PLAN  
PREPARED FOR  
PATRICIA S. WOODWARD TRUST  
OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
MCNEANEY SURVEY ASSOCIATES  
SCRD 45-82 MARCH 17, 1995
- ZONING: RESIDENTIAL -1 (R-1)  
MIN. LOT SIZE: 10,000 SQ.FT.  
MIN. FRONTAGE: 100 FT  
MIN. SETBACKS:  
FRONT: 10 FT  
SIDE: 10 FT  
REAR: 20 FT
- THE RAW UNADJUSTED CLOSURE OF OUR RANDOM POINT TRAVERSE WAS 1 PART IN 44,000, AND WAS ACCOMPLISHED USING A LEICA TC 703 TOTAL STATION, DURING THE MONTH OF SEPTEMBER, 2016.
- BASIS OF BEARING: THE CITY OF ROCHESTER GIS SYSTEM.
- THE SUBJECT PARCEL IS NOT LOCATED WITHIN A FEDERALLY DESIGNATED FLOOD HAZARD ZONE. MAP No. 33017C02140, DATE: MAY 17, 2005.
- DURING THE MONTH OF AUGUST, 2016 MICHAEL MARIANO, STATE OF NEW HAMPSHIRE CERTIFIED SOIL SCIENTIST #76, NH CERTIFIED WETLAND SCIENTIST #183, CONDUCTED AN ON-SITE WETLANDS DELINEATION OF THE SUBJECT PARCEL. WETLANDS WERE IDENTIFIED ON STATE & FEDERAL CRITERIA OUTLINED IN THE CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL (DEPT. OF THE ARMY, 1987) ON THIS SITE, WETLANDS BASED ON LOCAL CRITERIA SHARE THE SAME BOUNDARIES WITH THOSE BASED ON STATE AND FEDERAL CRITERIA. NO OPENLY DRAINED SOILS WERE FOUND.



**TRITECH**  
ENGINEERING CORPORATION

755 CENTRAL AVENUE  
DOVER, NEW HAMPSHIRE 03820  
TELEPHONE 603 742 8107  
FAX 603 742 3830

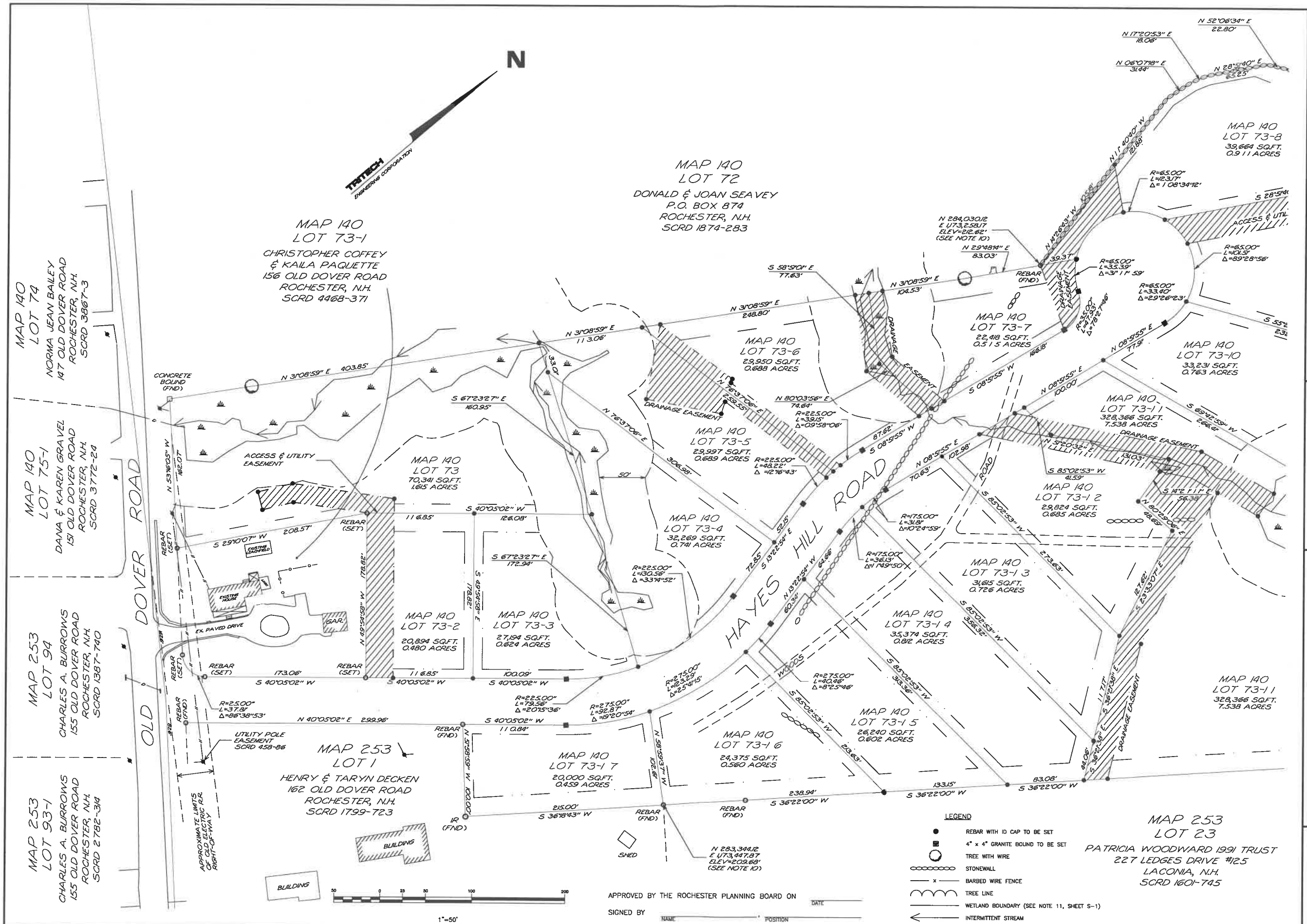
EXISTING CONDITIONS PLAN  
QUANTUM REAL ESTATE GROUP  
OLD DOVER ROAD  
AND LAURA DRIVE  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017  
JOB NO. 16133  
SCALE: 1" = 100'

SHEET NO.

**EX-1**







TRITECH  
ENGINEERING CORPORATION

755 CENTRAL AVENUE  
DOVER, NEW HAMPSHIRE 03830  
TELEPHONE 603 742 8107  
FAX 603 742 9560

REVISIONS	DATE	DESCRIPTION

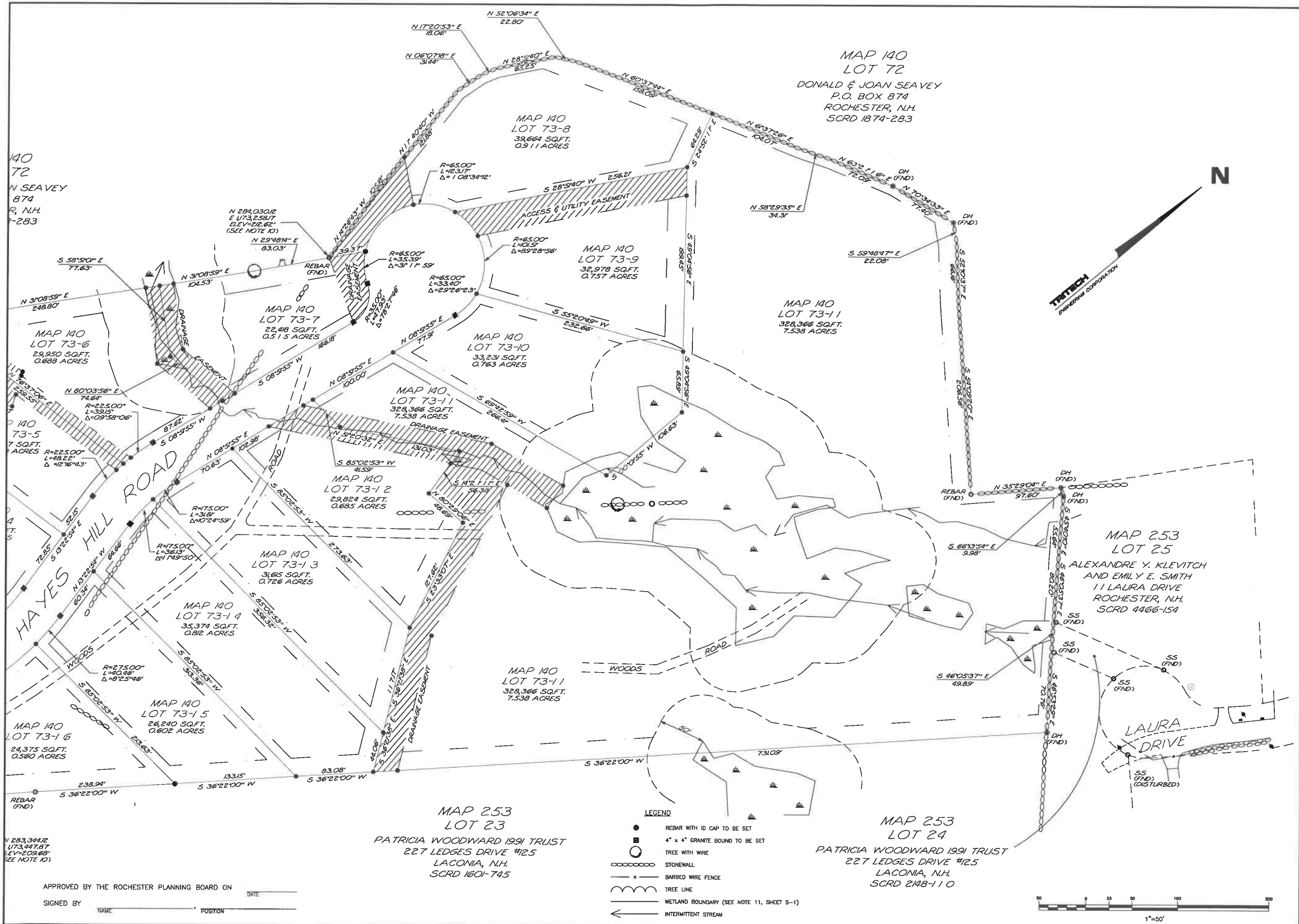
SUBDIVISION PLAN

**HAYES HILL**

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017  
JOB No. 16133  
SCALE: 1" = 50'

SHEET NO.

**S-2**



TRITECH  
ENGINEERING CORPORATION

765 CENTRAL AVENUE  
DOVER, NEW HAMPSHIRE 03800  
TELEPHONE 603 742 8107  
FAX 603 742 3530

REVISIONS	DATE	DESCRIPTION

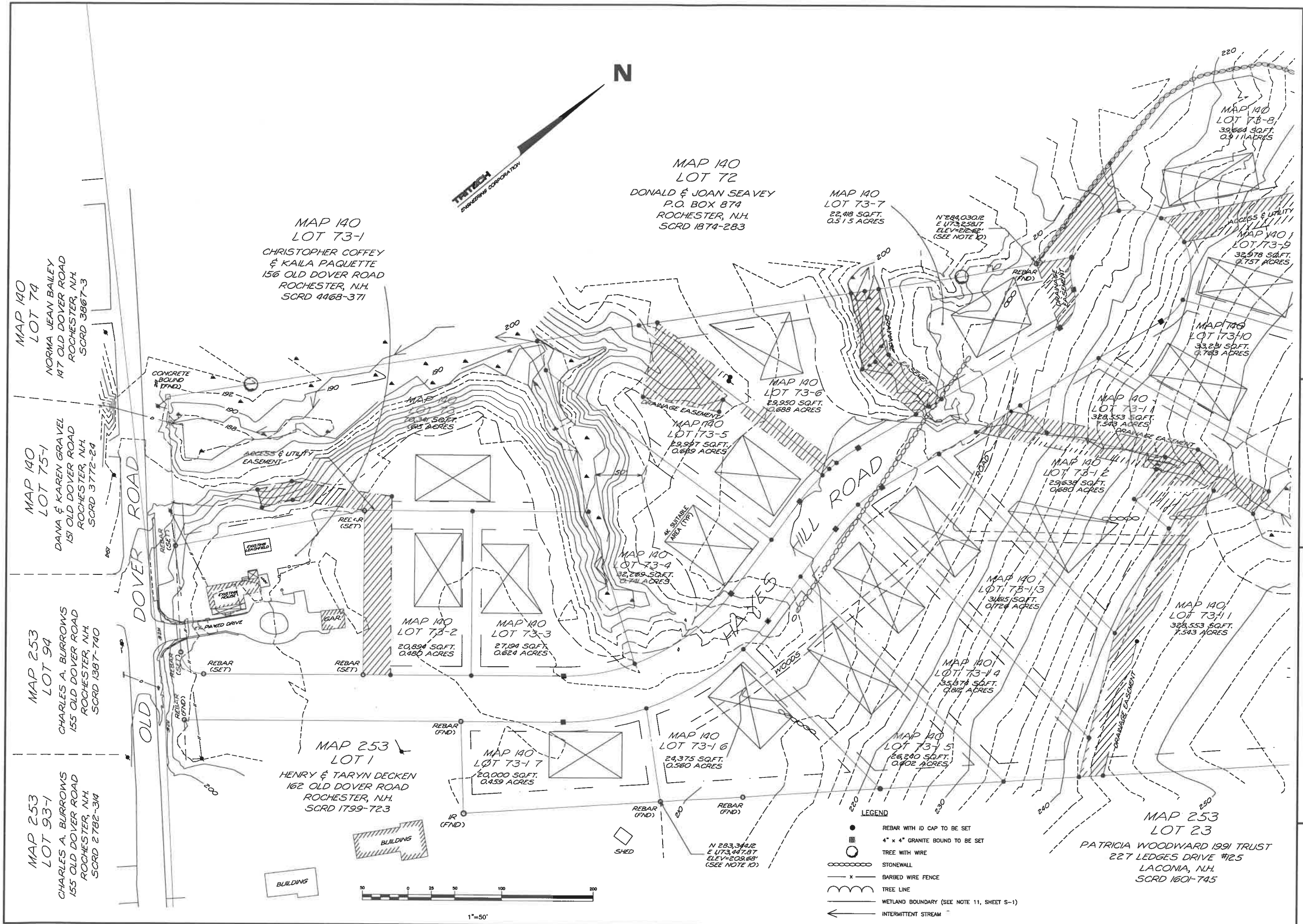
SUBDIVISION PLAN

**HAYES HILL**

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017  
JOB No. 16133  
SCALE: 1" = 50'

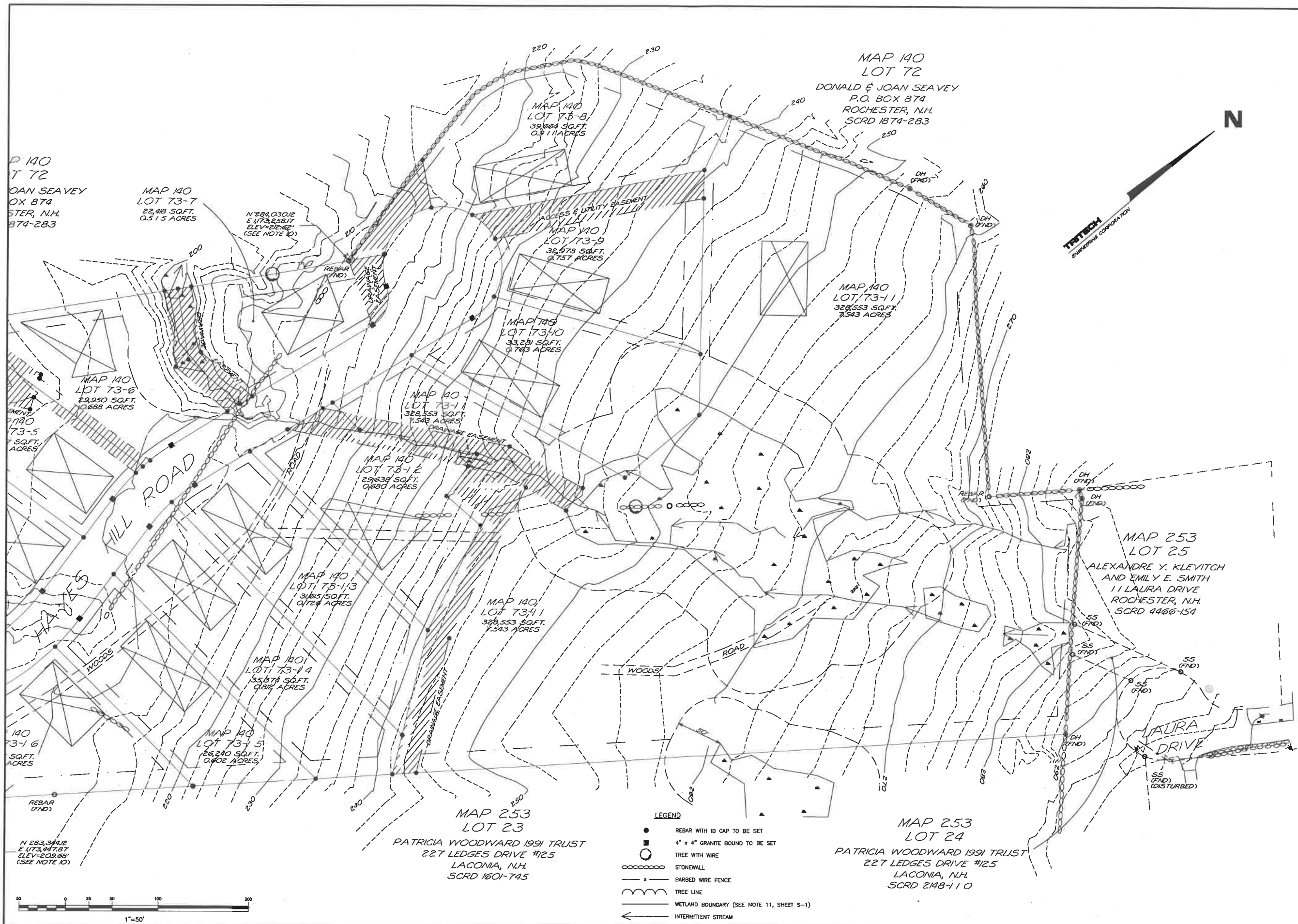
SHEET NO.

**S-3**



SHEET NO.	<b>S-4</b>	TOPOGRAPHIC PLAN		<b>HA YES HILL</b>	
		OLD DOVER ROAD ROCHESTER, NEW HAMPSHIRE NOVEMBER 7, 2017 JOB No. 16133 SCALE: 1" = 50'			
TRITECH ENGINEERING CORPORATION		755 CENTRAL AVENUE DOVER, NEW HAMPSHIRE 03820 TELEPHONE 603 742 8107 FAX 603 742 3600			
REVISIONS		DATE: DESCRIPTION:			





**TRITECH**  
ENGINEERING CORPORATION

766 CENTRAL AVENUE  
DOVER, NEW HAMPSHIRE 03820  
TELEPHONE 603 742 807  
FAX 603 742 3530

REVISIONS  
DATE: DESCRIPTION:

TOPOGRAPHIC PLAN

**HAYES HILL**

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017  
JOB No. 16133  
SCALE: 1" = 50'

SHEET NO.

**S-5**

# LEGEND

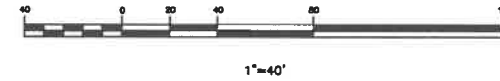
A	0 - 3%		TEST PIT
B	3 - 8%		WETLANDS
C	8 - 15%		WETLAND BOUNDARY
D	15 - 25%		2FT CONTOUR
E	25 - 35%		10FT CONTOUR
E	35%+		SOILS BOUNDARY
E	35%+		PROPERTY LINE

## SITE SPECIFIC MAP UNIT

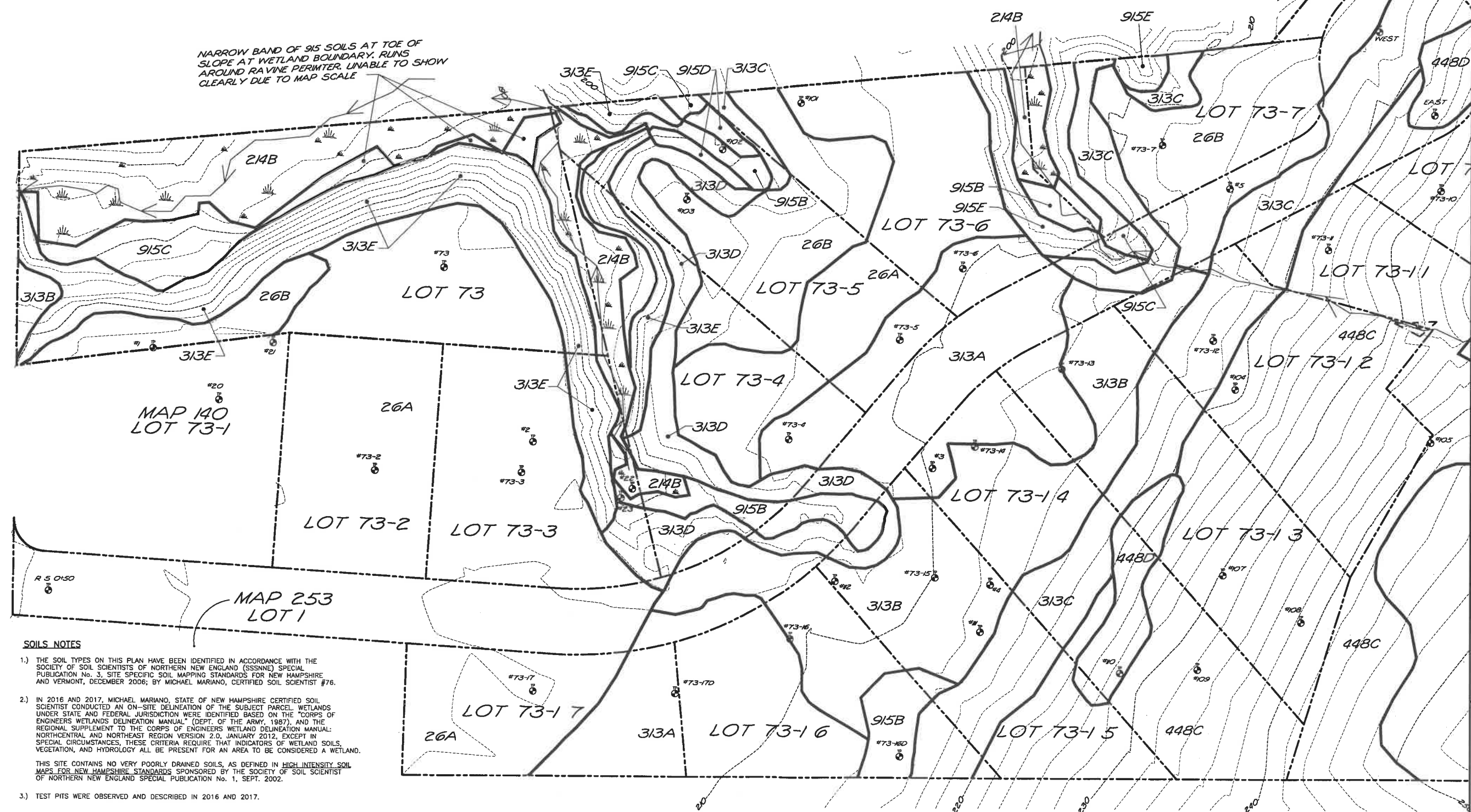
26	WINDSOR
24	NAUMBURG
313	DEERFIELD
915	DEERFIELD VARIANT
448	SCITUATE
946	RIDGEBURY
957	RIDGEBURY

## SOIL TYPES

NAME	DRAINAGE CLASS
WINDSOR	EXCESSIVELY DRAINED
NAUMBURG	POORLY DRAINED
DEERFIELD	SOMEWHAT POORLY DRAINED
DEERFIELD VARIANT	SOMEWHAT POORLY DRAINED
SCITUATE	MODERATELY WELL DRAINED
RIDGEBURY	SOMEWHAT POORLY DRAINED
RIDGEBURY	VERY STONY
RIDGEBURY	POORLY DRAINED, VERY STONY



N



NARROW BAND OF 915 SOILS AT TOE OF SLOPE AT WETLAND BOUNDARY; RUNS AROUND RAVINE PERIMETER, UNABLE TO SHOW CLEARLY DUE TO MAP SCALE

MAP 140  
LOT 73-1

MAP 253  
LOT 1

## SOILS NOTES

- THE SOIL TYPES ON THIS PLAN HAVE BEEN IDENTIFIED IN ACCORDANCE WITH THE SOCIETY OF SOIL SCIENTISTS OF NORTHERN NEW ENGLAND (SSSNE) SPECIAL PUBLICATION No. 3, SITE SPECIFIC SOIL MAPPING STANDARDS FOR NEW HAMPSHIRE AND VERMONT, DECEMBER 2006; BY MICHAEL MARIANO, CERTIFIED SOIL SCIENTIST #76.
- IN 2016 AND 2017, MICHAEL MARIANO, STATE OF NEW HAMPSHIRE CERTIFIED SOIL SCIENTIST CONDUCTED AN ON-SITE DELINEATION OF THE SUBJECT PARCEL. WETLANDS UNDER STATE AND FEDERAL JURISDICTION WERE IDENTIFIED BASED ON THE "CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL" (DEPT. OF THE ARMY, 1987), AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHEAST REGION VERSION 2.0, JANUARY 2012, EXCEPT IN SPECIAL CIRCUMSTANCES, THESE CRITERIA REQUIRE THAT INDICATORS OF WETLAND SOILS, VEGETATION, AND HYDROLOGY ALL BE PRESENT FOR AN AREA TO BE CONSIDERED A WETLAND.
- THIS SITE CONTAINS NO VERY POORLY DRAINED SOILS, AS DEFINED IN HIGH INTENSITY SOIL MAPS FOR NEW HAMPSHIRE STANDARDS SPONSORED BY THE SOCIETY OF SOIL SCIENTIST OF NORTHERN NEW ENGLAND SPECIAL PUBLICATION No. 1, SEPT. 2002.
- TEST PITS WERE OBSERVED AND DESCRIBED IN 2016 AND 2017.

TRITECH

ENGINEERING CORPORATION

795 CENTRAL AVENUE  
DOVER, NEW HAMPSHIRE 03820  
TELEPHONE 603 742 8907  
FAX 603 742 3530

REVISIONS  
DATE: DESCRIPTION:

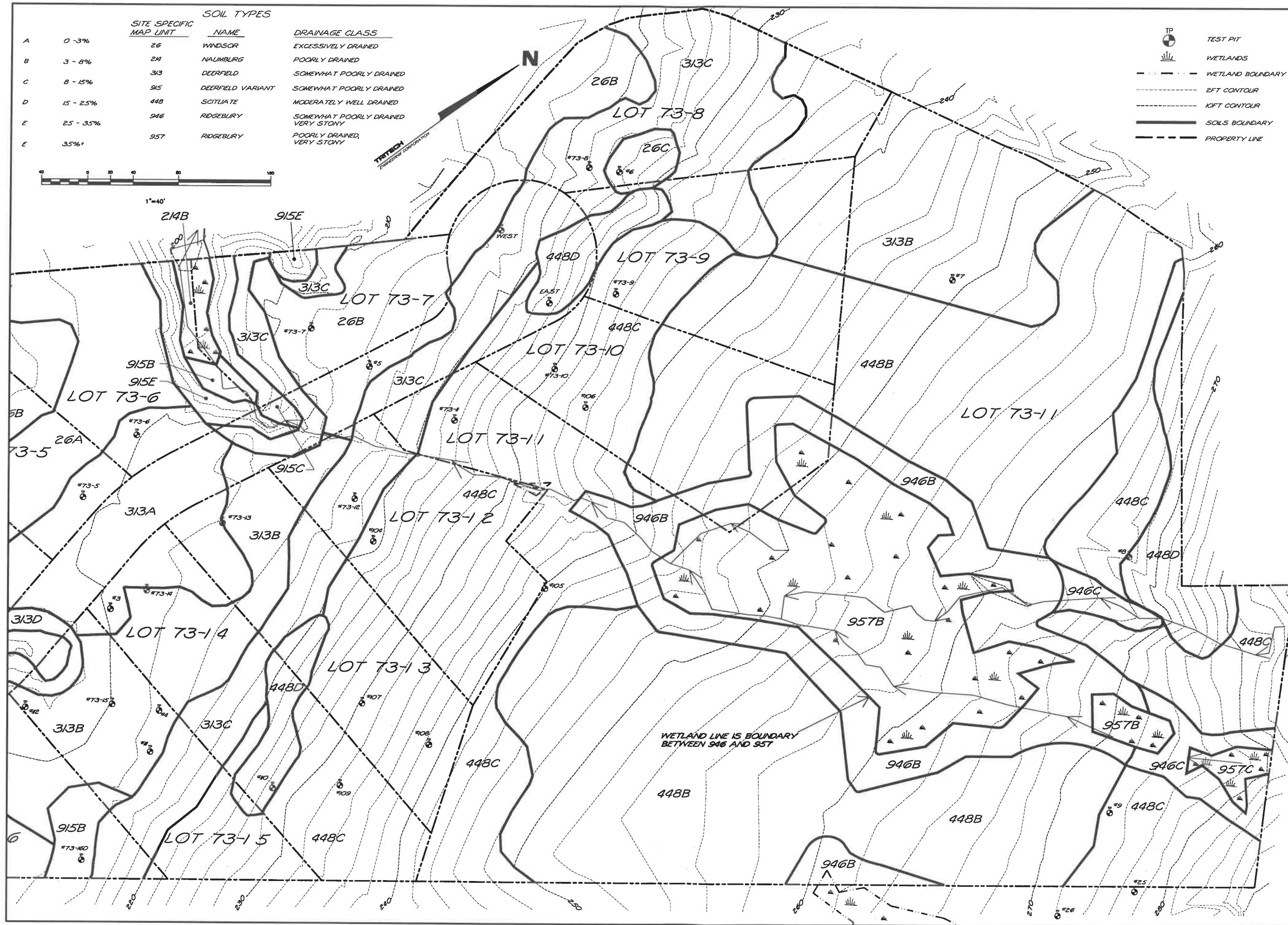
SITE SPECIFIC SOILS PALN

HAYES HILL

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017 JOB No. 16133  
SCALE: 1" = 40'

SHEET NO.

SSS-1



SHEET NO.	<b>SSS-2</b>	SITE SPECIFIC SOILS PALN <b>HAYES HILL</b> OLD DOVER ROAD ROCHESTER, NEW HAMPSHIRE NOVEMBER 7, 2017 JOB No. 16133 SCALE: 1" = 40'	TRITECH ENGINEERING CORPORATION	755 CENTRAL AVENUE DOVER, NEW HAMPSHIRE 03830 TELEPHONE 603 742 8707 FAX 603 742 8830



<p><b>TEST PIT 1</b></p> <p>00 - 08" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT.</p> <p>08 - 16" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; DRY, LOOSE.</p> <p>16 - 30" LIGHT YELLOWISH BROWN (10YR6/4) SAND; THIN HORIZONTAL BANDS OF STRONG BROWN (7.5YR5/8) SAND; SINGLE GRAIN; DRY, LOOSE.</p> <p>30 - 66" BROWN (10YR5/3) SAND; COMMON MEDIUM TO COARSE DISTINCT YELLOWISH BROWN (10YR5/6) AND PROMINENT STRONG BROWN (7.5YR5/8) REDOX DEPLECTIONS; SINGLE GRAIN; DRY, LOOSE.</p> <p>SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: &gt;66" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A</p>	<p><b>TEST PIT 2</b></p> <p>00 - 09" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT.</p> <p>09 - 12" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; DRY, LOOSE.</p> <p>12 - 27" LIGHT YELLOWISH BROWN (10YR6/4) SAND; SINGLE GRAIN; DRY, LOOSE.</p> <p>27 - 66" BROWN (10YR5/3) SAND; SINGLE GRAIN; DRY, LOOSE.</p> <p>SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: &gt;66" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A</p>	<p><b>TEST PIT 3</b></p> <p>00 - 09" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT.</p> <p>09 - 27" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; DRY, SOFT.</p> <p>27 - 60" PALE BROWN (10YR6/3) AND BROWN (2.5Y5/3) SAND; SINGLE GRAIN; DRY, LOOSE.</p> <p>SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: &gt;60" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A</p>	<p><b>TEST PIT 4</b></p> <p>00 - 12" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT.</p> <p>12 - 24" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK MEDIUM GRANULAR STRUCTURE; DRY, SOFT.</p> <p>24 - 32" OLIVE (5Y4/4) SAND; SINGLE GRAIN; MODERATELY CEMENTED; DRY, VERY HARD.</p> <p>32 - 60" LIGHT OLIVE BROWN (2.5Y5/4) GRAVELLY AND COBBLY LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; DRY, SLIGHTLY HARD.</p> <p>SERIES: WINDSOR NOTE: ORTSTEIN DISCONTINUOUS. MAPPED WITH DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: &gt;60" OBSERVED WATER: NONE RESTRICTIVE LAYER: 24" SOIL HYDROLOGIC GROUP: C</p>	<p><b>TEST PIT 5</b></p> <p>00 - 08" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT.</p> <p>08 - 24" STRONG BROWN (7.5YR5/8) LOAMY SAND; WEAK MEDIUM GRANULAR STRUCTURE; DRY, SLIGHTLY HARD.</p> <p>24 - 40" STRONG BROWN (7.5YR5/8) STONY SAND; SINGLE GRAIN; DRY, LOOSE. ORTSTEIN FRAGMENTS ON ONE PIT FACE</p> <p>40 - 48" YELLOWISH BROWN (10YR5/6) STONY SAND; SINGLE GRAIN; DRY, LOOSE.</p> <p>48 - 60" LIGHT OLIVE BROWN (2.5Y5/4) SAND; MANY MEDIUM PROMINENT STRONG BROWN (7.5YR5/8) AND DISTINCT YELLOWISH BROWN (10YR5/6) REDOX CONCENTRATIONS; COMMON MEDIUM DISTINCT GRAY (10YR6/1) REDOX DEPLECTIONS; GRAIN; DRY, LOOSE.</p> <p>SERIES: WINDSOR NOTE: ORTSTEIN - DISCONTINUOUS ESTIMATED SEASONAL HIGH WATER TABLE: 48" OBSERVED WATER: NONE RESTRICTIVE LAYER: 24" (DISCONTINUOUS) SOIL HYDROLOGIC GROUP: A</p>	<p><b>TEST PIT 6</b></p> <p>00 - 10" DARK BROWN (10YR4/4) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT.</p> <p>10 - 38" STRONG BROWN (7.5YR5/8) SAND; SINGLE GRAIN; LOOSE</p> <p>38 - 42" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; DRY, LOOSE.</p> <p>42 - 54" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; MODERATELY CEMENTED; DRY, VERY HARD.</p> <p>54" - 65" LIGHT OLIVE BROWN (2.5Y5/4) SAND; COMMON MEDIUM PROMINENT STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; DRY, SLIGHTLY HARD.</p> <p>SERIES: WINDSOR NOTE: ORTSTEIN ESTIMATED SEASONAL HIGH WATER TABLE: 54" OBSERVED WATER: NONE RESTRICTIVE LAYER: 42" SOIL HYDROLOGIC GROUP: B</p>	<p><b>TEST PIT 7</b></p> <p>00 - 08" DARK BROWN (10YR4/4) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT.</p> <p>08 - 30" LIGHT OLIVE BROWN (2.5Y5/4) SAND; SINGLE GRAIN; DRY, LOOSE.</p> <p>30 - 38" LIGHT OLIVE BROWN (2.5Y5/4) SAND; FEW MEDIUM DISTINCT GRAY (10YR6/1) REDOX DEPLECTIONS; SINGLE GRAIN; DRY, LOOSE.</p> <p>38 - 45" SAME AS ABOVE BUT WEAKLY CEMENTED; DRY, HARD.</p> <p>45" - 55" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; MANY MEDIUM DISTINCT GRAY (10YR6/1) REDOX DEPLECTIONS AND COMMON MEDIUM PROMINENT STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; COMMON MEDIUM GRANULAR STRUCTURE; DRY, SLIGHTLY HARD.</p> <p>SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 30" OBSERVED WATER: NONE RESTRICTIVE LAYER: 38" SOIL HYDROLOGIC GROUP: C</p>	<p><b>TEST PIT 8</b></p> <p>00 - 07" DARK BROWN (10YR4/4) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT.</p> <p>07 - 14" YELLOWISH BROWN (10YR5/6) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; DRY, SLIGHTLY HARD.</p> <p>14 - 20" STRONG BROWN (7.5YR5/8) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; DRY, SLIGHTLY HARD.</p> <p>20 - 32" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; DRY, SLIGHTLY HARD.</p> <p>32" - 50" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; COMMON MEDIUM PROMINENT STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; COMMON MEDIUM DISTINCT GRAY (10YR6/1) REDOX DEPLECTIONS; DRY, SLIGHTLY HARD.</p> <p>SERIES: NEWFIELDS ESTIMATED SEASONAL HIGH WATER TABLE: 32" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: B</p>	<p><b>TEST PIT 9</b></p> <p>00 - 08" DARK BROWN (10YR4/4) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT.</p> <p>08 - 36" YELLOWISH BROWN (10YR5/6) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; DRY, SLIGHTLY HARD</p> <p>36" BEDROCK</p> <p>SERIES: TUNBRIDGE ESTIMATED SEASONAL HIGH WATER TABLE: NONE OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE BEDROCK AT 36" SOIL HYDROLOGIC GROUP: C</p>
<p><b>TEST PIT 10</b></p> <p>00 - 04" DARK BROWN (10YR4/4) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT.</p> <p>04 - 49" YELLOWISH BROWN (10YR5/6) SAND; FEW THIN HORIZONTAL STRATIFICATIONS OF STRONG BROWN (7.5YR5/8) SAND; SINGLE GRAIN; DRY, LOOSE.</p> <p>49 - 60" LIGHT OLIVE BROWN (2.5Y5/4) SAND; COMMON MEDIUM FAINT DARK GRAYISH BROWN (2.5Y4/2) REDOX DEPLECTIONS; SINGLE GRAIN; DRY, LOOSE.</p> <p>SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: 49" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A</p>	<p><b>TEST PIT 11</b></p> <p>00 - 08" DARK BROWN (10YR4/4) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT.</p> <p>08 - 42" YELLOWISH BROWN (10YR5/6) LOAMY SAND; SINGLE GRAIN; DRY, LOOSE.</p> <p>42 - 54" LIGHT OLIVE BROWN (2.5Y5/4) SAND; COMMON MEDIUM FAINT PALE BROWN (10YR6/3) AND PROMINENT STRONG BROWN (7.5YR5/8) RELICT MOTTLES; SINGLE GRAIN; DRY, LOOSE.</p> <p>54 - 60" STRONG BROWN (7.5YR5/8) AND YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; DRY, LOOSE.</p> <p>SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: NONE OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A</p>	<p><b>TEST PIT 12</b></p> <p>00 - 06" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT.</p> <p>06 - 24" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; DRY, SLIGHTLY HARD.</p> <p>24 - 45" LIGHT OLIVE BROWN (2.5Y5/4) SAND; MODERATE MEDIUM GRANULAR STRUCTURE; DRY, SLIGHTLY HARD.</p> <p>45 - 60" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; COMMON MEDIUM PROMINENT STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; FEW FINE AND MEDIUM RED (2.5YR4/6) FE AND MN CONCRETIONS.</p> <p>SERIES: NEWFIELDS ESTIMATED SEASONAL HIGH WATER TABLE: 45" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: B</p>	<p><b>TEST PIT 20</b></p> <p>00 - 17" DARK BROWN (10YR4/3) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE.</p> <p>17 - 36" LIGHT OLIVE BROWN (2.5Y5/6) SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>36 - 55" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>55 - 90" LIGHT OLIVE BROWN (2.5Y5/4) SAND; FEW RELICT STREAKS OF STRONG BROWN (7.5YR5/8) SINGLE GRAIN; MOIST, LOOSE.</p> <p>SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: &gt;90" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A</p>	<p><b>TEST PIT 21</b></p> <p>00 - 20" DARK BROWN (10YR4/3) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE.</p> <p>20 - 29" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>29 - 90" LIGHT OLIVE BROWN (2.5Y5/4) SAND SINGLE GRAIN; MOIST, LOOSE.</p> <p>SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: &gt;90" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A</p>	<p><b>TEST PIT 22</b></p> <p>00 - 15" DARK BROWN (10YR4/3) AND LIGHT OLIVE BROWN (2.5Y5/4) ALLUVIAL SAND; FEW REDOX DEPLECTIONS; SINGLE GRAIN; MOIST LOOSE.</p> <p>15 - 18" BLACK (10YR2/L) MUCKY PEAT</p> <p>18 - 25" BLACK (10YR2/L) VERY FINE SAND; MASSIVE STRUCTURE; WET, NON-STICKY, NON-PLASTIC</p> <p>25 - 50" GRAY (10YR6/L) SAND; COMMON BROWN (10YR4/3) STAINS; SINGLE GRAIN; WET NON-STICKY, NON-PLASTIC.</p> <p>SERIES: NAUMBURG ESTIMATED SEASONAL HIGH WATER TABLE: 4" OBSERVED WATER: 18" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: D</p>	<p><b>TEST PIT 23</b></p> <p>00 - 08" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; DRY, SOFT</p> <p>08 - 12" LIGHT OLIVE BROWN (2.5Y5/4) SAND; SINGLE GRAIN; MOIST, LOOSE</p> <p>12 - 20" GRAYISH BROWN (2.5Y5/2) SAND; MANY MEDIUM AND COARSE PROMINENT STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; FEW MEDIUM RED (2.5YR4/6) FE/MN CONCRETIONS; SINGLE GRAIN; MOIST, LOOSE</p> <p>20 - 24" GRAY (10YR6/1) SAND; SINGLE GRAIN; WET, NON-STICKY, NON-PLASTIC</p> <p>24 - 48" LIGHT OLIVE BROWN (2.5Y5/4), GRAY (10YR6/1), AND STRONG BROWN (7.5YR5/8) SAND; MOIST, VERY HARD</p> <p>SERIES: NAUMBURG ESTIMATED SEASONAL HIGH WATER TABLE: 12" OBSERVED WATER: 24" RESTRICTIVE LAYER: 24" SOIL HYDROLOGIC GROUP: D</p>	<p><b>TEST PIT 24</b></p> <p>00 - 04" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE</p> <p>04 - 36" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, FRIABLE</p> <p>36 - 42" LIGHT YELLOWISH BROWN (10YR6/4) LOAMY FINE SAND; MASSIVE STRUCTURE; MOIST, FRIABLE</p> <p>42" BEDROCK</p> <p>SERIES: TUNBRIDGE ESTIMATED SEASONAL HIGH WATER TABLE: NONE OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE BEDROCK AT 42" SOIL HYDROLOGIC GROUP: C</p>	<p><b>TEST PIT 25</b></p> <p>00 -08" DARK BROWN (10YR4/3) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE</p> <p>08 - 18" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>18 - 32" DARK YELLOWISH BROWN (10YR4/6) SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>32 - 50" DARK YELLOWISH BROWN (10YR4/6) LOAMY SAND; MANY YELLOWISH BROWN (10YR5/6) AND STRONG BROWN (7.5YR 5/8) REDOX CONCENTRATIONS; MANY COARSE DISTINCT GRAY (10YR6/L) REDOX DEPLECTIONS; STRONG MEDIUM BLOCKY STRUCTURE; MOIST, VERY FIRM.</p> <p>50" BEDROCK</p> <p>SERIES: SCITUATE ESTIMATED SEASONAL HIGH WATER TABLE: 32" OBSERVED WATER: NONE RESTRICTIVE LAYER: 32" BEDROCK AT 50" SOIL HYDROLOGIC GROUP: C</p>
<p><b>TEST PIT 26</b></p> <p>00 - 13" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE</p> <p>13 - 25" DARK YELLOWISH BROWN (10YR4/6) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE.</p> <p>25 - 35" YELLOWISH BROWN (10YR5/6) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE.</p> <p>35 - 39" YELLOWISH BROWN (10YR5/6) LOAMY SAND; MANY MEDIUM TO COARSE STRONG DISTINCT STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; MANY MEDIUM TO COARSE PROMINENT GRAY (10YR6/1) REDOX DEPLECTIONS; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE.</p> <p>39 - 54" DARK YELLOWISH BROWN (10YR4/6) LOAMY SAND; MANY YELLOWISH BROWN (10YR5/6) AND STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; MANY COARSE DISTINCT GRAY (10YR6/L) REDOX DEPLECTIONS; STRONG MEDIUM BLOCKY STRUCTURE; MOIST, VERY FIRM.</p> <p>54" BEDROCK</p> <p>SERIES: SCITUATE ESTIMATED SEASONAL HIGH WATER TABLE: 35" OBSERVED WATER: NONE RESTRICTIVE LAYER: 39" BEDROCK AT 54" SOIL HYDROLOGIC GROUP: C</p>	<p><b>TEST PIT 27</b></p> <p>00 - 04" DARK BROWN (10YR4/4) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE</p> <p>04 - 16" STRONG BROWN (7.5YR5/8) SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE.</p> <p>16 - 27" YELLOWISH BROWN (10YR5/6) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE.</p> <p>27 - 38" YELLOWISH BROWN (10YR5/6) LOAMY SAND; MANY MEDIUM TO COARSE STRONG DISTINCT STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; FEW MEDIUM RED (2.5YR4/6) FE/MN CONCRETIONS; STRONG MEDIUM BLOCKY STRUCTURE; MOIST, VERY FIRM.</p> <p>38" BEDROCK</p> <p>SERIES: TUNBRIDGE ESTIMATED SEASONAL HIGH WATER TABLE: 27" OBSERVED WATER: NONE RESTRICTIVE LAYER: 27" BEDROCK AT 38" SOIL HYDROLOGIC GROUP: C</p>	<p><b>TEST PIT 73-1</b></p> <p>00 - 08" DARK BROWN (10YR3/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE</p> <p>08 - 16" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE</p> <p>16 - 44" LIGHT OLIVE BROWN (2.5Y5/4) SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>44 - 66" LIGHT OLIVE BROWN (2.5Y5/4) AND (2.5Y5/3) SAND; FEW RELICT STREAKS OF STRONG BROWN (7.5YR5/8) SINGLE GRAIN; MOIST, LOOSE</p> <p>SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: &gt;66" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A</p>	<p><b>TEST 73-2</b></p> <p>00 - 09" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE</p> <p>09 - 14" YELLOWISH BROWN (10YR5/6) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE.</p> <p>14 - 40" LIGHT OLIVE BROWN (2.5Y5/4) AND LIGHT YELLOWISH BROWN (2.5Y6/3) SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>40 - 66" LIGHT YELLOWISH BROWN (2.5Y6/3) SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: &gt;66" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A</p>	<p><b>TEST PIT 73-3</b></p> <p>00 - 09" DARK BROWN (10YR3/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE.</p> <p>09 - 15" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE.</p> <p>15 - 21" LIGHT OLIVE BROWN (2.5Y5/4) SAND; FEW MEDIUM PROMINENT RELICT MOTTLES IN STRONG BROWN (7.5YR5/8) SINGLE GRAIN; MOIST, LOOSE.</p> <p>21 - 66" LIGHT OLIVE BROWN (2.5Y5/4) SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: &gt;66" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A</p>	<p><b>TEST PIT 73-4</b></p> <p>00 - 10" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE.</p> <p>10 - 18" STRONG BROWN (7.5YR5/8) SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>18 - 36" YELLOWISH BROWN (10YR5/6) SAND; FEW COBBLES AND STONES; SINGLE GRAIN; MOIST, LOOSE.</p> <p>36 - 60" LIGHT OLIVE BROWN (2.5Y5/4) STONY SAND; MANY STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; MANY GRAY (10YR6/1) REDOX DEPLECTIONS; SOME BLACK (10YR2/1) SAND AT 36"; MOST HEAVILY CEMENTED TO STRONGLY CEMENTED; EXTREMELY FIRM.</p> <p>SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 36" OBSERVED WATER: 36" RESTRICTIVE LAYER: 36" SOIL HYDROLOGIC GROUP: C</p>	<p><b>TEST PIT 73-5</b></p> <p>00 - 10" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE</p> <p>10 - 20" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; WEAK MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE</p> <p>20 - 38" LIGHT OLIVE BROWN (2.5Y5/4) SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>38 - 60" GRAYISH BROWN (2.5Y5/2) AND LIGHT OLIVE BROWN (2.5Y5/4) COARSE SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>60 - 60" GRAYISH BROWN (2.5Y5/2) AND LIGHT OLIVE BROWN (2.5Y5/4) SAND; STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS AND GRAY (10YR6/1) REDOX DEPLECTIONS INCREASING WITH DEPTH; SINGLE GRAIN; CEMENTED ; EXTREMELY FIRM</p> <p>SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 36" OBSERVED WATER: 36" RESTRICTIVE LAYER: 36" SOIL HYDROLOGIC GROUP: C</p>	<p><b>TEST 73-6</b></p> <p>00 - 09" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE</p> <p>09 - 20" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; WEAK MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE</p> <p>20 - 34" LIGHT OLIVE BROWN (2.5Y5/4) SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>34 - 36" LIGHT OLIVE BROWN (2.5Y5/4) COARSE SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>36 - 60" GRAYISH BROWN (2.5Y5/2) AND LIGHT OLIVE BROWN (2.5Y5/4) SAND; STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS AND GRAY (10YR6/1) REDOX DEPLECTIONS INCREASING WITH DEPTH; SINGLE GRAIN; CEMENTED ; EXTREMELY FIRM</p> <p>SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 36" OBSERVED WATER: 36" RESTRICTIVE LAYER: 36" SOIL HYDROLOGIC GROUP: C</p>	<p><b>TEST PIT 73-7</b></p> <p>00 - 09" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE.</p> <p>09 - 17" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE.</p> <p>17 - 55" LIGHT OLIVE BROWN (2.5Y5/4) SAND; SINGLE GRAIN; MOIST, LOOSE.</p> <p>55 - 60" LIGHT OLIVE BROWN (2.5Y5/4) AND (2.5Y5/3) SAND; COMMON STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; SINGLE GRAIN; MOIST, LOOSE.</p> <p>SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: 55" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A</p>

**TRITECH**  
ENGINEERING CORPORATION

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SITE SPECIFIC SOILS, TEST PITS

**HAYES HILL**

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017  
JOB No. 16133

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TELEPHONE 603 748 8107  
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TEST PIT 73-8	TEST PIT 73-9	TEST PIT 73-10	TEST PIT 73-11	TEST PIT 73-12	TEST PIT 73-13	TEST PIT 73-14	TEST PIT 73-15	TEST PIT 73-16
00 - 10" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  10 - 24" STRONG BROWN (7.5YR5/8) SAND; SINGLE GRAIN; MOIST, LOOSE  24 - 26" BLACK (10YR2/1) SAND; STRONG MEDIUM BLOCKY STRUCTURE; MOIST, EXTREMELY FIRM  26 - 31" LIGHT OLIVE BROWN (2.5Y5/4) VERY STONY SAND; MANY STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS AND MANY GRAY (10YR6/1) REDOX DEPLETIONS; SINGLE GRAIN; WET, NON-STICKY, NON-PLASTIC  #48" REFUSAL - BOULDERS  SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 24" OBSERVED WATER: 36" RESTRICTIVE LAYER: 24" SOIL HYDROLOGIC GROUP: C	00 - 08" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  08 - 18" REDDISH BROWN (5YR4/4) SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  18 - 25" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  25 - 35" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; MANY STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; MANY GRAY (10YR6/1) REDOX DEPLETIONS; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  35 - 60" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; MANY STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; MANY GRAY (10YR6/1) REDOX DEPLETIONS; STRONG MEDIUM BLOCKY STRUCTURE; MOIST, FIRM  SERIES: SOTIJATE ESTIMATED SEASONAL HIGH WATER TABLE: 25" OBSERVED WATER: 30" RESTRICTIVE LAYER: 35" SOIL HYDROLOGIC GROUP: C	00 - 10" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  10 - 18" STRONG BROWN (7.5YR5/8) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  18 - 32" OLIVE BROWN (2.5Y4/4) LOAMY SAND; COMMON STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  32 - 60" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; MANY STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; MANY GRAY (10YR6/1) REDOX DEPLETIONS; STRONG MEDIUM BLOCKY STRUCTURE; MOIST, FIRM  SERIES: SOTIJATE ESTIMATED SEASONAL HIGH WATER TABLE: 18" OBSERVED WATER: 24" RESTRICTIVE LAYER: 18" SOIL HYDROLOGIC GROUP: C	00 - 06" DARK BROWN (10YR3/3) STONY SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  06 - 25" YELLOWISH RED (5YR4/6) STONY SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  25 - 31" LIGHT OLIVE BROWN (2.5Y5/4) STONY LOAMY SAND; MANY STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  31 - 60" LIGHT OLIVE BROWN (2.5Y5/4) STONY LOAMY SAND; MANY STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; COMMON GRAY (10YR6/1) REDOX DEPLETIONS; STRONG MEDIUM BLOCKY STRUCTURE; MOIST, FIRM  SERIES: SOTIJATE ESTIMATED SEASONAL HIGH WATER TABLE: 25" OBSERVED WATER: 28" RESTRICTIVE LAYER: 31" SOIL HYDROLOGIC GROUP: C	00 - 13" DARK BROWN (10YR4/3) STONY SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  13 - 18" STRONG BROWN (7.5YR5/8) STONY LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  18 - 22" YELLOWISH BROWN (10YR5/6) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  22 - 31" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; COMMON STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS, COMMON GRAY (10YR6/1) REDOX DEPLETIONS; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  31 - 60" STRONG BROWN (7.5YR5/8) GRAVELLY SAND; MANY RED (2.5YR4/6) REDOX CONCENTRATIONS; MANY MEDIUM AND FINE BLACK (10YR2/1) CONCRETIONS; SINGLE GRAIN; WET, NON-STICKY, NON-PLASTIC  SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 22" OBSERVED WATER: 30" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: C	00 - 09" DARK BROWN (10YR4/3) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  09 - 13" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE  13 - 24" LIGHT OLIVE BROWN (2.5Y5/4) SAND; SINGLE GRAIN; MOIST, LOOSE  24 - 60" LIGHT OLIVE BROWN (2.5Y5/3) SAND; COMMON STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS, COMMON GRAY (10YR6/1) REDOX DEPLETIONS, SINGLE GRAIN; MOIST, LOOSE TO 30" THEN WET, NON-STICKY, NON-PLASTIC  SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 24" OBSERVED WATER: 30" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: C	00 - 08" DARK BROWN (10YR3/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  08 - 27" LIGHT OLIVE BROWN (2.5Y5/4) SAND; SINGLE GRAIN; MOIST, LOOSE  27 - 60" LIGHT OLIVE BROWN (2.5Y5/4) SAND; MANY STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; SINGLE GRAIN; MOIST, LOOSE TO 35" THEN WET, NON-STICKY, NON-PLASTIC  SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 24" OBSERVED WATER: 30" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: C	00 - 08" DARK BROWN (10YR4/3) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  08 - 18" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE  18 - 48" YELLOWISH BROWN (10YR5/6) SAND; STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS, GRAY (10YR6/1) REDOX DEPLETIONS, BOTH INCREASING WITH DEPTH; SINGLE GRAIN; MOIST, LOOSE TO 20" THEN WET, NON-STICKY, NON-PLASTIC  SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 18" OBSERVED WATER: 20" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: C	00 - 09" DARK BROWN (10YR3/3) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  09 - 18" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  18 - 24" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE  24 - 28" LIGHT OLIVE BROWN (2.5Y5/4) SAND; SINGLE GRAIN; MOIST, LOOSE  28 - 60" LIGHT OLIVE BROWN (2.5Y5/4 & 5/3) SAND; STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS, GRAY (10YR6/1) REDOX DEPLETIONS; SINGLE GRAIN; MOIST, LOOSE TO 32" THEN WET, NON-STICKY, NON-PLASTIC  SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 28" OBSERVED WATER: 32" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: C
TEST PIT 73-17	TEST PIT 73-17D	TEST PIT CUL-DE-SAC (EAST)	TEST PIT CUL-DE-SAC (WEST)	TEST PIT 101	TEST PIT 102	TEST PIT 103	TEST PIT 104	TEST PIT 105
00 - 09" DARK BROWN (10YR3/3) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  09 - 24" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE  24 - 46" LIGHT OLIVE BROWN (2.5Y5/3) SAND; SINGLE GRAIN; MOIST, LOOSE  46 - 72" LIGHT OLIVE BROWN (2.5Y5/4) SAND; FEW STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; SINGLE GRAIN; MOIST, LOOSE  SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: 46" OBSERVED WATER: 50" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A	00 - 09" DARK BROWN (10YR3/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  09 - 21" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  21 - 31" LIGHT OLIVE BROWN (10YR5/4) SAND; SINGLE GRAIN; MOIST, LOOSE  31 - 39" LIGHT OLIVE BROWN (2.5Y5/4) SAND; FEW GRAYISH BROWN (2.5Y5/2) REDOX DEPLETIONS; SINGLE GRAIN; MOIST, LOOSE  39 - 60" OLIVE BROWN (2.5Y4/4) SAND; GRAY (10YR6/1) REDOX DEPLETIONS INCREASING WITH DEPTH; SINGLE GRAIN; MOIST, LOOSE TO 40" THEN WET, NON-STICKY, NON-PLASTIC  SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 31" OBSERVED WATER: 40" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: B	00 - 08" DARK BROWN (10YR3/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  08 - 22" YELLOWISH RED (5YR4/6) STONY LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  22 - 48" LIGHT OLIVE BROWN (2.5Y5/4) STONY LOAMY SAND; MANY STRONG BROWN (7.5YR5/8) AND YELLOWISH BROWN (10YR5/6) REDOX CONCENTRATIONS; MANY GRAY (10YR6/1) REDOX DEPLETIONS; LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; WET, NON-STICKY, NON-PLASTIC  SERIES: NEWFIELDS (INCLUSION IN SOTIJATE UNIT) ESTIMATED SEASONAL HIGH WATER TABLE: 22" OBSERVED WATER: 22" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: C	00 - 07" DARK BROWN (10YR3/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  07 - 19" YELLOWISH RED (5YR4/6) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  19 - 30" YELLOWISH RED (5YR4/6) VERY STONY SAND; MANY STRONG BROWN (7.5YR5/6) REDOX CONCENTRATIONS; MANY GRAY (10YR6/1) REDOX DEPLETIONS; SINGLE GRAIN; MOIST, LOOSE  30 - 48" LIGHT OLIVE BROWN (2.5Y5/4) VERY STONY LOAMY SAND; MANY STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS AND MANY GRAY (10YR6/1) REDOX DEPLETIONS; COMMON BLACK (10YR2/1) STAINS; MODERATE MEDIUM GRANULAR STRUCTURE; WET, NON-STICKY  #48" REFUSAL - BOULDERS  SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 19" OBSERVED WATER: 30" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: C	00 - 07" DARK YELLOWISH BROWN (10YR4/4) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  07 - 18" DARK YELLOWISH BROWN (10YR4/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  18 - 96" YELLOWISH BROWN (10YR5/4) SAND; SINGLE GRAIN; MOIST, LOOSE  SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: >96" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A	00 - 03" VERY DARK GRAYISH BROWN (2.5Y3/2) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  03 - 10" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  10 - 15" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE  15 - 24" MIXED OLIVE BROWN (2.5Y4/4 AND YELLOWISH BROWN (10YR5/6) FINE SANDY LOAM; MANY GRAY (10YR6/1) REDOX DEPLETIONS; MODERATE MEDIUM GRANULAR STRUCTURE  24 - 36" BLACK (10YR2/1) FINE SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  36 - 42" GRAY (10YR6/1) SAND; SINGLE GRAIN; WET, NON-STICKY, NON-PLASTIC  SERIES: RECENT ILLUVIUM OVER NAUMBURG ESTIMATED SEASONAL HIGH WATER TABLE: 15" OBSERVED WATER: 36" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: C	00 - 07" DARK BROWN (10YR4/3) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  07 - 14" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  14 - 26" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE  26 - 59" YELLOWISH BROWN (10YR5/4) SAND STRATIFIED WITH THIN HORIZONTAL LAYERS OF STRONG BROWN (7.5YR5/8) SAND; SINGLE GRAIN; MOIST, LOOSE  59 - 96" YELLOWISH BROWN (10YR5/4) SAND; SINGLE GRAIN; MOIST, LOOSE  SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: >96" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A	BOULDERS ON SURFACE  00 - 10" DARK BROWN (10YR4/3) STONY SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  10 - 25" STRONG BROWN (7.5YR4/6) STONY SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  25 - 36" YELLOWISH BROWN (10YR5/6) SANDY LOAM; FEW STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  36 - 66" YELLOWISH BROWN (10YR5/6) STONY LOAMY SAND; MANY STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS; COMMON GRAY (10YR6/1) REDOX DEPLETIONS; STRONG MEDIUM BLOCKY STRUCTURE; MOIST, FIRM  SERIES: SOTIJATE ESTIMATED SEASONAL HIGH WATER TABLE: 25" OBSERVED WATER: 36" RESTRICTIVE LAYER: 36" SOIL HYDROLOGIC GROUP: C	00 - 09" DARK BROWN (10YR4/3) FINE SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  09 - 18" STRONG BROWN (7.5YR5/6) SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  18 - 33" YELLOWISH BROWN (10YR5/6) SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  33 - 60" LIGHT OLIVE BROWN (2.4Y5/4) SANDY LOAM PARTING TO LOAMY SAND; STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS AND GRAY (10YR6/1) REDOX DEPLETIONS INCREASING WITH DEPTH; STRONG MEDIUM BLOCKY STRUCTURE; MOIST, FIRM  SERIES: SOTIJATE ESTIMATED SEASONAL HIGH WATER TABLE: 33" OBSERVED WATER: 33" RESTRICTIVE LAYER: 33" SOIL HYDROLOGIC GROUP: C
TEST PIT 106	TEST PIT 107	TEST PIT 108	TEST PIT 109	TEST PIT 110	TEST PIT 111	TEST PIT 112	TEST PIT 73-18D	TEST PIT AT ROAD STA D+50
00 - 12" DARK BROWN (10YR3/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  12 - 27" DARK YELLOWISH BROWN (10YR3/6) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  27 - 54" OLIVE BROWN (2.5Y4/3) LOAMY SAND; BOULDER AND STONY AT 35"; MANY STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS AND GRAY (10YR6/1) REDOX DEPLETIONS; STRONG MEDIUM BLOCKY STRUCTURE; MOIST, FIRM  SERIES: SOTIJATE ESTIMATED SEASONAL HIGH WATER TABLE: 27" OBSERVED WATER: NONE RESTRICTIVE LAYER: 27" SOIL HYDROLOGIC GROUP: C	00 - 07" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  07 - 22" YELLOWISH BROWN (10YR5/6) SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  22 - 30" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  30 - 60" LIGHT OLIVE BROWN (2.4Y5/4) LOAMY SAND; STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS AND GRAY (10YR6/1) REDOX DEPLETIONS; STRONG MEDIUM BLOCKY STRUCTURE; MOIST, FIRM  SERIES: SOTIJATE ESTIMATED SEASONAL HIGH WATER TABLE: 30" OBSERVED WATER: NONE RESTRICTIVE LAYER: 30" SOIL HYDROLOGIC GROUP: C	00 - 10" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  10 - 31" YELLOWISH BROWN (7.5YR5/8) SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  31 - 37" LIGHT OLIVE BROWN (2.5Y5/4) LOAMY SAND; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  37 - 60" LIGHT OLIVE BROWN (2.4Y5/4) LOAMY SAND; STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS AND GRAY (10YR6/1) REDOX DEPLETIONS; STRONG MEDIUM BLOCKY STRUCTURE; MOIST, FIRM  SERIES: SOTIJATE ESTIMATED SEASONAL HIGH WATER TABLE: 37" OBSERVED WATER: 37" RESTRICTIVE LAYER: 37" SOIL HYDROLOGIC GROUP: C	00 - 10" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  10 - 36" YELLOWISH BROWN (7.5YR5/8) SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  36 - 60" LIGHT OLIVE BROWN (2.4Y5/4) LOAMY SAND; STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS AND GRAY (10YR6/1) REDOX DEPLETIONS; STRONG MEDIUM BLOCKY STRUCTURE; MOIST, FIRM  SERIES: SOTIJATE ESTIMATED SEASONAL HIGH WATER TABLE: 36" OBSERVED WATER: NONE RESTRICTIVE LAYER: 36" SOIL HYDROLOGIC GROUP: C	00 - 10" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  10 - 32" YELLOWISH BROWN (7.5YR5/8) SANDY LOAM; MODERATE MEDIUM GRANULAR STRUCTURE; MOIST, FRIABLE  32 - 60" LIGHT OLIVE BROWN (2.4Y5/4) LOAMY SAND; STRONG BROWN (7.5YR5/8) REDOX CONCENTRATIONS AND GRAY (10YR6/1) REDOX DEPLETIONS; STRONG MEDIUM BLOCKY STRUCTURE; MOIST, FIRM  SERIES: SOTIJATE ESTIMATED SEASONAL HIGH WATER TABLE: 32" OBSERVED WATER: NONE RESTRICTIVE LAYER: 32" SOIL HYDROLOGIC GROUP: C	00 - 04" DARK BROWN (10YR4/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  04 - 20" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  20 - 30" LIGHT OLIVE BROWN (10YR5/4) SAND; SINGLE GRAIN; MOIST, LOOSE  30 - 66" LIGHT OLIVE BROWN (2.5Y5/4) BOULDER SAND; FEW GRAYISH BROWN (2.5Y5/2) REDOX DEPLETIONS; SINGLE GRAIN; MOIST, LOOSE  SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 30" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: B	00 - 12" DARK BROWN (10YR3/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  12 - 17" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  17 - 34" LIGHT OLIVE BROWN (10YR5/4) SAND; SINGLE GRAIN; MOIST, LOOSE  34 - 60" LIGHT OLIVE BROWN (2.5Y5/4) SAND; FEW GRAYISH BROWN (2.5Y5/2) REDOX DEPLETIONS; SINGLE GRAIN; MOIST, LOOSE  #30" REFUSAL MAY BE BEDROCK OR BOULDER - COULD NOT DETERMINE WITH SMALL EXCAVATOR  SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 34" OBSERVED WATER: NONE RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: B	00 - 07" DARK BROWN (10YR3/3) SANDY LOAM; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  07 - 15" YELLOWISH BROWN (10YR5/6) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  15 - 30" YELLOWISH BROWN (10YR5/6) LOAMY SAND; DIFFICULT TO IDENTIFY REDOX FEATURES AND SOIL STRUCTURE DUE TO WETNESS; WET, NON-STICKY, NON-PLASTIC  SERIES: DEERFIELD ESTIMATED SEASONAL HIGH WATER TABLE: 15" OBSERVED WATER: 15" RESTRICTIVE LAYER: NONE REFUSAL: 30" SOIL HYDROLOGIC GROUP: B	00 - 10" DARK BROWN (10YR3/3) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, FRIABLE  10 - 30" LIGHT OLIVE BROWN (10YR4/3) LOAMY SAND; WEAK FINE GRANULAR STRUCTURE; MOIST, LOOSE  30 - 84" YELLOWISH BROWN (10YR5/6) SAND; SINGLE GRAIN; MOIST, LOOSE  84 - 108" LIGHT OLIVE BROWN (2.5Y5/4) SAND; FEW REDOX DEPLETIONS AND CONCENTRATIONS; SINGLE GRAIN; WET, NON-STICKY, NON-PLASTIC  SERIES: WINDSOR ESTIMATED SEASONAL HIGH WATER TABLE: 84" OBSERVED WATER: 84" RESTRICTIVE LAYER: NONE SOIL HYDROLOGIC GROUP: A

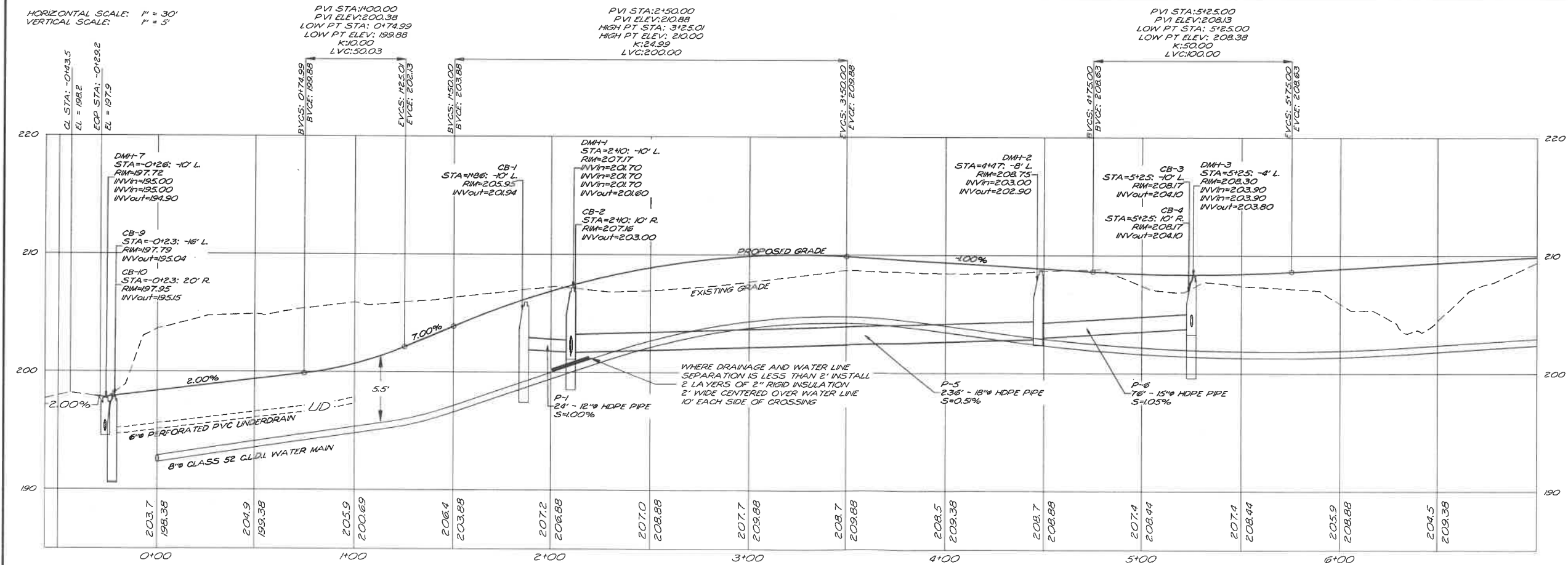
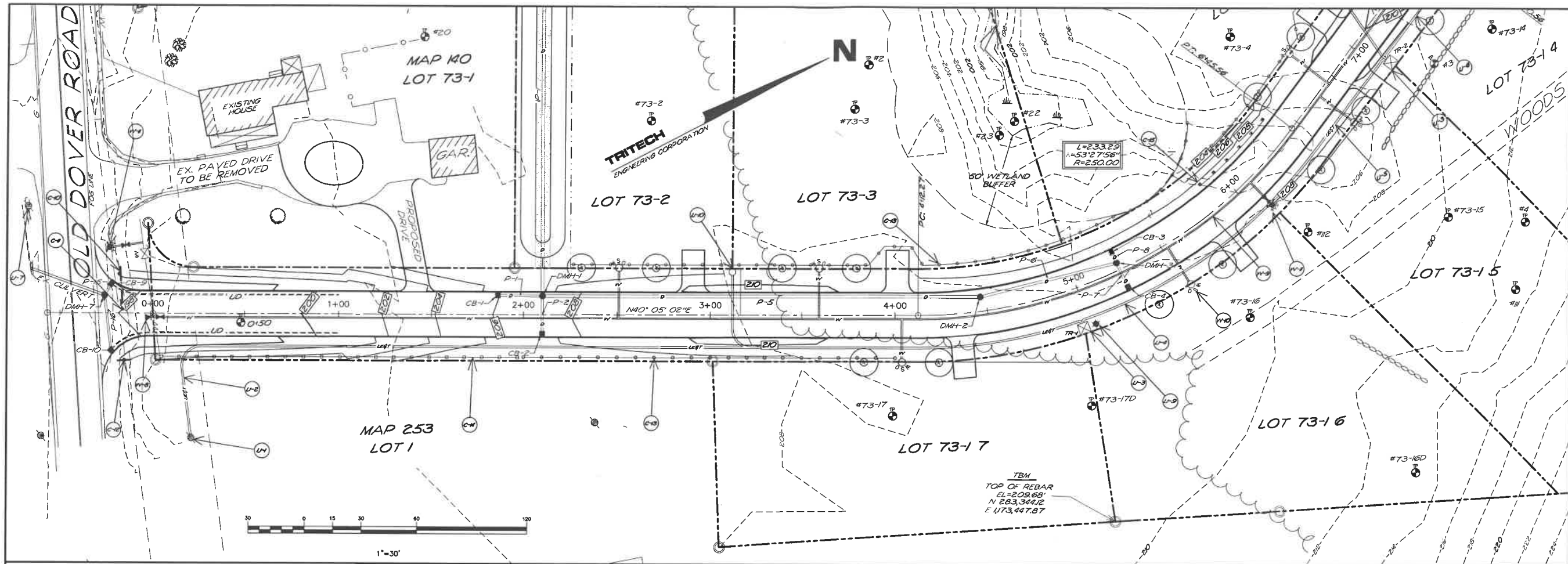
**TRITECH**  
ENGINEERING CORPORATION

765 CENTRAL AVENUE  
DOVER, NEW HAMPSHIRE 03820  
TELEPHONE 603 748 8007  
FAX 603 748 3880

REVISIONS  
DATE:

SITE SPECIFIC SOILS, TEST PITS  
**HAYES HILL**  
OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017  
JOB No. 16133

SHEET NO. **SSS-4**



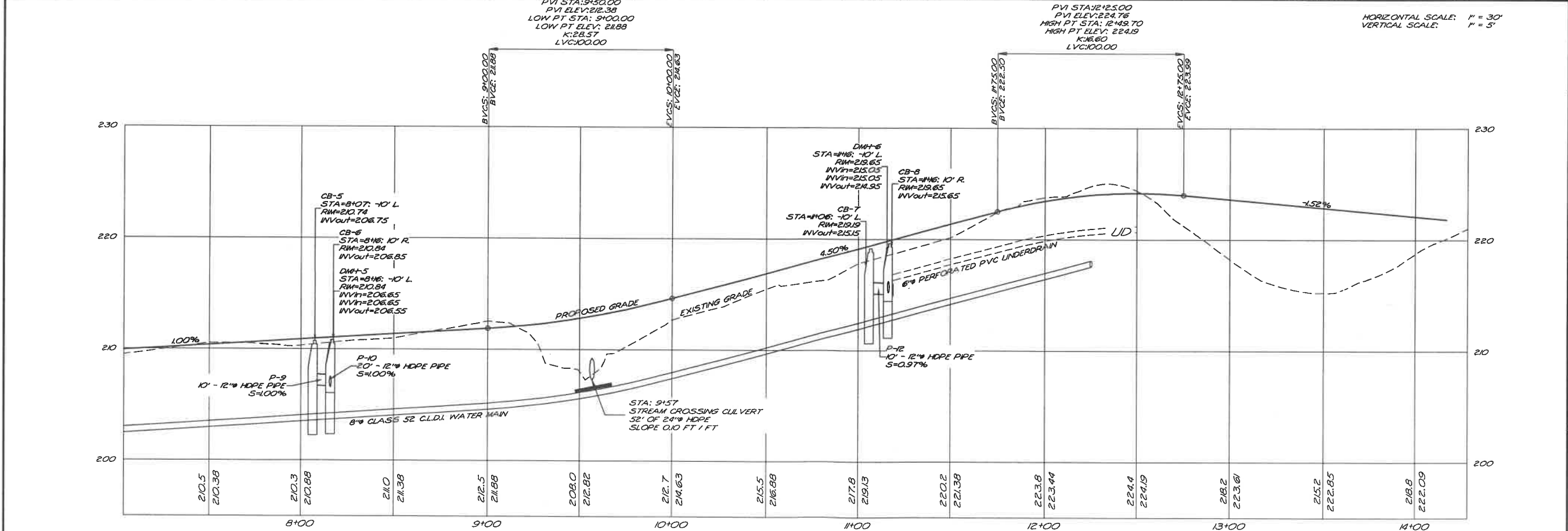
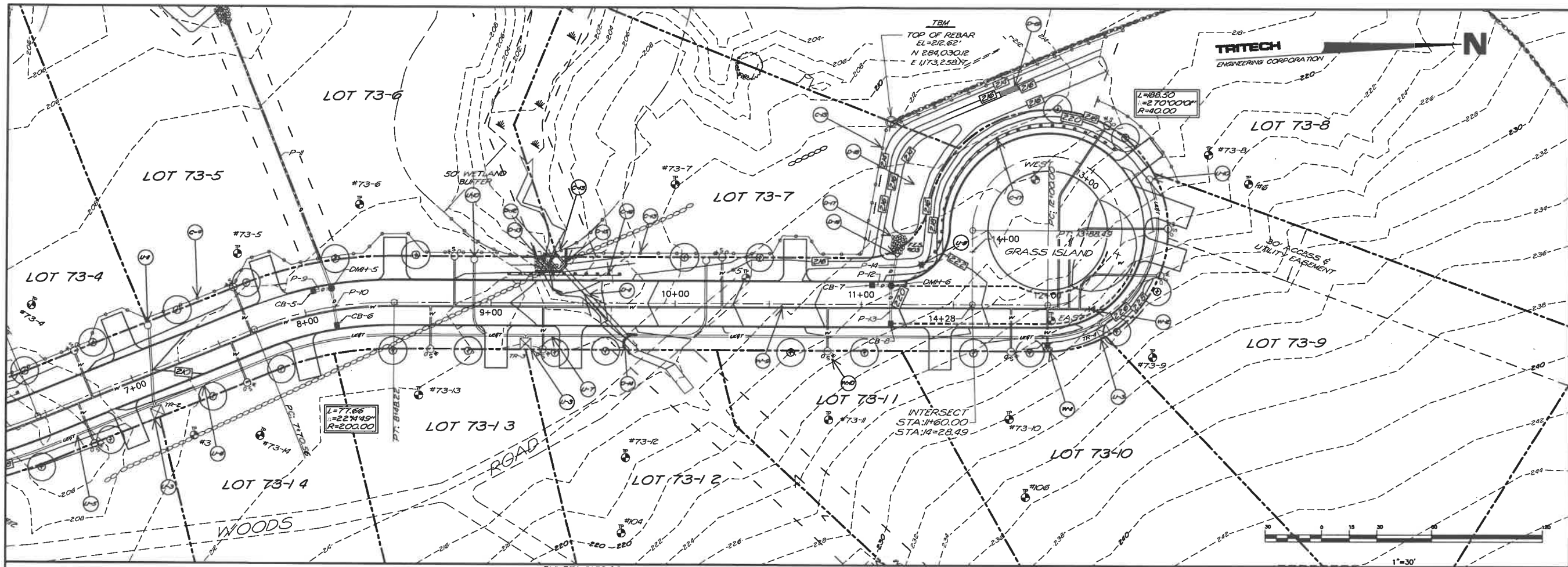
**TRITECH**  
ENGINEERING CORPORATION

REVISIONS  
DATE: DESCRIPTION:

ROADWAY PLAN & PROFILE  
**HAYES HILL**  
OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017 JOB No. 16133  
SCALE: 1" = 30'

SHEET NO.  
**C-1**

755 CENTRAL AVENUE  
DOVER, NEW HAMPSHIRE 03830  
TELEPHONE 603 742 8007  
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**TRITECH**  
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765 CENTRAL AVENUE  
DOVER, NEW HAMPSHIRE 03830  
TELEPHONE 603 742 8107  
FAX 603 742 3680

REVISIONS  
DATE: \_\_\_\_\_

DESCRIPTION:

SHEET NO. **C-2**

ROADWAY PLAN & PROFILE  
**HAYES HILL**  
OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017 JOB No. 16133  
SCALE: 1" = 30'



DRAINAGE STRUCTURE TABLE				
STRUCTURE	RIM ELEV.	INVERT IN	INVERT OUT	SUMP
CB-1	205.95		201.94	197.94
CB-2	207.16		203.00	199.00
CB-3	208.17		204.10	200.10
CB-4	208.17		204.10	200.10
CB-5	210.74		206.75	202.75
CB-6	210.84		206.85	202.85
CB-7	219.19		215.15	211.15
CB-8	219.65		215.65	211.65
CB-9	197.79		195.04	191.04
CB-10	197.95		195.15	191.15
DMH-1	207.17	201.70 (P-2) 201.70 (P-1) 201.70 (P-5)	201.60	201.60
DMH-2	208.75	203.00 (P-6)	202.90	202.90
DMH-3	208.30	203.90 (P-7) 203.90 (P-8)	203.80	203.80
DMH-4	206.36	201.45 (P-1)	204.30	199.45
DMH-5	210.84	206.65 (P-10) 206.65 (P-9)	206.55	206.55
DMH-6	219.65	215.05 (P-13) 215.05 (P-12)	214.95	214.95
DMH-7	197.72	195.00 (P-15) 195.00 (P-16)	194.90	194.90
F.E.S. #101		204.31 (P-11)		
F.E.S. #102		199.04 (P-4)		
F.E.S. #103		215.00 (P-14)		

- C-1 CONSTRUCTION NOTES:**
- ALL CONSTRUCTION SHALL CONFORM WITH THE 2010 STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS".
  - THE CONTRACTOR IS REQUIRED UNDER NEW HAMPSHIRE LAW TO CONTACT "DIG SAFE" AT 1-888-344-7233, 72 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN THE "DIG SAFE" LOCATIONS THROUGH OUT THE DURATION OF THE PROJECT.
  - AS-BUILT PLANS OF THE SITE SHALL BE SUBMITTED ON A REPRODUCIBLE MYLAR MEDIUM AND IN A DIGITAL DXF FORMAT TO THE CITY OF ROCHESTER ENGINEER'S OFFICE UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED CORRECT BY A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER.
  - A PRE-CONSTRUCTION MEETING WITH THE CITY, THE ENGINEER, THE APPLICANT, AND THE APPLICANTS SITE CONTRACTOR SHALL OCCUR PRIOR TO ANY SITE WORK COMMENCING.
  - ALL DISTURBED AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION BY THE IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PRACTICES WHICH ARE GIVEN IN DETAIL 12, SHEET C-8. INSTALL TEMPORARY SILT FENCE PRIOR TO ANY EARTHWORK ACTIVITIES PER DETAIL 2, SHEET C-8.
  - INSTALL STABILIZED CONSTRUCTION ENTRANCE AT PROJECT ENTRANCE, PER DETAIL 10, SHEET C-8.
  - INSTALL SLOPED GRANITE CURB PER DETAIL 3, SHEET C-8.
  - ACCESS INTO THE SITE FOR FIRE APPARATUS MUST BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PROCESS. THIS IS THE SOLE RESPONSIBILITY OF THE APPLICANT/DEVELOPER TO MAINTAIN THIS ACCESS. PLEASE CONTACT THE FIRE DEPARTMENT AT 330-7182 WITH ANY QUESTIONS ABOUT ASSESS REQUIREMENTS.
  - PRIOR TO THE START OF CONSTRUCTION, AN ORANGE CONSTRUCTION FENCE OR ORANGE SILT FENCE MUST BE PLACED AT WETLANDS UNDER 1/2 ACRE IN SIZE, THE WETLAND BUFFER AND THE LIMITS OF CLEARING.
  - INSTALL STOP SIGN IN ACCORDANCE WITH THE 2010 STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".
  - INSTALL 18" STOP BAR IN ACCORDANCE WITH THE 2010 STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".
  - INSTALL STREET SIGN "HAYES HILL ROAD" IN ACCORDANCE WITH THE CITY OF ROCHESTER DEPARTMENT OF PUBLIC WORKS.
  - INSTALL SILT SOCK, SEE DETAIL 11, SHEET C-8, WITH ORANGE CONSTRUCTION FENCE SEE DETAIL 2, SHEET C-8.
  - INSTALL ORANGE CONSTRUCTION FENCE
  - INSTALL 50' OF GUARD RAIL FROM STA 5+90 TO STA 6+40. SEE DETAIL 3, SHEET C-7.
  - INSTALL 60' OF GUARD RAIL FROM STA 9+10 TO STA 9+70. SEE DETAIL 3, SHEET C-7.
  - INSTALL 100' OF GUARD RAIL FROM STA 13+00 TO STA 14+00. SEE DETAIL 3, SHEET C-7.

DRAIN PIPE TABLE							
PIPE	START	INV.	END	INV.	SIZE	L.F.	SLOPE
EX. CULVERT	DMH-7	194.90		194.50	12"	42'	0.96%
IP-1	P-3	201.45	DMH-4	201.45	18"	186'	0.00%
P-1	CB-1	201.94	DMH-1	201.70	12"	24'	1.00%
P-2	CB-2	203.00	DMH-1	201.70	12"	20'	6.40%
P-3	DMH-1	201.60		201.45	18"	15'	1.00%
P-4	DMH-4	204.30		199.04	12"	83'	6.34%
P-5	DMH-2	202.90	DMH-1	201.70	18"	236'	0.5%
P-6	DMH-3	203.80	DMH-2	203.00	15"	76'	1.05%
P-7	CB-4	204.10	DMH-3	203.90	12"	14'	1.40%
P-8	DMH-3	203.90	CB-3	204.10	12"	6'	3.16%
P-9	CB-5	206.75	DMH-5	206.65	12"	10'	1.00%
P-10	CB-6	206.85	DMH-5	206.65	12"	20'	1.00%
P-11	DMH-5	206.55		204.31	12"	153'	1.47%
P-12	DMH-6	215.05	CB-7	215.15	12"	10'	0.97%
P-13	CB-8	215.65	DMH-6	215.05	12"	20'	2.96%
P-14	DMH-6	214.95		215.00	12"	16'	-0.34%
P-15	DMH-7	195.00	CB-9	195.04	12"	7'	0.50%
P-16	DMH-7	195.00	CB-10	195.15	12"	30'	0.50%
STREAM-CROSSING-CULVERT		209.57		204.90	24"	52'	9.00%

- W-1 WATER NOTES:**
- PRIOR TO WATER SYSTEM CONSTRUCTION A PERMIT SHALL BE OBTAINED FROM THE CITY OF ROCHESTER DPW.
  - ALL WATER SYSTEM TESTING SHALL BE IN ACCORDANCE WITH THE CITY OF ROCHESTER "STANDARDS OF INFRASTRUCTURE DESIGN".
  - WATERLINE AND APPENDITURES, INSTALLATION, AND MATERIALS SHALL CONFORM WITH THE CITY OF ROCHESTER, N.H. AND AMERICAN WATER WORKS STANDARDS. ALL VALVES SHALL REQUIRE RESTRAINED MECHANICAL JOINTS USING EITHER MEGA-LUG, GRIP RINGS, OR OTHER METHODS OF RESTRAIN ACCEPTABLE TO THE CITY OF ROCHESTER WATER DEPARTMENT, IN ADDITION TO USE OF CONCRETE THRUST BLOCKS.
  - PRESSURE AND LEAKAGE TEST SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST STANDARDS OF AAWA. CHLORINATING AND FLUSHING SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST STANDARDS OF AAWA, STATE AND LOCAL REGULATIONS.
  - INSTALL BACKFLOW PREVENTER FOR ALL WATER SERVICES.
  - DOMESTIC WATER AND LANDSCAPING WATER MAY BE METERED SEPARATELY.
  - INSTALL CONCRETE THRUST BLOCKS WHERE SHOWN. SEE DETAIL 6, SHEET C-7
  - INSTALL 8" TAPPING SLEEVE WITH 8" GATE VALVE AND THRUST BLOCK. ONLY APPROVED CONTRACTORS (BY THE CITY OF ROCHESTER DPW) ARE ALLOWED TO CONDUCT A TAP ON THE EXISTING WATER MAIN.
  - INSTALL 1,225' - 8" CONCRETE LINED DUCTILE IRON CLASS 52 (C.L.D.I.) WATER MAIN WITH POLYWRAP. MINIMUM DEPTH OF COVER OVER PIPE = 5.5'. FROM STATION 0+00 TO 12+25.
  - INSTALL 1" TYPE "K" COPPER OR APPROVED EQUAL WATER SERVICE. MINIMUM DEPTH OF COVER OVER PIPE = 5.5'.
  - INSTALL HYDRANT AND GATE VALVE (AMERICAN DARLING OR KENNEDY) PER CITY REQUIREMENTS, SEE DETAIL 5, SHEET C-7
  - INSTALL 69 END CAP WITH THRUST BLOCK.

- U-1 UTILITY NOTES:**
- EXISTING POLE, TO REMAIN AS RISER POLE.
  - INSTALL 530 FT OF UNDERGROUND CONDUIT IN ACCORDANCE WITH PSNH STANDARDS & DETAIL 12, SHEET C-10 FROM RISER POLE TO TRANSFORMER 1 (TR-1).
  - INSTALL TRANSFORMER AND CONCRETE PAD (SUITABLE FOR A 100 KW TRANSFORMER), IN ACCORDANCE WITH PSNH STANDARDS.
  - INSTALL 220 FT OF UNDERGROUND CONDUIT IN ACCORDANCE WITH PSNH STANDARDS & DETAIL 12, SHEET C-10 FROM TRANSFORMER NUMBER 1 (TR-1) TO TRANSFORMER NUMBER 2 (TR-2).
  - INSTALL 205 FT OF UNDERGROUND CONDUIT IN ACCORDANCE WITH PSNH STANDARDS & DETAIL 12, SHEET C-10 FROM TRANSFORMER NUMBER 2 (TR-2) TO TRANSFORMER NUMBER 3 (TR-3).
  - INSTALL 310 FT OF UNDERGROUND CONDUIT IN ACCORDANCE WITH PSNH STANDARDS & DETAIL 12, SHEET C-10 FROM TRANSFORMER NUMBER 3 (TR-3) TO TRANSFORMER NUMBER 4 (TR-4).
  - EXISTING POLE WITH PSNH COBRA STYLE LIGHT.
  - INSTALL CONDUIT FOR UNDERGROUND UTILITIES, CABLE INSTALLED BY OTHERS. COORDINATE LOCATION & SIZE WITH INDIVIDUAL UTILITY.
  - INSTALL CONCRETE POLE BASE AND LIGHTS WHERE SHOWN (2). LIGHTS SHALL BE MOUNTED 15' ABOVE FINISH GRADE. SUN VALLEY LIGHTING 250 WATT SIGMA 1 LED. SEE DETAIL 4 & 5, SHEET C-10. LIGHTS TO BE BACK SHIELDED TO DIRECT LIGHT FORWARD.
  - INSTALL JUNCTION BOX PER EVERSOURCE REQUIREMENTS.

- D-1 DRAINAGE NOTES**
- INSTALL FES 101 @ ELEV = 204.31. SEE DETAIL 10 SHEET C-9
  - INSTALL RIP-RAP PER DETAIL 9 SHEET C-9  
Wo=3', We=10', Lo=10', D=6", D50=2.5"
  - INSTALL BIORETENTION BASIN AREA #1
  - CONSTRUCT 10' WIDE SPILLWAY IN BERM @ ELEVATION 203.50'.
  - INSTALL RIP-RAP PER DETAIL 9 SHEET C-9  
Wo=10', We=10', Lo=10', D=6", D50=3".
  - CONSTRUCT 300± LONG SWALE  
BOTTOM = 4'. 3 TO 1 SIDE SLOPES, MIN. DEPTH = 1.5'  
SLOPE = 0.01 FT/FT, INVERT @ START = 242.0', TO INVERT @ END = 239.0'
  - CONSTRUCT 10' WIDE SPILLWAY IN BERM @ ELEVATION 239.50'.
  - INSTALL FES 101 @ ELEV = 199.04. SEE DETAIL 10 SHEET C-9
  - INSTALL RIP-RAP PER DETAIL 9 SHEET C-9  
Wo=3', We=10', Lo=10', D=6", D50=2.5"
  - CONSTRUCT 20' LONG LEVEL SPREADER PER DETAIL 11, SHEET C-9  
CHANNEL ELEVATION = 195.50  
LIP ELEVATION = 196.00'
  - INSTALL STREAM CROSSING CULVERT.  
24" Ø HDPE, L=52', SLOPE=0.1 FT/FT  
INVERT IN EL = 209.56  
INVERT OUT EL = 204.90
  - CONSTRUCT PLUNGE POOL PER DETAIL 7 SHEET C-10
  - INSTALL RIP-RAP ON 1 TO 1 SLOPE AS SHOWN, SEE DETAIL 9, SHEET C-9  
D=6", D50=2"
  - INSTALL PRE-CAST HEADWALL PER DETAIL 1 SHEET C-10
  - INSTALL READY ROCK RETAINING WALL/HEADWALL
  - INSTALL FES 103 @ ELEV = 215.00. SEE DETAIL 10 SHEET C-9
  - INSTALL RIP-RAP PER DETAIL 9 SHEET C-9  
Wo=3', We=10', Lo=10', D=6", D50=2.5"
  - INSTALL BIORETENTION BASIN AREA #2
  - CONSTRUCT 10' WIDE SPILLWAY IN BERM @ ELEVATION 215.50'.

**TRITECH**  
ENGINEERING CORPORATION

REVISIONS  
DATE: DESCRIPTION:

CONSTRUCTION NOTES

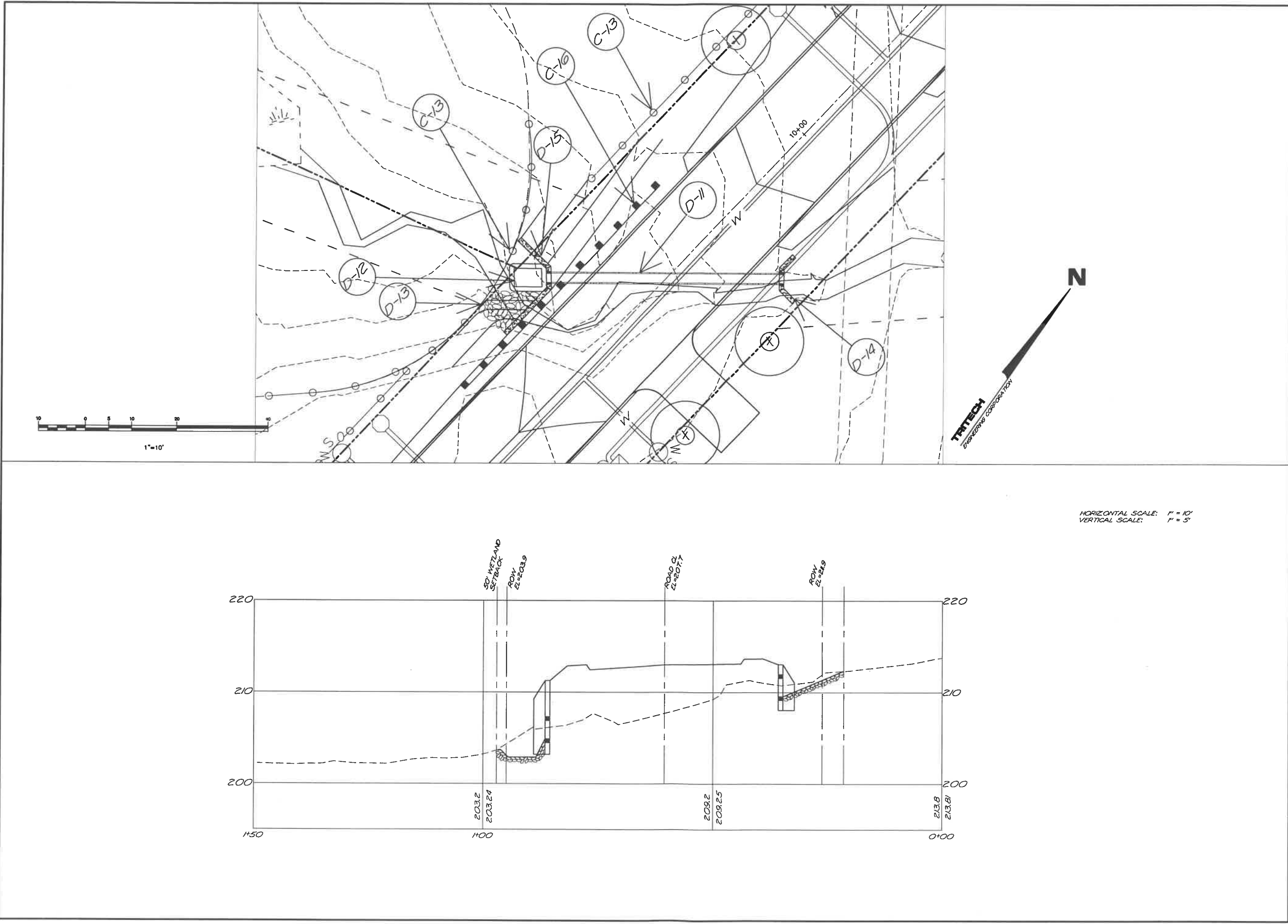
**HAYES HILL**

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017  
JOB No. 16133  
SCALE: 1" = 10'

SHEET NO.

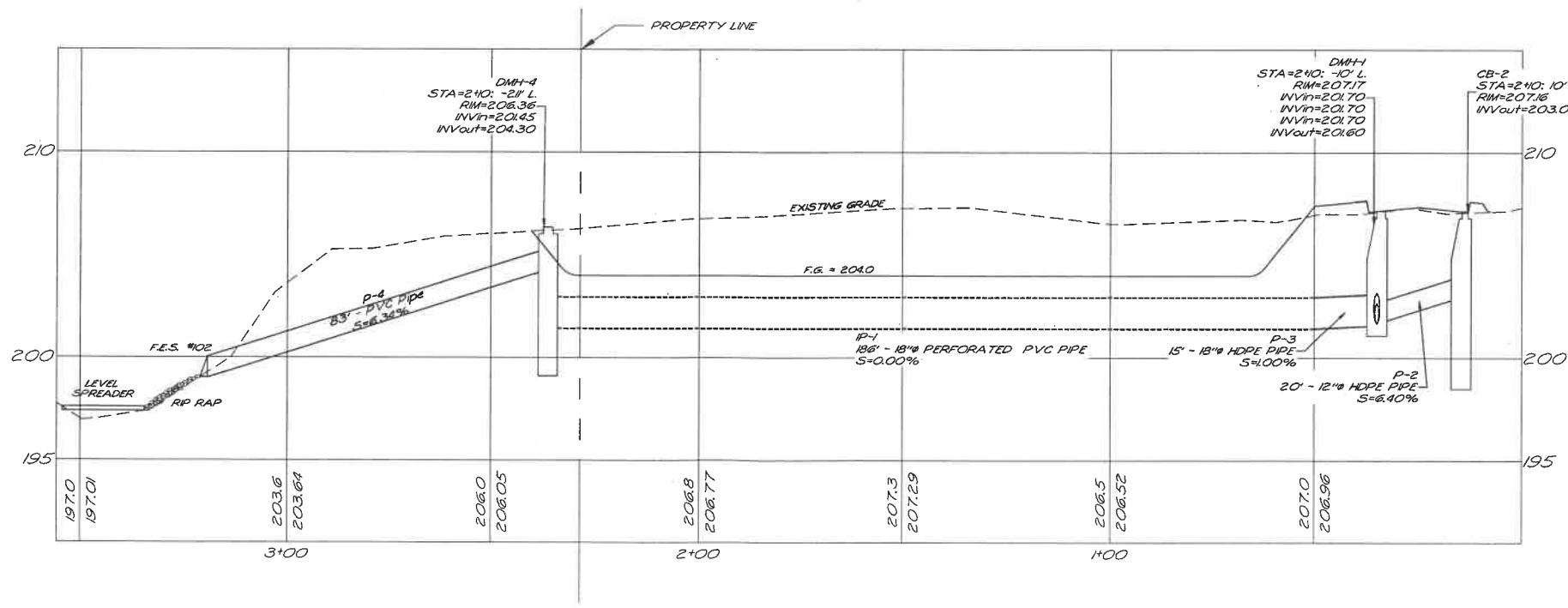
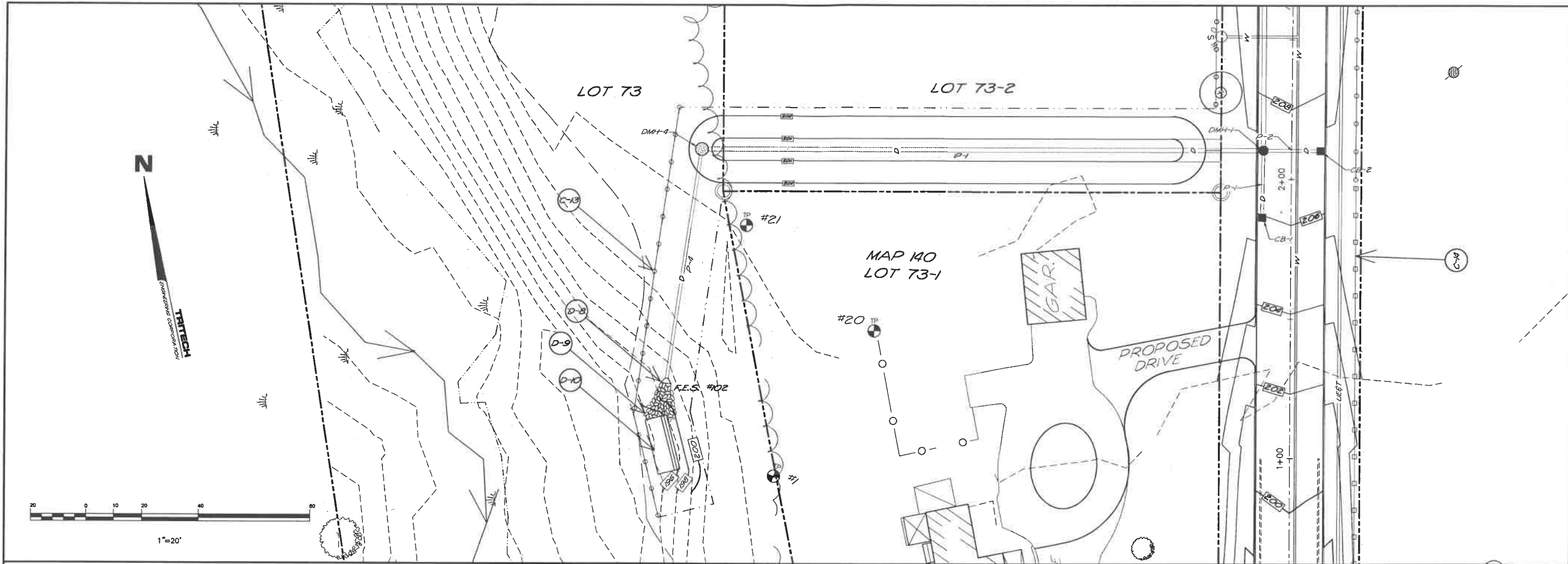
**C-3**

755 CENTRAL AVENUE  
DOVER, NEW HAMPSHIRE 03820  
TELEPHONE 603 748 8007  
FAX 603 748 3630



<b>SHEET NO.</b>  <b>C-4</b>	<b>STREAM CROSSING PLAN &amp; PROFILE</b>  <b>HAYES HILL</b>  OLD DOVER ROAD ROCHESTER, NEW HAMPSHIRE NOVEMBER 7, 2017      JOB No. 16133 SCALE: 1" = 10'		<table border="1"><tr><th>REVISIONS</th><th>DATE</th><th>DESCRIPTION</th></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></table>		REVISIONS	DATE	DESCRIPTION																			<b>TRITECH</b> ENGINEERING CORPORATION  785 CENTRAL AVENUE DOVER, NEW HAMPSHIRE 03820 TELEPHONE 603 742 8107 FAX 603 742 3530
	REVISIONS	DATE	DESCRIPTION																							





HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'

SHEET NO.

**C-5**

INFILTRATION PRACTICE (IP-#) PLAN

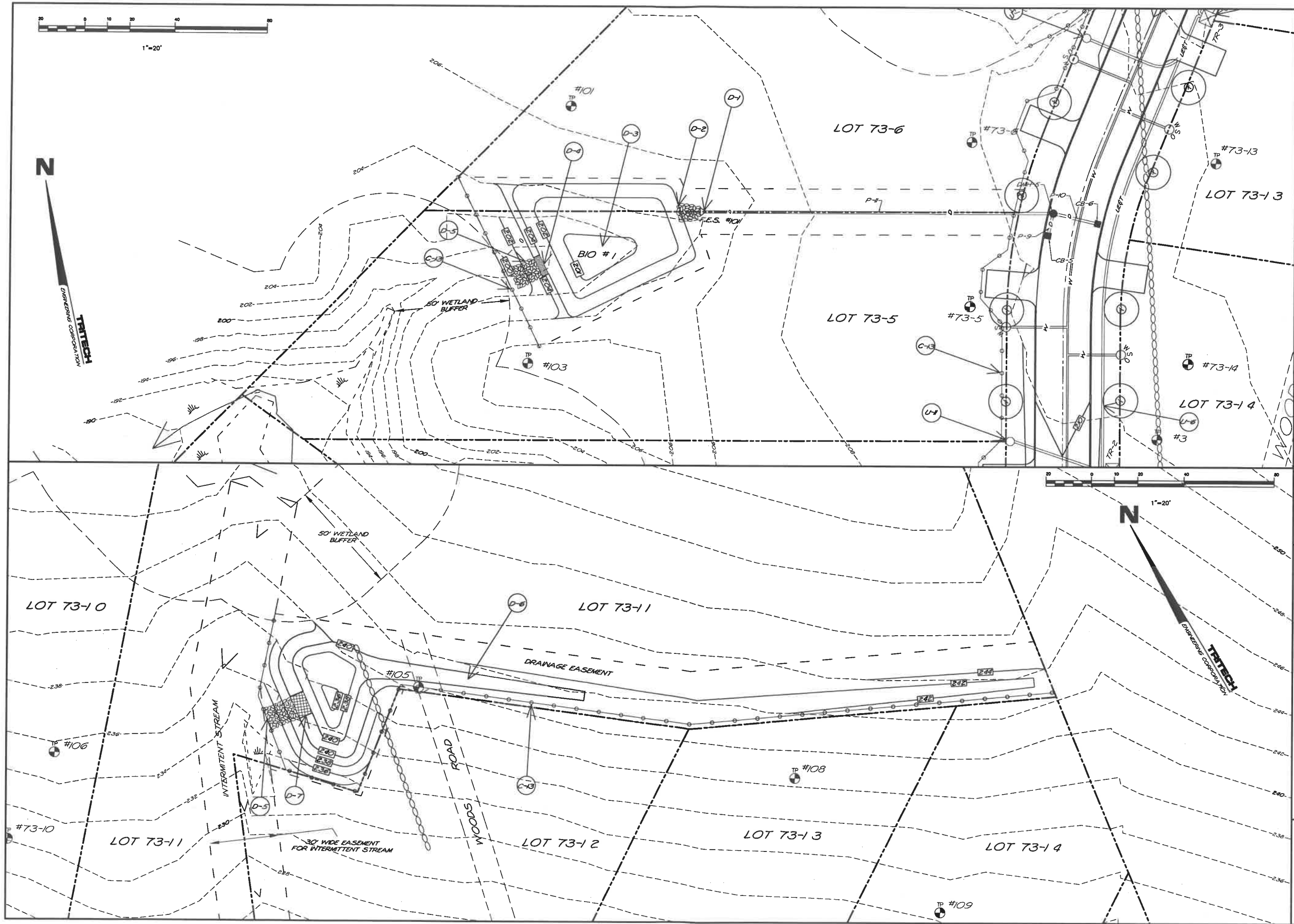
**HA YES HILL**

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017 JOB No. 16133  
SCALE: 1" = 20'

REVISIONS  
DATE: DESCRIPTION:

**TRITECH**  
ENGINEERING CORPORATION

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TELEPHONE 803 748 8007  
FAX 803 748 9830

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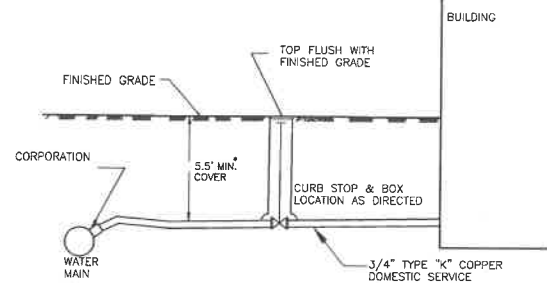
CROSS COUNTRY DRAINAGE PLAN

**HA YES HILL**

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017 JOB No. 16133  
SCALE: 1" = 20'

SHEET NO.

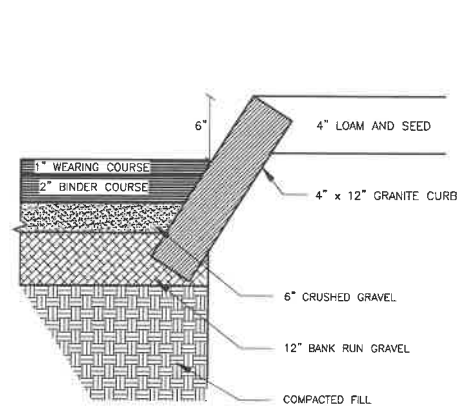
**C-6**



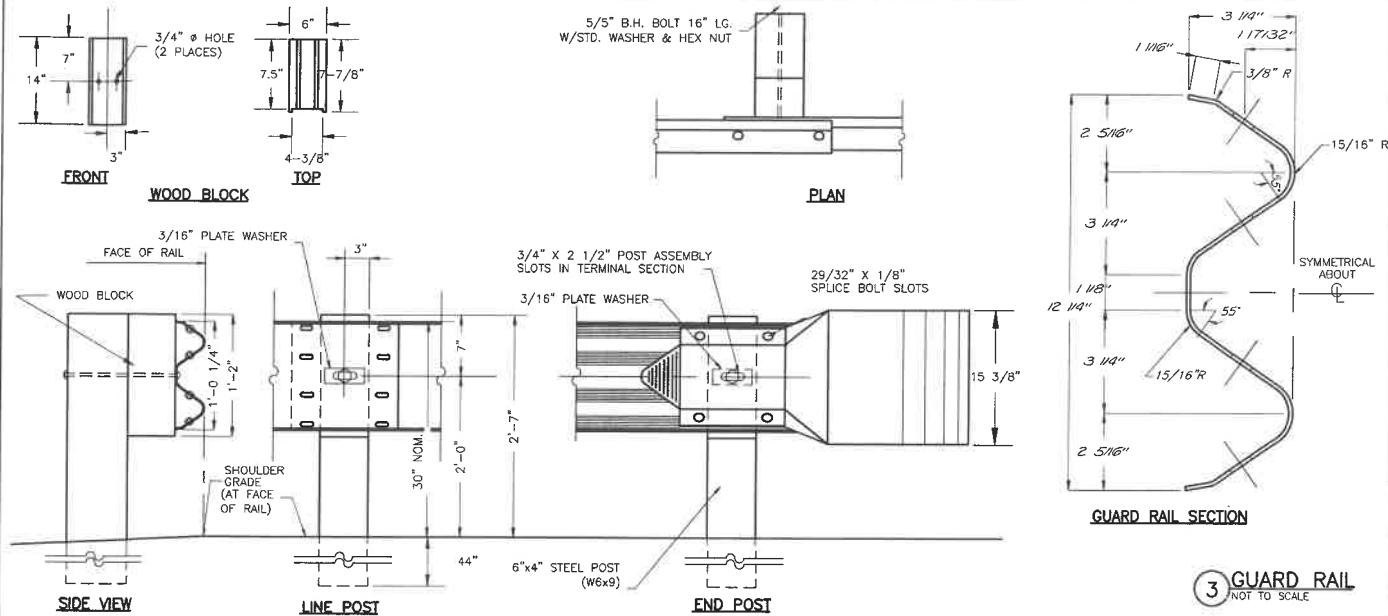
#### NOTES:

- 1.) SERVICE TO BE TYPE "K" COPPER OR EQUAL, APPROVED BY LOCAL AND STATE SPECIFICATIONS.
- 2.) BALL VALVE CURB STOP COMPRESSION (NO DRAIN)

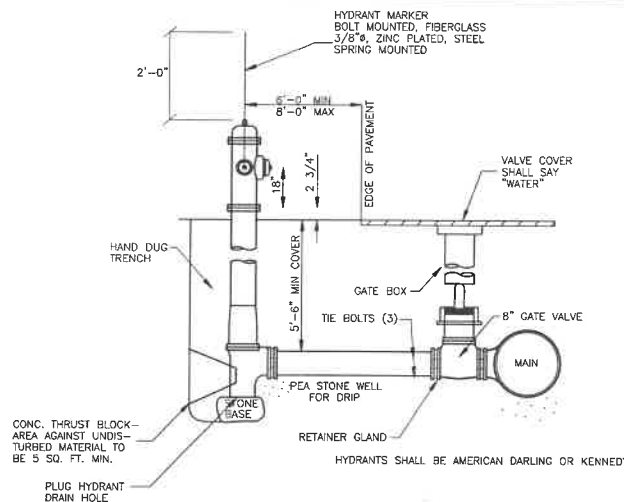
1 BUILDING WATER SERVICE  
NOT TO SCALE



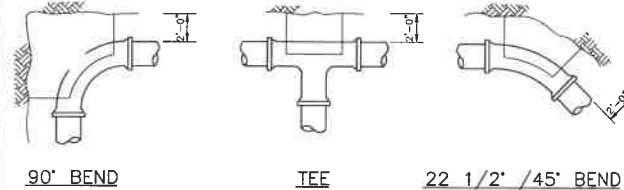
2 SLOPED GRANITE CURB SECTION  
NOT TO SCALE



3 GUARD RAIL  
NOT TO SCALE



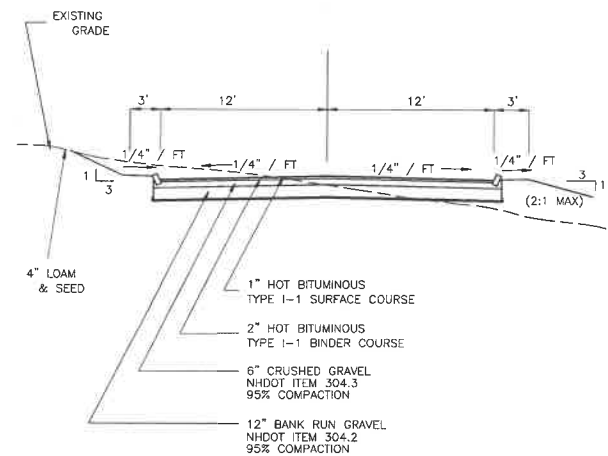
5 HYDRANT & VALVE DETAIL  
NOT TO SCALE



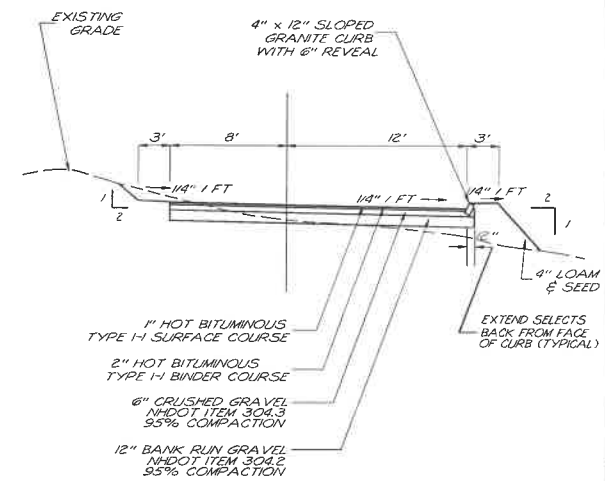
PIPE SIZE	90° BEND	TEE	PLUG	45° BEND	22 1/2° & SMALLER
6"	5	4	3	2	2
8"	9	6	5	7	7
12"	11	9	7	7	4

NOTE: SIZE OF THRUST BLOCK MAY BE INCREASED BY THE ENGINEER TO MEET SOIL CONDITIONS FOUND DURING CONSTRUCTION

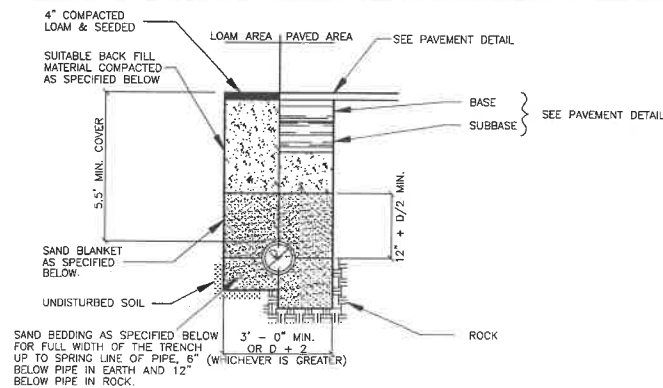
6 WATER MAIN THRUST BLOCK DETAILS  
NOT TO SCALE



7 TYPICAL ROAD CROSS SECTION  
NOT TO SCALE



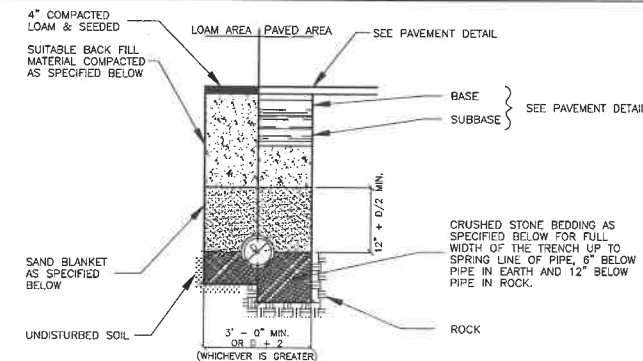
8 TYPICAL CUL-DE-SAC CROSS SECTION  
NOT TO SCALE



SIEVE SIZE	FINER BY WEIGHT
1/2"	90 - 100
200	0 - 15

BACK FILL MATERIAL BELOW PAVED OR CONCRETE AREAS, BEDDING MATERIAL, AND SAND BLANKET SHALL BE COMPACTED TO NOT LESS THAN 95% OF AASHTO T 99, METHOD C. SUITABLE BACK FILL MATERIAL BELOW LOAM AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO T 99, METHOD C.

9 WATER LINE TRENCH  
NOT TO SCALE

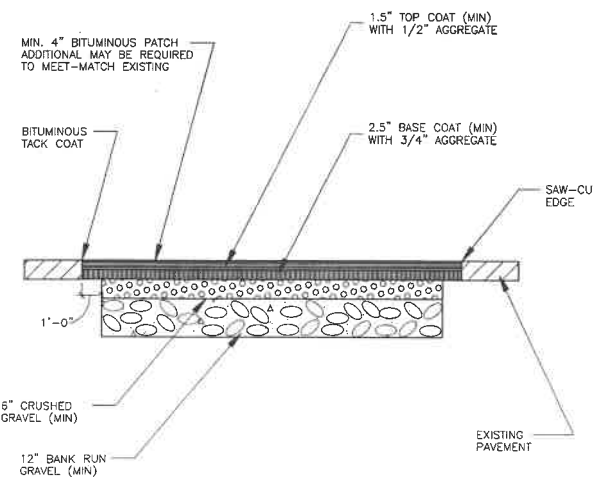


SIEVE SIZE	FINER BY WEIGHT
1/2"	90 - 100
200	0 - 15

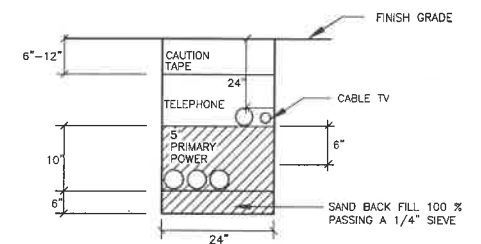
EQUIVALENT TO STANDARD STONE SIZE #57 - SECTION 703 OF NHDOT STANDARD SPECIFICATIONS

BACK FILL MATERIAL BELOW PAVED OR CONCRETE AREAS, BEDDING MATERIAL, AND SAND BLANKET SHALL BE COMPACTED TO NOT LESS THAN 95% OF AASHTO T 99, METHOD C. SUITABLE BACK FILL MATERIAL BELOW LOAM AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO T 99, METHOD C.

10 STORM DRAINAGE & SEWER PIPE TRENCH  
NOT TO SCALE



11 TRENCH PATCH DETAIL  
NOT TO SCALE



- 1.) TELEPHONE CONDUIT SHALL BE 3" SCHEDULE 40 PVC, WITH STEEL SWEEPS AT RISER POLE, 90° BENDS AND AT BUILDING.
- 2.) LEAVE PULL ROPE IN ALL CONDUITS FOR CABLE INSTALLATION.
- 3.) FOR COMPLETE SPECIFICATION SEE "PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE CONSTRUCTION SPECIFICATIONS FOR UNDERGROUND CONDUIT SYSTEMS".
- 4.) CONTRACTOR SHOULD VERIFY THE NUMBER & SIZE OF CONDUIT WITH THE APPROPRIATE UTILITIES.

12 ELECTRICAL TRENCH  
NOT TO SCALE

**TRITECH**  
ENGINEERING CORPORATION

755 CENTRAL AVENUE  
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TELEPHONE 803 742 8107  
FAX 803 742 8880

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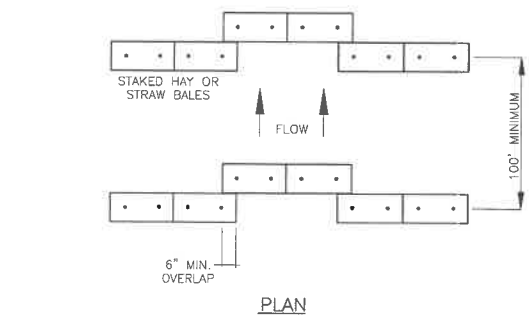
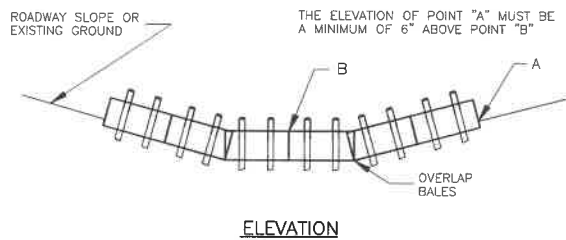
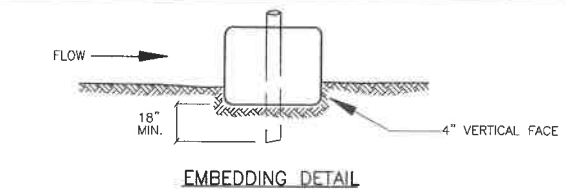
CONSTRUCTION DETAILS

**HAYES HILL**

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017  
JOB No. 16133

SHEET NO.

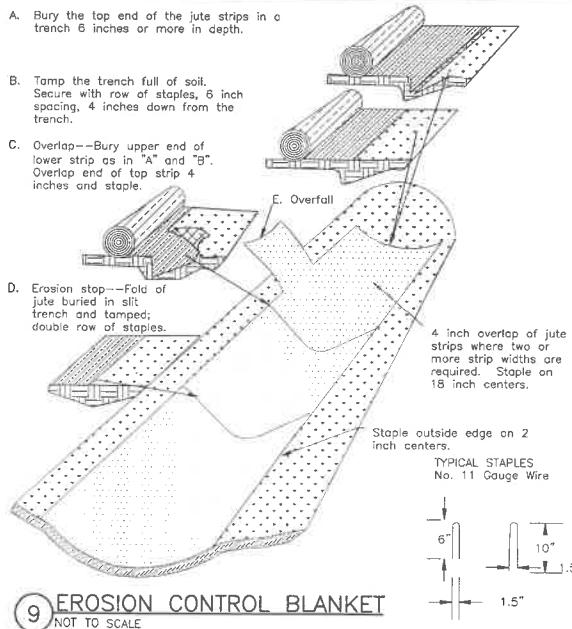
**C-7**



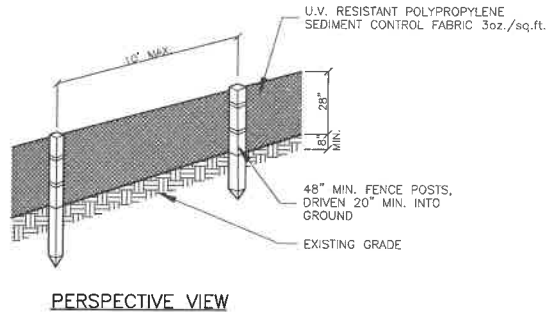
#### CONSTRUCTION SPECIFICATIONS

- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR REBARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED (AFTER EACH RAIN).
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- REMOVE AND PROPERLY DISPOSE OF ALL SEDIMENT PRIOR TO REMOVING HAYBALES.

#### 1 HAYBALE BARRIER - TREATMENT SWALE



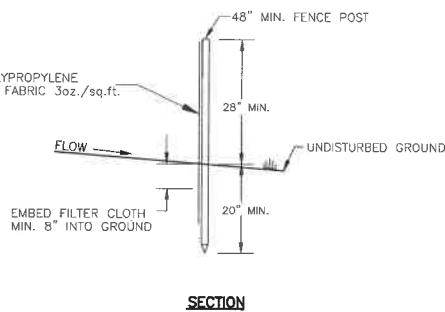
#### 9 EROSION CONTROL BLANKET



#### NOTES

- THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR BEST MANAGEMENT PRACTICE FOR SILT FENCES, OF THE "STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE" PREPARED BY ROCKINGHAM COUNTY CONSERVATION DISTRICT, DATED AUGUST 1992.
- THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
- FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 20 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQ.IN..
- MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.
- REMOVE BY HAND AND PROPERLY DISPOSE OF ALL SEDIMENT PRIOR TO REMOVING FENCE.

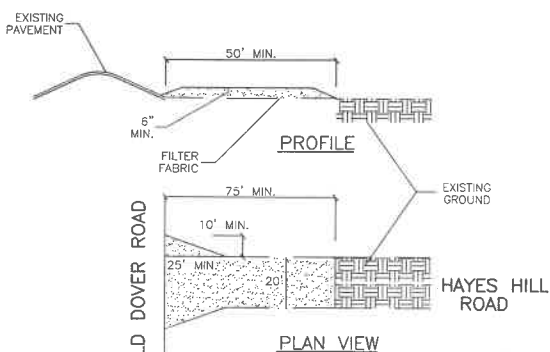
U.V. RESISTANT POLYPROPYLENE  
SEDIMENT CONTROL FABRIC 30z./sq.ft.



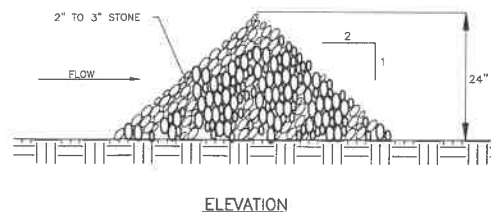
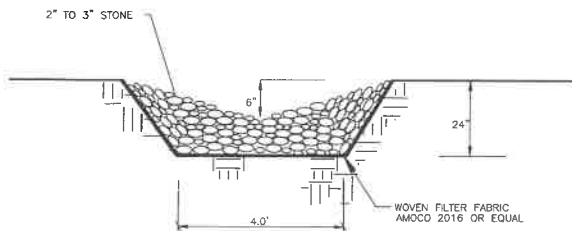
#### SECTION

#### 2 SILT FENCE

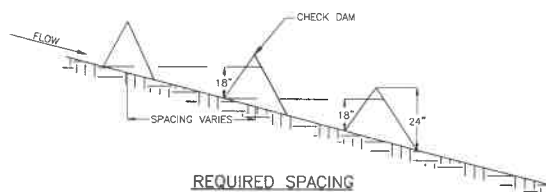
- GRADE AND COMPACT ACCESS ROAD ENTRANCE AS NECESSARY. PLACE FILTER FABRIC (MIRAFI OR EQUAL) AND PLACE 6" OF 1" - 2" STONE TO MATCH SLOPE OF EXISTING ROAD.
- PROVIDE NECESSARY SWALES OR DIVERSIONS TO MINIMIZE DIRECT FLOW OF WATER ONTO STONE AREA.
- CONSTRUCTION ENTRANCE SHALL BE MAINTAINED AS NECESSARY TO REMOVE SILT FROM TIRES PRIOR TO ENTERING PUBLIC ROADS. A SMALL SWALE SHALL BE CONSTRUCTED ON THE DOWN GRADIENT SIDE TO TRAP ANY SILT WASHED FROM THE STONE.
- HAYBALES OR SILT FENCE SHALL BE PLACED ON THE DOWN GRADIENT SIDE AS SHOWN ON THE EROSION CONTROL PLAN.



#### 10 STABILIZED CONSTRUCTION ENTRANCE



#### ELEVATION

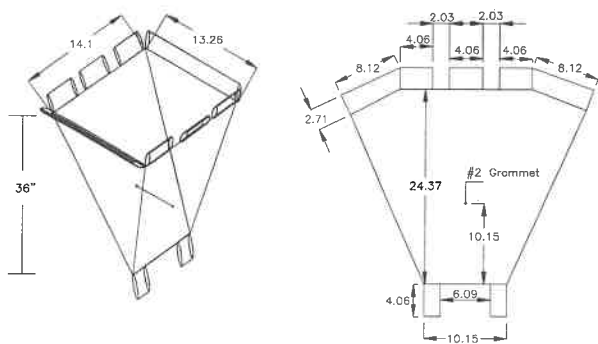


#### REQUIRED SPACING

#### CONSTRUCTION SPECIFICATIONS

- CHECK DAMS TO BE SPACED SO THAT THE BOTTOM OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE DOWNSTREAM OVERFLOW.

#### 3 STONE CHECK DAM



#### SPECIFICATIONS:

- FABRIC USED SHOULD NOT BE LAMINATED.
- SILT SACK TO HAVE TWO #2 GROMMETS, ONE ON EACH OF THE TWO SIDES, 15" FROM THE BOTTOM OF THE SILT SACK.
- TIE 1/4" WIDE YELLOW ROPE 19" LONG THROUGH THE GROMMETS ON TWO SIDES OF THE SILT SACK.

#### 11 Hi Vis Hi Flow Silt Sack

#### CRITICAL AREAS

Anywhere on the site that existing vegetation is to be removed will require immediate erosion control treatment. Special care should be taken where runoff enters wetlands. All storm water practices areas shall be stabilized prior to directing storm water to them; specifically all bioretention basins and all infiltration practices.

#### EROSION AND SEDIMENT CONTROL PRACTICES

Erosion and sediment control practices will include the use of rip-rap, and silt fence check dams. All erosion and sediment control practices will be constructed and maintained according to the minimum standards and specifications contained in the "New Hampshire Stormwater Manual, Volume 2".

#### A. Erosion and Sediment Control Measures

- The erosion control procedures shall conform to Section 645 of the "Standard Specifications for Road and Bridge Construction" of the NH DOT, and the "New Hampshire Stormwater Manual".
- During Construction and thereafter, erosion control measures are to be implemented as noted. The smallest practical area of land should be exposed at any one time during development. The amount of exposed areas which are temporarily stabilized without permanent stabilization shall be limited to 5 acres.
- During grading operations, install stone check dams at 50 foot intervals in drainage swales and at drain inlets where shown. Barriers are to be maintained and cleaned until disturbed areas are stabilized.
- Any disturbed areas which are to be left temporarily, and which will be regraded later during construction shall be machine hay mulched and seeded with rye grass to prevent erosion.
- Silt fences and other erosion control measures shall be inspected weekly and after every 0.25" rainfall event during the life of the project. All damaged silt fences shall be repaired. Sediment deposits shall periodically be removed.
- Avoid the use of future open spaces (loom and seed areas) wherever possible during the construction. Construction traffic shall use the roadbeds of future roads and parking areas.
- Topsoil required for the establishment of vegetation shall be stock piled in amounts necessary to complete finished grading of all exposed areas.
- Areas to be filled shall be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots or other objectionable material. Stumps shall be disposed by grinding or fill in an approved facility.
- All fills shall be placed and compacted to reduce erosion, slippage settlement, subsidence or other related problems.
- All fill shall be placed and compacted in layers not to exceed 8 inches in thickness.
- Frozen material or soft, mucky or highly compressible material shall not be incorporated into fills.
- Fill material shall not be placed on a frozen foundation subgrade.
- Disturbed areas shall be seeded immediately following finished grading.
- Limit of exposed area that is temporarily stabilized without permanent stabilization is 5 acres or less.
- All areas not stabilized by Nov. 1st must be protected by Erosion Control Blankets or equivalent and mulched/seeded with winter rye or oats.
- All disturbed areas must be seed and mulched within 3 days of final grading, permanently stabilized within 15 days of final grading or temporarily stabilized within 45 days of initial disturbance.
- All ditches and swales are to be stabilized prior to directing runoff to these features.
- All cut and fill slopes shall be seeded immediately.
- An area shall be considered stable if one of the following has occurred:
  - Base course gravels are installed in areas to be paved.
  - A minimum of 85% vegetated growth has been established.
  - A minimum of 3" of non-erosive material such as stone or riprap has been installed.
  - Erosion control blankets have been properly installed.

#### B. Vegetative Practice

All ground areas opened up for construction will be regraded, loamed, seeded and mulched in the shortest practical time. All Temporary and Permanent Seeding must be applied prior to October 1st. Employ temporary erosion and sedimentation control devices as detailed in this plan as necessary until adequate stabilization has been assured.

#### A. Temporary Seeding & Hay Mulching

- At no time shall any disturbed area remain unstabilized for longer than 30 days. All areas where construction is not completed within 30 days of the initial disturbance shall receive temporary seeding measures.
- Fertilizer shall be spread on the top layer of loam and worked into the surface. Fertilizer application rate shall be 300 pounds per acre of 10-10-10 fertilizer.
- Seed shall be Winter Rye, 112 LBS. per acre.
- Remove stones and trash that will interfere with seeding the area. Where feasible, till the soil to a depth of about 3 inches to prepare a seedbed and mix fertilizer into the soil. The seedbed should be left in a firm and smooth condition. The last tillage operation should be performed across the slope whenever practical.
- If seeding between May 15th and August 15th, hay mulch shall be applied immediately after seeding at a rate of 1.5 to 2 tons per acre and shall be held in place using appropriate techniques from the "Erosion and Sediment Control Handbook".
- The surface shall be watered and kept moist with a fine spray as required without washing away the soil, until the grass is well established. Any areas which are not satisfactorily covered with grass shall be reseeded, and all noxious weeds removed.

#### B. Permanent Seeding & Hay Mulching

- All disturbed areas shall be loamed (4") and limed. Lime shall be thoroughly incorporated into the loam layer at a rate of 2 tons per acre.
- Fertilizer shall be spread on the top layer of loam and worked into then surface. Fertilizer application rate shall be 500 pounds per acre of 10-20-20 fertilizer.
- Seed shall be 48 lbs. per acre, SCS mixture "c" (20 lbs tall fescue, 20 lbs. creeping red fescue and 8 lbs. birds foot trefoil = 48 lbs total.) The soil shall be lightly raked immediately before seeding. One half the seed shall be sown in one direction and the other half at right angles to the original direction. It shall be lightly raked in to the soil to a depth not over 1/4 inch and rolled with hand roller weighing not over 100 pounds per linear foot to width.
- Hay mulch shall be applied immediately after seeding at a rate of 1.5 to 2 tons per acre and shall be held in place using appropriate techniques from the "Erosion and Sediment Control Handbook". The surface shall be watered and kept moist with a fine spray as required, without washing away the soil, until the grass is well established. Any areas which are not satisfactorily covered with grass shall be reseeded, and all noxious weeds removed.

#### CONSTRUCTION SEQUENCE

- Do not begin construction until all local, state and federal permits have been applied for and received.
- Install silt fences and hay bale barriers necessary to control erosion and prevent sediment contamination of wetlands prior to any earth moving activities.
- Cut and remove trees, shrubs, saplings, brush, vines and other debris and rubbish as required for drainage construction.
- Care shall be taken to preserve the infiltration capacity of the infiltrating soil. See the New Hampshire Stormwater Manual for additional information.
- Construct stormwater bioretention areas #1 & #2 and infiltration Practice #1. Do not direct runoff to these practices until the practice and contributing areas are fully stabilized.
- Cut and remove trees, shrubs, saplings, brush, vines and other debris and rubbish as required for remaining site.
- Construct roadway and utilities.
- Loam and seed disturbed areas in accordance with vegetative practice and general construction notes.
- Cut and fill slopes shall be seeded immediately after their construction.
- All areas receiving runoff, including but not limited to the stormwater infiltration and bioretention areas, shall be stabilized prior to directing runoff to them.
- All soils that are finish graded must be stabilized within 72 hours of disturbance.
- Maintain disturbed areas as necessary.

#### MAINTENANCE

During the period of construction and/or until long term vegetation is established:

- Seeded areas will be fertilized and reseeded as necessary to insure vegetative establishment.
- The side slopes will be checked after each significant rainfall.
- The side slopes will be checked weekly and repaired when necessary until adequate vegetation is established.
- The silt fence barriers will be checked regularly. Necessary repairs will be made to correct undermining or deterioration of the structures.

#### WINTER CONSTRUCTION NOTES

- All proposed vegetated areas which do not exhibit a minimum of 85% vegetation growth by October 15th, or which are disturbed after October 15th, shall be stabilized by seeding and installing erosion control blankets on slopes greater than 3:1, and seeding and placing 3 to 4 tons of mulch per acre, secured with anchored netting, elsewhere. The installation of erosion control blankets or mulch and netting shall not occur over accumulated snow or on frozen ground and shall be completed in advance of thaw or spring melts.
- All ditches or swales which do not exhibit a minimum of 85% vegetation growth by October 15th, or which are disturbed after October 15th, shall be stabilized temporarily with stone or erosion control blankets appropriate for the design flow conditions.
- After November 15th, incomplete road or parking surfaces, where work has stopped for the winter season, shall be protected with a minimum of 3 inches of crushed gravel per NHDOT item 304.3.

#### 12 EROSION AND SEDIMENT CONTROL NOTES

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CONSTRUCTION DETAILS  
**HAYES HILL**

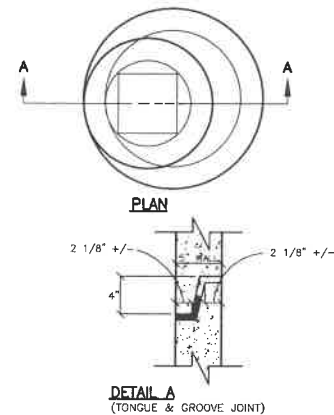
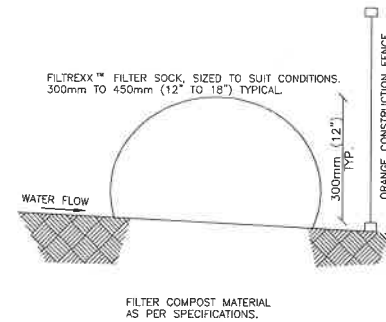
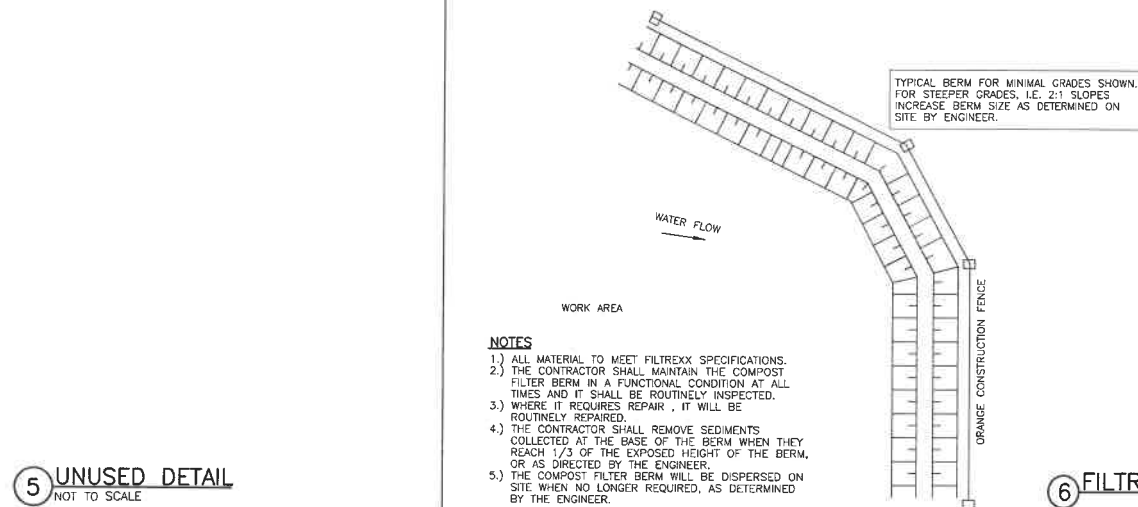
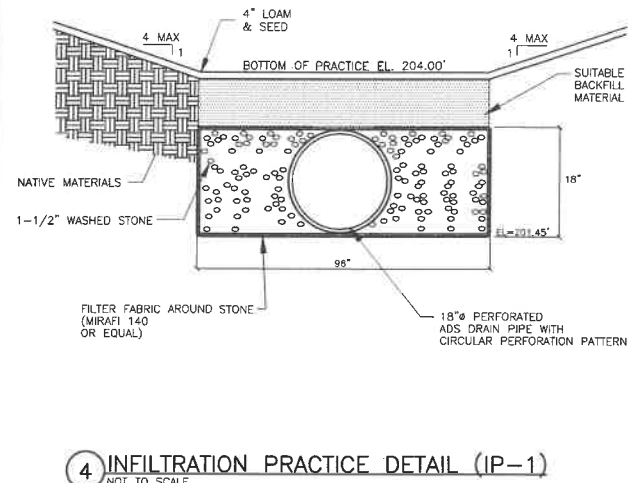
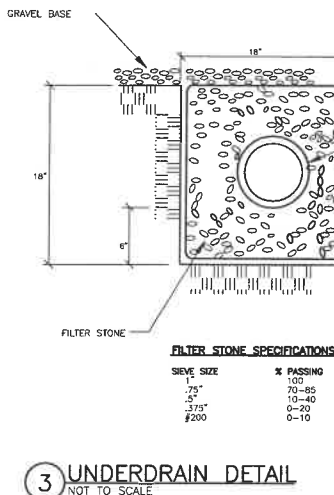
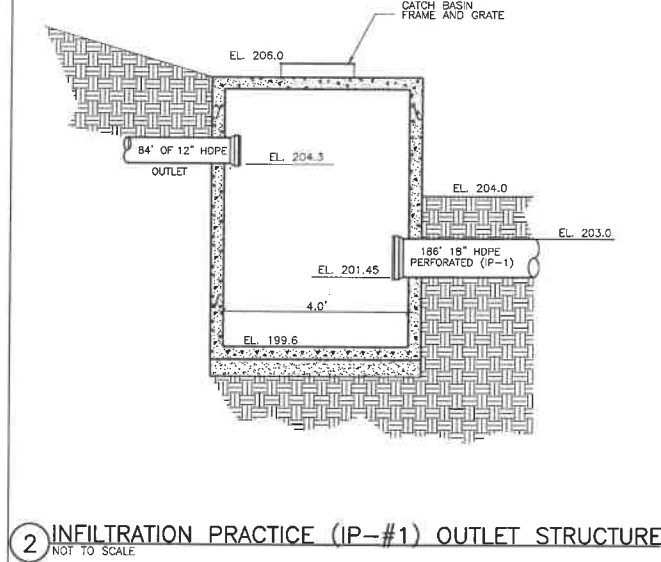
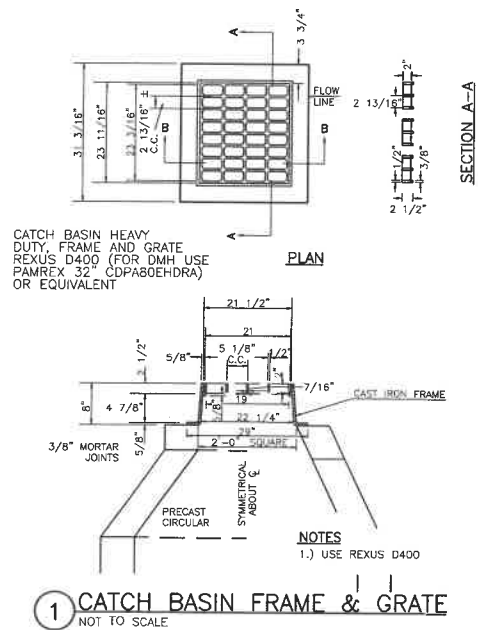
OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017  
JOB No. 16133

SHEET NO.

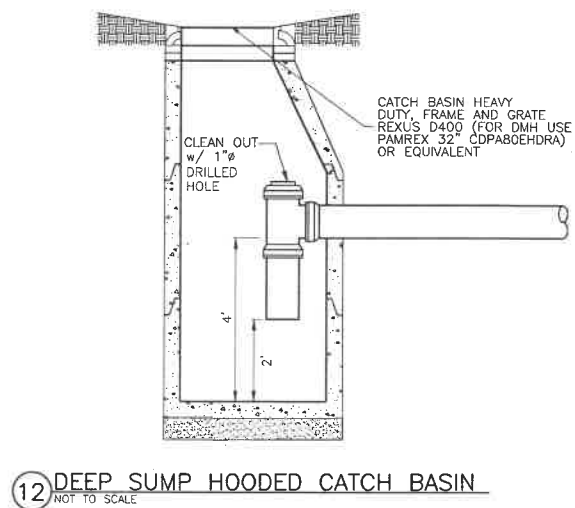
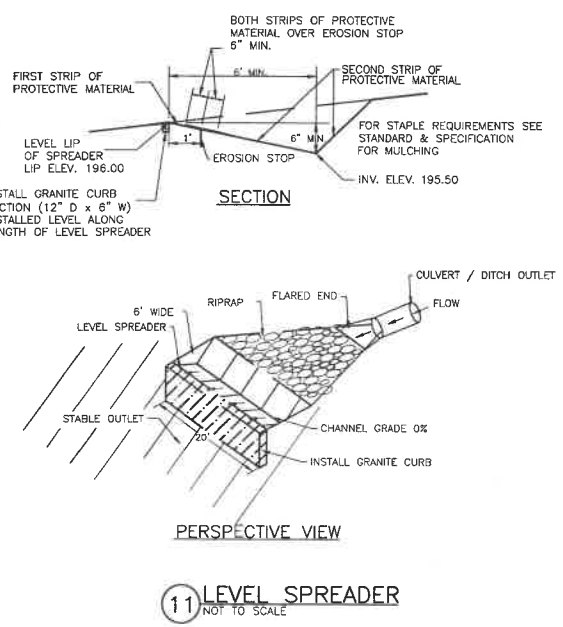
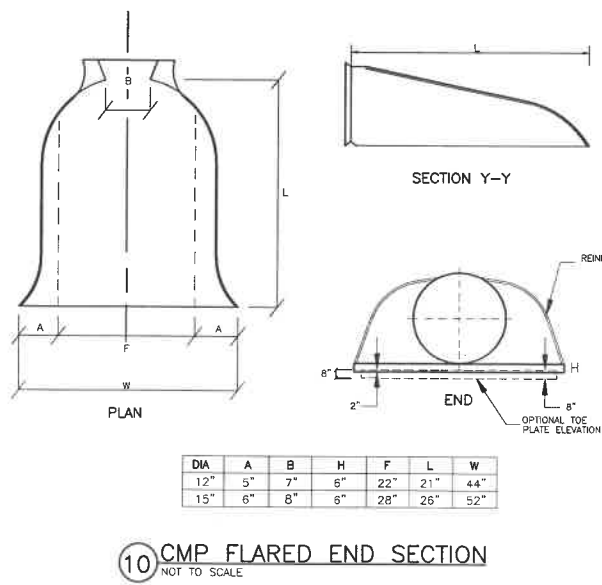
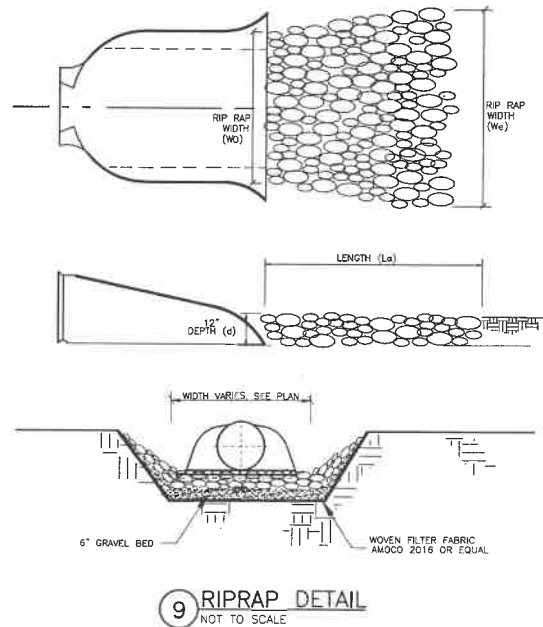
**C-8**

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- NOTES**
1. ALL SECTIONS SHALL BE CONCRETE CLASS AA(4000 psi).
  2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
  3. THE TONGUE OR GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FOOT.
  4. RISERS OF 1', 2', 3' & 4' CAN BE USED TO REACH DESIRED DEPTH.
  5. THE STRUCTURES SHALL BE DESIGNED FOR H-20 LOADING.
  6. FOR SHALLOW INVERTS, A FLAT TOP SLAB WITH TONGUE AND GROOVE JOINTS (DETAIL A), MEETING H-20 LOADING MAY BE USED.





- 2 LANDSCAPING NOTES  
NOT TO SCALE

- ### 3 PLANTING DETAIL



6 NOT USED  
NOT TO SCALE



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## CONSTRUCTION DETAILS

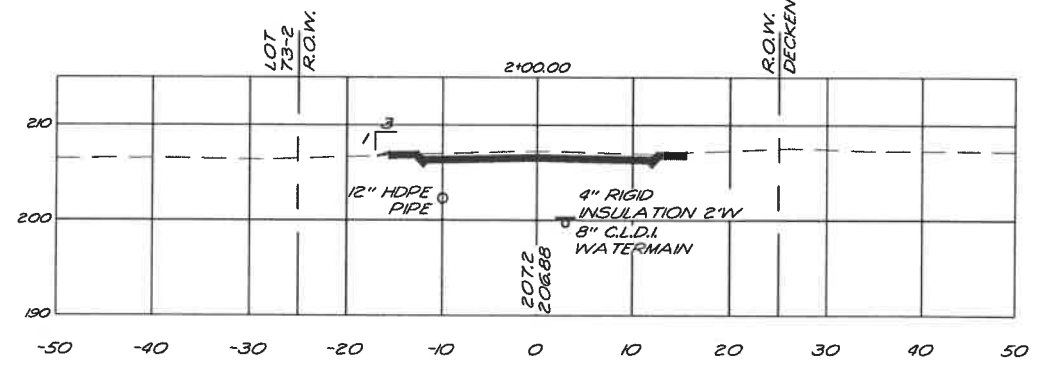
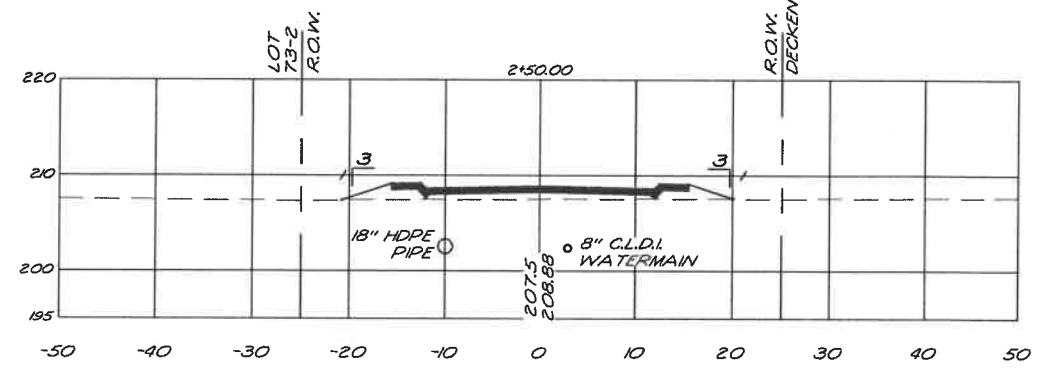
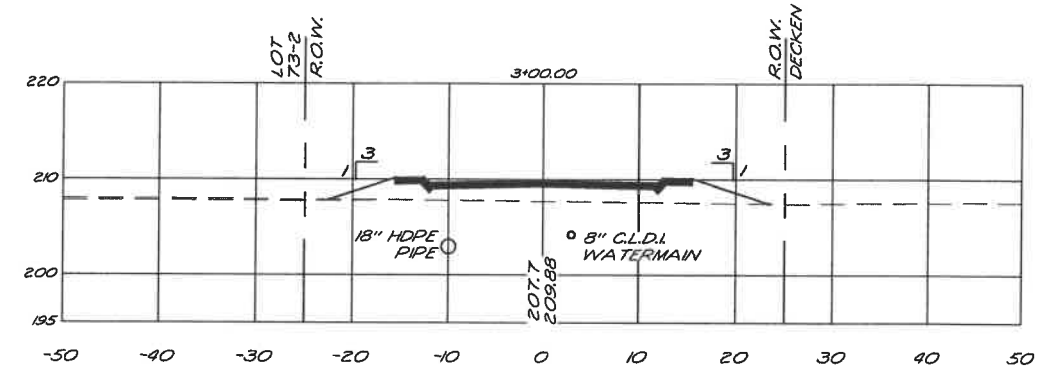
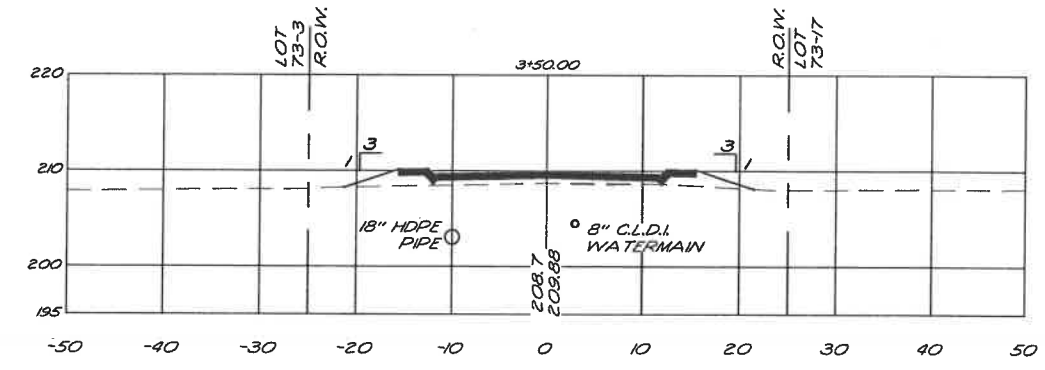
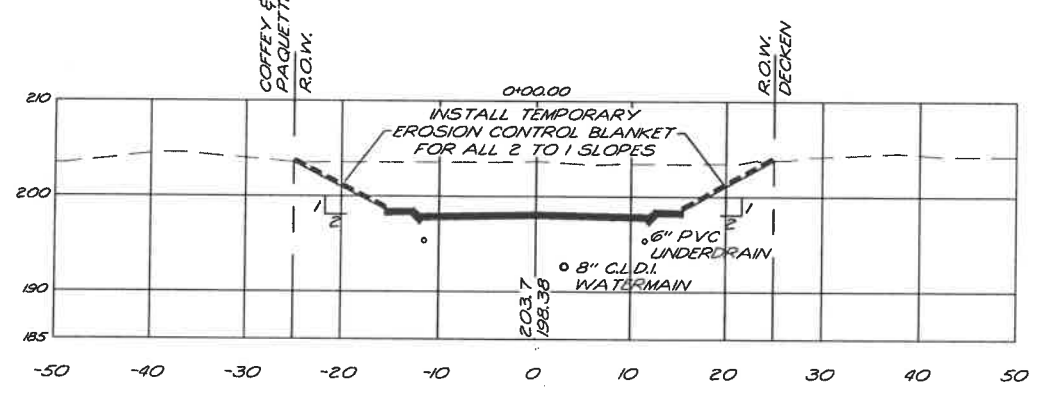
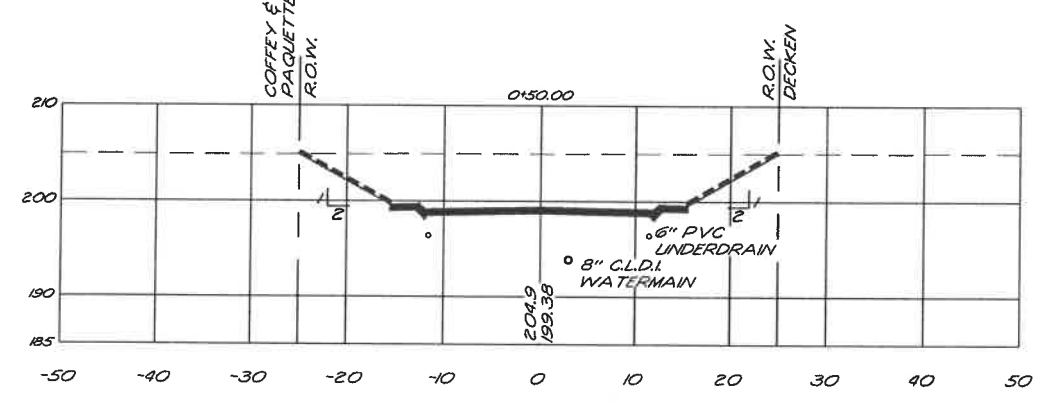
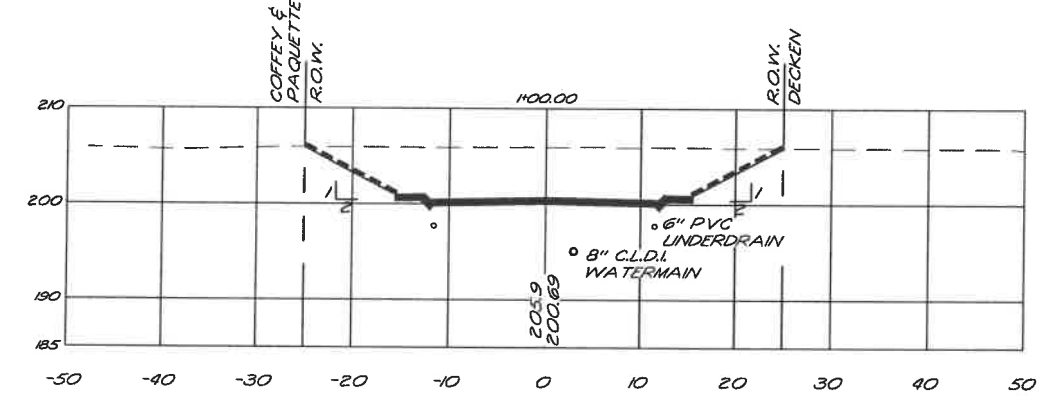
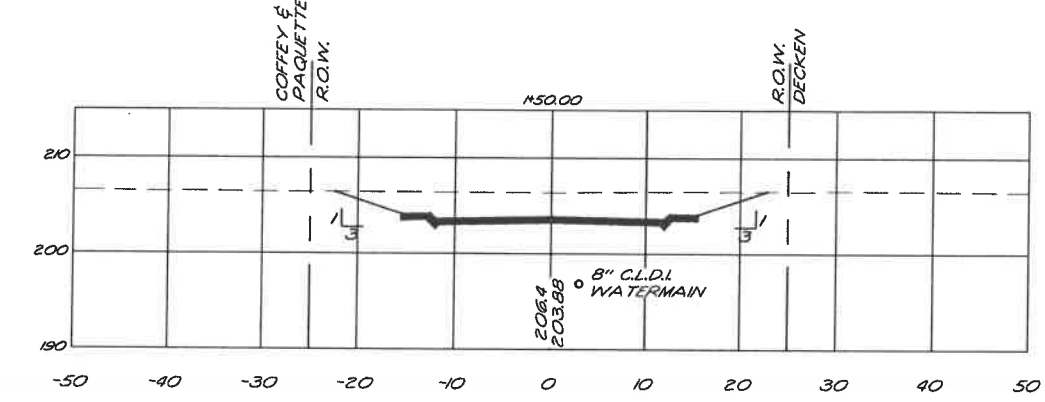
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OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017  
JOB No. 10133

SHEET NO.

## C-10





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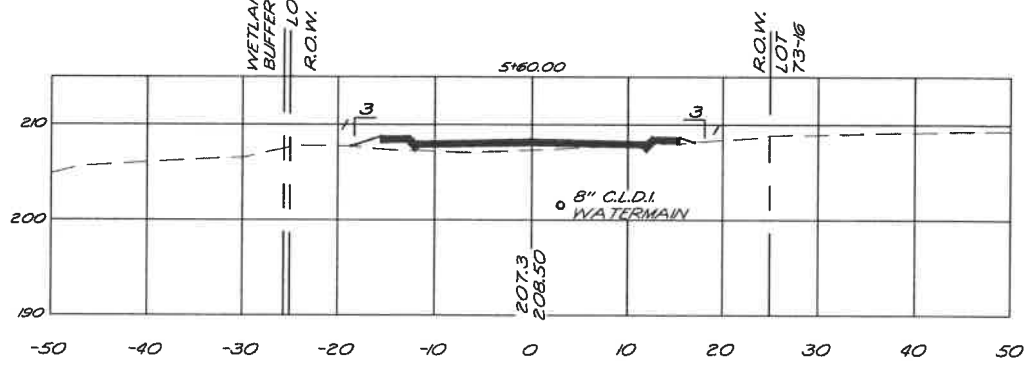
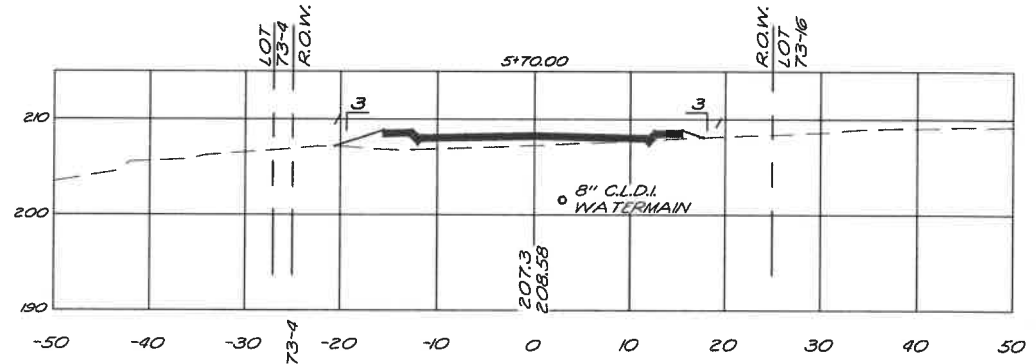
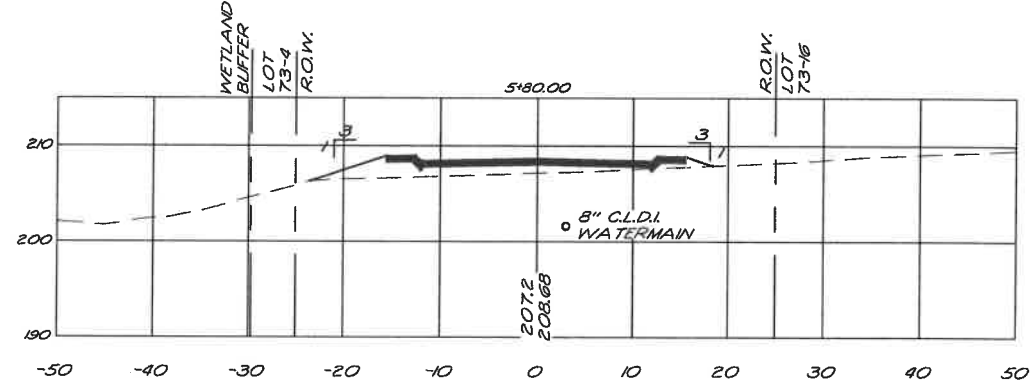
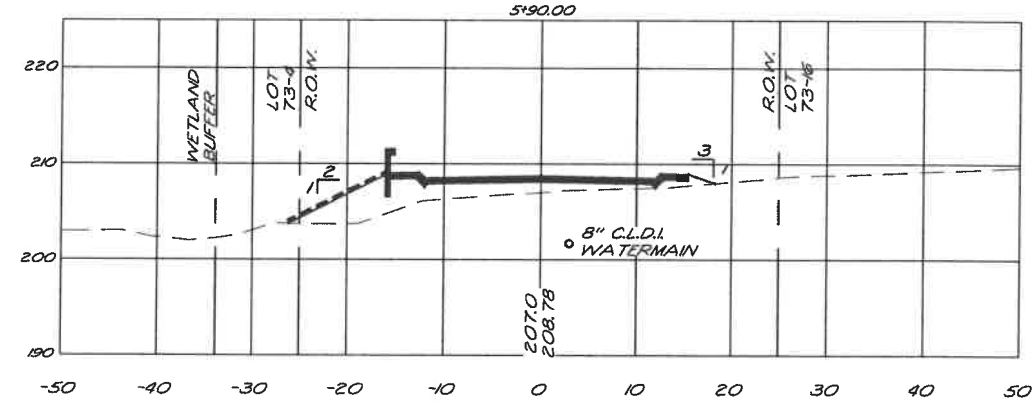
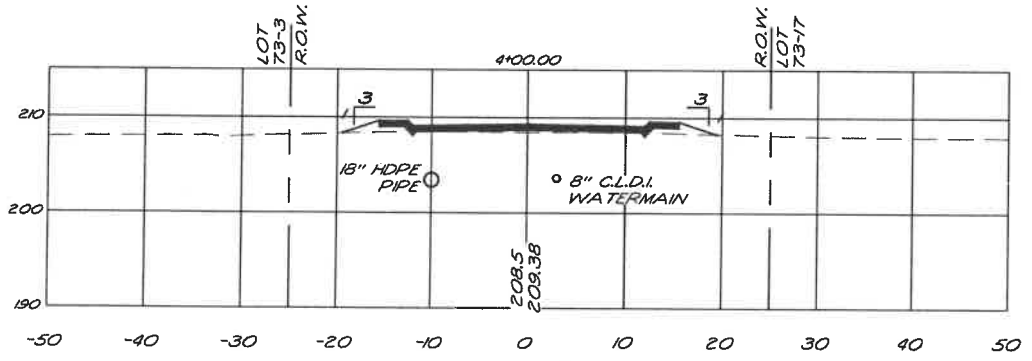
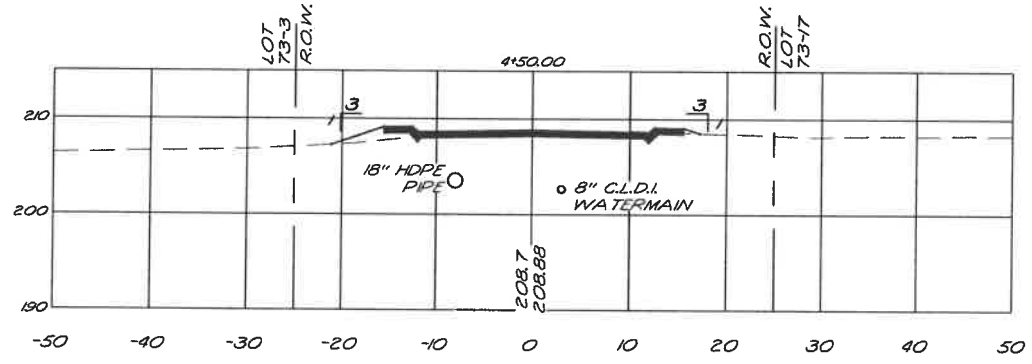
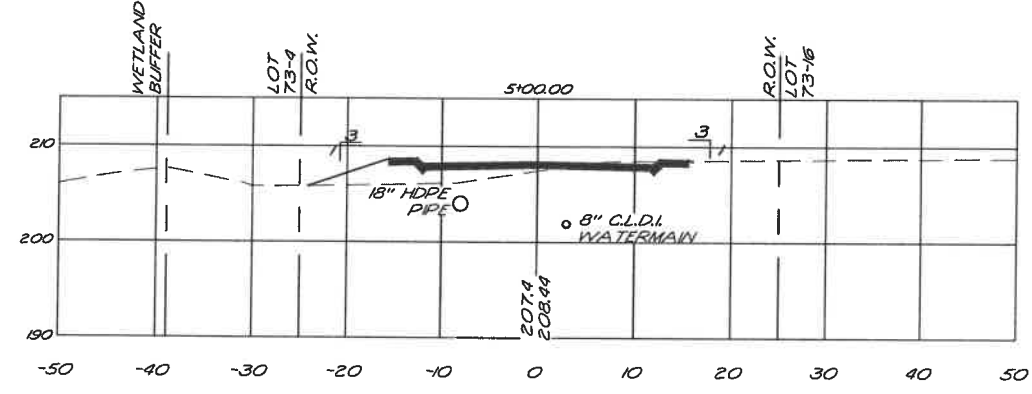
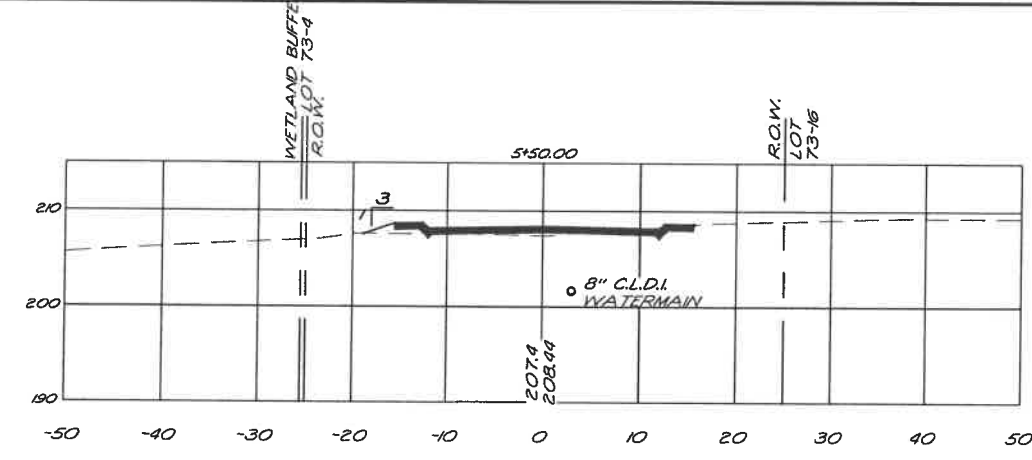
ROADWAY CROSS-SECTIONS

## HAYES HILL

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017 JOB No. 16133  
SCALE: 1" = 10'

SHEET NO.

# XS-1



SHEET NO.

## ROADWAY CROSS-SECTIONS

# XS-2

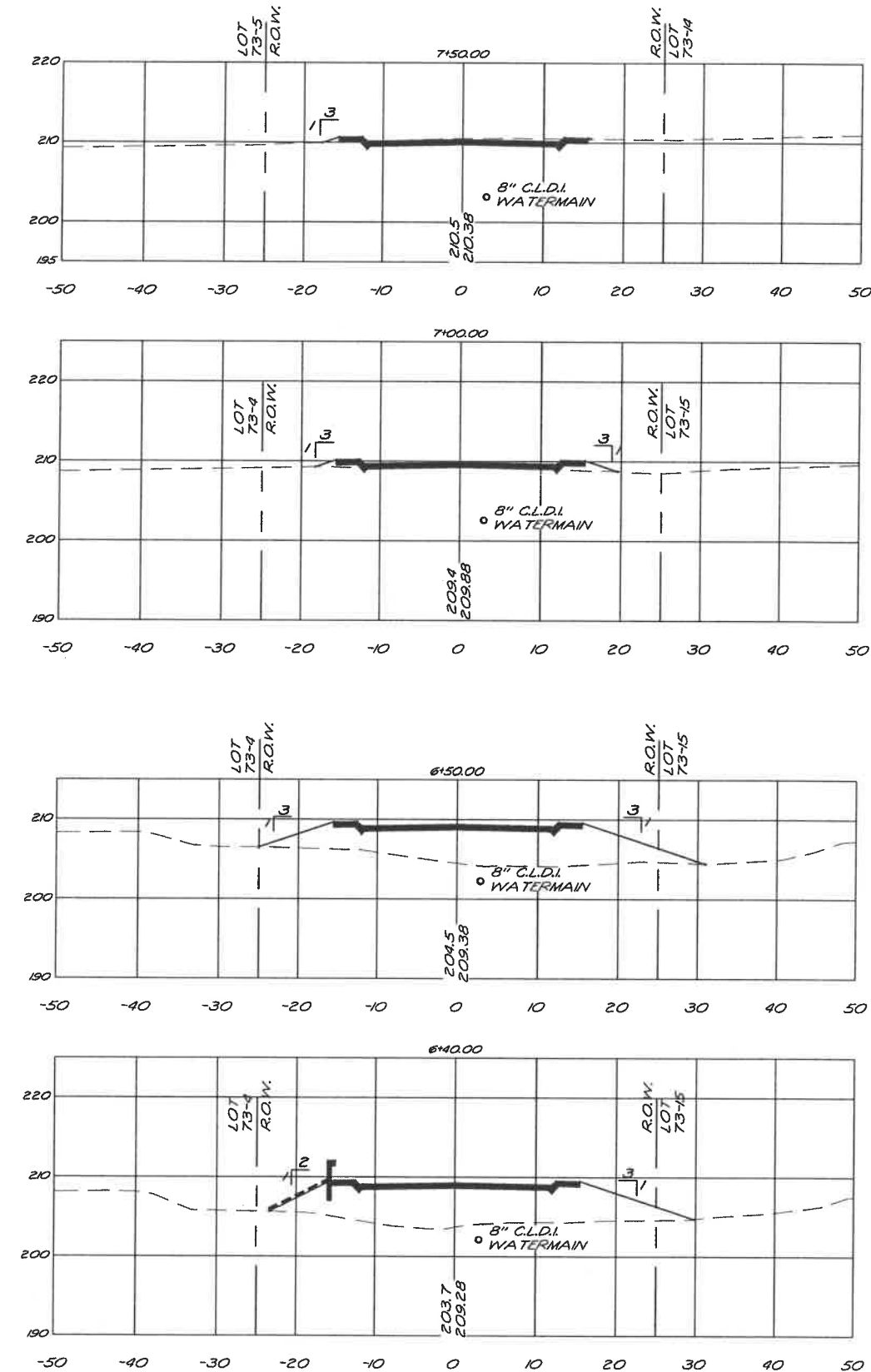
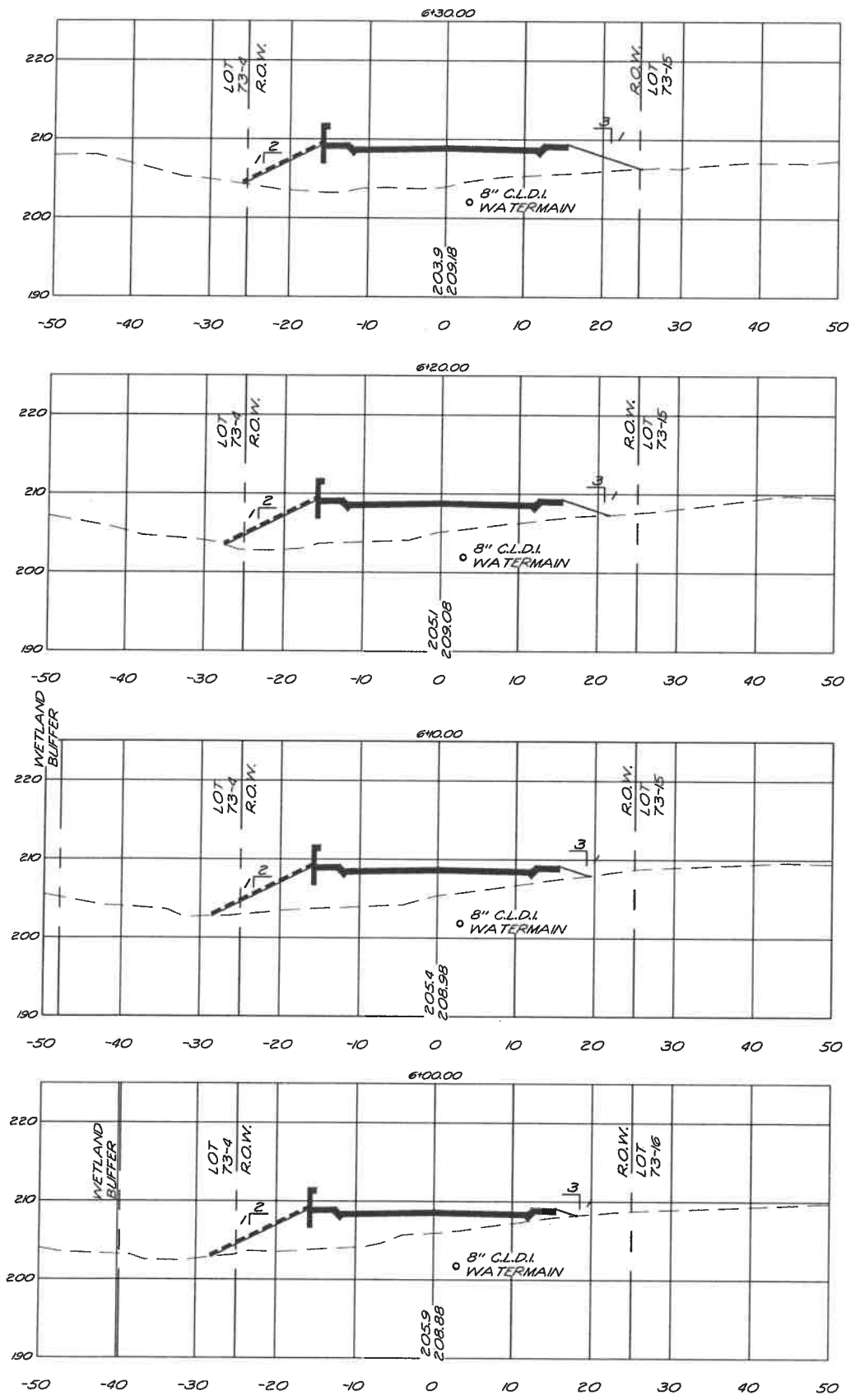
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OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017  
JOB No. 16133  
SCALE: 1" = 10'

REVISIONS	DATE:	DESCRIPTION:
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SHEET NO.

ROADWAY CROSS-SECTIONS

**XS-3**

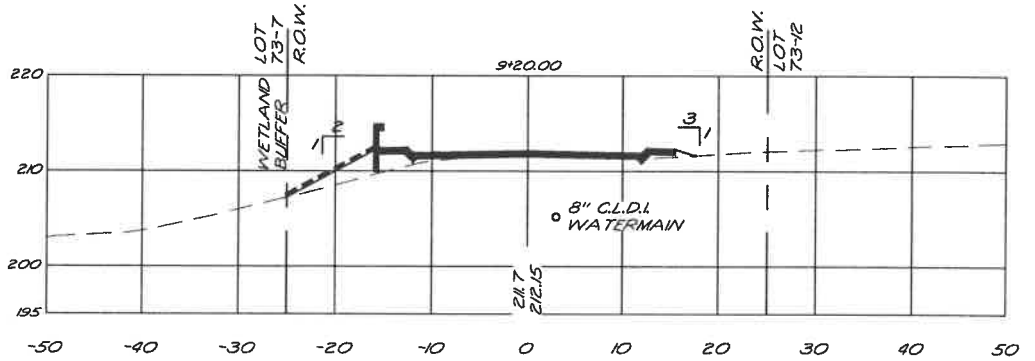
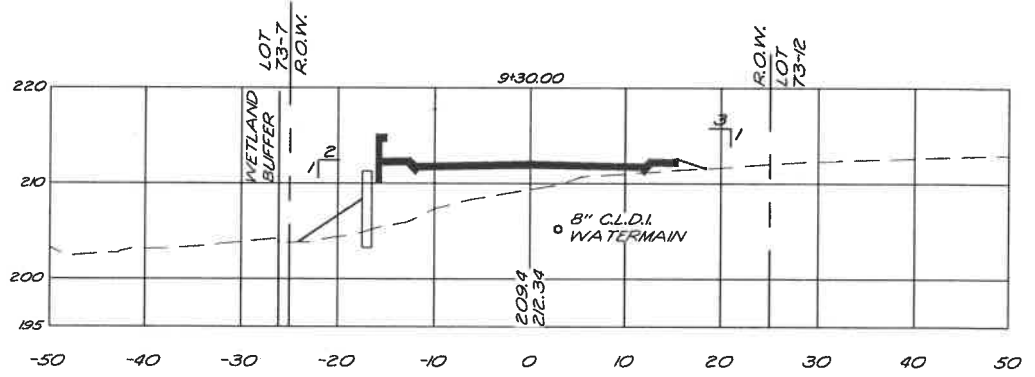
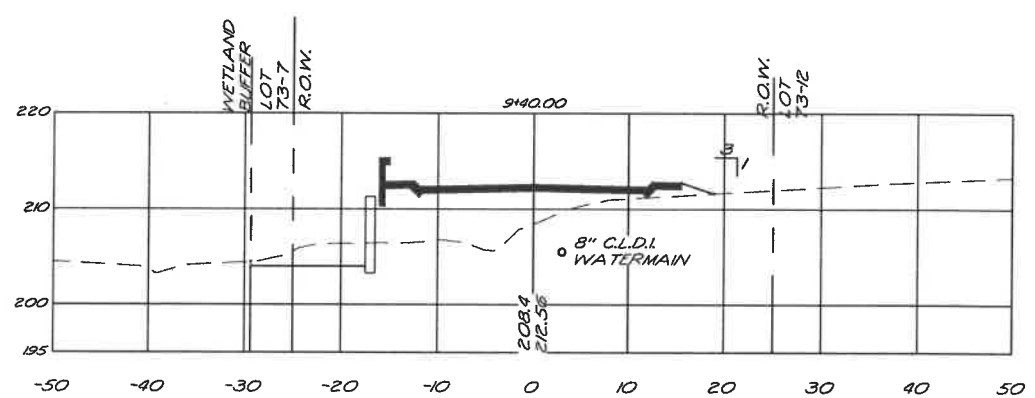
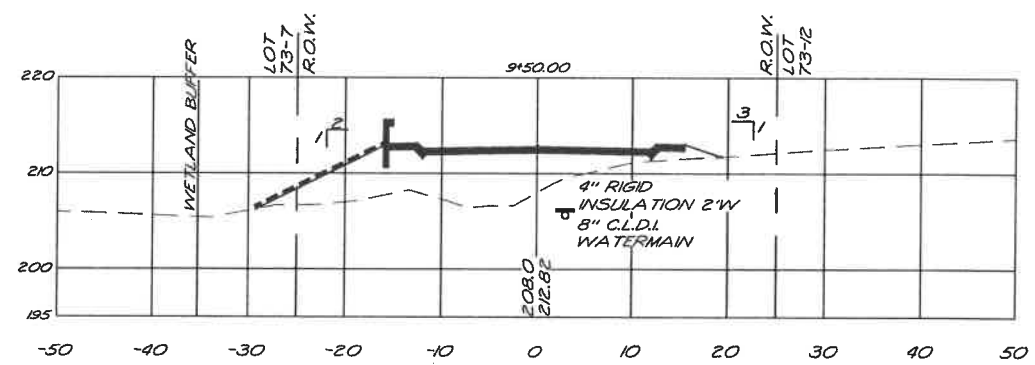
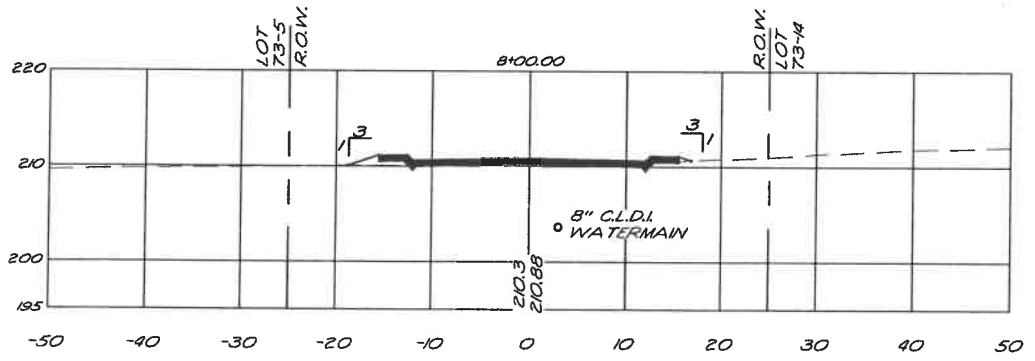
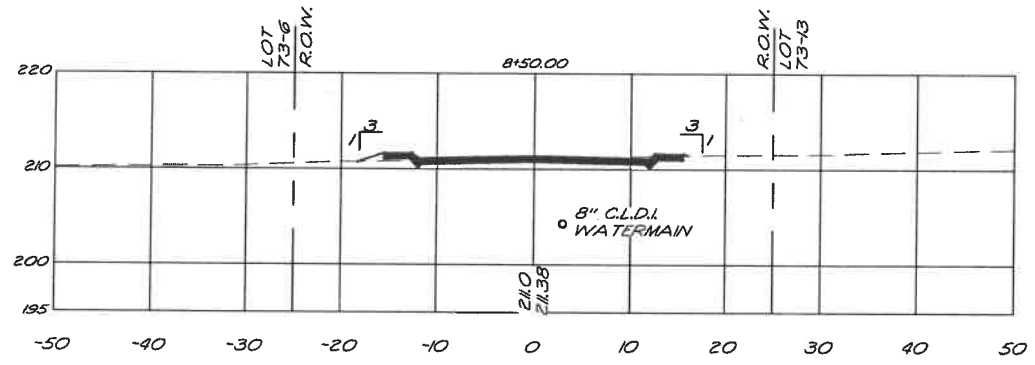
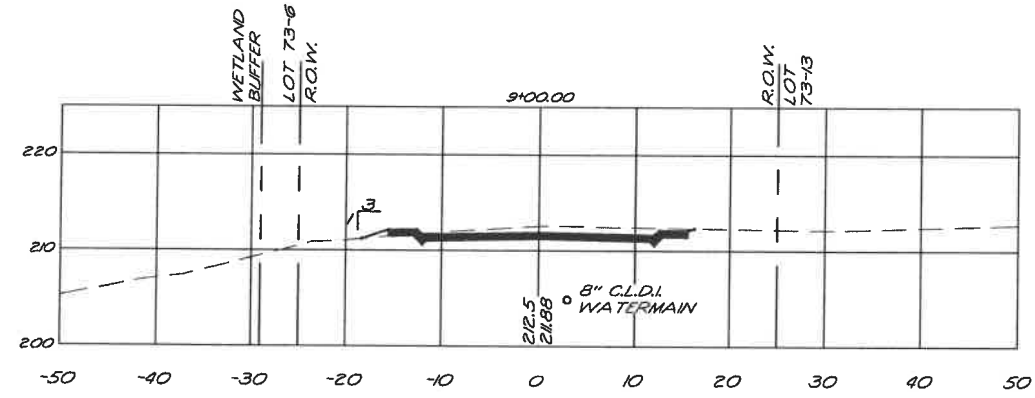
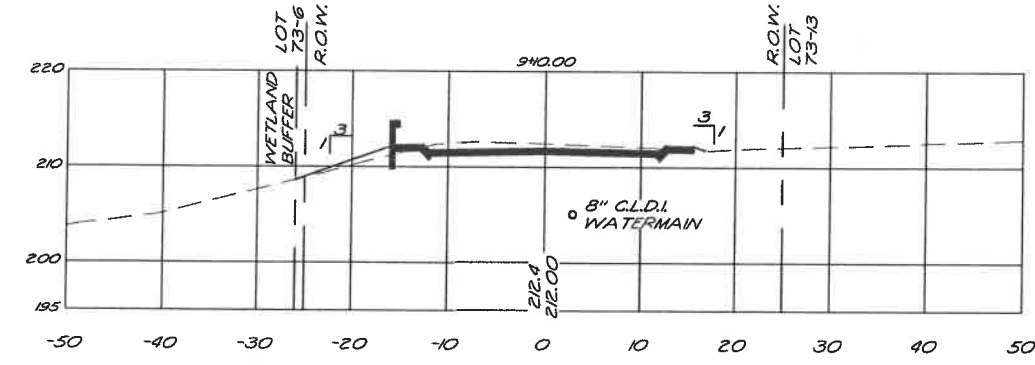
**HAYES HILL**

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017  
JOB No. 16133  
SCALE: 1" = 10'

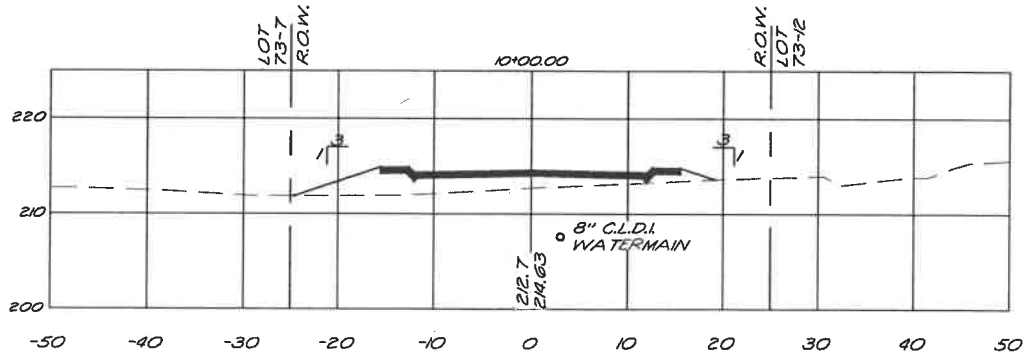
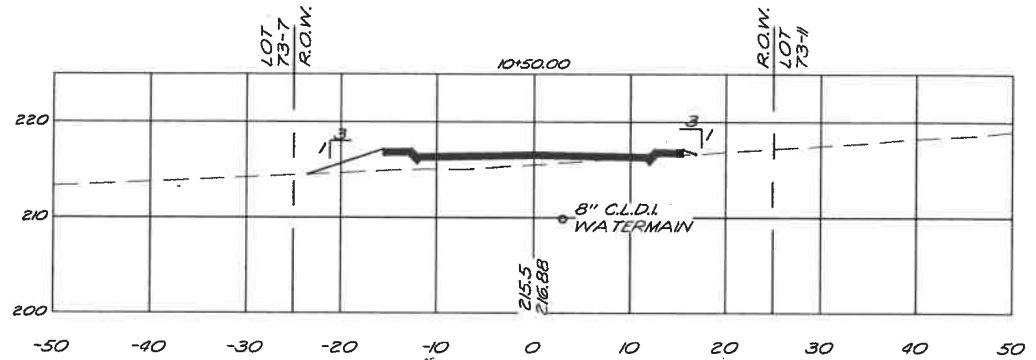
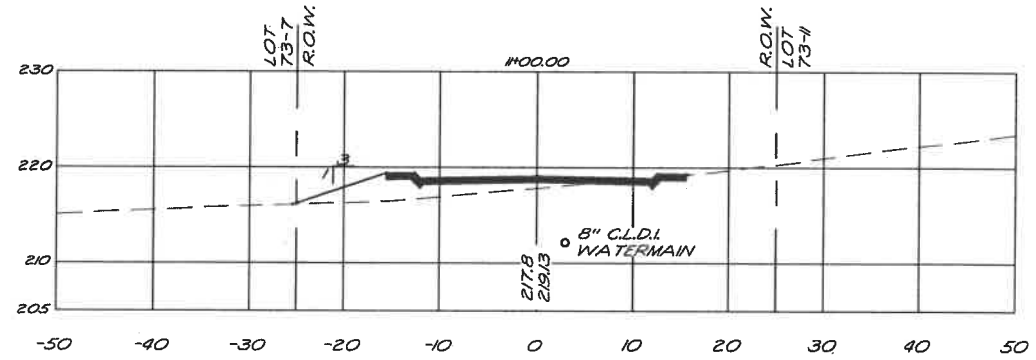
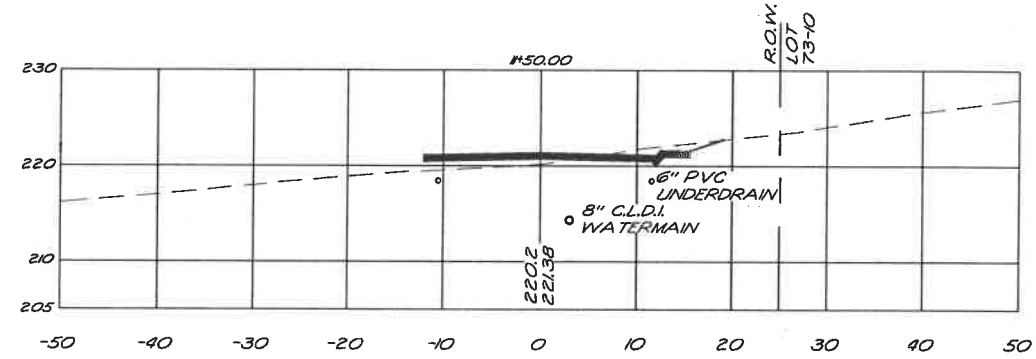
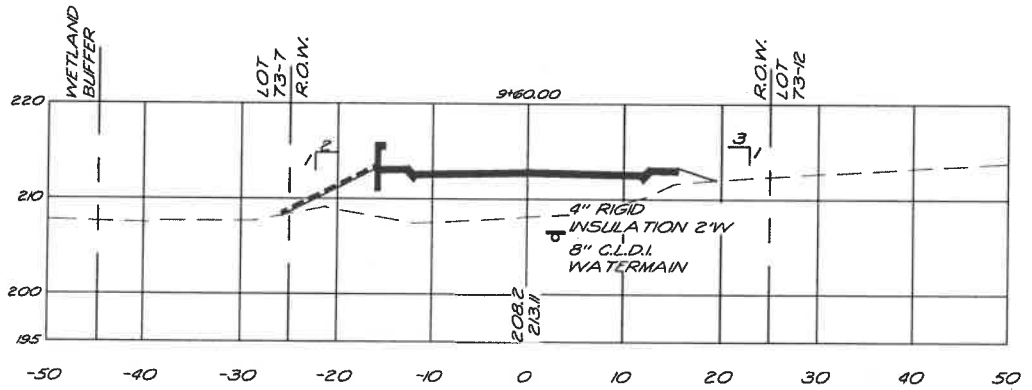
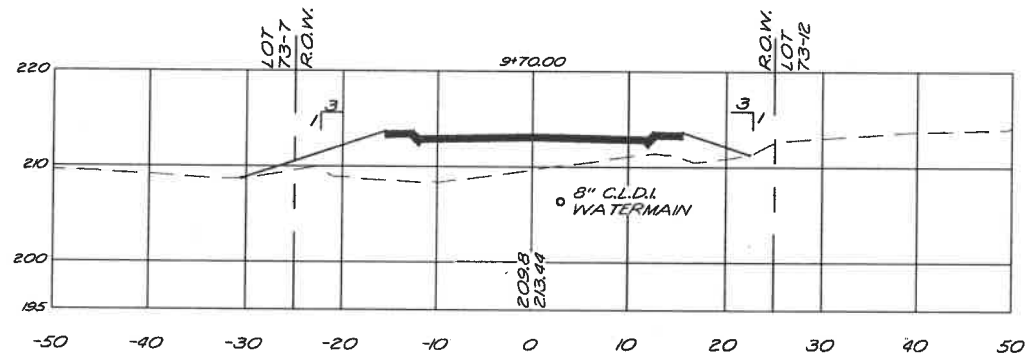
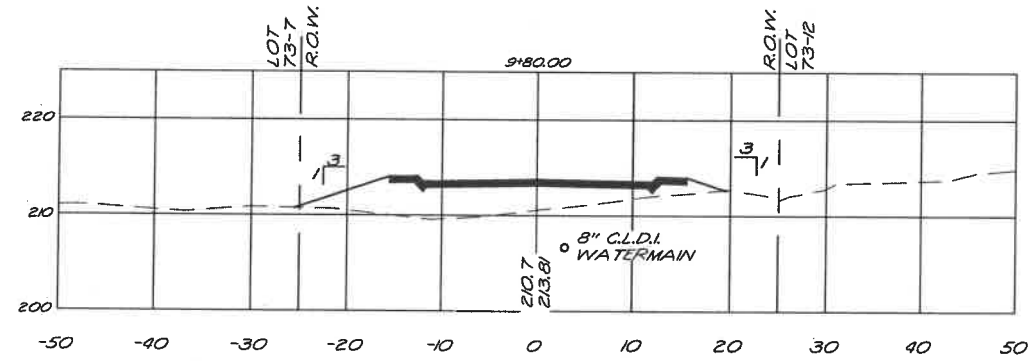
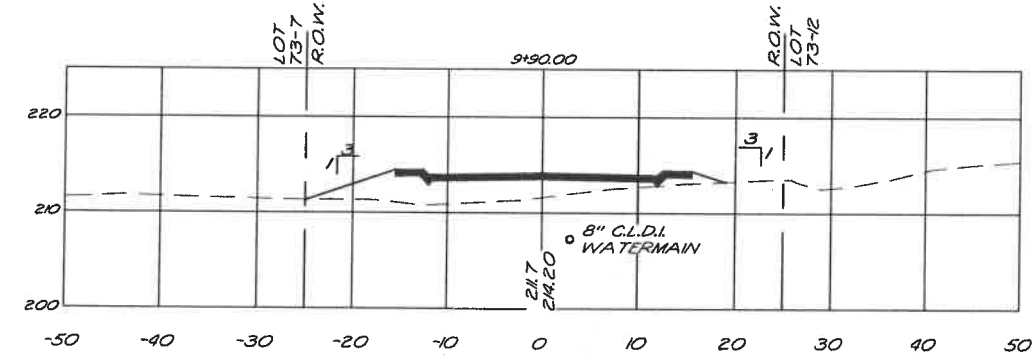
**TRITECH**  
ENGINEERING CORPORATION

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DATE: DESCRIPTION:



SHEET NO.	ROADWAY CROSS-SECTIONS		<b>HAYES HILL</b> OLD DOVER ROAD ROCHESTER, NEW HAMPSHIRE NOVEMBER 7, 2017 JOB No. 16133 SCALE: 1" = 10'	<b>TRITECH</b> ENGINEERING CORPORATION 755 CENTRAL AVENUE DOVER NEW HAMPSHIRE 03820 TELEPHONE 603 742 8107 FAX 603 742 3630
	REVISIONS DATE: DESCRIPTION:			
<b>XS-4</b>				



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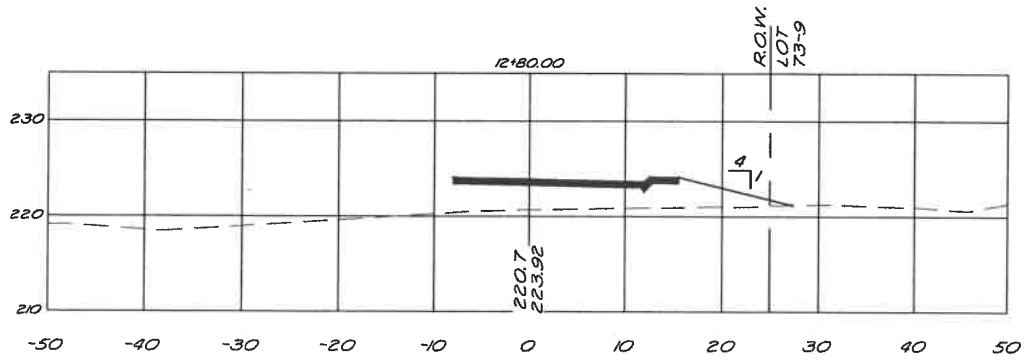
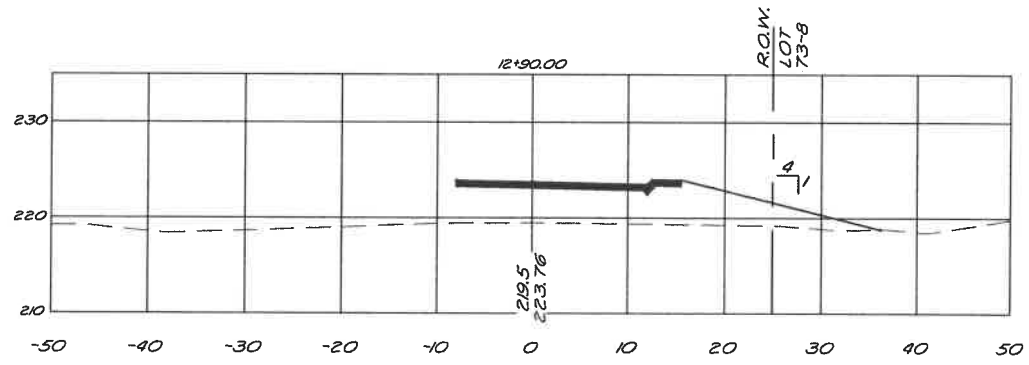
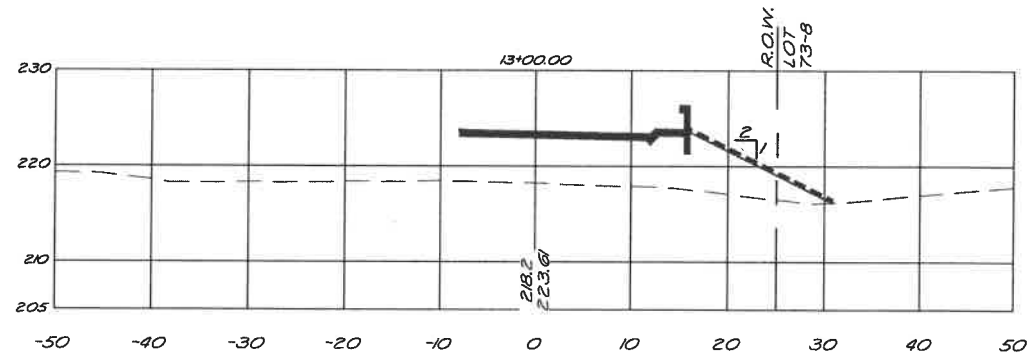
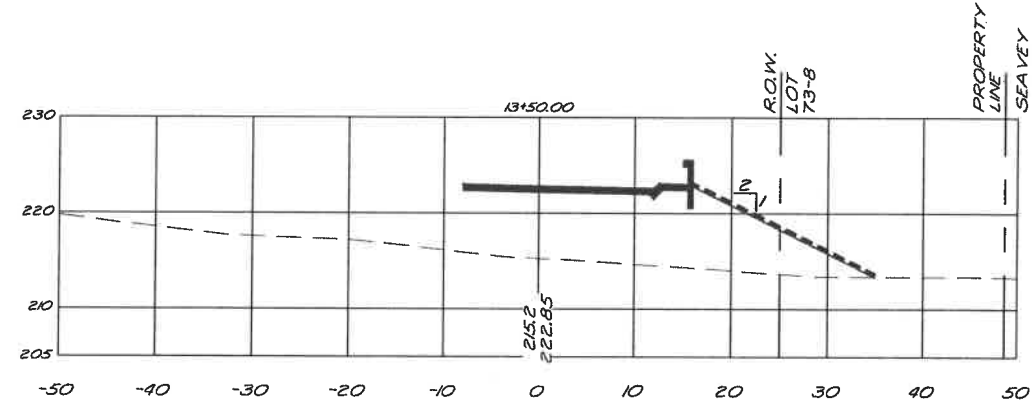
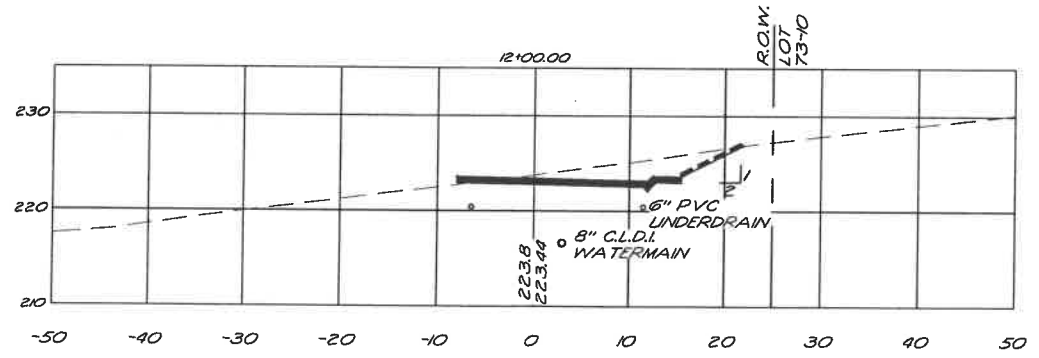
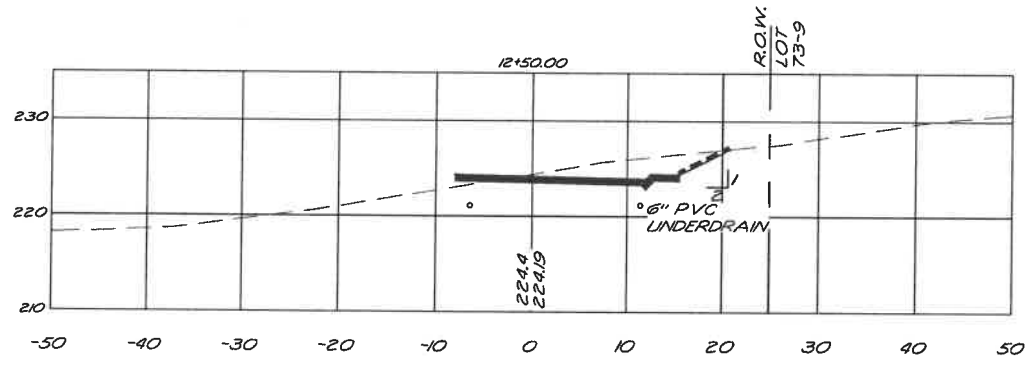
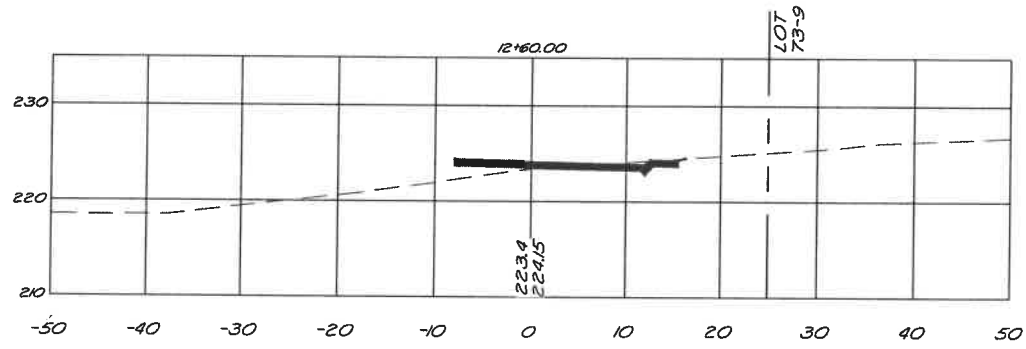
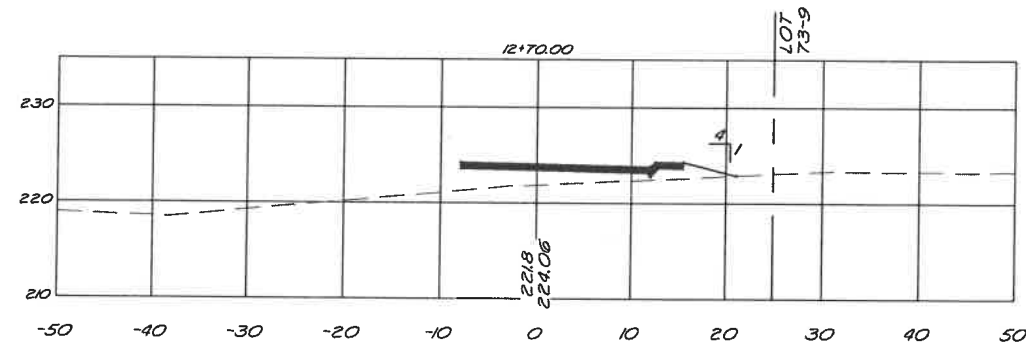
ROADWAY CROSS-SECTIONS

**HAYES HILL**

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017 JOB No. 16133  
SCALE: 1" = 10'

SHEET NO.

**XS-5**



SHEET NO.

## ROADWAY CROSS-SECTIONS

# XS-6

HAYES HILL

OLD DOVER ROAD  
ROCHESTER, NEW HAMPSHIRE  
NOVEMBER 7, 2017 JOB No. 16133  
SCALE: 1" = 10'

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