



# NONRESIDENTIAL SITE PLAN APPLICATION

# City of Rochester, New Hampshire

Date: 08/28/2020	Is a conditional use n	eeded? Yes: x	No:	Unclear:
	(If so, we encourage you	u to submit an applic	cation as so	oon as possible.
<b>Property information</b>				
Tax map #: <u>243</u> ; Lot	#('s): <u>36 &amp; 37</u> ; Z	Coning district: Gen	eral Industrial	
Property address/location:	109 Airport Drive			
Name of project (if applicable	e): Pella Windows and Doors o	f New England		
Size of site: 3.53 & 1.10 acres;	overlay zoning district	(s)? Conservation Overla	ay and Aviation	ı Overlay
Property owner				
Name (include name of indiv	ridual): Spectex Realty LLC o	/o Victor J. Pisinski		
Mailing address: 1 Progress Driv	ve, Unit 1, Dover NH 03820			
Telephone #: 603 330-3334		Email: vpisinski@spec	tex.com	
Applicant/developer (if	different from property o	wner)		
Name (include name of indiv	idual): Pella Windows and D	oors of New England, c/o D	avid Hadley	
Mailing address: 137 Brown Roa	ad, Tuftonboro, NH			
Telephone #: 603-986-2979		Email: Hadleydavid04	4@gmail.com	
Engineer/designer				
Name (include name of indiv	idual): Norway Plains Associ	ates, Inc. c/o Scott Lawler,	PE	
Mailing address: PO Box 249, Roc	:hester NH 03866-0249			
Telephone #: 603 335-3948		Fax #: vpisinski@spe	ectex.com	
Email address: slawler@norwaypl	ains.com	_ Professional lice	nse #: P	E 10026
Proposed activity (check	all that apply)			
New building(s): X	ite development (othe	r structures, parkin	ıg, utilities	, etc.): <u>×</u>
Addition(s) onto existing build	ding(s): Den	nolition:	Change o	of use:

If City sewer, do you plan to discharge anything other than domestic waste? yes no _x	Describe proposed activity/use: Construction of a 24,000 sf executive office and distribution building for a major
Utility information  City water? yes × no ; How far is City water from the site?  City sewer? yes × no ; How far is City sewer from the site?  If City water, what are the estimated total daily needs? 250 gallons per day  If City water, is it proposed for anything other than domestic purposes? yes no × lf City sewer, do you plan to discharge anything other than domestic waste? yes no × where will stormwater be discharged? Treated stormwater will either infiltrate in the ground or discharged toward the northeast corner building information  Type of building(s): Steel Building  Building height: 22-3* Finished floor elevation: 281.00'  Other information  # parking spaces: existing: 0 total proposed: 43; Are there pertinent covenants? Number of cubic yards of earth being removed from the site tess than 500 cy  Number of existing employees: 0; number of proposed employees total: 25 Check any that are proposed: variance; special exception; conditional use X	window and door manufacturing and distribution company.
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	Number of existing employees: 0 number of proposed employees total: 25
	Wetlands: Is any fill proposed? No ; area to be filled: N/A ; buffer impact? x

Proposed post-development disposition of site (should total 100%)				
	Square footage	% overall site		
Building footprint(s) – give for each building	24,000	11.9%		
Parking and vehicle circulation	65,833	32.6%		
Planted/landscaped areas (excluding drainage)	72,241	35.8%		
Natural/undisturbed areas (excluding wetlands)	34,470	17.1%		
Wetlands	2,790	1.4%		
Other – drainage structures, outside storage, etc.	2,348	1.2%		

Comments
Please feel free to add any comments, additional information, or requests for waivers here:
A waiver to the overall number of parking spaces is being requested
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 Site Plan application to the City of Rochester Planning Board
pursuant to the City of Rochester Site Plan 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: Keivin Strands
Signature of property owner: With Stands
Victor J. Pisius Monte: Aug. SI Zozo
Signature of applicant/developer;
THADLDY G170
Date: 7.7.20
Signature of agent:
Scott LALULE Date: 9/7/20
Date.
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:
Date:

# NORWAY PLAINS ASSOCIATES, INC.

LAND SURVEYORS • SEPTIC SYSTEM DESIGNERS • CIVIL ENGINEERS

P.O. Box 249 Continental Blvd. (03867) Rochester, NH 03866-0249 Fax (603)332-0098 Phone (603) 335-3948 slawler@norwayplains.com



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31 Mooney St.
Alton, NH 03809
www.norwayplains.com
Phone & Fax (603) 875-3948
rtetreault@norwayplains.com

September 7, 2020

Seth Creighton, Chief Planner Planning Department City of Rochester 33 Wakefield Street Rochester, NH 03867

Re: Non- Residential Site Plan Application; Pella Windows and Doors of New England.; Airport Drive, Map 243, Lots 36 & 37.

Dear Mr. Creighton:

On behalf of Pella Windows and Doors of New England and Spectex Realty LLC, we hereby submit plans and nonresidential site plan application for a proposed executive office and distribution facility located off Airport Drive. The parcels, Tax Map 243, Lots 36 & 37 comprising of 4.63 acres and are currently owned by the Spectex Realty LLC. The parcels are slated to be sold to the applicate shortly after approval from the Rochester Planning Board and will be merged into a single lot.

The parcels are located within the Granite State Business Park (GSBP) and in the Industrial (GI) zoning district. Located northerly of the properties is NH Northcoast Railroad with a vacant parcel owned by the city across the tracks. To the east is the city land with a municipal sewage pump station that services the industrial park. West of the parcel is another manufacturing parcel, which should be starting shortly as LDI Solutions, LLC. Across Airport Drive are parcels owned by Albany International Techniwave Inc and Albany Engineering Composite Inc. Access to the project will be from a single driveway located off Airport Drive.

The subject lots are mostly wooded and vacant with the exception of utilities running overhead and underground along the front and rear of the lots. The land sloped generally from southwest to northeast, with a couple small wetland complexes at the toe of the parcel along the NH Northcoast Railroad. Jurisdictional wetlands were delineated by B.H. Keith Associates on July 3, 2020. The site-specific soils were evaluated on the vacant lots by Joseph Noel, Certified soil scientist in July 2020.

Pella Windows and Doors of New England is proposing to construct a 120' by 2000' (24,000 square feet print) building on the parcels. This building will have two units, with one being approximately one third (45,000 sq. ft.) the size of the main facility. The larger west end of the building will be approximately 18,000 square feet of warehouse and distribution space. The eastern end of the building will consist of two-story office space and meeting space. The proposed building will be steel framed and metal sided with a gradual slopped roof from the front towards the rear.

Pella Windows and Doors of New England are planning operating with 15 to 20 employees, eventually increasing to approximately 30 to 35 employees in the future. The general hours of operation will be 6:00am to 6:00pm, Monday through Friday with limited hours on the weekends. The business expects about 2 to 4 tractor trailers entering and existing the facility a week, which may fluctuate a little with seasonality. They anticipate that several much smaller box trucks will leave during the day for delivers to the local building supply businesses.

As mentioned above, access to the facility will be from a new driveway to be constructed off Airport Drive. Once into the site, a parking lot will be constructed on the right side which will consist of 43 parking spaces. Of which, 3 spaces have been designated as accessible parking spaces with accessible aisles in accordance with the ADA guidelines. According to the Rochester Site Review Regulations, the total number of required parking spaces for the proposed building would be 51. As such, a waiver is being requested to allow for a reduction of 8 parking spaces below the suggested amount outlined within the regulations.

The stormwater from the new impervious surfaces will be collected via closed drainage system consisting of catch basins and drainage pipes. The runoff collected from the site will be directed towards a StormTech chamber detention/infiltration system below the pavement. The initial first of stormwater which carries majority of the small particles will be sent into isolation rows at either end of the field. The majority of the stormwater from the larger events will be directed to the interior rows of StormTech chambers. All of the chambers retain the stormwater and allow for infiltration back into the groundwater. An overflow pipe will discharge the additional stormwater northeasterly towards the ditch line along the railroad right of way. In all, the post development stormwater management system will attenuate the peak runoff rates and total volume such that they are equal or less than the corresponding Pre-development runoff conditions for all storm events.

In order to construct the parking lot on the east side of the parcels, there will still be some minor grading within the Conservation Overall district. As such, a Conditional Use Permit application is herewith attached to request minor site grading in the outer 25 feet of the CO district and for the direct impacts of jurisdictional wetlands. There is no proposed direct impacts to the wetlands as part of this site development.

The proposed facility will be serviced by City water and sewer. A new water service will be connected to the City water main on Airport Drive. Domestic sanitary waste will be directed toward the municipal sewer main that is located between these lots and the adjacent lot owned by LDI Solutions, LLC. A new manhole will be installed on the City main which will service both new developments. The building will be sprinklered

Snow storage will be located on the eastern side of the access roadway and on the northern side of the parking lot. All utilities will be run underground to the building. Natural gas will also be extended to the proposed building. Lighting fixtures will be mounted on poles and on the building, all meeting the requirements of the City of Rochester lighting standards. A patio will be constructed at the rear of the office space off the employee breakroom. The site will be nicely landscaped to enhance the appearance of the building facade.

The proposed project will require several State and Federal permits. From the State of New Hampshire

Department of Environmental Services (NHDES), an Alteration of Terrain Permit is required based on the overall earth disturbance from the development. A cursory review from the Pease Development Authority (PDA) for the proposed development to comply with the Aviation Overlay District. From a federal permit aspect, approval from the Federal Aviation Administration (FAA) for the permeant building will be necessary to ensure it meets their requirements for obstruction. A temporary permit from FAA is likely for any crane activity associated with the construction of the building. Since there will be a point source discharge of stormwater and the project impacting more than an acre of land, a Construction General Permit from the EPA as part of the National Discharge Pollution Elimination Systems (NDPES). The latter permit will be sought by the general contractor and site contractor within 14-days of the start of construction.

We look forward to discussing this project with staff and the Planning Board. Thank you for your consideration Sincerely,

NORWAY PLAINS ASSOCIATES, INC.

By:

Scott A. Lawler, PE, Project Engineer

cc: Pella Windows and Doors of New England Spectex Realty LLC

# <u>Application for Conditional Use</u> Conditional Uses and Buffer Reductions

Section 42.19 - Conservation Overlay District City of Rochester, NH

Date: 08/28/2020
Property information
Tax map #: 243 ; Lot #('s): 36 & 37 ; Zoning district: General Industrial
Property address/location: 109 Airport Drive
Name of project (if applicable): Pella Windows and Doors of New England
Property owner  Name (include name of individual): Spectex Realty LLC c/o Victor J. Pisinski
Mailing address: 1 Progress Drive, Unit 1, Dover NH 03820
Telephone #: 603 330-3334 Fax vpisinski@spectex.com
Applicant/developer (if different from property owner)  Name (include name of individual): Pella Windows and Doors of New England, c/o David Hadley  Mailing address: 137 Brown Road, Tuftonboro, NH
Telephone #: 603-986-2979 Fax #: Hadleydavid04@gmail.com
Engineer/designer  Name (include name of individual): Norway Plains Associates, Inc. c/o Scott Lawler, PE  Mailing address: PO Box 249, Rochester NH 03866-0249
Telephone #: 603 335-3948 Fax #: n/a
Email address: slawler@norwayplains.com Professional license #: PE 10026
Proposed Project  Please describe the proposed project: Construction of a 24,000 sf corporate office and warehouse building for a major window and door manufacturing and distribution company.
Please describe the existing conditions: The site is undeveloped and mostly wooded

(continued <u>Conditional Use</u> application Tax Map: 243 Lot: 36 & 37
*Please fill in <b>one</b> of the next two sections – for either <u>Conditional Uses</u> or <u>Buffer Reductions</u> *
Conditional Uses
For <u>Conditional Uses</u> only, justify the proposal in terms of each of the criteria below (in accordance with subsection 42.19 (i) (1) (A)). All four criteria must be satisfied.
(i) The proposed construction is essential to the productive use of land not in the COD.
The proposed impacts to the COD will be for the construction of a parking lot associated with the proposed corporate office and
warehousing facility. Given the size of the lots, existing topography and proposed building, the location of the proposed parking lot
is the essential to the development of the land outside of the COD.
(ii) Design and construction methods will be such as to minimize impact upon the wetlands and will include restoration of the site consistent with the permitted use.
The impacts to the COD are associated with the site grading of the parking lot. The parking lot will have curbing to prevent untreated
stormwater leaving the pavement and discharging into the COD. The land being impacted within the COD will be revegated with
grasses once completed.
(iii) There is no feasible alternative route on land controlled by the applicant that does not cross the CO District nor has less detrimental impact on the wetlands. Nothing in this Section shall limit the applicant from exploring alternatives with abutting property owners.
There will be no impacts to the Wetlands and all the work in the CO District is associated with site grading and will be in the
outer 25 feet of the buffer.
(iv) Economic advantage is not the sole reason for the proposed location of work.  The site has been designed to best utilize the land outside the Conservation Overall District and the limited impacts within the COD
are associated with the site grading of the parking lot. Avoidance to the jurisdictional wetlands was a contributing factor to the design
of the project.
(Buffer Reductions on next page)

# **Buffer Reductions**

For <u>Buffer Reductions</u> only, justify the proposal in terms of each of the criteria below (in accordance with subsection 42.19 (i) (2) (B)). All four criteria must be satisfied.

(i) The structure for which the exception is sought cannot feasibly, after consideration of all reasonable alternatives, be constructed on a portion or portions of the lot, which lie outside the CO district, <b>or</b> the application of the CO district eliminates greater than 50% of the buildable area located on the parcel <b>or</b> in the judgment of the Planning Board, the proposed site layout would result in a significantly higher quality design.
(ii) The proposed structure and use must be consistent with the purpose and intent or Section 42.19 and provisions must be made to ensure that drainage from the structure will not adversely impact any wetlands.
(iii) There shall be no impervious areas for parking within the reduced buffer for which the Conditional Use Approval is sought.
(iv) The maximum building coverage is limited to 50% of the outer half of the buffer zone, as shown in the diagram below.
(v) Best management practices must be demonstrated to the satisfaction of the Planning Board.

# 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 Conditional Use application to the City of Rochester Conservation Commission and Planning Board pursuant to the <u>City of Rochester Zoning Ordinance</u> 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: _	Vot ille	8	1 As
Victo	v S. Risharki	Date:	Aug 31. 2020
Signature of applicant/develop	er: 1205C		win Stanles
	DAYID E. HAD	Date: _	9.1.20
Signature of agent:	Dadule		
, V	SCOTT LAWLER	Date:	9/7/20

# Authorization to enter subject property

I hereby authorize members of the Rochester Conservation Commission and Planning Board, and other pertinent City departments, boards and agencies to enter my property for the purpose of evaluating this application including performing any appropriate inspections. 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. (It is not necessary to sign this provision if a Planning Board application has been submitted.)

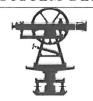
Signature of property owner:

ite: 1/20

# NORWAY PLAINS ASSOCIATES, INC.

LAND SURVEYORS • SEPTIC SYSTEM DESIGNERS • CIVIL ENGINEERS

P.O. Box 249 Continental Blvd. (03867) Rochester, NH 03866-0249 Fax (603)332-0098 Phone (603) 335-3948 / (800) 479-3948 slawler@norwayplains.com



P. O. Box 268 31 Mooney St. Alton, NH 03809 www.norwayplains.com Phone & Fax (603) 875-3948 rtetreault@norwayplains.com

September 7, 2020

Rochester Conservation Commission Department of Planning and Development Second Floor, City Hall 31 Wakefield Street Rochester, NH 03867-1917

Re: Conditional Use Application - Proposed Non-residential Site Plan – Airport Drive - Tax Map 243, Lots 36 & 37.

Dear Members,

On behalf of the Pella Windows and Doors of New England and Spectex Realty LLC, Norway Plains Associates, Inc. is pleased to submit plans and Conditional Use application for a proposed executive office and distribution facility located off Airport Drive. The parcels, Tax Map 243, Lots 36 & 37 are comprised of 4.63 acres and is currently owned by Spectex Realty LLC. The parcels are slated to be sold to the applicate shortly after approval from the Rochester Planning Board and will be merged into a single lot. This Conditional Use application is being submitted in conjunction with a proposed Non-residential Site Plan application to the Rochester Planning Board.

The parcels are located within the Granite State Business Park (GSBP) and in the Industrial (GI) zoning district. Located northerly of the properties is NH Northcoast Railroad with a vacant parcel owned by the city across the tracks. To the east is the city land with a municipal sewage pump station that services the industrial park. West of the parcel is another manufacturing parcel, which should be starting shortly as LDI Solutions, LLC. Across Airport Drive are parcels owned by Albany International Techniwave Inc and Albany Engineering Composite Inc. Access to the project will be from a single driveway located off Airport Drive.

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Pella Windows and Doors of New England is proposing to construct a 120' by 2000' (24,000 square feet print) building on the parcels. This building will have two units, with one being approximately one third (45,000 sq. ft.) the size of the main facility. The larger west end of the building will be approximately 18,000 square feet of warehouse and distribution space. The eastern end of the building will consist of two-story office space and meeting space. The proposed building will be steel framed and metal sided with a gradual slopped roof from the front towards the rear.

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The project will require approval from NHDES Alteration of Terrain Bureau for the proposed earth disturbance associated with the construction of the facility. There will not be any direct impacts to the jurisdictional wetlands. Minor grading for the proposed parking lot is proposed within the outer 25 feet of the Conservation Overlay district, totaling approximately 5,825 square feet. With the use of a retaining wall and stabilized 2:1 slope, along the northern and eastern edges of the development, there is no impact in the inter 25 feet of the CO.

Should the Commission need additional information or have any questions, please feel free to contact our office. Otherwise we look forward to discussing this project with staff and the Conservation Commission. Thank you for your consideration

Sincerely,

NORWAY PLAINS ASSOCIATES, INC.

By:

Scott A. Lawler, PE, Project Engineer

cc: Pella Doors and Windows of New England Spectex Reality LLC

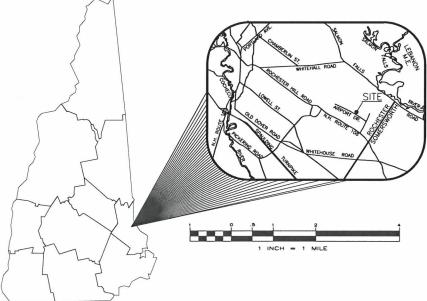
PROPOSED EXECUTIVE OFFICES AND DISTRIBUTION CENTER FOR

# PELLA WINDOWS AND DOORS OF NEW ENGLAND 109 AIRPORT DRIVE

ROCHESTER, N.H. 03867 SEPTEMBER 2020

LDI SOLUTION, LLC





CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION, SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION, CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GETECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY OUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)—335—3948.

NORWAY PLAINS ASSOCIATES, INC. 2 CONTINENTAL BOULEVARD ROCHESTER, NEW HAMPSHIRE 03867 (603) 335-3948

31 Mooney Street, Alton, N.H. 603-875-3948

#### OWNER OF RECORD

TAX MAP 243, LOT 36 & LOT 37 OWNER OF RECORD: SPECTEX REALTY LLC 1 PROGRESS DRIVE DOVER, NH 03820-5450 SCRD BOOK 3340, PAGE 690

PELLA WINDOWS AND DOORS OF NEW ENGLAND 137 BROWN ROAD TUFROTNBORO, NH 03816 (603) 986-2979

ALBANY INTERNATIONAL

NPDES PERMITS CONSIST OF A NOTICE OF INTENT (NOI) FILED WITH THE ENWRONMENTAL PROTECTION AGENCY AT LEAST 14 DAYS PRIOR TO CONSTRUCTION COMMENCION AND A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) BEING PREPARED, KEPT ON SITE AND FOLLOWED BY THE CONTRACTOR.

FOR STATUS OF THIS PERMIT, CONTACT THE PROJECT GENERAL CONTRACTOR.

FINAL APPROVAL BY ROCHESTER PLANNING BOARD

OF ROCHE	WAGE	IRIAL RAGE
NAL .	NEXTPHASE MEDICAL DEVICE	

EXISTING FEATURES OVERALL SITE PLAN SITE LAYOUT PLAN GRADING AND DRAINAGE PLAN

**OVERALL SITE** 

CITY OF ROCHESTER

PROPOSED EXECUTIVE OFFICE & DISTRIBUTION CENTER (24,000 SF)

AIRPORT DRIVE

NEW HAMPSHIRE NORTHCOAST CORPORATION

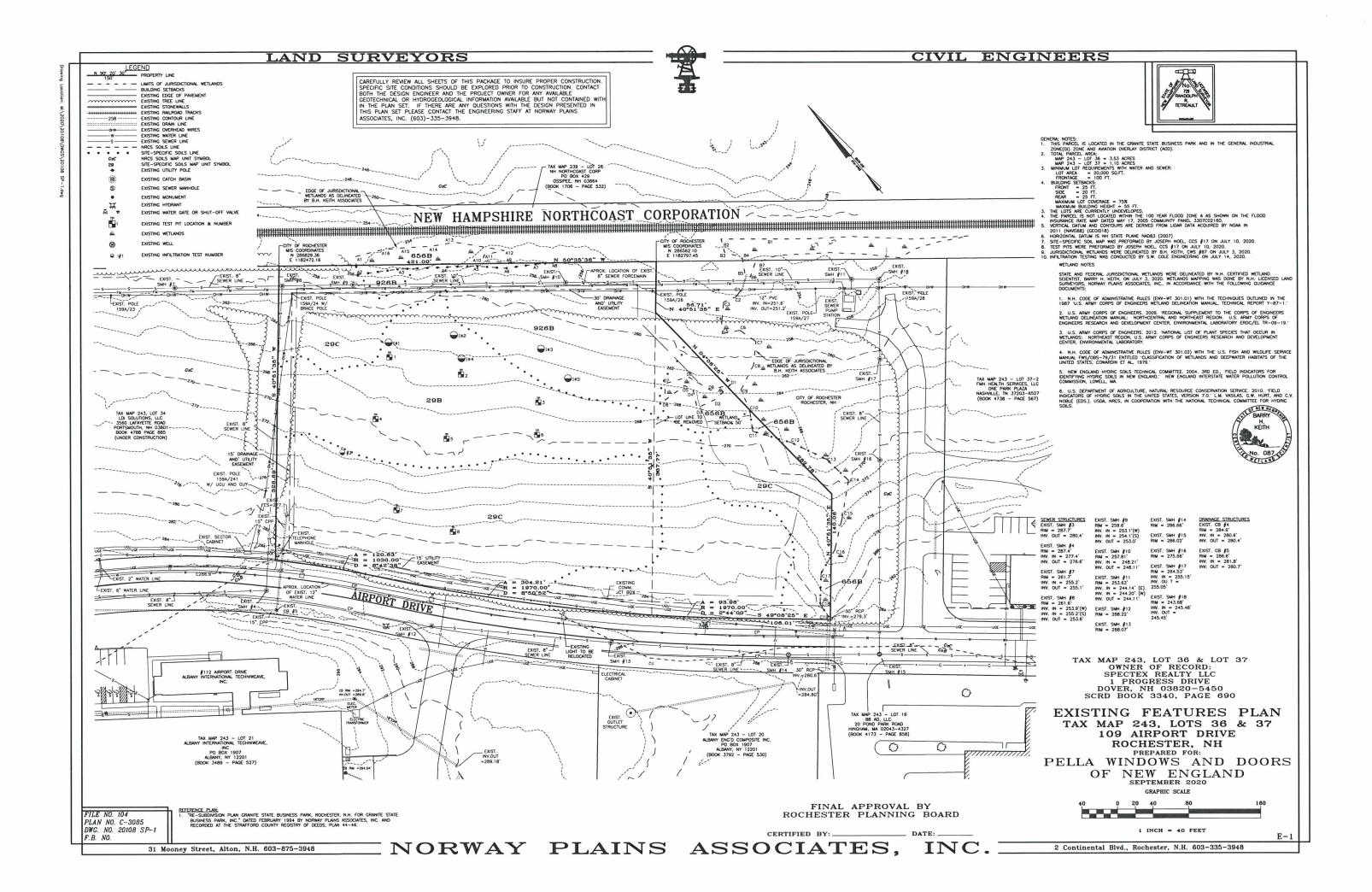
#### EROSION AND SEDIMENTATION CONTROL PLAN UTILITY PLAN 1" = 40' 1" = 40' PARKING AND SIDEWALK DETAILS AS SHOWN SHEET C-6 SHEET C-7 SHEET C-8 CONSTRUCTION DETAILS DRAINAGE DETAILS AS SHOWN SHEET C-9 STORMTECH DETAILS SHEET C-10 TEMPORARY EROSION AND SEDIMENTATION AS SHOWN CONTROL DETAILS SHEET C-11 SHEET C-12 UTILITY DETAILS AS SHOWN AS SHOWN 1" = 40' SHEET L-1 LIGHTING PLAN AND DETAILS SITE LANDSCAPING PLAN GROUND FLOOR 1/8" = 1'-0" 1/8" = 1'-0" 1/8" = 1'-0" 1/8" = 1'-0" SHEET A1.2 SECOND FLOOR SHEET A2.1 EXTERIOR ELEVATIONS SHEET A2.2 EXTERIOR ELEVATIONS

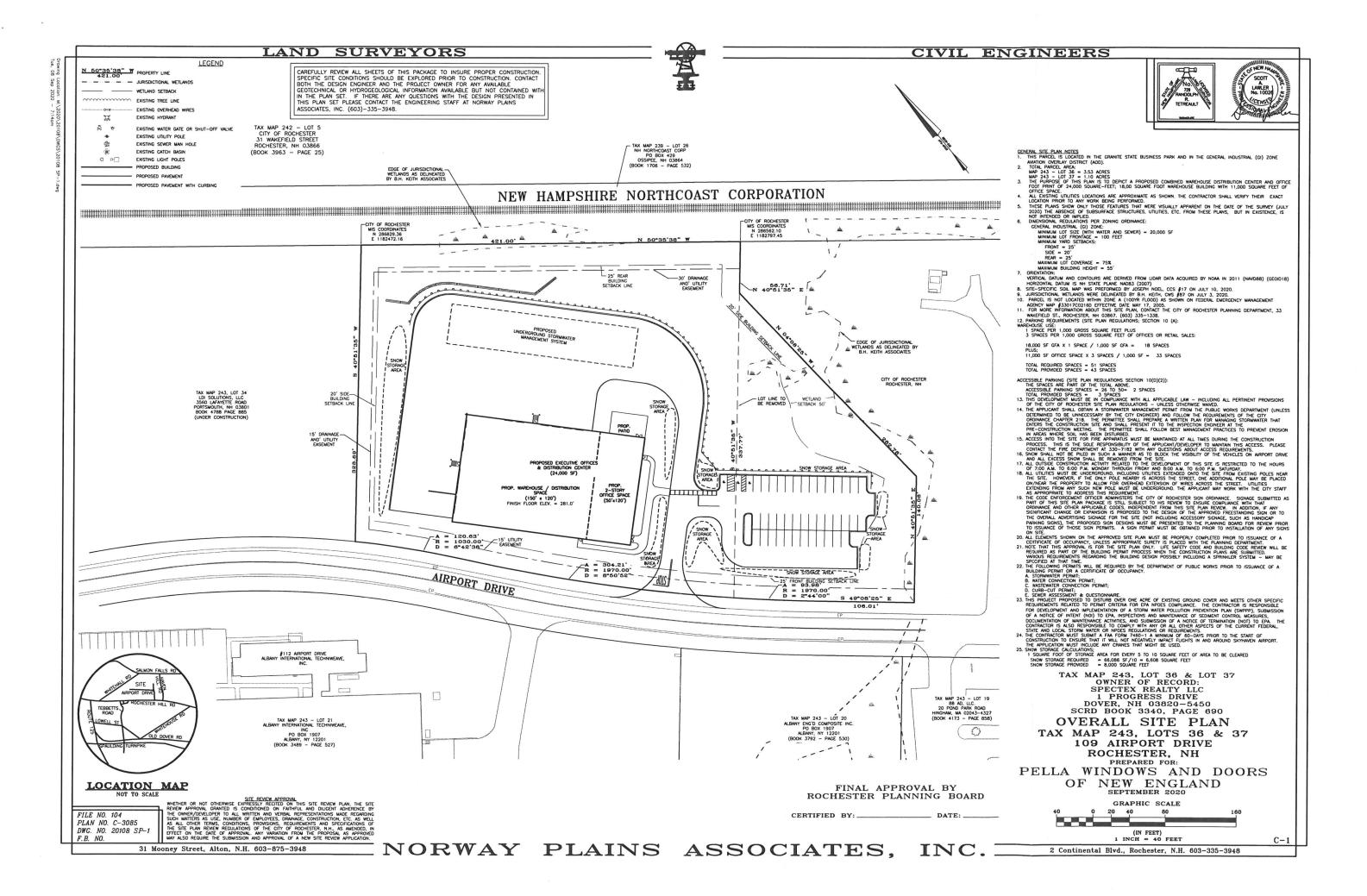
FILE NO. 104 PLAN NO. C-3085 DWG. NO. 20108 SP-1

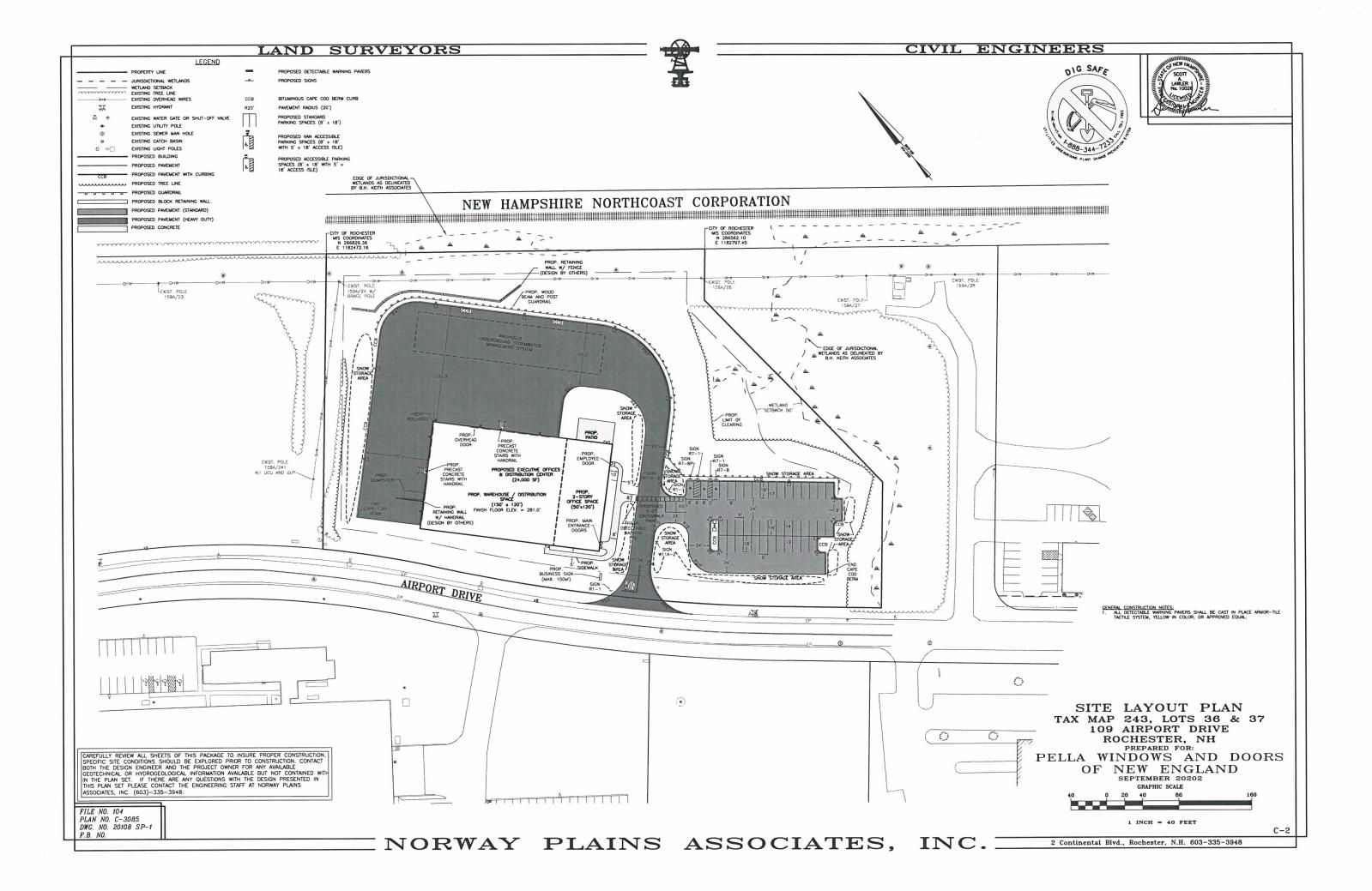
NORWAY PLAINS ASSOCIATES, INC.

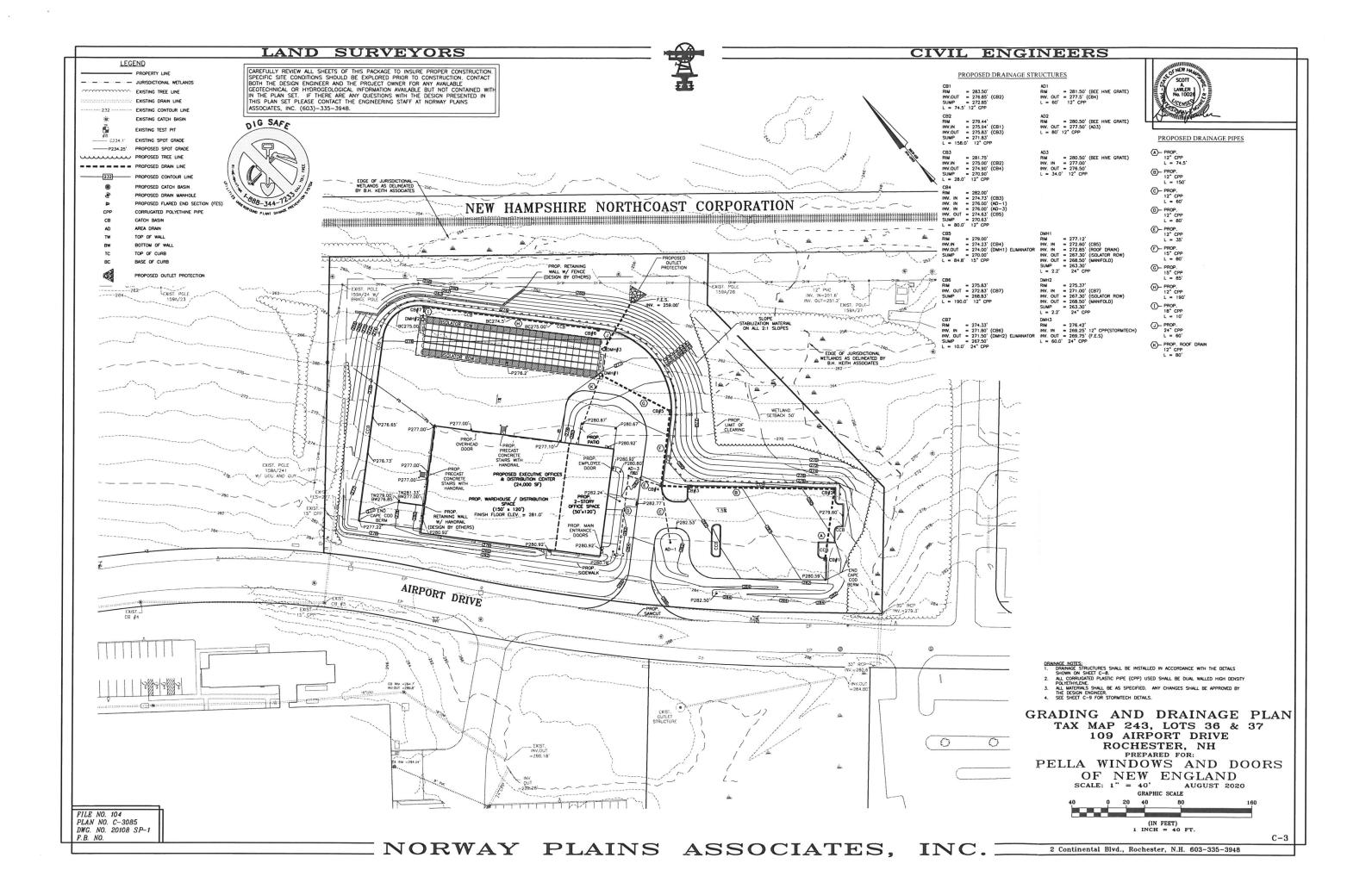
2 Continental Blvd., Rochester, N.H. 603-335-3948

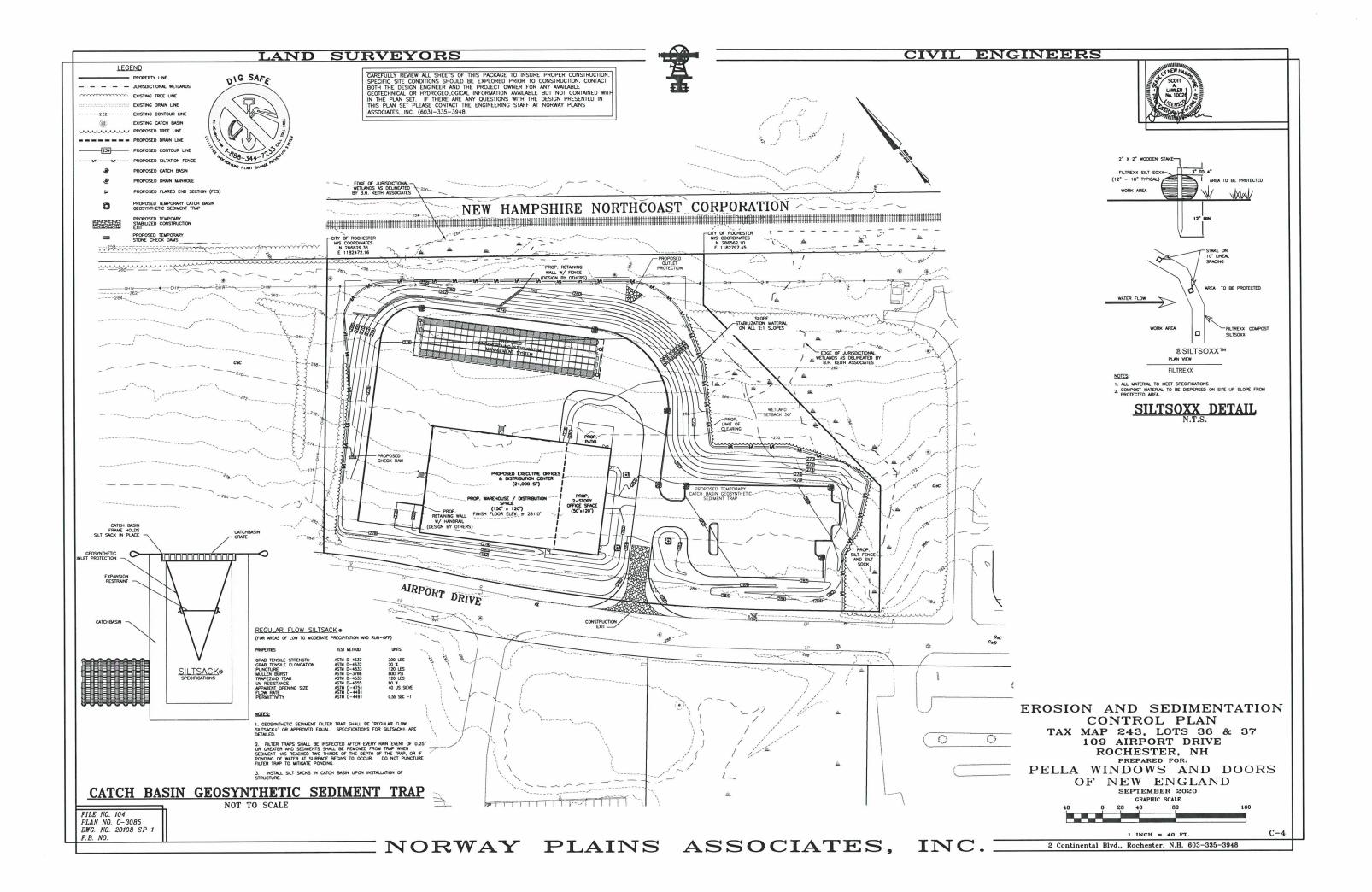
CIVIL ENGINEERS

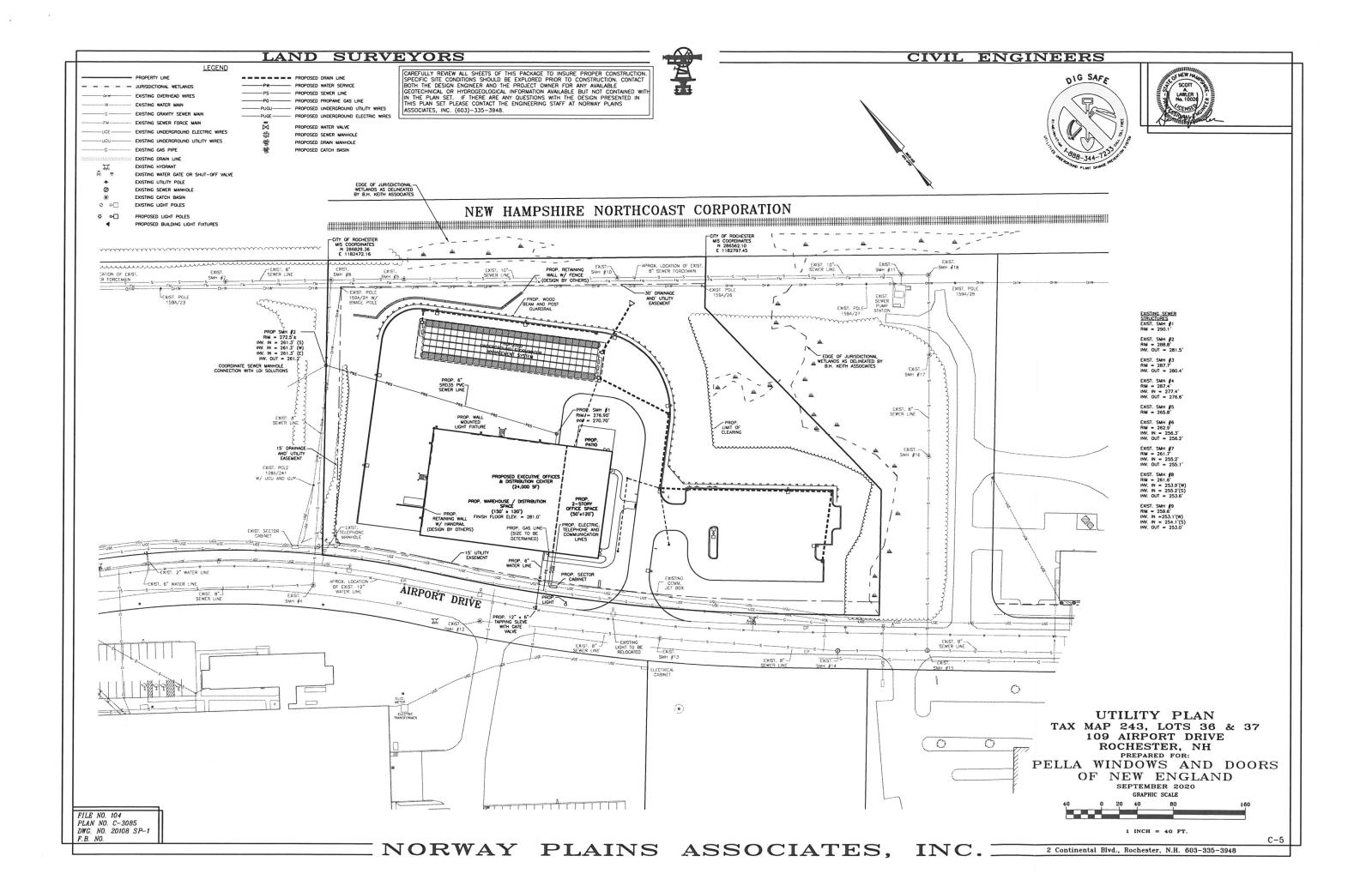


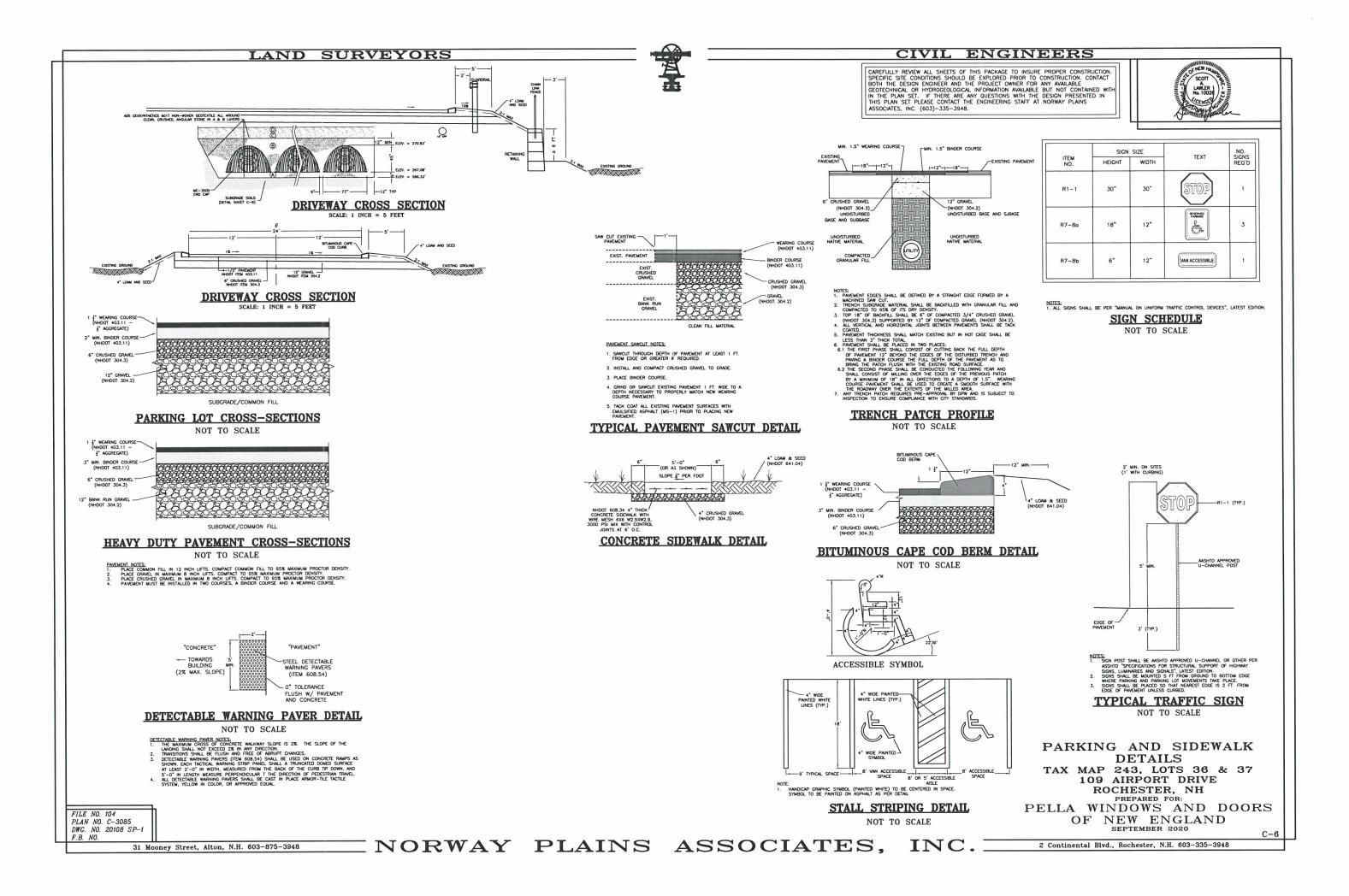














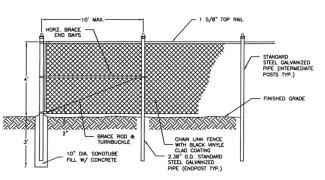
#### CIVIL ENGINEERS

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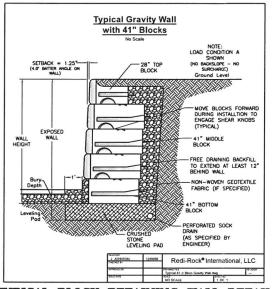
#### **DUMPSTER PAD DETAIL**

NOT TO SCALE



## TYPICAL CHAINLINK FENCE

NOT TO SCALE



#### TYPICAL BLOCK RETAINING WALL DETAIL

#### NOT TO SCALE

- IES:
  SOON OF RETAINING WALLSTO BE PROVIDED BY MANUFACTURE AND INSTALLED PER THE
  MANUFACTURES REQUIREDLESS
  SHOP DRAWNIGS SHALL BE SUBMITTED PRIOR TO ORDERING AND APPROVED BY NORWAY
  PLANS ASSOCIATES, INC.
  CHARLINK FENCE SHALL BE INSTALLED ON TOP OF WALL WHERE THE VERTICAL DROP IS
  GREATER THAN 2 FEET OR AS REQUIRED BY CODES.

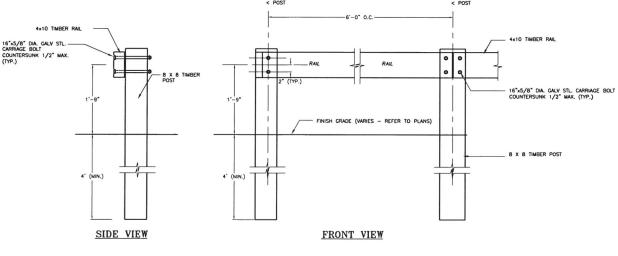
# PAVED WALKWAY GALVANIZED STEEL HANDRAIL, PAINTED. PAVEMENT **PROFILE PLAN** PAVEMENT

# RAIL & STAIR DETAIL

31 Mooney Street, Alton, N.H. 603-875-3948

NOT TO SCALE

FILE NO. 104 PLAN NO. C-3085 DWG. NO. 20108 SP-1 F.B. NO.



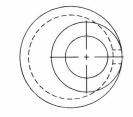
# WOOD GUARDRAIL DETAIL

NOT TO SCALE

CONSTRUCTION DETAILS TAX MAP 243, LOTS 36 & 37 109 AIRPORT DRIVE ROCHESTER, NH PREPARED FOR: PELLA WINDOWS AND DOORS OF NEW ENGLAND

SEPTEMBER 2020

NORWAY PLAINS ASSOCIATES, INC. I



PLAN VIEW

DRAIN LINE DIAMETER	SUM OF DRAIN LINE DIAMETER	CATCH BASIN DIAMETER
15" TO 18"	LESS THAN 54"	4'
21" TO 27"	LESS THAN 72"	5'
30" TO 33"	LESS THAN 90"	6'
36" & LARGER	GREATER THAN 90"	REFER TO THE STANDARD

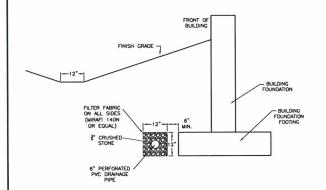
## . CONCRETE: 4,000 PSI AFTER 28 DAYS. . REINFORCING: SHALL BE PROVIDED FOR H-20

- LOADING.

  3. SHIPLAP JOINTS SEALED WITH 1 STRIP OF BUTYL RUBBER SEALANT.
- RUBBER SEALANT,
  4. PIPE OPENINGS CAST IN AS REQUIRED.
  5. RISER HEIGHT VARIES 1', 2', 3' OR 4' TO REACH
  DESIRED DEPTH.
  6. PIPE CONNECTIONS SHALL BE MORTARED.
  7. PRECAST SECTIONS SHALL CONFORM TO ASTM

#### SECTION VIEW PRE-CAST REINFORCED CATCH BASIN

NOT TO SCALE

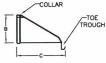


#### FOUNDATION AND DRIP EGDE DRAIN DETAIL





TOP VIEW





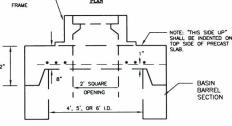
SIDE VIEW

FRONT VIEW

FLAIRED END SECTION DETAIL

NOT TO SCALE

FILE NO. 104 PLAN NO. C-3085 DWG. NO. 20108 SP-1 31 Mooney Street, Alton, N.H. 603-875-3948

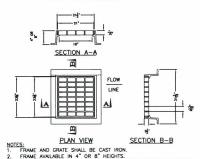


#### ELEVATION

SLAB TO BE PLACED IN LIEU OF TAPERED SECTION WHERE PIPE WOULD OTHERWISE ENTER INTO TAPERED SECTION OF THE STRUCTURE AND WHERE

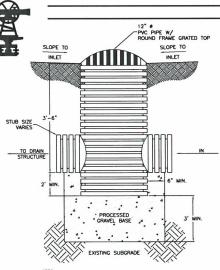
#### REINFORCED CONCRETE SLAB COVER

NOT TO SCALE



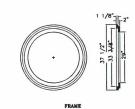
CATCH BASIN TYPE 'B' GRATE DETAIL

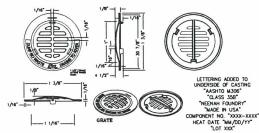
NOT TO SCALE



# AREA DRAIN DETAIL

NOT TO SCALE



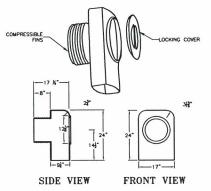


ROUND FRAME AND GRATE DETAIL NOT TO SCALE

### CIVIL ENGINEERS

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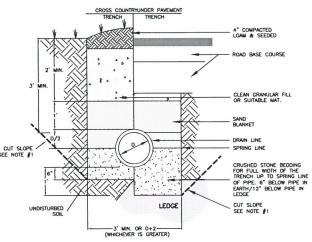
#### **ELIMINATOR CATCH BASIN** OIL AND DEBRIS TRAP DETAIL

NOT TO SCALE

E:

HOOD SHALL BE "THE ELMINATOR" OIL & FLOATING DEBRIS TRAP AS MANUFACTURED BY
GROUND WATER RESOUE, INC., QUINCY, MA., TEL. 617-773-1128 ON THE WEB ♥

WWW.N.LEANSTREMA.CON
AVAILABLE IN 8", 10", 12", 15" AND 18" DIAMETERS.



NOTES: MY SE INSTALLED BY EXAMINE AN OBSY TREVIAL WITH SIDE SLOPES OF 1:1 MAXMUM TO A 1. PIPES MY SEE INSTALLED BY EXAMINE AN OBSY THE ALT TREVIAL WE SEE OF A TREVIAL BOX. 2. PIPE MATERIALS SHALL BE AS SPECIFIC ON THE DESIGN FAM. 3. SHOP BLANKET MAY BE OMITTED FOR PROPROFICE CONCRETE PIPE.

## DRAINAGE PIPE TRENCH INSTALLATION DETAIL

DRAINAGE DETAILS TAX MAP 243, LOTS 36 & 37 109 AIRPORT DRIVE ROCHESTER, NH PREPARED FOR: PELLA WINDOWS AND DOORS OF NEW ENGLAND

SEPTEMBER 2020

#### ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

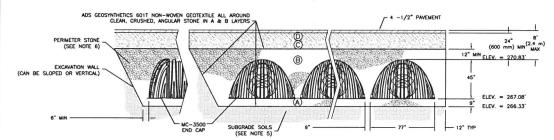
MATERIAL LOCATION		MATERIAL LOCATION DESCRIPTION		COMPACTION / DENSITY REQUIREMENT	
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAWEMENT OR UNPARED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAYED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.	
с	INITIAL FILL: FILL MATERIAL FOR LAYER "C" STARTS FROM THE TOP OF THE EMBEDMENT STONE ("B LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER, NOTE THAT PANEMENT SUBBASE MAY BE A PART OF THE "C" LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.  MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145' A-1, A-2-4, A-3  OR  AASHTO M43' 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS FRACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95%. PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.	
8	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43' 3, 4	NO COMPACTION REQUIRED.	
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)	AASHTO M43' 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ' '	

- PLEASE NOTE:

  1. THE LISTED ASHITO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR FOR EXAMPLE, A SPECIFICATION FOR \$4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO MA3) STONE".

  2. STORMITCH COMPACTION REQUIREMENTS ARE MET FOR "A" LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIGRATORY COMPACTOR.

  3. WHERE INFLITATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMITCH FOR COMPACTION REQUIREMENTS.



FILE NO. 104 PLAN NO. C-3085

DWG. NO. 20108 SP-1

- 1. MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"."J
  2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"."J
- ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND

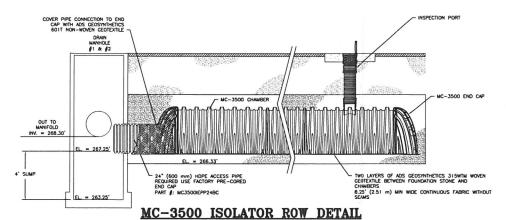
# MC-3500 CROSS SECTION AND END SECTION

NOT TO SCALE

#### CIVIL ENGINEERS

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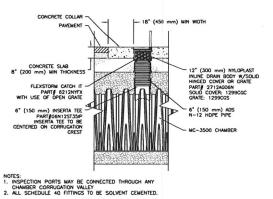
#### INSPECTION & MAINTENANCE

- - A. INSPECTION PORTS (IF PRESENT).

    A. I. REMOVE/OPEN LID ON INTOPLAST INLINE DRAIN
    A.1. REMOVE/OPEN LID ON INTOPLAST INLINE DRAIN
    A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
    A.3. USING A FLASHLIGHT AND STADJA ROD, MESSURE DEPTH OF SEDIMENT LAVELS (OPTIONAL)
    A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
    A.5. IF SEDIMENT IS AT, OR ABOVE, 3' (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
    B. ALL ISOLATOR ROWS
    B.1. REMOVE COVER DIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE"S) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY "JB) FOLLOW OSHAR REGULATIONS FOR CONFINED SPACE ENTRY "IF ENTERING MANIHOLE
    B.3. IF SEDIMENT IS AT, OR ABOVE, 3' (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS,"J.
   CONDUCT LETTING AND WCTORING ANNUALLY OR WHERE INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



SUMMARY LAYOUT
(162) STORWIECH MC-3500 CHAMBERS
(12) STORWIECH MC-3500 END CAPS
INSTALLED WITH 12" COVER STONE, 9" BASE STONE, 40% STONE VOID
INSTALLED STEEM VOLUME: 31103 CF
AREA OF SYSTEM: 90231 FT
PERMETER OF SYSTEM: 506 FT

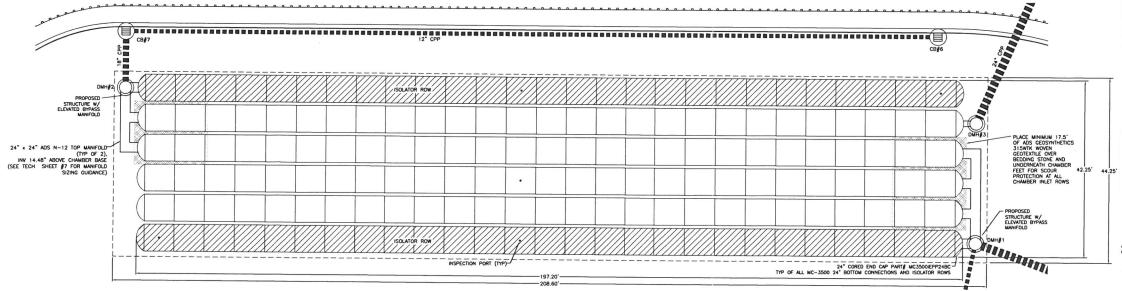
PERINELER OF STSTEM: 506 FT PROPOSED ELEVATIONS
MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):
TOP OF STONE:
10P OF CHANGEIGN INVEST:
24\* TOP CONNECTION INVEST:
24\* BOTTOM CONNECTION INVEST (SOLATOR ROW):

CONNECTION DETAIL

NOT TO SCALE

6" (100 mm) SCHED 40 PVC COUPLING 6" (100 mm) SCHED 40 PVC

# MC-3500 6" INSPECTION PORT DETAIL



PLAN VIEW OF STORMTECH CHAMBERS

STORMWATER MANAGEMENT SYSTEM TAX MAP 243, LOTS 36 & 37 109 AIRPORT DRIVE ROCHESTER, NH PREPARED FOR

PELLA WINDOWS AND DOORS OF NEW ENGLAND SEPTEMBER 2020

31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC. =

# NORTH AMERICAN GREEN MOM EROSION CONTROL Produc Guaranteed SOLUTIONS **(A)**

LAND SURVEYORS

SLOPE INSTALLATION

<u>ITENANCE REQUIREMENTS:</u> ALL BLANKET AND MATS SHALL BE INSPECTED WEEKLY DURING THE CONSTRUCTION PERIOD, AND AFTER ANY RAINFALL EVENT EXCEEDING 1/2 INCH IN A 24-HOUR PERIOD. IF WASHOLD OF THE SLOPE, DISPLACEMENT OF THE MAT, FORWARD LEVEL OF THE MAT, OR DANGE TO MAY FAULURE SHALL BE REPAIRED IMMEDIATELY. IF WASHOLT OF THE SLOPE, DISPLACEMENT OF THE MAT, OR DANGE TO ME MAT, OR DANGE TO MAY FAULURE SHALL BE REPAIRED AND RESEDED, AND THE AFFECTED AREA OF MAT SHALL BE

RE-INSTALLED.

IRUCTION SPECIFICATIONS:

MANUFACTURE'S INSTALLATION INSTRUCTIONS

SIGNION SPECIFICATIONS:

WINFACTURES' INSTITULATION INSTRUCTIONS:

PREPARE SOLI BEFORE INSTITULING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY

APPLICATION OF LIME, FERTILIZER, AND SEED.

NOTE: WHEN USING CELL—O—SEED DO NOT SEED PREPARED AREA. CELL—O—SEED MUST BE INSTALLED WITH

PAPER SIDE DOWN.

BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6° (15 CM) DEEP X 6° (15 CM) DIED

FRENCH WITH APPROXIMATELY 12° (30-cm) OF RECP's EXTENDED BEYOND THE UP—SLOPE PORTION OF THE

FRENCH. ANCHOR THE RECP's MITH A ROW OF STAPLES/STANES APPROXIMATELY 12° (30-cm) FILE

FRENCH AND FOLD REMAINING 12° (30 CM) PORTION OF RECP's BUCK OVER SEED AND COMPACTED SOIL.

SOIL AND FOLD REMAINING 12° (30 CM) PORTION OF RECP's BUCK OVER SEED AND COMPACTED SOIL

APPROFRANTE SIDE AGAINST HE RECP'S LIMIT A ROW OF STAPLES/STANES SPACED APPROXIMATELY 12° (30 CM)

APART ACROSS THE WIDTH OF THE RECP'S MUST BE SECURELY FASTENDED TO SOIL SURFACE

APPROPRIATE SIDE AGAINST HE RECP'S MUST BE SECURELY FASTENDED TO SOIL SURFACE

SET SECURE FASTENDED TO SOIL SURFACE ALL RECP'S MUST BE SECURELY FASTENDED TO SOIL SURFACE

SET SECURE FASTENDED TO SOIL SURFACE ALL RECP'S MUST BE SECURELY FASTENDED TO SOIL SURFACE

SET PLACING STAPLES/STANES HAS PREPARED SAFELED. AND THE STAPLE PATTERN CUIDE. WHEN

USING THE DOTS STAPLES/STANES SAFELES SAFELE BY LACED THROUGH EACH OF THE COLORED DOTS

THE EDGES OF PARALLER RECP'S MUST BE STAPLED WITH APPROXIMATELY 2°—5° (5 CM — 12.5 CM)

OVERLAP DEPENDING ON RECP'S TOPE.

THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPHOXIMATELY 2" - 5 (S CM - 12.5 CM)
OWERLAP DEPENDING ON RECP'S TYPE.
CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN
APPROXIMATE 3" (7,5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART
ACROSS ENTIRE RECP'S WIDTH.
NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY
BE NECESSARY TO PROPERLY SECURE THE RECP'S.

E PREPARATION:
PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE COMPLETE CONTACT OF THE PROTECTION MATTING WITH THE SOIL.
GRADE AND SHAPE AREA IF INSTALLATION.
REMOVE AND SHAPE AREA IF INSTALLATION.
PROPER CONTROL OF THE STALLATION OF THE PROPERTY OF THE INSTALLED BLANKETS WILL
REMOVE AND THE INSTALLED BLANKETS WILL
PREPARE SEEDBED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
REPARE SEEDBED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
REPARE SEEDBED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.
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REPARE SEEDBED BY LOOSENING 2-3 INCHES OF TOPSOIL ABOVE FINAL GRADE.

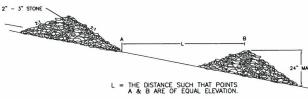
SEEDING:
A SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND REVEGETATION. SEEDING AFTER MAT INSTALLATION IS OFTEN SPECIFIED FOR TURF REINFORCEMENT APPLICATIONS, WHEN SEEDING PRIOR TO BLANKET INSTALLATION, ALL CHECK SLOTS AND OTHER AREAS DISTURBED DURING INSTALLATION MUST BE RESEEDED.

B. WHEN SOLI FILLING IS SPECIFIED, SEED THE MATTING AND THE ENTIRE DISTURBED AREA AFTER INSTALLATION AND PT TO FILLING THE MAT WITH SOIL.

#### **TEMPORARY** EROSION CONTROL BLANKET DETAIL

NOT TO SCALE





#### SPACING BETWEEN STONE CHECK DAMS

CONSTRUCTION SPECIFICATIONS:

1 STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE

APPROPRIATE SPACING.

2 CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION, AIR AND WATER POLLUTION WILL BE MINMIZED.

5 STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.

MANTENANCE MOTES:

1. TEMPORARY GRADE STABULZATION STRUCTURES SHALL BE INSPECTED AFTER EACH STORM AND DAILY DURING PROLONGED STORM EVENTS. ANY DAMAGE TO THE STRUCTURES SHALL BE REPAIRED

IMMEDIATELY.
PARTICULAR ATTENTION SHALL BE GIVEN TO END RUN AND EROSION AT THE DOWNSTREAM TOE OF THE

STRUCTURE.

3. WHEN PERMONNE THE STRUCTURES, THE DISTURBED AREAS SHALL BE BROUGHT UP TO EXISTING CHANNEL GRADE AND THE AREAS PREPARED, SEEDED AND MULCHED.

4. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT REACHES 1/2 THE ORIGINAL HEIGHT OF THE STRUCTURE.

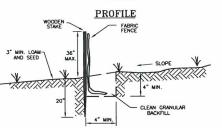
F.B. NO.

#### STONE CHECK DAM INSTALLATION DETAIL

31 Mooney Street, Alton, N.H. 603-875-3948

NOT TO SCALE FILE NO. 104 PLAN NO. C-3085 DWG. NO. 20108 SP-1

FABRIC FENCE



#### CROSS-SECTION

<u>intenance requirements;</u> Fences shall be inspected and maintained immediately after each rainfall and at least daily during prolonged rainfalls; Sediment deposition shall be removed, at a minimum, when deposition accumulates to one-half the height of the fence, and moved to an appropriate location so the sediment is not readily transported back toward the

SSCHIEDET DEPOSITION SHALL BE REMOVED, AT A INHIBIDAT. WHEN DEPOSITION TO READILY TRANSPORTED BACK TOWARD THE FENCE, AND MOVED TO AN APPROPRIATE LOCATION SO THE SEDIMENT IS NOT READILY TRANSPORTED BACK TOWARD THE SILT FENCES SHALL BE REPAIRED INMEDIATELY IF THERE ARE MY SIGNS OF BROSSON OR SEDIMENTATION BELOW THEM, IF SHIT FENCES SHALL BE REPAIRED IN THE SHIP SHOW THE SHIP SHALL BE REPAIRED BY THE BARRIER, OR MIPOUNDED SHIP SHIP SHIP SHOWS TO THE WORLDOOK THE SHALL BE REPAIRED WITH A TEMPORARY CHECK DAW. SHALL THE FABRIC ON A SILT FENCE SECONDOPS OR BECOME INSPECTED PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER SHALL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRAVE PREPAIRED AND THE SECOND SHALL SHALL BE REPLACED TO THE EXISTING GRAVE PREPAIRED AND THE SECOND SHALL BE REPLACED TO THE WITH OTHER MEASURES, SUCH AS TEMPORARY OVERSIONS AND SEDIMENT TAPES.

SILT FENCES HAVE A USEFUL LIFE OF ONE SEASON. ON LONGER CONSTRUCTION PROJECTS, SILT FENCE SHALL BE REPAIRED PERIODICALLY AS REQUIRED TO MAINTAIN EFFECTIVENESS.

CONSTRUCTION SPECIFICATIONS:
FENCES SHALL BE USED IN AREAS WHERE EROSION WILL OCCUR ONLY IN THE FORM OF SHEET EROSION AND THERE IS NO CONCENTRATION OF WHERE IN A CHANNEL OR DRAINGE WAY ABOVE THE FENCE SEDWENT BARRIERS SHALL BE INSTALLED PROFIT TO ANY SOLD DISTURBANCE OF THE CONTRIBUTING DRAINGE AREA ABOVE THEM.
THE MADBIUM CONTRIBUTING DRAINGE AREA ABOVE THE FENCE SHALL BE LESS THAN 1 ACRE PER 100 LINEAR FEET OF

PRIOR TO ANY SOLL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA BADOVE THE FERCE SHALL BE LESS THAN 1 ACRE PER 100 LINEAR FEET OF FRENCH SHALL BE LESS THAN 1 ACRE PER 100 LINEAR FEET OF FRENCH SHALL BE LESS THAN 1 ACRE PER 100 LINEAR FEET OF FRENCH SHALL BE LESS THAN 1 ACRE PER 100 LINEAR FEET OF FRENCH SHALL BE AREA BADOVE THE FENCE SHALL BE 100 FEET;

5. FENCES SHALL BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE, AND A. THE ROSS OF THE FENCE SHALL BE LARRED UPSLOPE?

8. THE FRABRIC SHALL BE EMBEDDED A MINIMUM OF A INCLES IN DEPTH AND INCHES IN WIDTH IN A TRENCH EXCAVATED INTO THE GROUND, OR YESTED CONTONS INCLUDE FROZEN GROUND, LEDGE, OR THE PRESENCE OF HEAVY ROOTS, THE INTO THE GROUND, OR YESTED CONTONS INCLUDE FROZEN GROUND, LEDGE, OR THE PRESENCE OF HEAVY ROOTS, THE INTO THE CONTON OF THE PER SHALL BE COMPACTED OVER THE EMBEDDED FABRIC;

C. THE SOLL SHALL BE COMPACTED OVER THE EMBEDDED FABRIC;

C. THE SOLL SHALL BE COMPACTED OVER THE EMBEDDED FABRIC;

C. DISPORTED FOSTS SHALL BE SZED AND ANCHORED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS WITH MAXIMUM POST SPACING OF 6 FEET;

E. ADJOINING SECTIONS OF THE FENCE SHALL BE OVERLAPPED BY A MINIMUM OF 6 INCHES (24 INCHES IS PREFERRED), FOLDED AND STAPLED TO A SUPPORT POST. IF METAL POSTS ARE USED, FABRIC SHALL BE WIRE-TED DIRECTLY TO THE POLICE AND STAPLED TO A SUPPORT POST. IF METAL POSTS ARE USED, FABRIC SHALL BE WIRE-TED DIRECTLY TO THE POLICE SHALL BE SET PROBLEM SHALL HOLD BE STAPLED TO A SUPPORT POST. IF METAL POSTS ARE USED, FABRIC SHALL BE WIRE-TED DIRECTLY TO THE POLICE SHALL BE STAPLED TO A SUPPORT POST. IF METAL POSTS ARE USED, FABRIC SHALL BE WIRE-TED DIRECTLY TO THE POLICE SHALL ON THE POLICE SHALL BE WIRE-TED DIRECTLY TO THE POLICE SHALL BE STAPLED TO A SUPPORT POST. IF METAL POSTS AND USED. FABRIC SHALL BE WIRE-TED DIRECTLY TO THE POLICE SHALL BE STAPLED TO A SUPPORT POST. IF METAL POSTS AND USED. THE POLICE SHALL BE STAPLED TO A SUPPORT POST. SHALL BE STAPLED TO A SUPPORT POST. SHALL BE STAPLED TO THE POST. SHALL BE CONT

14. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UP GRADENT FROM THE BARRIES FILTER FABRIC SHALL BE TARRIED OR WRISE TO THE PEAR TO THE FABRIC SHALL BE TARRIED OR WRISE TO THE FABRIC GROUND SURFACE.

16. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.

17. SILT FERCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.

18. SILT FERCH MAY BE INSTALLED BY "SULFON' SURION MECHANICAL EQUIPMENT SPECIFICALLY DESIGNED FOR THIS PROCEDURE. THE SUCHNIG METHOD USES AN IMPLEMENT TOWER DEHIND A TRACTOR TO "PLOW" OR SUCE THE SILT FEXCE MATERIA INTO THE SUCHNIG METHOD METHOD WITH A SOIL PRIMARY AND SULFITHED SHALL BE MATCHED MINIMALTY OF SILD PRIMARY AND SULFITHED METHOD THE SUCH MATCH MINIMALTY OF SILD PRIMARY AND SULFITHED METHOD METHOD THE SUCH METHOD WITH A SOURCE SHALL BE MISTALLED WITH "SALLES" OR "J-HOOKS" TO PEQUE THE DRAINAGE AREA THAT ANY SEGMENT WILL MAPOUND.

IN INPOUND.

19. THE ENDS OF THE FENCE SHALL BE TURNED UPHILL.

10. SILT FENCES PLACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 6 FEET FROM THE TOE M ALLOW SPACE FOR SHALLOW PONDING AND TO ALLOW FOR MANIFEMANCE ACCESS WITHOUT DISTURBING THE SLOPE.

21. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANETLY STRAILZED.

#### SILTATION CONTROL FENCE DETAIL

NOT TO SCALE

#### TEMPORARY VEGETATION SEEDING RECOMMENDATIONS

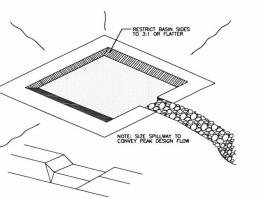
SPECIES	PER ACRE BUSHELS (BU) OR POUNDS (LBS.)	PER 1,000-SF	REMARKS
WINTER RYE	2.5 BU OR 112 LBS.	2.5 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 1 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	2.5 BU OR 80 LBS.	2.0 LBS.	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYE GRASS	40 LBS.	1.0 LB.	GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCE ARE IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15 AND SEPTEMBER 15. COVER THE SEED WITH NO MORE THAN 0.25 INCH OF SOIL.
PERENNIAL RYE GRASS	30 LBS.	0.7 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 1 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.

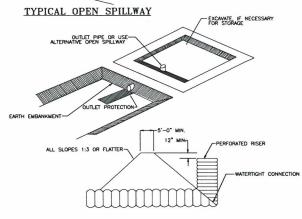
2. MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)

### CIVIL ENGINEERS

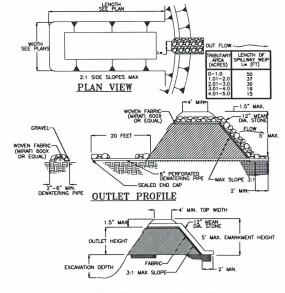
CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)–335–3948.







#### EMBANKMENT SECTION THRU RISER



ALTERNATE OUTLET PROFILE

SEDIMENT TRAP

#### **TEMPORARY VEGETATION:**

JPCCIFCATIONS: SITE PREPARATION: 1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND

INSTALL NEEDED EROSION AND SEDIMENT CONTINU. MICROSCIP.

SEDIMENT TRAPS.

GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING,
RUNGFF SHALL BE DIVERTED FROM THE SEEDBED AREA.

ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR O THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

PERPENDICULAR O THE DIRECTION OF THE SLOPE TO CALCH SEED AND RELOVE CHAPTER.

1. STONES AND TRANS HALL BE REMOVED SO AS NOT TO INTERPERE WITH THE SEEDING AREA.

2. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2

INCHES BEFORE PRETUNE FRITILIZED AND AN AREA STATEMENT OF THE PRETUNE OF THE PRETUNE FROM THE PRETUNE OF THE PRETUNE FROM THE PRETUNE OF THE PRETUNE FROM THE PRETUNE OF THE PRETUNE SHALL BE RESTRICTED TO LINE, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE NITROGEN WARETES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TEST MET AND LIWESTON OF THE PRESUNE OF THE PRESENCE OF THE PRESENC

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)\*
\*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)\* \*LOW PHOSPHATE FERTILIZER (6-0-4) OR EQUIVALENT

SEEDING:

1. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDRO SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10% WHICH HYDROSEDING.

2. TEMPORARY SEED SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 1S.

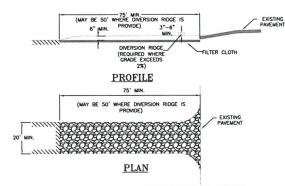
3. AREAS SEEDED BETWEEN MAY 15 AND ALGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO IN TEMPORARY AND PERMANENT MULCHING. PRACTICE DESCRIBED IN THE HYSMA, VOL. 3.

4. VECETATED GROWTH COVERING AT LEAST BSX OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 1S. F THIS COMPTION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WHITE PROTECTION.

ANNTENANCE REQUIREMENTS:
1. TEMPORARY SEEDING SHALL BE INSPECTED WEBXLY AFTER ANY RAINFALL EXCEEDING 1/2 INCH IN 24 HOURS
ON ACTIVE CONSTRUCTION SITES. TEMPORARY SEEDING SHALL BE INSPECTED JUST PRIOR TO SEPTEMBER 15,
10 ASCERTIAN HIETHER ADDITIONAL SEEDING IS REQUIRED TO PROVIDE STABILIZATION OVER THE WINTER

TO ASCERTAIN WHETHER AUDITIONAL SECURITY IS TRANSPORTED TO ACHENE FULL STABILIZATION OF EXPOSED SOILS. IF PERSON INSPECTION, AREAS SHALL BE RESECTED TO ACHENE FULL STABILIZATION OF EXPOSED SOILS. IF ANY EXPOSED SOILS BY THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION MEASURES SHALL BE INFLIENTED.

3. IF ANY EXIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESECTED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERSON OF VECETATION ESTABLISHMENT.



#### TEMPORARY CONSTRUCTION EXIT

NOT TO SCALE

MAINTENANCE REQUIREMENTS:

1. WHEN THE CONTROL PAD BECOMES INEFFECTIVE, THE STONE SHALL BE REMOVED ALONG WITH THE COLLECTED SOIL MATERIAL, REGRADED ON SITE, AND STABILIZED. THE ENTRANCE SHALL TEN BE RECONSTRUCTED.

2. THE CONTROL SHALL, SWEEP THE PAYEMENT AT EXITS WHENEVER SOIL MATERIALS ARE TRACKED THE CONTROL SHALL SWEEP THE PAYEMENT OF TRAVELED WIT.

3. WHEN WHELL WASHING IS REQUIRED, IT SHALL BE CONDUCTED ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRANK BIT ON AN APPROVED SEDIMENT—TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS.

CONSTRUCTON SPECIFICATIONS:

1. THE MINIMUM STORE USD SMALL BE 3-INCH CRUSHED STONE.

1. THE MINIMUM STORE USD SMALL BE 75 FEET, EXCEPT THAT THE MINIMUM LENGTH MAY BE REDUCED TO 50 FEET IF A 3-INCH TO 6-INCH BERM IS INSTALLED AT THE ENTRANCE OF THE PROJECT SITE.

1. THE PAO SMALL BE THE FULL WIDTH OF CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEVER IS

THE PAID SHALL BE UNEXTENDED THE EXISTING FOADWAY,
THE CAD SHALL SLOPE AWAY FROM THE EXISTING FOADWAY,
THE CAD SHALL BE AT LEAST 6 MCHES THICK.
THE COSTINITIES FILTER FABRIC SHALL BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE
BELOW THE PAD.
THE PAD SHALL BE MANTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN
THE STONE SUCH THAT MUD AND SOIL PARTICLES ARE TRACKED OFF-SITE.
NATURAL DEMANAGE THAT CROSSES THE LOCATION OF THE STONE PAD SHALL BE INTERCEPTED AND
PIPED BENEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET PROTECTION.

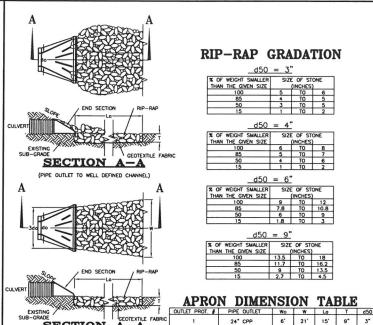
TEMPORARY EROSION AND SEDIMENTATION CONTROL TAX MAP 243, LOT 36 & 37 109 AIRPORT DRIVE ROCHESTER, NH PREPARED FOR:

PELLA WINDOWS AND DOORS OF NEW ENGLAND

SEPTEMBER 2020

C-10

NORWAY PLAINS ASSOCIATES, INC. =



NOTES:

ALL PIPE CULVERTS SHALL HAVE END SECTIONS OR HEADWALLS. END SECTION MATERIAL AND MANUFACTURER SHALL MATCH THAT

OF THE PIPE CULVERTI.

2. THE LARGEST RIP-RAP SIZE DETERMINED DURING HYDROLOGIC ANALYSIS HAS BEEN USED FOR ALL DUTLETS FOR ECONOMY AND SMPLICITY.

3. APRION LENGTHS, WIDTHS AND THICKNESSES HAVE BEEN ROUNDED UP TO WHOLE NUMBERS FOR EASE OF CONSTRUCTION.

SECTION A-A (PIPE OUTLET TO FLAT AREA NO WELL DEFINED CHANNEL)

- CONSTRUCTION SPECIFICATIONS:

  1. PREPARE THE SUB-GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP—RAP TO THE GRADES SHOWN ON THE PLANS.

  2. MINIMUM 6" SAND/GRANEL BEDDING OR GEOTEXTILE FABRIC REQUIRED LINDER ALL ROCK RIP—RAP.

  4. GEOTEXTILE FABRICS SMALL BE PROTECTED FROM PRINCTIFIES OF THE TOP SECRET OF ROCK RIP—RAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPARED BY PLACING A FIGURE OF THE MANAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPARS OR JOINING TWO (2) PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.

  5. STONE FOR THE RIP—RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SERECATION OF THE STONE SIZES.

  5. RIP—RAP SIZE AND SHALL REPARAMENT OF SERVENT SERECATION OF THE STONE SIZES.

  6. RIP—RAP SIZES AND SHALL REPARAMENT AND CHARLES AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SERECATION OF THE STONE SIZES.

MAINTENANCE NOTES:

1. OUTLETS SHALL SE INSPECTED AND CLEANED ANNUALLY AND AFTER ANY MAJOR STORM EYENT. ANY EROSION OR DAMAGE TO

1. OUTLETS SHALL SE INSPECTED IMMEDIATELY.

2. THE CHANNEL IMMEDIATELY DOMESTERAM FROM THE OUTLET SHOULD BE CHECKED TO SEE THAT NO EROSION IS OCCUPRING.

3. THE DOMNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT

COLLD CHANGE FROM PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO

AVOID ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APRON.

#### PIPE OUTLET PROTECTION DETAIL

## DUST CONTROL PRACTICES:

- APPLY DUST CONTROL MEASURES AS NECESSARY TO MAINTAIN CONTROL OF DUST ON SITE.

  WAITER APPLICATION:
  A) MOISTEN EXPOSED SOIL SURFACES PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.
  B) AVOID EXCESSIVE APPLICATION OF WATER THAT WOULD RESULT IN MOBILIZING SEDIMENT AND SUBSEQUENT
  DEPOSITION IN NATURAL WATERSOIDES.
- DEPOSITION IN NATURAL WATERBODIES.

  STONE APPLICATION:

  A) COVER SURFACE WITH CRUSHED OR COARSE GRAVEL.

  B) IN AREAS NEAR WATERWAYS USE ONLY CHEWICALLY STABILIZED OR WASHED AGGREGATE.

  REFER TO "NEW HAMPSHIRE STORNWATER WANAGEWENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION
  AND SEDIMENT CONTROL, SECEMBER 2006" FOR OTHER ALLOWABLE DUST CONTROL PRACTICES (I.E.

  COMMERCIAL TACKIFIERS OR CHEMICAL TREATMENTS SUCH AS CALCIUM CHLORIDE, ETC.)

#### STOCKPILE PRACTICES:

- LOCATE STOCKPILES A MINIMUM OF 50-FT. AWAY FROM CONCENTRATED FLOWS OF STORMWATER, DRAINAGE COURSES OR INLETS.
- COURSES OR INLETS.

  PROTECT ALL STOCKPILES FROM STORMWATER RUN—ON USING TEMPORARY PERIMETER MEASURES SUCH AS DIVERSIONS, BERMS, SANDBAGS OR OTHER APPROVED PRACTICES.

  SOURCESSORY OF THE PROPERT MIGRATION OF MATERIAL BEYOND THE MURIPAGE CONTROLS OF THE STOCKPILE, IMPLEMENT WIND EROSION CONTROL PRACTICES AS APPROPRIATE OR ALL STOCKPILED MATERIAL.

  MALE MAGGEOR MATERIALS ON PALLETS OR UNDERCOVER.

PROTECTION OF INACTIVE STOCKPILES:

6. INACTIVE SOIL STOCKPILES SHALL BE COVERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL STABILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND TEMPORARY PERIMETER SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES.

7. INACTIVE STOCKPILES OF CONCRETE RUBBLE, ASPHALL FOOKETE RUBBLE, AGGRECATE MATERIALS, AND SIMILAR MATERIALS SHALL BE PROTECTED WITH TEMPORARY SEDIMENT PERIMETER BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES.

8. IF THE MATERIALS ARE A SOURCE OF DUST, THEY SHALL ALSO BE COVERED.

FILE NO. 104 PLAN NO. C-3085 DWG. NO. 20108 SP-1

F.B. NO.

PROTECTION OF ACTIVE STOCKPILES:

8. ALL STOCKPILES SHALL BE SURROUNDED WITH TEMPORARY LINEAR SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.)
PRIOR TO THE ONSET OF PRECIPITATION. PERMETER BARRIERS SHALL BE MANTANED AT ALL TIMES, AND
ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIAL FROM THE STOCKPILE. THE
INTEGRITY OF THE BARRIER SHALL BE IMPORCED AT THE END OF EACH WORKING DAY.

9. WHEN A STORM IS PREDICTED, STOCKPILES SHALL BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERING.

31 Mooney Street Alton N.H. 603-875-3948

#### PERMANENT VEGETATION:

# SITE PREPARATION: INSTALL NEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIMERSIONS, AND SEDIMENT TRAPS. CRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA. OF SCIENCES 41 OR STEPPER, THE FRAM PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROORES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

- SECORED PERPARATION:

  1. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4
  INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL
  HARROWING OPERATION SHALL BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A
  REASONABLY UNFORM, THIS SECORED IS PREPARED. ALL BUT CLAY, AND SLIT SOUSS SHALL
  BE ROLLED TO FRIM THE SETEDBED WHEREVER FEASIBLE.
  BE ROLLED TO FRIM THE SETEDBED WHEREVER FEASIBLE.
  BE ROLLED TO FRIM THE SETEDBED WHEREVER FEASIBLE.
  BE ROLLED TO FRIM THE SIRPARCE ALL STRONGS 2INCHES OR LARGER IN ANY DIMENSION. REMOVE
  AND OTHER UNSUITABLE MATERIA.
  BE ROLLED TO FRIM THE SETEDBED WHEREVER FEASIBLE.
  BE ROLLED TO FRIM THE SITE OF THE SECONDER OF THE REPORT OF THE REPORT OF THE AREA MUST BE TILLED AND FRIMED AS ABOVE.
  BE NEVER THE SOUL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A
  DEPTH OF 2 INCHES BEFORE SEPTION FERTILIZER, LIME AND SEED.
  BE APPLICABLE, FERTILIZER AND ORGANIC SOIL AMEDIANT SHALL BE APPLIED DURING THE
  GROWING SECONG AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER
  SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PROSPHATE AND SLOW RELEASE.

  SHALL BE RESTRICTED TO LIME SOOD ASH OR LOW PROSPHATE AND SLOW RELEASE.

  NITROGEN VARIETS, LINLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT
  FESSIBLE ON SHALL OR VARIABLE SITES, OR WHERE THIMNO IS CRITICAL FERTILIZER AND
  LIMESTONE MAY BE APPLIED AT THE FOLLOWING RATES:

LIMESTONE APPLICATION RATE = 3 TONS/ACRE (138 LB./1,000-SF)\*
\*EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE

FERTILIZER APPLICATION RATE = 870 LB./ACRE (20 LB./1,000-SF)\*
\*LOW PHOSPHATE FERTILIZER (6-0-4) OR EQUIVALENT

SEEDING:

1. MOGULANT.

2. APPLY SEED UNFORMLY BY HAND, CYCLONE SEEDER, DRILL CILLIPACKER TYPE SEEDER OR HYDROSEDER (SLIRRY NOLLDING SEED AND FERTILIZE). NORML SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEDING THAT INCLIDES MUICH MAY BE LEFT ON SOIL SURFACE.

3. WHERE FEASIBLE EXCEPT WHERE EITHER CLIPTACKER THYPE SEEDER OR HYDROSEDERING IN USE OF THE SEED SHALL BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR FORTH THE SEED SHALL BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR

- WHERE FEASIBLE EXCEPT WHERE LITTLES SHOULDWING SEEDING OPERATIONS WITH A HOLLER, UN USED, THE SEEDEDE SHALL BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A HOLLER, UN USED, THE SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIXES OR WITH LEGUMES. PERMANENT SEEDING SHALL BE COMPLETED AS DAYS PRIOR TO FIRST WILLING FORST. WHEN SEED (MISCASSFEED) CONTROL SHALL BE AND A LEGAST SAY OF THE SEED SHALL BE HAVED SEED (MISCASSFEED) CONTROL SHALL BE AND A LIGHT SHALL BE CONTROL SEEDING PERIOD.

  MECH ACCORDING TO THE TEMPORARY AND PERMANENT MULICHING PRACTICE DESCRIBED IN THE NISSM, VOL 3. AND EDLAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.

  AREAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULICH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULICHING" PRACTICE DESCRIBED IN THE NISSM, VOL 3.
- AREAS SELECTED OF THE TEMPORARY AND PERMANENT MULCHING MULCH ACCORDING TO THE TEMPORARY AND PERMANENT MULCHING THE NISSM, VOL 3, VECETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

STREDIZATION WESSIGNES FOR OVER WINTER PROTECTION.

JURDSSEEDING (HYDRAJLIC APPLICATION), PREPARE THE SEEDBED AS SPECIFIED ABOVE OR BY HAND RAWING TO LOOSEN AND SWOOTH THE SOIL AND REMOVE SURFACE STONES LARGER THAN 2 INCHES IN DIAMETER.

SLOPES BUSTS BE NO STEEPER THAN 2: (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY.

SLOPES BUSTS BE NOT SEED REPORTED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER WILCH AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FIBER WILCH AND GERTICAL REASES IN OIL RECORD TO HOLD STRAW OR HAY). BETTER PROTECTION IS GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESING MATERIALS OR SOO POUNDS PER ACRE OF WOOD FIBER MULCH.

- MAINTERANCE REQUIREMENTS:

  1. PERMANENT SEEDED AREAS SHALL BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF CONSTRUCTION. INSPECTION, MAINTENANCE AND CORRECTIVE ACTIONS SHALL CONTINUE UNTIL THE OWNER ASSUMES PERMANENT OPERATION OF THE STE.

  2. SEEDED AREAS SHALL BE WOMED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF CREATER OF THE STEEL OF THE STEEL SEEDED TO ANGEL SHALL BE MOVED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF RECEIVED TO ANGEL OF GRASS COVER.

  3. EXPOSED SOUS.
- BASED ON INSTITUTION, AMEND SOIL SUFFICE SHALL BE COVERED BY VEGETATION.
  AT A MINIMUM SEX OF THE SOIL SUFFICE SHALL BE COVERED BY VEGETATION.
  AT A MINIMUM SEX OF THE SOIL SUFFICE SHALL BE COVERED BY VEGETATION.
  AFFORD SHALL BE RESEDED, WITH OHER TEMPORATY MESSURES, I.E. MULCH, ETC.) USED TO
  PROVIDE ERSSION PROTECTION DURING THE PERROD OF VEGETATION ESTREIGHERMENT.

#### PERMANENT VEGETATION SEEDING RECOMMENDATIONS

USE	MIXTURE	SPECIES	LBS./ACRE	LBS./ 1,000-SF		
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	۸	TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95		
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	۸	TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95		
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY RECREATION SITES	۸	TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95		
PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL ESSENTIAL FOR GOOD TURF)	F	CREEPING RED FESCUE KENTUCKY BLUEGRASS TOTAL	50 50 100	1.15 1.15 2.30		

PSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLES INICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)

CONSTRUCTION PHASING:

STABILIZATION:
A SITE IS DEEMED STABILIZED WHEN IT IS IN A CONDITION IN WHICH THE SOIL ON SITE WILL NOT EXPERIENCE ACCELERATED OR UNNATURAL EROSION UNDER THE

L NOT EXPERIENCE ACCELERATED OR UNNATURAL EROSION UNDER NS OF A 10-YEAR STORM EVENT, SUCH AS BUT NOT LIMITED TO:

FROM EROSION. STOCKPILES, BORROW AREAS AND SPOILS SHALL BE STABILIZED AS DESCRIBED

FINISHED GRADING.

3. THE PROJECT SHALL BE CONSTRUCTED TO MEET ALL REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER ARG 3800 RELATIVE TO INVASIVE SPECIES.

ABOVE NOTES EXCERPTED, ADAPTED AND REFERENCED FROM "NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" (HISSMM, VOL. 3)

## CIVIL ENGINEERS

CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN SET, IF THERE ARE ANY OLESTIONS WITH THE DESIGN PRESENTED IN THIS PLAN SET, IF THEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



#### PROJECT SPECIFIC CONSTRUCTION PHASING:

- REFER TO THE GENERAL CONSTRUCTION PHASING.

  REFER TO THE GENERAL CONSTRUCTION PHASING. NOTES PRIOR TO COMMENCING CONSTRUCTION IN ACCORDANCE WITH THE FOLLOWING PHASING. THE GENERAL CONSTRUCTION PHASING. THE FOLLOWING PHASING. THE GENERAL CONSTRUCTION STATE OF THE SPECIAL PRIOR OF THE PHASING. THE SECRET CONTROL WITH BETTALL ALL STATE OF THE PHASING. THE SECRET CONTROL WITH PERFORMET POWER OF THE CONSTRUCTION SITE AS DEPICTED ON SHEET C.-4. PRIOR TO EARTH MOMING OPERATIONS.

  INSTALL ORANGE SNOW FERCE AROUND THE PEREWITER OF THE INFILITATION BASINS AND THE PENCE SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OF THE BASINS AND THE PENCE SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OF THE BASINS AND STATED.

  WASTE SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH STATE AND LOCAL REQUILITIONS.

  INSTALL A TEMPORARY CONSTRUCTION EXIT AT THE LOCATION OF THE PROPOSED AMPORT DRIVE CONNECTION TO AIRPORT DRIVE. MAINTAIN AS DIRECTED BY THE TEMPORARY CONSTRUCTION EXIT OF THE PROPOSED AMPORT DRIVE CONNECTION TO AIRPORT DRIVE. MAINTAIN AS DIRECTED BY THE TEMPORARY CONSTRUCTION EXIT DETAIL.

  INSTALL A TEMPORARY CONSTRUCTION EXIT DETAIL. SITCHCAPPERS THE STOCKPHELS STOCKPHELS STOCKPHELS STOCKPHELS SOURCED ON THE THE STOCKPHELS STOCKPHELS SOURCED ON THE STOCKPHELS STOCKPHELS STOCKPHELS SOURCED ON THE STOCKPHELS SOURCED ON THE STOCKPHELS STOCKPHELS SOURCED ON THE SOURCED ON THE STOCKPHELS SOURCED ON THE SOURCED ON THE SOURCED ON THE STOCKPHELS SO

- STE WILL NOT EXPERIENCE ASCELERATED OR INMATURABLE WHITCH HIGHS THE CONDITIONS OF A 10-YEAR STORM EVENT, SUCH AS BUT NOT LIMITED TO.

  AIN AREAS THAT WILL NOT BE PAYZD.

  9) A MINIMUM OF 3-MCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR A CERTIFIED COMPOST BLANKET HAS BEEN ESTABLISHED;

  1) A MINIMUM OF 3-MCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR A CERTIFIED COMPOST BLANKET HAS BEEN INSTALLED.

  2) EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.

  2) EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.

  2. ITHEODRAY STABLIZATION.

  ALA AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE TEMPORARILY STABLIZZED AS SOON AS PRACTICABLE BUT NO LATER THAN 45 DAYS FROM THIS TIME OF INITIAL DISTURBENDED. HINDORFORM STABLIZATION.

  ALA AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE TEMPORARILY STABLIZZED AS SOON AS PRACTICABLE BUT NO LATER THAN 45 DAYS FROM THIS TIME OF INITIAL DISTURBENCE, UNLESS A SHORTER TIME SESPECTIVE BY LOCAL AUTHORITIES. THE OWNER OF EXPOSED OR DISTURBED SOIL SHALL BE PERMANENTLY STABLIZZED AS SOON AS PRACTICABLE BUT NO LATER THAN 3 DAYS FROM THIS TIME OF INITIAL DISTURBENCE STABLIZATION.

  ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE PERMANENTLY STABLIZZED AS SOON AS PRACTICABLE BUT NO LATER THAN 3 DAYS FOLLOWING FINAL GRADING.

  4. MARINAMILIEE A CONSTITUCTION.

  5. ONLY DISTURB, CLEAR, OR GRADE AREAS NOT TO BE DISTURBED.

  5. ONLY DISTURB, CLEAR, OR GRADE AREAS NOT TO BE DISTURBED.

  6. ALL EROSION AND SEDIMENT ENGRAS NOT OR DISTURBED.

  7. ALL EROSION AND SEDIMENT ENGRAS NOT OR DISTURBED.

  8. TOPSOIL ROUTED FOR THE ESTABLISHIEM OF VIGILATION SHALL BE STOOCHED FROM THE PROVIDE SHALL BE STORDED HAND AND SHALL BE STORDED ON SHEET C.—3.

  8. TOPSOIL ROUTED FOR THE ESTABLISHIEM OF VIGILATION SHALL BE STOOCHED FROM IN THE MADOUNT NECESSARY TO CONCRETE ON SHEET C.—3.

  8. TOPSOIL ROUTED FOR THE ESTABLISHIEM OF VIGILATION SHALL BE STOOCHED FROM IN THE MADOUNT NECESSARY TO CONCRETE ON SHEET C.—3.

  8. TOPSOIL ROUTED FOR THE ESTABLISHIEM OF VIGILATION SHALL BE STOOCHED FROM IN THE MADOUNT NECESSARY TO CONCRETE ON SHEET C.—3.

  8. T
- CONSTRUCT THE STORMECH SYSTEM, BAÖK FILL AND COMPACT AS NOTED IN THE DETAIL SHEETS.

  ALL DITCHES/SWALES/AND BASINS SHALL BE STABILIZED PRIOR TO DITCHES/SWALES/AND BASINS SHALL BE STABILIZED PRIOR TO DIFFERENT HE MECESSARY CUTS AND FILLS TO SUBGRADE IN THE BUILDING AND PARKING LOT AREAS.

  A) INSTALL REQUIRED FILLS IN MAXIMUM B-INCH LIFTS AND COMPACT EACH LIFT TO 95% MAXIMUM PROCTOR DENSITY.

  AS SUBGRADE IS ACHIEVED INSTALL REMAINING SEDIMENT CONTROL BARRIERS WITHIN THE STE (I.E. ADDITIONAL SILT FENCE, CHECK DAMS AND SEDIMENT CONTROL AND ASSOCIATION OF THE STEED OF THE COMPONENTS (I.E. PIPE CLUKERTS, CATCH BASINS AND REMAINING WATER MAIN) FOR THE CORRESPONDING DETAILS AND AS SHOWN ON SHEET C. JAND C.-B. AS EACH STRUCTURE IS COMPLETED INSTALL THE CORRESPONDING SEDIMENT CONTROL MEASURE.

  BALL CUT AND THE CENT OF THE MAIN PROCEDURES TO THE PAYED SHALL BE SALLED TO THE PAYED SHALL BE SHOULDED TO THE PROMISE TO THE PAYED SHALL BE SECRIBED UNDER THE "CERTAIN PROCEDURES THIN J DAYS OF ACHIEVING FINAL GRADE.

  AND THE PARKING AREA SHALL BE STABILIZED CONSTRUCTED TO GRAVEL.

  HE PARKING AREA SHALL BE STABILIZED CONSTRUCTED TO GRAVEL.
  - PARKING AREAS SHALL BE STABILIZED (CONSTRUCTED TO GRAVEL BASE COURSE) WITHIN 3 DAYS OF ACHIEVING FINISHED SUBGRADE ELEVATIONS.
- INCRES MI HIGHERS. THE CONTINUED IN SMULL REVIEW THE PRODUCT OF CONTINUED IN CONTIN
- 15. THE PARKING AREAS SHALL BE STABILIZED (CONSTRUCTED TO GRAVEL BASE COURSE) WITHIN 3 DAYS OF AN-ELWIG FIRMSHOE SUBGRADE LIGHT SUBGRADE LIGHT SHAPE AND ASSESSMENT SHAPE SHAP APPROPRIATE MANNER.

  ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ON SITE CATCH.

### WINTER STABILIZATION & CONSTRUCTION PRACTICES:

MAINTENANCE REQUIREMENTS:

1. MAINTENANCE REAGURES SHALL BE PERFORMED THROUGHOUT CONSTRUCTION, INCLUDING OVER THE WINTER PERIOD. AFTER EACH RAINFALL, SNOWSTORM, OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHALL CONDUCT INSPECTION OF ALL INSTALLED EROSION CONTROL PRACTICES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTRACTOR SHALL CONDUCT SHOWS TO PERMANENT SEDDING PRIOR TO THE OWNER SEPSING TO ASCERTAN THE CONTROLTOR SHALL CONDUCT AN INSPECTION IN THE SPRING TO ASCERTAN THE CONTROLTOR SHALL CONDUCT WESTERN AND REPAIR ANY DAMAGED AREAS OR BARE SPOTS AND RESEED AS REQUIRED TO ACHIEVE AN ESTABLISHED VECETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, VICOROUS GROWTH.)

- FEGELATION AND REPAIR ANY DAMAGED AREAS OR BARE SPOTS AND RESEARCE OR REQUIRED TO ACHIEVE AN ESTABLISHED VECETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, VIGOROUS GROWTH.)

  SECUREDIOS.

  THE FOLIOWING STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 15.

  1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO 1\_ACRE AND SHALL BE PROTECTED AGAINST ERROSION BY THE METHODS DISCUSSED IN INSIMA, VOL. 3 AND ELSEWHERE IN THIS PLAN SET, PRIOR TO ANY INSIMAL BE PROTECTED AGAINST ERROSION BY THE METHODS DISCUSSED IN INSIMA, VOL. 3 AND ELSEWHERE IN THIS PLAN SET, PRIOR TO ANY STABILIZATION AS FOLLOWS SHALL BE COMPLETED WHITH A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 15 FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 15 FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 15 FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 15 FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 15 FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 15 FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 15 FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 15 FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 15 FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 15 FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 15 FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 15 FINAL OR THAT OTHERWISE WILL PROPOSED VECETATION ACCOUNTS OF THAN 15 FINAL OR THAN 15 FIN

PERMANENT EROSION AND SEDIMENTATION CONTROL TAX MAP 243, LOTS 36 & 37 109 AIRPORT DRIVE ROCHESTER, NH PREPARED FOR PELLA WINDOWS AND DOORS OF NEW ENGLAND

SEPTEMBER 2020

NORWAY PLAINS ASSOCIATES, INC. =



VALVE BOX

WATER MAIN CONNECTION NOT TO SCALE

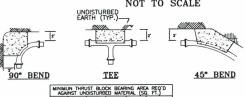
"WATER" EMBOSSED ON COVER (CAST)

A.W.W.W. C515 (DUCTILE)

# CROSS COUNTRY UNDER PAVEMENT TRENCH V TRENCH

STALLED BY EXCHANING AN OPEN TRENCH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A DEPTH OF 4-FT. I THAN 4-FT REQUIRE THE USE OF A TRENCH BOX. SMUL BE AS SPECIFED ON THE DESON FUM. AY BE QUINTED FOR REMOVABLED CONCRETE PIPE.

#### WATER PIPE TRENCH INSTALLATION DETAIL



8" 10 8 6 6 3 12" 24 18 8 12 8

SIZE OF THRUST BLOCKS MAY BE INCREASED BY THE ENGINEER TO MEET SOIL CONDITIONS FOUND DURING CONSTRUCTION.

#### WATER MAIN THRUST BLOCK DETAILS

NOT TO SCALE

					DU	JCTILE	IRON	MECHA	NICAL	RETR	AINED	LENGT	H (FE	ET)						
	BENDS														DEAD END					
PIPE DIAMETER (INCHES)	11 1/4*			22 1/2*			45*			90.				000 010						
	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi	200 psi
2"	0	0	1	1	0	1	1	1	1	1	2	3	2	4	5	7	4	8	12	17
6"	0	0	1	1	1	1	2	2	1	2	3	4	3	5	8	10	6	12	18	23
8"	0	1	1	1	1	1	2	3	1	3	4	6	3	7	10	13	8	15	23	31
10"	0	1	1	2	1	2	2	3	2	3	5	7	4	8	12	16	9	19	28	37
12"	0	1	1	2	1	2	3	4	2	4	6	8	5	9	14	19	11	22	33	44
	TEE*							REDUCER												
	SAME SIZE				ONE SIZE SMALLER				ONE SIZE SMALLER				TWO SIZE SMALLER							
	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi	200 psi	50 psi	100 psi	150 psi	200 psi				
2"	1	1	1	1	1	1	1	1	1	3	4	5	-	-	-	-	]			
6"	1	1	1	4	1	1	1	1	3	6	9	12	4	8	12	16				
8"	1	1	3	11	1	1	1	1	3	6	10	13	6	11	17	22				
10"	1	1	8	17	1	1	1	6	3	6	10	13	6	11	17	23				
12"	1	2	13	24	1	1	4	13	5	11	16	22	6	12	18	23				

\* BASED ON A MINIMUM ATTACHED PIPE ALONG RUN (Lr) = 5 FEET

31 Mooney Street, Alton, N.H. 603-875-3948

## MECHANICAL RESTRAINED LENGTH SCHEDULE NOT TO SCALE

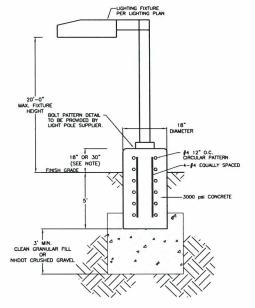
FILE NO. 104 PLAN NO. C-3085 DWG. NO. 20108 SP-1 F. B. NO.

# NOTES: 1. PPE IS BURIED TO A DEPTH OF 8 FEET WITH A MINIMUM OF 4 INCHES OF COMPACTED CRANULAR MATERIAL UNDER THE PIPE TO THE SPRING LINE OF THE PIPE. 2. THE EXISTING SOIL IS POORLY GRADED GANKEL AND GRAVEL SAND MINURE WITH LITTLE TO NO FINES. 3. ALL CULLIATIONS ARE BASED ON A FACTOR OF SAFETY OF 1.5 TO 1. 4. ALL OLUCULATIONS ARE BASED ON THE "RESTRAINED LENGTH CALCULATION PROGRAM" BY EBAA IRON, NC., RELEASE 3.1.

#### CIVIL ENGINEERS

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#### GENERAL UTILITY NOTES

- CONSTRUCTION.

  ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THEIR LOCATIONS AND ELEVATIONS.

  THESE PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON THE DATE OF THE SURVEY.

  HE ASSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. FROM THIS PLAN, BUT IN EXISTENCE IS NOT INTENDED OR IMPLIED.

- INTENDED OR IMPLED.

  1. ANY UTILITY POLES THAT NEED TO BE RELOCATED SHALL BE COORDINATED WITH EVERSOURCE OR VERIZON, WHOM EVER HAS CONTROL OVER THEM.

  2. PROPOSED UTILITIES ARE TO BE UNDERFORDUND. COORDINATE LOCATION OF UNDERGROUND UTILITIES AND TRANSFORMER PADS WITH FISHAL AND OTHER PERTINENT UTILITY COMPANIES.

  3. WARTER AND SEWER LINES SHALL BE MADE AND A VERTICAL SHAPE OF THE ORIGINALLY.

  7. HORIZONTALLY FROM THE WATER LINE AND A VERTICAL SEPARATION OF 18-INCHES SHALL BE LOCATED A MINIMUM 9-FT HORIZONTALLY FROM THE WATER LINE AND A VERTICAL SEPARATION OF 18-INCHES SHALL BE MAINTAINED.

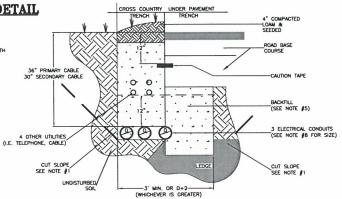
  8. SEWER RAID AT 1-1/2 TIMES WORKING PRESSURE FOR ALL FORCE MAINS.

  9. WATERLINE, CONSTRUCTION:
- SEWER AND AT 1-1/2 TIMES WORKING PRESSURE FOR ALL FORCE MAINS.

  9). WATERLINE CONSTRUCTION:
  A.) ALL PROPOSED WATER LINE AMERIAL USED SHALL MEET ROCHESTER WATER DEPARTMENT AND ROCHESTER ENGINEERING DEPARTMENT SPECIFICATIONS. WATER LINES SHALL BE A.W.W.A. C. 151, CLASS 52, CEMENT LINED, DUCTILE IRON PIPE.
  B.) PROPOSED WATER GATE VALVES SHALL BE MANUFACTURED BY KENNEDY OF AMERICAN FLOW CONTROL, RESILIENT SEAT TIPE.
  C.) ALL WATER LINES SHALL BE BURIED A MINIUM OF 5.55.
  C.) ALL WATER LINES SHALL BE BURIED A MINIUM OF 5.55.
  TRENCH DETAL FOR INSULATED WATER PIPE.
  E). ALL WATER FITHINGS SHALL BE CLASS 52.
  F.) PROPOSED WATER GATE VALVE SHALL OPEN CLOCKWISE (RIGHT).
  10.) WORK TO CONNECT INTO THE WATER OR SEWER MAINS REQUIRES A PERMIT FROM THE ROCHESTER PUBLIC WORKS DEPARTMENT. ARE TO BE PRE-QUALIFIED.

#### POLE MOUNTED LIGHT DETAIL

NOT TO SCALE



- nd. Degree sweeps will be made using rigid calvanized steel with a minimum radius of 36 inches for primari And 24 inches for secondary cables. All steel sweeps within 18" of the surface shall be properly

- TO INSTALL CABLE. THE STRING SHOULD BE BLOWN WITO THE CONDUIT AFTER THE RIVER SESSIBLED TO ANNUI BURNING THE STRINK TO THE CONDUIT AND INDIFFECTION PROPERTY OF THE STRINK TO THE CONDUIT AFTER THE CONTINUE OF THE PSHIN SUPERHYSOR MUST BE NOTIFIED 2 BUSINESS DAYS PRIOR TO BACKFILLING THE TRENCH. IN THE EVENT THAT A CABLE CANNOT BE SUCCESSFULLY PULLED THROUGH THE COMPLETED CONDUIT STEEM DUE TO CONSTRUCTION ERROR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND REPAIR THE MYOLVED CONDUIT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL RESULTING EXPENSES.

  NORMAL CONDUIT SIZES FOR EVERSOURCE ARE 3-HINCH FOR SINGLE PHASE PRIMARY AND SECONDARY VOLTAGE CABLES, 4-INCH FOR THREE PHASE SECONDARY, AND 5-INCH FOR THREE PHASE PRIMARY AND SECONDARY VOLTAGE CABLES, 4-INCH FOR THREE PHASE SECONDARY, AND 5-INCH FOR THREE PHASE PRIMARY AND SECONDARY VOLTAGE CABLES, 4-INCH FOR THERE PHASE SECONDARY, AND 5-INCH FOR THREE PHASE PRIMARY. AND SECONDARY VOLTAGE CABLES, 4-INCH FOR THEE PHASE OF CONTRACTOR OF THE PHASE PRIMARY AND SECONDARY VOLTAGE CABLES, 4-INCH FOR THEE PHASE OF CONTRACTOR OF THE PHASE PRIMARY.

  ALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE, STATE AND LOCAL CODES AND ORDINANCES, MOY WHERE A PROPERTY OF THE PHASE PRIMARY.

  LOCAL CODES AND ORDINANCES, MOY WHERE AND PROPERTY OF THE PHASE PRIMARY AND SECONDARY VOLTAGE CABLES, 4-INCH FOR THE PHASE PRIMARY.

  INSTALLATIONS DEEPER THAN 4-FT REQUIRE THE USE OF A TRENCH BOX.

## **ELECTRICAL & UNDERGROUND UTILITY** TRENCH INSTALLATION DETAIL

NOT TO SCALE

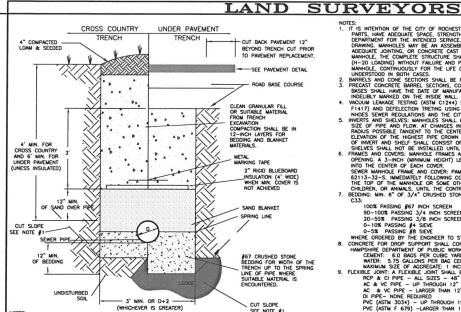
UTILITY DETAILS TAX MAP 243, LOTS 36 & 37 109 AIRPORT DRIVE ROCHESTER, NH PREPARED FOR:

2 Continental Blvd., Rochester, N.H. 603-335-3948

PELLA WINDOWS AND DOORS OF NEW ENGLAND

SEPTEMBER 2020

C-12

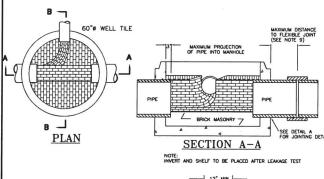


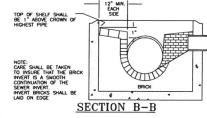
- EXCAVATED FROM THE TRENCH DURING CONSTRUCTION DEBRIS;
  PIECES OF PAVEMENT;
  ORGANIC MATTER;
  TOP SOIL;
  TOP SOIL;
  TOP SOIL;
  TOP SOIL;
  TOP SOIL;
  TOP SOIL;
  TOP SOIL SOIL
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  TOP

#### SEWER PIPE TRENCH INSTALLATION DETAIL

NOT TO SCALE

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INVERT DETAILS

FILE NO. 104 PLAN NO. C-3085 DWG. NO. 20108 SP-1

MANHOLE, THE COMPLETE STRUCTURE SHALL BE OF SLOCK MATERIAL AND OLALITY AS TO WITHSTAND LOADS OF B TONS 
(H=20 LOADING) WITHOUT FAILURE AND PREVENT LEAVAGE IN EXCESS OF ONE GALLON PER DAY PER VERTICAL FOOT OF 
MANHOLE, THE COMPLETE STRUCTURE SHALL BE OF SLOCK MATERIAL AND OLALITY AS TO WITHSTAND LOADS OF B TONS 
(H=20 LOADING) WITHOUT FAILURE AND PREVENT LEAVAGE IN EXCESS OF ONE GALLON PER DAY PER VERTICAL FOOT OF 
MANHOLES CHARLES AND COME SECTIONS. SOLAL BE OFFICE AND EXCESS OF 25 YEARS IS TO BE 
1. PRECAST CONCRETE BARREL SECTIONS, CONCS AND BASES SHALL CONCRETE, OR POURED IN PLACE REINFORCED CONCRETE. 
PREVENT CONCRETE BARREL SECTIONS, CONCS AND BASES SHALL CONNECTED AND THE MANUAL SHALL CONSIST OF BRICK MASONNEY, BRICK MASONNEY CONFORM INTO THE LONGEST SHALL HOR SHALL SHALL CONSIST OF BRICK MASONNEY, BRICK MASONNEY CONFORM WITH STALL CONSIST OF BRICK MASONNEY, BRICK MASONNEY CONFORM WITH STALL CONSIST OF BRICK MASONNEY, BRICK MASONNEY CONFORM WITH STALL CONSIST OF BRICK MASONNEY, BRICK MASONNEY CONFORM WITH STALL CONSIST OF BRICK MASONNEY, BRICK MASONNEY

7. BEDDING: MIN. 6" OF 3/4" CRUSHED STONE (12" IN LEDGE) FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTN C.33:

100% PASSING #67 INCH SCREEN
90-100% PASSING 3/8 INCH SCREEN
20-55% PASSING 3/8 INCH SCREEN
0-100% PASSING \$3 SEVE
100% PASSING \$4 SEVE
100% PASSING PASSIN

CASKET.

25. PIPE TO MANHOLE JOINTS: SHALL BE ONLY AS APPROVED BY THE COMMISSION AND IN GENERAL, WILL DEPEND FOR WATER TIGHTNESS UPON EITHER AN APPROVED NON-SHRIKKING MORTAR OR ELASTOMERIC SEALANT,

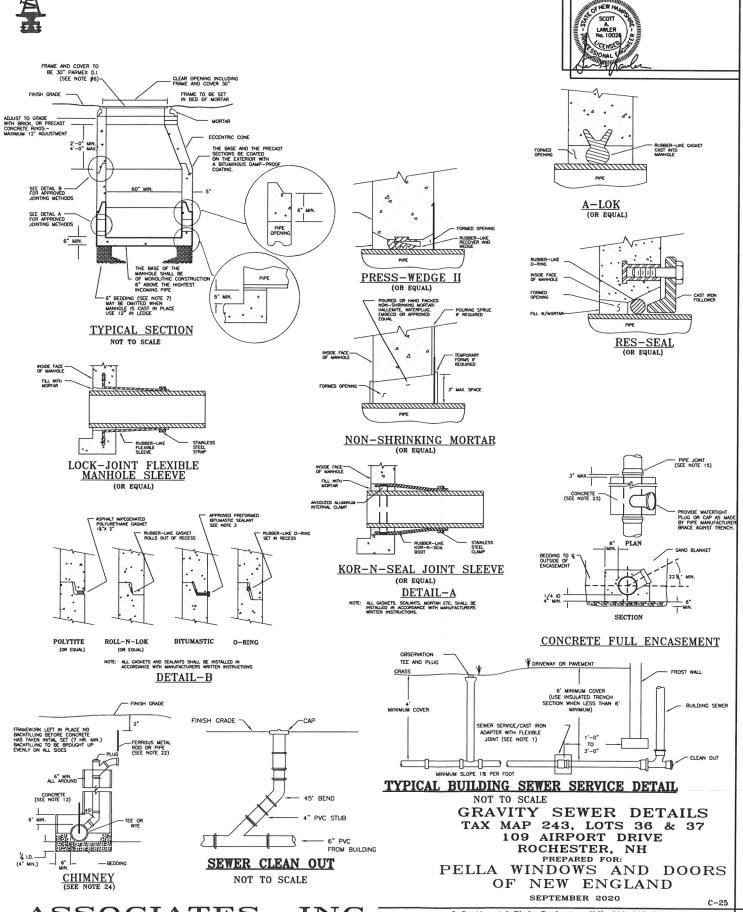
26. FOR BITUMENTC TYPE JOINTS: THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT LEAST 75% OF THE JOINT CANTY APPROVED BITUMENTS: CEALANTS: RAM-NEK KENT SEAL NO.2 EZ

27. THE CONTRACTOR SHALL NOTIFY DIG-SPET 1-888-344-7233 PRIOR TO CONSTRUCTION.

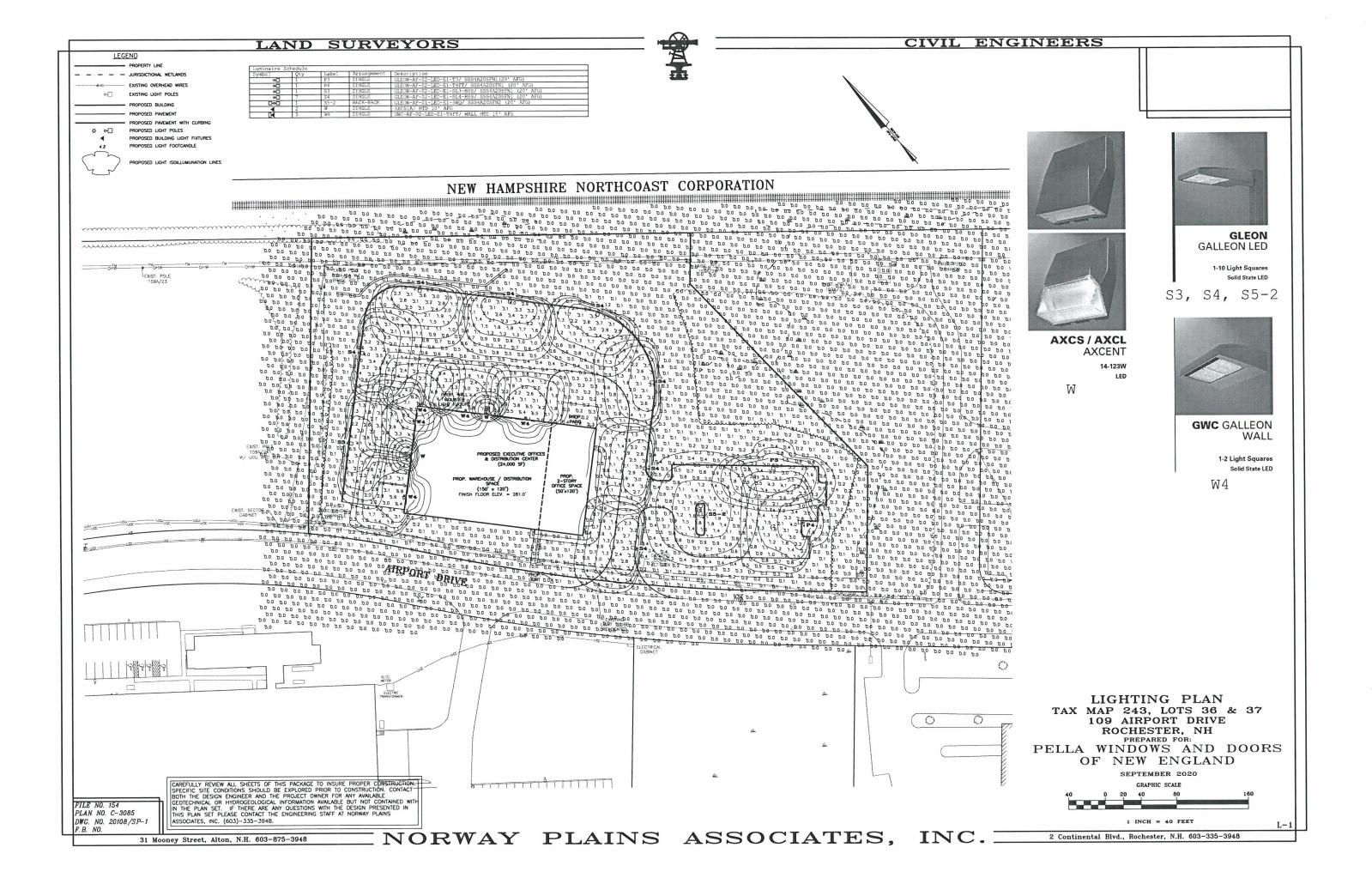
MORTAR USED IN MANHOLE CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING:
MORTAR SHALL BE COMPOSED OF TYPE II PORTLAND CEMENT AND SAND WITH OR WITHOUT HYDRATED LIME ADDITION.
PROPORTIONS IN MORTAR OF PARTS BY VOLUMES SHALL BE AS SHOWN BELOW;

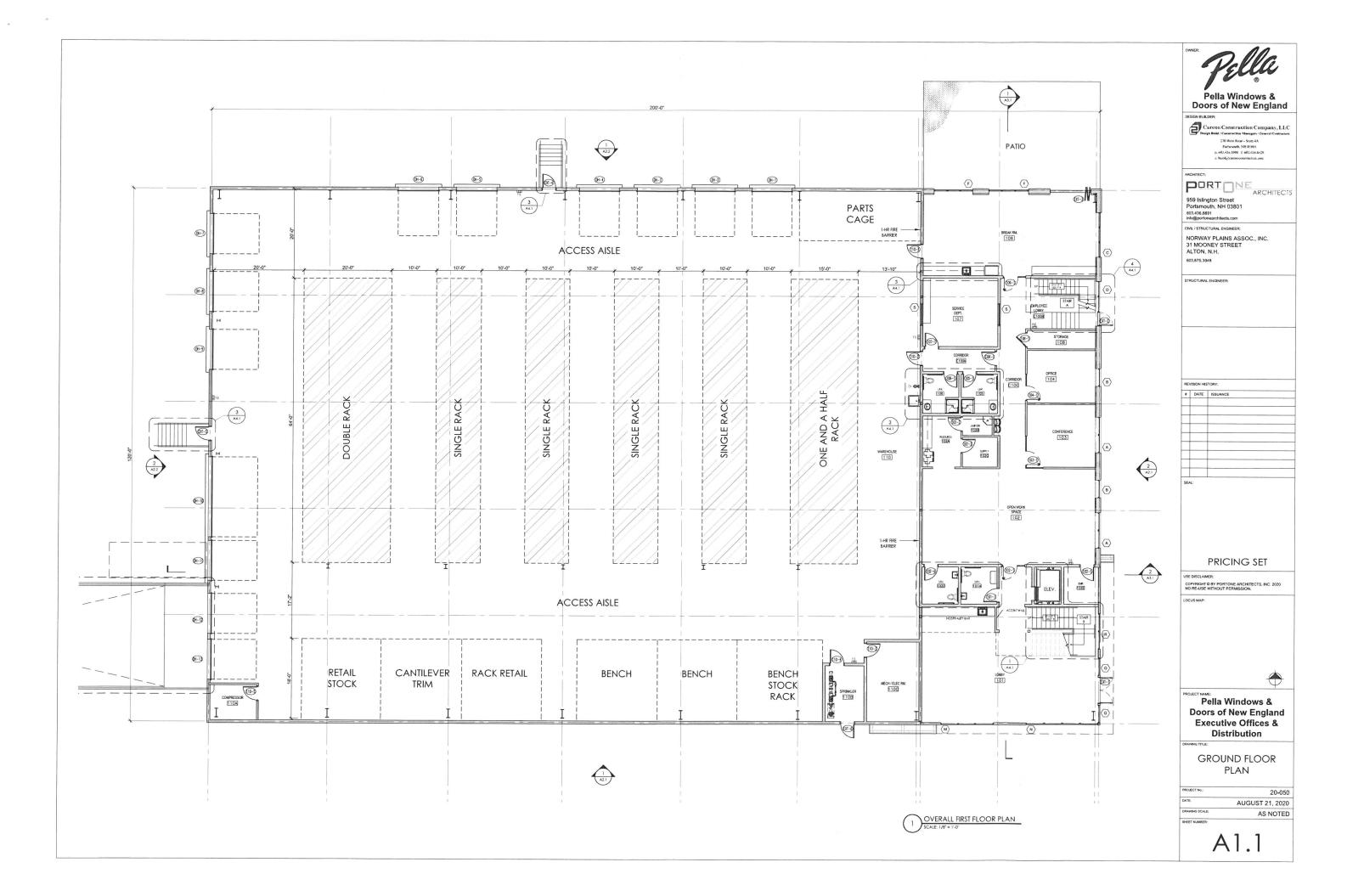
THORAITE LIME SHALL BE TYPE'S THAT IS CERTIFIED BY ITS MANUFACTURER AS CONFORMING TO THE ASTM COOR STANDARD IN EFFECT AT THE TIME THE HORAITED LIME WAS PROCESSED. SAND SHALL CONSIST OF INERT TANDARS AND THAT IS CERTIFIED BY ITS SUPPLIER AS CONFORMING TO THE ASTM CO.33 STANDARD IN EFFECT AT THE TIME THE SAND IS PROCESSED BY "STANDARD SPECIFICATIONS FOR COOKERTE. FINE ACQUIRED."

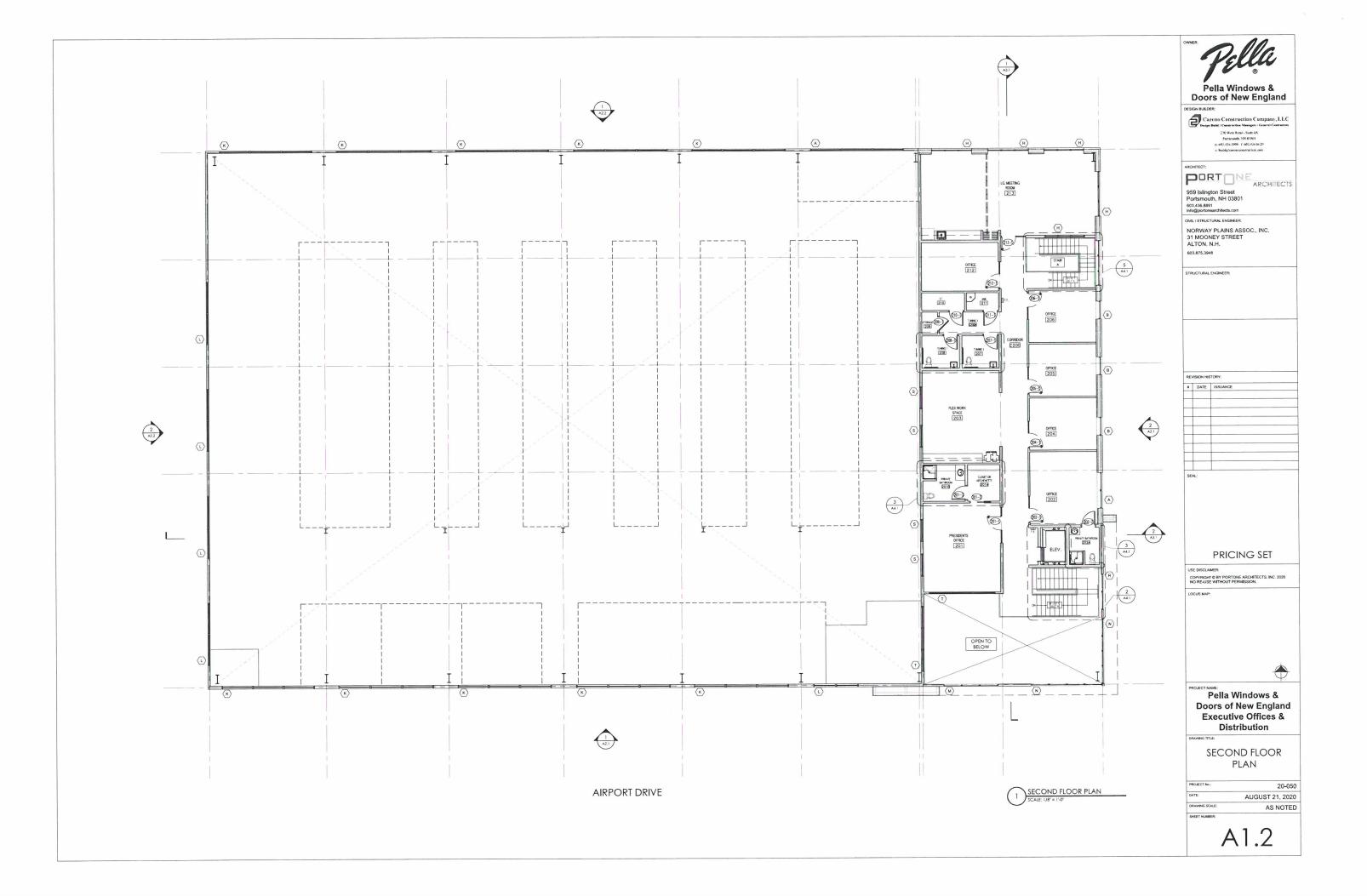


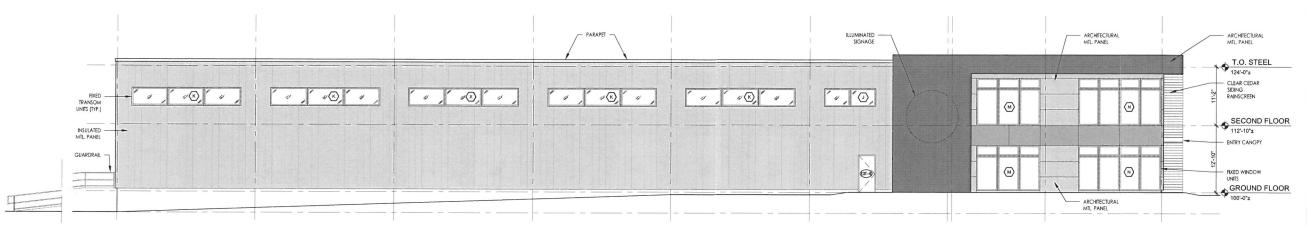


CIVIL ENGINEERS









SOUTH ELEVATION

SCALE: 1/8" = 1'-0"

#### EXTERIOR SIDING KEY: ARCHITECTURAL MTL. PANEL - ARCHITECTURAL MTL. PANEL T.O. STEEL 124'-0"± INSULATED METAL PANEL CLEAR CEDAR SIDING RAINSCREEN 0 **( P** R (A) FIXED WINDOW (TYP.) SECOND FLOOR ARCHITECTURAL METAL PANEL ENTRY CANOF **a** 0 **(3)** (e) **② 6**0 R 0 GROUND FLOOR CLEAR CEDAR SIDING RAINSCREEN 2 EAST ELEVATION SCALE: 1/8" = 1'-0"



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ALTON, N.H.
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STRUCTURAL ENGINEER:

REUSION HISTORY:

8 DATE ISSUANCE

PRICING SET

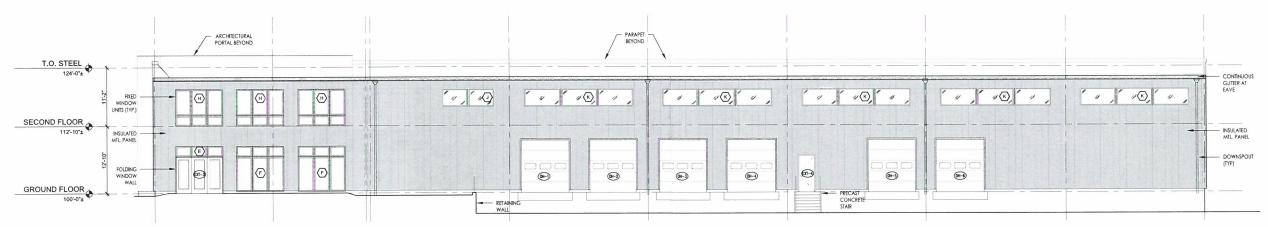
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LOCUS MAP:

Pella Windows &
Doors of New England
Executive Offices &

Distribution

EXTERIOR ELEVATIONS

A2.1





## EXTERIOR SIDING KEY:



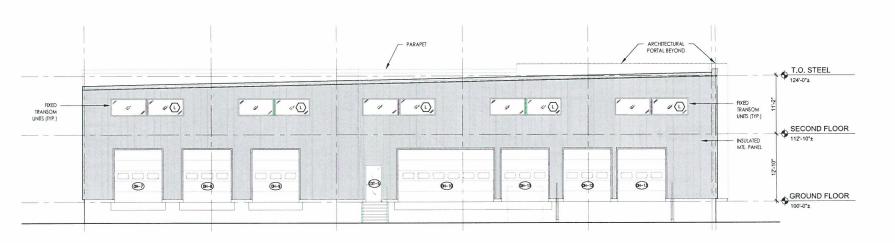
INSULATED METAL PANEL



ARCHITECTURAL METAL PANEL



CLEAR CEDAR SIDING RAINSCREEN



WEST ELEVATION

SCALE: 1/8" = 1'40"

Pella Windows & Doors of New England



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Design Build Conservation Managers: Central Continues
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PRICING SET

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PROJECT NAME:
Pella Windows & Doors of New England **Executive Offices &** Distribution

**EXTERIOR ELEVATIONS** 

20-050 AUGUST 21, 2020 AS NOTED

A2.2