# NORWAY PLAINS ASSOCIATES, INC.

LAND SURVEYORS • SEPTIC SYSTEM DESIGNERS • CIVIL ENGINEERS

P.O. Box 249 Continental Blvd. (03867) Rochester, NH 03866-0249 Phone (603) 335-3948 www.norwayplains.com



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

February 10, 2022

Ryan O'Connor, Planner Department of Planning and Development 33 Wakefield Street Rochester, NH 03867-1917



Re: Case SP-22-02, Proposed Electric Vehicle Charging Facility for KO-GO LLC; Technical Review Group Response.

Dear Ryan:

The following is a summary of action taken to address the comments from the February 3, 2022 TRG meeting and follow up comments posted on the City of Rochester View Point Cloud for the proposed major Non-Residential Site Plan Review Application for KO-GO LLC located on Farmington Road. To expedite the review process; I have listed the different departments comments and our responses.

#### Planning Dept. & Conservation Commission Comments (Ryan O'Connor):

- a) Please show the square footage of Impervious area for the site:
  - The square footage and percentage of the overall parcel were added to the Existing Features Plan (Sheet E-1) and Overall Site Plan (Sheet C-1) under General Site Plan Note #5.
- b) The site will need a stormwater and control plan as well as a maintenance and inspection plan since this location is within the aquifer overlay district.
  - The Stormwater Management System Inspection and Maintenance Manual was included within the Stormwater Report as part of the initial submission.
  - A separate Stormwater Management Systems Inspection and Maintenance Manual is attached.
- c) Please elaborate on the general maintenance of the property. Specifically, how maintenance of trash receptacles or other amenities will be cared for.
  - As described by the applicant during the meeting, the facility operators will visit the site at least weekly, and if necessary, more frequently. During these visits, they will perform a general inspections of the grounds and pick-up any trash or debris. Located next to the charger units, there will be a small trash receptacle and windshield cleaning system (squeegee and windshield washing fluids). Depending on the weather and driving conditions, the frequency of the site visits will be adjusted. All trash will be removed from the site by the facilities manager each visit, as there will not be any dumpster located on the parcel.

- d) A traffic memo will be needed for this site.
  - Attached is a copy of the letter sent to NHDOT as part of the NHDOT Driveway Permit Application. The letter describes the anticipated trip generated at the driveway as part of the proposed project. Please let us know if additional information is necessary.
- e) Please specify any fire protection or emergency shutoffs planned.
  - The plans call out for small handheld fire extinguishers to be secured to the charging units. The applicant will work with the City of Rochester Fire Department to determine if additional fire suppression is required for the canopy during the building permit application review.
- f) Our site plan regulations require a pitched or more traditional roofline for the canopy. Below are the requirements, please contact staff with any questions: (Site Plan Regulations, Section 2, Architecture (H) Particular Building Types &. Components).
  - The plan set has been amended to depict a sloped roofline for the canopy. The roofline will be pitched toward Route 11 / Farmington Road.
  - Please find an example of the proposed canopy that is being proposed. Detailed plans will be prepared and submitted as part of the building permit phase.
  - To account for the stormwater runoff from the pitched roof, a 2'stone drip edge has been added along the front edge of the canopy to capture the stormwater. A perforated pipe will collect the runoff and direct it to the stormwater infiltration basin. A detail of the drip edge was added to the Construction Details (Sheet C-4) of the plan set.

#### Economic Development (Jenn Marsh):

No comments/concerns.

#### Dept. of Public Works (Tim Goldthwaite):

Chapter 218 Stormwater Permit is required.

- The site has been designed to adhere to City of Rochester Chapter 218.
- A Drainage Report was submitted as part of the initial submission. There has not been any changes to the site plans which has an effect to the proposed stormwater management calculations or report.
- The applicant will file the City of Rochester Stormwater Management and Erosion Control Application prior to the start of construction once a site contractor has been selected.

#### **Building & Licensing Services (Jim Grant):**

No comments entered as of 2/10/22

#### Zoning (Crystal Galloway):

Variance received on January 12, 2022. No other concerns.

#### Fire Dept. (Tim Wilder):

No comments/concerns.

# Assessing Dept. (Theresa Hervey No comments entered as of 2/10/22

#### Police Dept. (Gary Boudreau):

No concerns. Once the site is up and operational, please work with either police or fire so we can get site contact information so we can contact someone if there are problems or need security camera footage.

• The applicant will coordinate with the City of Rochester Police and Fire Department on the operator's contact information once the site is operational.

If you have any questions regarding the revisions made to this plan set, the design itself or any supplemental material submitted to satisfy the conditions of approval, please feel free to call or email me.

Sincerely,

NORWAY PLAINS ASSOCIATES, INC.

By:

Scott A. Lawler, P.E., Project Engineer

Cc: **KO-GO LLC** 

# NORWAY PLAINS ASSOCIATES, INC.

LAND SURVEYORS • SEPTIC SYSTEM DESIGNERS • CIVIL ENGINEERS

P.O. Box 249 Continental Blvd. (03867) Rochester, NH 03866-0249 Phone (603) 335-3948 www.norwayplains.com



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

February 3, 2022

Mr. James Hewitt, PE NHDOT Maintenance District 6 PO Box 740 Durham, NH 03824-0740



Re: NHDOT Driveway Permit Application for KO-GO LLC; NH Route 11 (Farmington Road), Rochester NH

Dear Jim;

On behalf of the Ko-Go, LLC, Norway Plains Associates, Inc. is pleased to submit a Driveway Permit Application for their project. Ko-Go, LLC are in the process of purchasing the property located on Farmington Road identified by the City of Rochester assessors as Tax Map 208, Lot 16 from the Estate of Robert Rowe, Sr. This parcel shares an existing driveway with 127 Farmington Road, a single family house currently owned by Clifton Jones; Tax Map 208, Lot 17. There is currently a gravel driveway with paved apron that provides access to the Jones residence.

The existing driveway to the parcels is located on the north side of Farmington Road, about 600 feet westerly of the Sterling Drive and Walmart Driveway intersections. This driveway has been servicing the residence for decades, as depicted on sheet 23 (Clyde Dutton & Walter Dutton) of the 1957 NHDOT Project P-3346 plans. The property is abutted to east by Meineke Car Care Center, NH Rails to Trails to the north and a vacant parcel directly across Route 11. Currently, there is a painted median in front of the property.

Ko-Go is proposed to construct an electric vehicle charging facility on the vacant property. This facility will accommodate 6 electric vehicles charging at a time with 4 additional parking stalls for awaiting vehicles. The chargers, all class 2 or class 3, will allow for extremely fast charging times. As such, the users are only allowed a maximum of an hour within the charging stalls. With most vehicles only requiring half that time to charge from 10% to 80% of their battery's capacity, it is unlikely most vehicles will need to full allotment of time.

To accommodate the increased traffic over a single family residency, the existing gravel driveway will be reconstructed to a 24-foot wide paved driveway into the parcel. In order to provide adequate separation from the abutting property to the east (Meineke) for grading and increase the two driveway separation to over 250 feet, the new driveway will be shifted approximately 20 feet westerly. This will require an extension of the existing stormwater pipe under the existing driveway. The proposed driveways will have flared radii of 25 feet, which will easily accommodate pedestrian vehicles. It is very unlikely there will be the need for any significantly sized trucks or tractor-trailers to be entering or existing the site. The painted median will provide ample room for a vehicle waiting to make a left turn into the site, similar to those entering the Meineke Car Care Center.

The Institute of Traffic Engineers (ITE) publishes trip generation information for a wide variety of land uses based on extensive data and studies from throughout the country. In the case of the proposed use, Electric Vehicle Charging Station, there isn't an applicable use within the ITE given the relatively newness of this type of business. Unlike a traditional Gas / Service Station (ITE 944), the vehicles entering and exiting this facility will be a much less frequency. Furthermore, there is also no associated small store or service building that will be located at this site.

As noted above, the anticipated timeframe for an average vehicle charge is around 30 minutes. Assuming the demand is maxed out, it could be estimated that a total of 12 vehicles could be entering and existing the driveway at the peak hour in the morning and afternoon. With the addition of the single family residence sharing the driveway, the peak hour trips generated would be 26; 13 entering and 13 exiting. It is also assumed that the trips will be equally distributed to the east and west on Route 11.

Given the limited number of peak hour trips generated by both business and the residence and based on the recent upgrades by NHDOT on this section of Route 11, we do not anticipate any off-site improvements is necessary as part of the proposed electric vehicle charging facility.

We look forward to discussing this project with you. Thank you for your consideration Sincerely,

NORWAY PLAINS ASSOCIATES, INC.

By:

Scott A. Lawler, PE, Project Engineer

cc: Ko-Go, LLC

City of Rochester Planning Department

# NORWAY PLAINS ASSOCIATES, INC.

LAND SURVEYORS · SEPTIC SYSTEM DESIGNERS · CIVIL ENGINEERS

P.O. Box 249 Continental Blvd. (03867) Rochester, NH 03866-0249 Phone (603) 335-3948 www.norwayplains.com



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

January 21, 2022

Shanna Saunders, Planning Director Planning Department City of Rochester 33 Wakefield Street Rochester, NH 03867



Re: Nonresidential Site Plan Application; Ko-Go, LLC, 0 Farmington Road, Map 208, Lot 16.

Dear Ms. Saunders:

On behalf of Ko-Go, LLC, Norway Plains Associates, Inc. is pleased to submit a Non-Residential Site Plan Application. Ko-Go, LLC is in the process of purchasing the property located on Farmington Road for the purpose of constructing an electric vehicle charging facility. The parcel located in front of 127 Farmington Road is identified by the City of Rochester assessors as Tax Map 208, Lot 16. The 1.66 acre vacant parcel is currently owned by the estate of Robert A. Rowe. The property is located in the Granite Ridge Development Zoning District as well as the Conservation Overlay and Aquifer Protection Overlay Districts.

The parcel is located on the north side of Farmington Road. To the southwest of the property there is a wetland complex that was delineated by B.H. Keith Associates on December 27, 2021. The parcel abuts the Meineke Car Care Center to the south and there is a vacant commercial property located across Route 11 / Farmington Road. Behind the parcel is the NH Rails to Trails system with the residential parcel beyond. Access to the parcel is off Route 11 via a shared driveway a residential property located on Tax Map 208, Lot 17.

The proposed project is the construction of an electrical vehicle (EV) charging facility. This facility will have 6 charging stations located under a canopy. The charging stations are a distinct design that incorporates individually designated charging spots with assigned charging units, designed to service EV owners/drivers as a complete EV charging system. This distinct system operates much like a traditional gas station in which drivers pull up to a pump and "power" their vehicle. No long-term parking is allowed as this would prevent other drivers from accessing the "power" that is needed. In addition to the 6 charging stations, there is a small parking area for 4 additional vehicles waiting for a spot to open up.

A new driveway to the facility will be constructed about 18 feet from the location of the existing gravel driveway. This paved driveway will be constructed to a width of 24 feet to accommodate two-way traffic. A stop sign and painted stop bar will be installed at the intersection of Route 11 / Farmington. This driveway reconstruction will require approval from NH Department of Transportation, given Route 11 is within the State's jurisdiction.

With the exception of short periods for maintenance, the facility will be accessible 24 hours a day, 7 days a week. Built within the EV units is a limit of 60 minutes that a vehicle can be charged. This limitation will allow for more users to access the chargers. As such, there will not be any long term parking allowed at the site. All of this is spelled out within the company app which also informs the user where the station is and what the availability of open charging stations. Generally, most users will be on site between 20 and 30 minutes, as that will allow for about 60 to 80% charges to the vehicles. The owners anticipate a minimum of 10 vehicles a day utilizing the

facility at the start. As EV become more popular and common place, the number of users will surely increase. This type of designated charging facility is the first one in New Hampshire and should provide a great place for travelers to and from the White Mountains and the lake regions to recharge their batteries and alleviate their 'range' anxiety.

An employee will visit the site a minimum of once a week to perform routine site maintenance. Maintenance to the EV units will be mostly done remotely through software patches. The units will send an alert directly to the owners if the unit is down, to which an employee would come to the site. In addition to the occasional site visits by an employee, there will be multiple security cameras placed around the facility to video record and allow the owner to have access to a "live" view of the facility.

As a result of the proposed site development, there will be an increase in the overall impervious surfaces. To account for the additional stormwater runoff, a shallow grass infiltration basin will be constructed behind the facility. This basin will provide some recharge of runoff back into the groundwater, provide treatment of runoff and avoid any additional runoff from leaving the property. Furthermore, the stormwater management system will achieve the standards outlined for a new development project within the City of Rochester Chapter 218 ordinance.

At this timeframe, there are no proposed facilities on the premise. As such, there are no proposed connections to the City water or any sanitary disposal system or connection to the City sewer system. Overhead wires will continue to service the property and the abutting residence. A new pole will be added to provide underground power and communication to the facility.

Depicted on the site plan are three light poles to provide illumination of the parking and driveways. These pole mounted fixtures will be capable of running off solar power. Within the canopy, there are recessed light fixtures to ensure the fixtures are full cut-off and downlighting. Landscaping has been shown to provide a nice aesthetic appearance from Route 11 and to provide screening to the rear residential use. A freestanding sign will be installed near the entrance.

With the exception of the aforementioned NHDOT approval for the driveway reconstruction, there are no other State or Federal permits required for this development. A City of Rochester Stormwater Management and Erosion Control permit will be applied for prior to start of construction. A Use variance from the City of Rochester Zoning Board of Adjustment was granted on January 5, 2022 to allow for the construction of an electric vehicle charging facility with 6 charging stations and associated lighting. Please refer to case Z-22-02.

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

NORWAY PLAINS ASSOCIATES, INC.

Ву:

Scott A. Lawler, PE, Project Engineer

cc: Ko-Go, LLC



# NONRESIDENTIAL SITE PLAN APPLICATION

# City of Rochester, New Hampshire

Date: 1/20/22	Is a conditional use no			
	(If so, we encourage you	u to submit an applic	ation as so	on as possible.
Property information				
Tax map #: 208; Lot	#('s): <u>16</u> , Z	Coning district: GRE	)	
Property address/location:	) Farmington Road			
Name of project (if applicable	e): Proposed Electric Vehicle C	Charging Facility		
Size of site: 1.66 acres;	overlay zoning district	(s)? Conservation and A	quifer Protectio	n
Property owner				
Name (include name of indiv	idual): Estate of Robert Row	e - Pamela Watson		
Mailing address: 1215 Bond Str	eet, Herndon, VA 20170			
Telephone #:		Email:		
Applicant/developer (if	different from property ov	wner)		
Name (include name of indiv	idual): KO-GO LLC - Victoria	Perez		
Mailing address: PO Box L; Exe	er, NH 03833			<del></del> :
Telephone #: 603-438-2695		Email: vperez@mobil	lekogo.com	
Engineer/designer				
Name (include name of indiv	idual): Norway Plains Associ	ates, Inc Scott Lawler, PE	<u> </u>	
Mailing address: PO Box 249, Roo	hester, NH 03866			
Telephone #: 603-335-3948	<del></del>	Fax #:		
Email address: slawler@norwayp	ains.com	Professional lice	nse #: <u>10</u>	026
Proposed activity (check	all that apply)			
New building(s): S	ite development (othe	r structures, parkin	g, utilities,	, etc.): <u>×</u>
Addition(s) onto existing build	ding(s): Den	nolition:	Change o	of use:

Describe proposed activity/use:cc	onstruct a commercial EV charging station with 6 charging units and parking for 10.			
Describe existing conditions/use (v	acant land?): The lot is current vacant land.			
Utility information				
City water? yes no X ; Ho	ow far is City water from the site?			
City sewer? yes no _x; Ho	ow far is City sewer from the site?			
If City water, what are the estimated total daily needs? gallons per day				
If City water, is it proposed for anything other than domestic purposes? yes no				
If City sewer, do you plan to discharge anything other than domestic waste? yes no				
Where will stormwater be discharged? Infiltration Basin				
<b>Building information</b>				
Type of building(s): Canopy				
Building height: 13'	Finished floor elevation:			
Other information				
# parking spaces: existing: 0 to	tal proposed: 10 ; Are there pertinent covenants? No			
Number of cubic yards of earth being removed from the site N/A				
Number of existing employees: 0 number of proposed employees total: 0				
Check any that are proposed: variance $\frac{x}{x}$ ; special exception; conditional use				
(see Case Z-22-02) <u>Wetlands</u> : Is any fill proposed? № ; area to be filled:; buffer impact?				

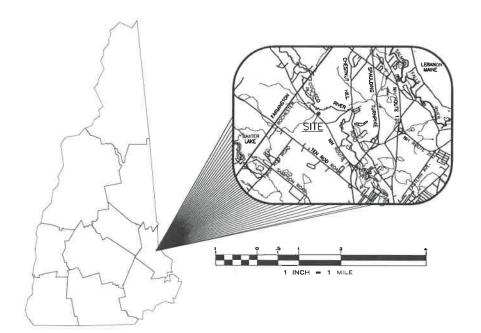
Proposed post-development disposition of site (should total 100%)				
	Square footage	% overall site		
Building footprint(s) – give for each building(canopy)	1,560	2.2		
Parking and vehicle circulation	5,289	7.3		
Planted/landscaped areas (excluding drainage)	3,870	5.3		
Natural/undisturbed areas (excluding wetlands)	51,783	71.4		
Wetlands	6,490	8.9		
Other – drainage structures, outside storage, etc.	3,525	4.9		

Comments	
Please feel free to add any comments, additional	l information, or requests for waivers here:
Submission of application	
This application must be signed by the property operation of the agent.	owner, applicant/developer (if different from
I(we) hereby submit this Site Plan application to to pursuant to the <u>City of Rochester Site Plan Regu</u> knowledge all of the information on this application	lations and attest that to the best of my
materials and documentation is true and accurate property owner)/as agent, I attest that I am duly a	e. As applicant/developer (if different from
Signature of property owner:	
	Date:
Signature of applicant/developer:	
Signature of agent:	Date: _24 Jan 2022
- Situation of agonts	Date:24 Jan 2022
Authorization to enter subject property I hereby authorize members of the Rochester Plat Conservation Commission, Planning Department, boards and agencies to enter my property for the including performing any appropriate inspections post-approval phase, construction phase, and occupate specifically to those particular individuals legitimal inspecting this specific application/project. It is un reasonable care, courtesy, and diligence when en	anning Board, Zoning Board of Adjustment, and other pertinent City departments, purpose of evaluating this application during the application phase, review phase, cupancy phase. This authorization applies tely involved in evaluating, reviewing, or inderstood that these individuals must use all intering the property.
	Date:

# PROPOSED ELECTRIC VEHICLE CHARGING FACILITY

FARMINGTON ROAD PREPARED FOR

KO-GO LLC JANUARY 2022





#### CIVIL ENGINEERS

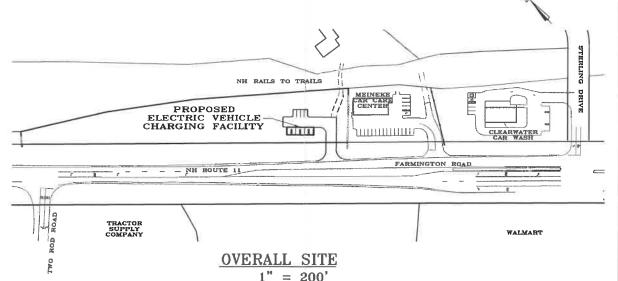
NORWAY PLAINS ASSOCIATES. INC. 2 CONTINENTAL BOULEVARD ROCHESTER, NEW HAMPSHIRE 03867 (603) 335-3948

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.

HERNDON, VA 20170 SCRD BOOK 4959, PAGE 42 & BOOK 1747 PAGE 132

#### **APPLICANT**

(603) 438-2695



OWNER OF RECORD

TAX MAP 208, LOT 16
OWNER OF RECORD:
ESTATE OF ROBERT A. ROWE, SR.
C/O PAMELA M. WATSON
1215 BOND STREET
HERDION VA 2017

KO-GO, LLC C/O VICTORIA PEREZ PO BOX L EXETER, NH 03833

NATIONAL POLLUTAIN DISCHARGE ELIMINATION SYSTEM (MPDES).

NPDES PERMIT DISCHARGE ELIMINATION SYSTEM (MPDES).

APPLES PERMIT BELOW AND HAVING A POINT SOURCE STORMWATER DISCHARGE FROM THE SITE TO AN ADJACENT WEILAND OR WATER BODY (I.E. CULVERT, SWALE, ETC. OUTLETING TO A WEILAND, CREEN, STREAM OR RIVER.)

NPDES PERMITS CONSIST OF A NOTICE OF INTENT (NOI) FILED WITH THE ENVIRONMENTAL PROTECTION AGENCY AT LEAST 14 DAYS PRIOR TO CONSTRUCTION COMMENCING 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

CERTIFIED BY: \_\_\_\_

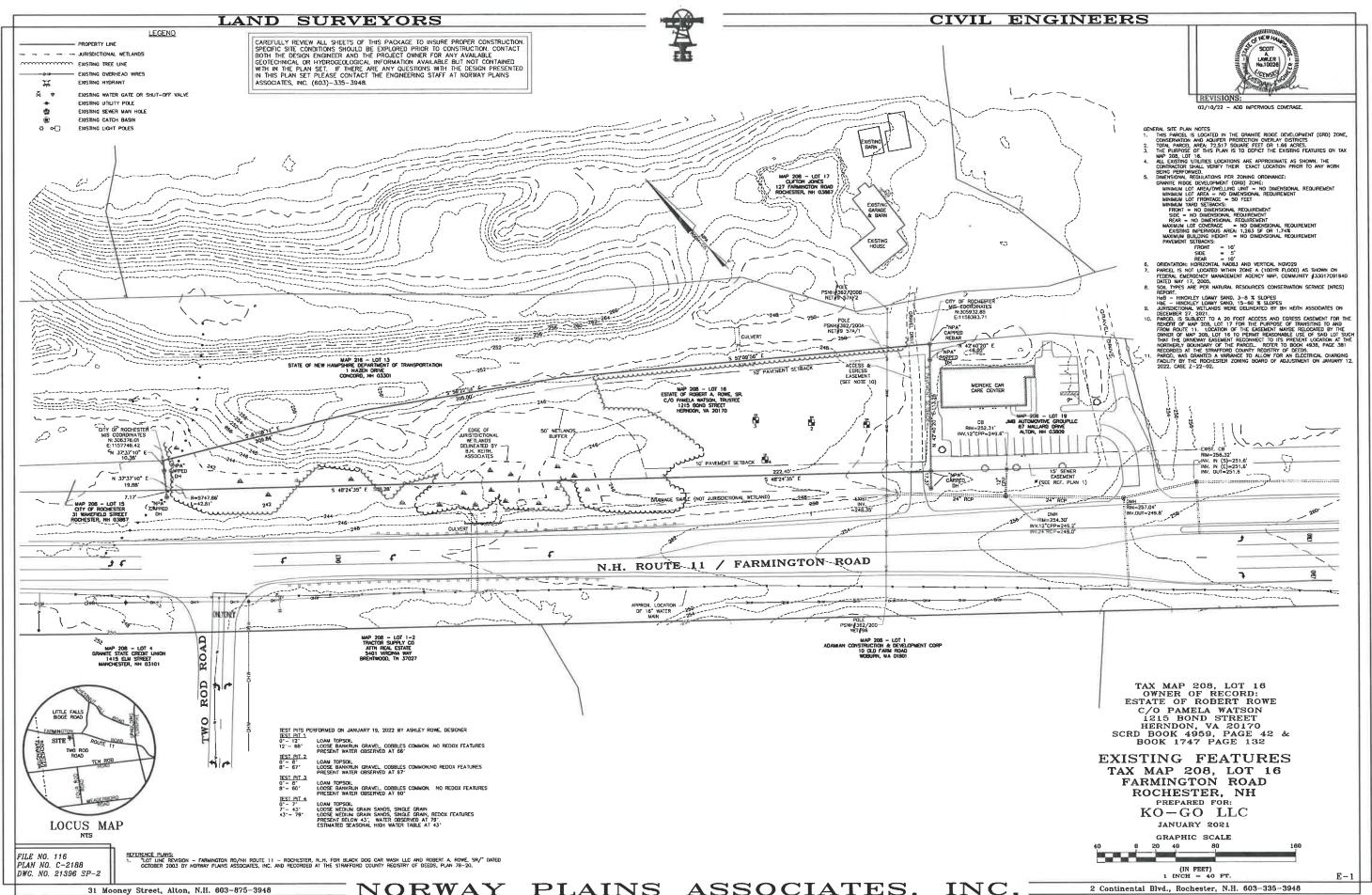
SHEET INDEX

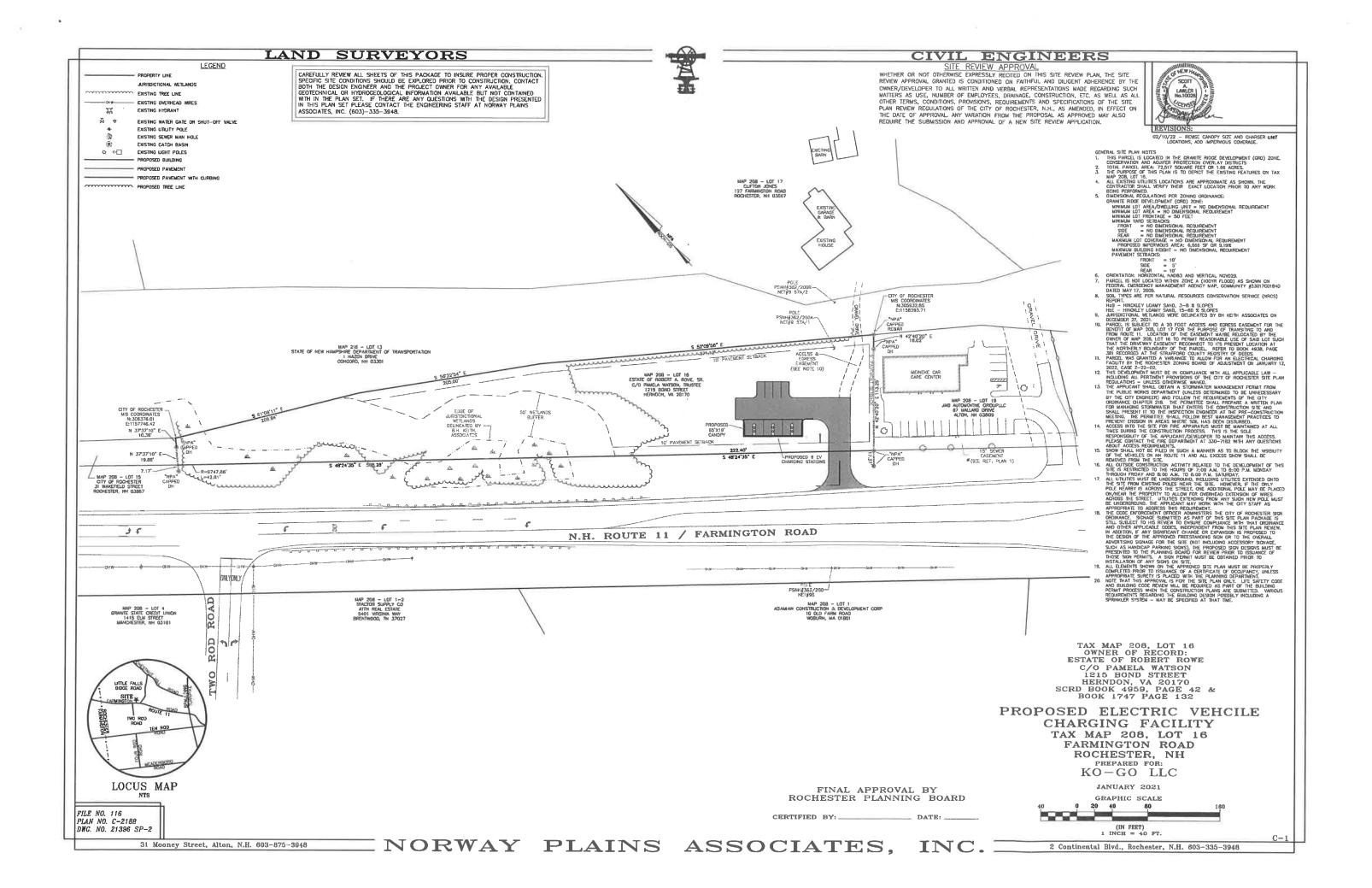
COVER
EXISTING FEATURES
OVERALL SITE PLAN
SITE LAYOUT PLAN 1" = 40' 1" = 40' 1" = 20' 1" = 20' SHEET SHEET GRADING, DRAINAGE, EROSION AND SHEET C-3 GRADING, DRAINAGE, EROSION A
SEDIMENTATION CONTROL PLAN
SHEET C-4 CONSTRUCTION DETAILS
SHEET C-5 EROSION AND SEDIMENTATION
CONTROL DETAILS
SHEET L-1 SIFE LANDSCAPING PLAN
SHEET L-2 LIGHTING PLAN AND DETAILS

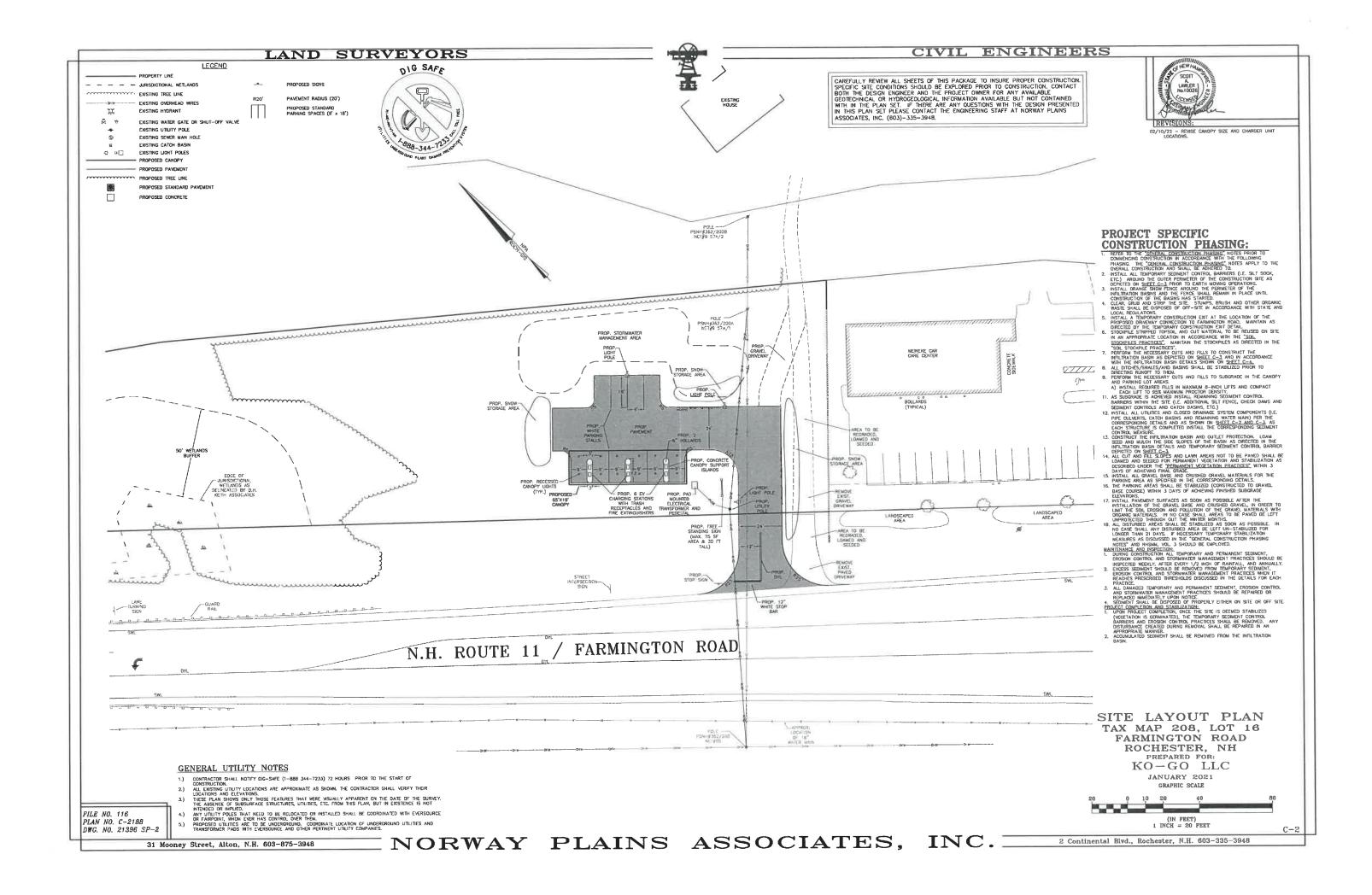
1" = 20' 1" = 20'

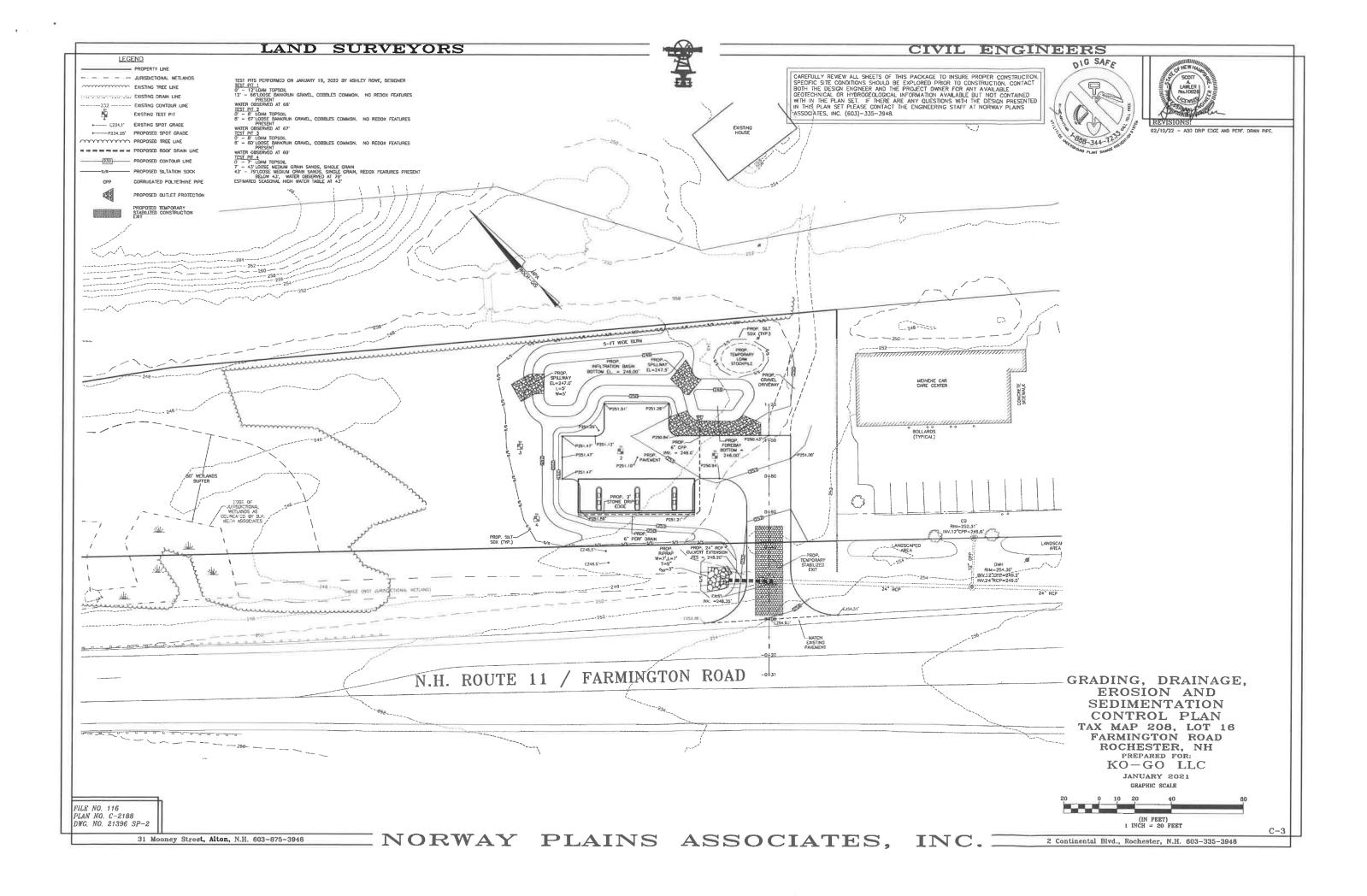
2 Continental Blvd., Rochester, N.H. 603-335-3948

FILE NO. 116 PLAN NO. C-2188

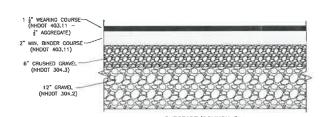








## LAND SURVEYORS



## STANDARD PAVEMENT CROSS-SECTIONS

NOT TO SCALE

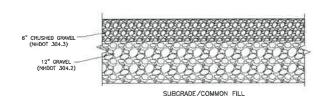
- PAVEMENT NOTES:

  1. PLACE COMMON FILL IN 12 INCH LIFTS. COMPACT COMMON FILL TO 95% MAXIMUM PROCTOR DENSITY.

  2. PLACE GRAVEL IN MAXIMUM B INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.

  3. PLACE CRUSHED GRAVEL IN MAXIMUM B INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.

  4. PAVEMENT MUST BE INSTALLED IN TWO COURSES, A BINDER COURSE AND A WEARING COURSE.



#### GRAVEL DRIVEWAY CROSS-SECTIONS

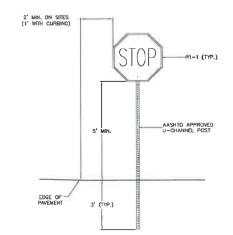
NOT TO SCALE

- GRAVEL DRIVEWAY NOTES:

  1. PLACE COMMON FILL IN 12 INCH LIFTS. COMPACT COMMON FILL TO 95% MAXIMUM PROCTOR DENSITY.

  2. PLACE GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.

  3. PLACE CRUSHED GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.



## TYPICAL TRAFFIC SIGN

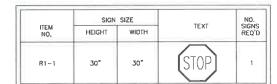
NOT TO SCALE

- NOTE: TO SCALLE

  1. Sign post small be adento approved u-channel or other per assetto "specifications for structural." Support of highway signs, luminaries and signals." Lifets still be modified 5 ft from ground to bottom edge where parking and parking lot movements take place.
- PLACE.

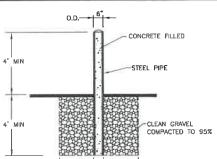
  SIGNS SHALL BE PLACED SO THAT NEAREST EDGE IS 2 FT.

  FROM EDGE OF PAVENENT UNLESS CURBED.



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

FILE NO. 116 PLAN NO. C-2188 DWG. NO. 21396 SP-2



#### STEEL BOLLARD DETAIL

NOT TO SCALE

PAVEMENT-

DRIP EDGE DETAIL

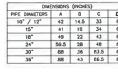
NOT TO SCALE

CRUSHED-STONE

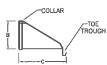
BOLLARD NOTES:

1. BOLLARDS SHALL BE COVERED WITH DURABLE PLASTIC OR PVC COVER, WHITE IN COLOR.





TOP VIEW



SIDE VIEW FRONT VIEW

FLAIRED END SECTION DETAIL

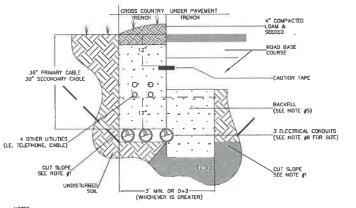
NOT TO SCALE

## 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 PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES IND. (ROJ). 335—348. ASSOCIATES, INC. (603)-335-3948.



02/10/22 - ADD DRIP EDGE DETAIL



- THE PROMETY.

  THE CHARGE THE CONTROL OF THE NATIONAL ELECTRIC SWEETY CODE, STATE AND LOCAL CODES AND THE NATIONAL ELECTRIC CODE.

  THE NATIONAL ELECTRIC CODE.

  THE NATIONAL ELECTRIC CODE.

  THE NATIONAL ELECTRIC CODE.

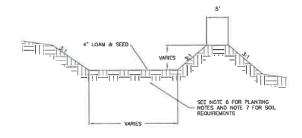
# SECTION "A"

#### SPILLWAY DETAIL

NOT TO SCALE

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

NOT TO SCALE



#### INFILTRATION BASIN CROSS SECTION

NOT TO SCALE

- CONSTRUCTION NOTES.

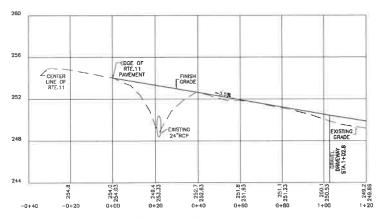
  1. DO NOT PILACE INFILTRATION BASIN INTO SERVICE UNTIL THE BMP HAS BEEN SEEDED AND ITS CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

  2. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM

- DO NOT DISCHARGE SEDMENT-LADEN WATERS FROM
  CONSTRUCTION ACTIVITIES (MENOFF, WATER FROM EXCAVATIONS)
  TO THE INPLITATION BASIN DURING ANY STAGE OF
  CONSTRUCTION.
  CLEAR AND GET SENDER FROM THE FLOW HEIGHT STATEMENT OF THE FALL WATER THE HEIGHT FOR THE STAGE OF
  CLEAR AND GET STOORTHE LOAM FOR RELISE LATER.
  HE FOUNDATION AREA SHALL BE SCARRIBED FROM TO PLACING
  FILL ALL UNSUITABLE MATERIAL UNDER THE BERN SHALL BE
  ROWOED AND REPLACED WITH SUITABLE FOUNDATION MATERIAL.
  THE BERN SHALL BE CONSTRUCTED BEGINNING FROM THE LOWEST
  ONTO THE STATEMENT AND STATEMENT OF THE STATEM



6. THE BOTTOM OF THE INFILTRATION BASIN SHALL RECEIVE FOUR INCHES OF LOAM AND BE SEEDED WITH NEW ENGLAND EROSION CONTROL, PRESTORATION MAY FOR DETENTION BASINS AND MOIST SITES. THE MIX SHALL BE APPLIED AT A RATIO OF 35 LBS PER ACRE. SEED MIX AVAILABLE FROM:



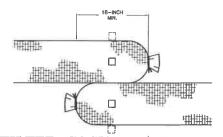
### DRIVEWAY PROFILE

H: 1" = 20'V: 1" = 4'

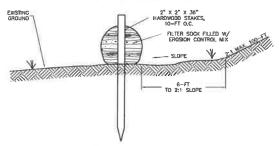
> CONSTRUCTION DETAILS TAX MAP 208, LOT 16 FARMINGTON ROAD ROCHESTER, NH PREPARED FOR: KO-GO LLC JANUARY 2021

NORWAY PLAINS ASSOCIATES, INC. 2 Continental Blvd., Rochester, N.H. 603-335-3948

#### LAND SURVEYORS



#### FILTER SOCK CONNECTION PLAN VIEW



#### FILTER SOCK CROSS-SECTION

- CONTINUOUS CONTAINED BERM (FILTER SOCK ALTERNATIVE):

  1. AN ALTERNATIVE PRODUCT, THE CONTINUOUS CONTAINED BERM (OR "FILTER SOCK") CAN BE AN EFFECTIVE SEDIMENT BARRIER AS IT ADDS CONTINUOUS TO STABILITY TO A BERM OF EROSION CONTROL MIX.

  2. IN THE EVENT THAT USE OF CONTINUOUS CONTINUED BERM IS DESIRED, THE PRODUCT SELECTED SHOULD BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER.

  3. INSTALLATION OF CONTINUOUS CONTAINED BERM IS DESIRED, THE PRODUCT SELECTED SHOULD BE SPECIFICATIONS OF THE MANUFACTURE.

MAINTENANCE REQUIREMENTS:
1. FILTER SOCK MAINTENANCE SHALL FOLLOW THE SAME SCHEDULE AS EROSION CONTROL MIX BERNS,

- CONSTRUCTION SPECIFICATIONS:

  1. COMPOSITION OF THE EROSON CONTROL MIX SHALL EITHER BE THE SAME AS EROSION CONTROL MIX BERM MATERIAL OR AS SPECIFIED BY THE FILTER SOOK MANUFACTURIER.

  2. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTROL

  1. THAN'S BE ACCESSARY TO CUIT TALL GRASSES AND WOOD'V ROBETATION TO AVOID CREATING VOIDS AND BRODGES IN THE BARRIER THAT WOULD EMBLE FRIES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEAM.
- FILTER SOCK DIAMETER (HEIGHT) SHALL BE PER THE MANUFACTURER RECOMMENDATION FOR THE AREA OF

#### CONTINUOUS CONTAINED BERM "FILTER SOCK" DETAIL

NOT TO SCALE

#### **TEMPORARY VEGETATION:**

- SPECIFICATIONS:
  SITE PREPARATION:
  SITE PREPARATION:
  NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS, AND NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS, AND NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS, AND NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS, AND NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS, AND NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS, AND NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS, AND NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS, AND NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS, AND NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS, AND NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS, AND NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS, AND NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS, AND NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS, AND NEEDED PROSON AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSIONS AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSION AND SEDIMENT CONTROL MEASURES SUCH AS SILIATION BARRIERS, DIVERSION BAR

- PERPENDICULANT OF THE INFECTION OF THE PERPENDICULAR OF THE PERPENDICULA

- APPLY LIMITSTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE INTROCEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT FEASTRE ON SMALL OF VARIABLE STES, OR WHERE TIMING 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 (XXIDE

SEFONC:

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 TO 1 TO MEMBER SHEED HYBROSEPIDING.

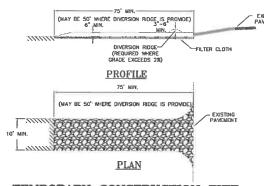
- HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 1078 WHEN HYDROSEEDING. TEMPORARY SEED SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15.
  TEMPORARY SEED SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15.
  ARCAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO INE. "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSAY, VOL 3.
  ACCORDING TO INE. "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSAY, VOL 3.
  COCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER THAT PROTECTION.

- MAINTENANCE REQUIREMENTS:

  1. TEMPORARY SEEDING SHALL BE INSPECTED WEEKLY AFTER ANY RAINFALL EXCEEDING 1/2 INCH IN 24 HOURS ON ACTIVE CONSTRUCTION SITES, TEMPORARY SEEDING SHALL BE INSPECTED JUST PROVID OF SEPTEMBER 15, 10. ASSERTIAN WHETHER ADDITIONAL SEEDING IS REQUIRED TO PROVIDE STABILIZATION OVER THE MINTER.
- PERIOD.

  BASED ON INSPECTION, AFEAS SHALL BE RESERDED TO ACHEVE FULL STABILIZATION OF EXPOSED SOILS. IF IT IS TOO LATE IN THE PLANTING SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION MEASURES SHALL BE IMPLICATION OF SEASON TO APPLY ADDITIONAL SEED, THEN OTHER TEMPORARY STABILIZATION FEASON OF SEDULENTATION IS APPLARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

FILE NO. 116 DWG. NO. 21396 SP-2



#### TEMPORARY CONSTRUCTION EXIT

NOT TO SCALE

- MANIEMANCE DECUMENTATION

  1. WHEN THE CONTROL PAD BECOMES INEFFECTIVE, THE STONE SHALL BE REMOVED ALONG WITH THE

  DELECTED SOIL MATERIAL, REGRADED ON SITE, AND STABILIZED. THE ENTRANCE SHALL TEN BE
  RECONSTRUCTED.
- SPECIFICATIONS:
  THE FOLLOWING STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 15.
  THE AREA OF EMPOSED, UNSTABILIZED SOIL SHALL BE UNITED TO 1\_ACRE AND SHALL BE PROTECTED AGAINST EROSION BY THE METHODS DISCUSSED IN NHSMM, VOL. 3 AND ELSEWHERE IN THIS FLAN SET, PRIOR TO ANY THAW OR SPRING METHODS.

  THE AREA OF EMPOSED WITH STABILIZED SOIL SHALL BE UNITED TO 1\_ACRE AND SHALL BE PROTECTED AGAINST EROSION BY THE METHODS DISCUSSED IN NHSMM, VOL. 3 AND ELSEWHERE IN THIS FLAN SET, PRIOR TO ANY THAW OR STABILIZED COMPLETED WITH A DAY OF ESTABILISHING THE GRADE THAT I STIML OR THAT OTHERWISE WILL EMST FOR MORE THAN 3 DAYS.

  A ALL PROPOSED WEEGET RED AREAS HANNO A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM BOX WEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15. SHALL BE SEEDED AND COVERED WITH TOWN OF HAY OR STRAW MULCH PREA ACRE SCIENCED WITH A CONTROL MIX (REFER TO NHSMM, VOL. 3 FOR SPECIFICATION).

  B. ALL REPOSED WITH A STRAW MULCH OR FOR ACRE SCIENCED WITH A MINIMUM OF 4 NICHES OF EROSION CONTROL MIX (REFER TO NHSMM, VOL. 3 FOR SPECIFICATION).

  B. ALL REPOSED WITH A STRAW MULCH OR RED STRAW AND ACRE THAN A MINIMUM OF 4 NICHES OF EROSION CONTROL MIX, UNLESS OTHERWISE SPECIED BY THE MANUFACTURER. AT THE MINIMUM OF 4 NICHES OF EROSION CONTROL MIX, UNLESS OTHERWISE SPECIED BY THE MANUFACTURER. AND THAT A SINGULAR OF MANUFACH AND A SINGULAR PROTECTION OF THE ACRE OF T RECONSTRUCTED.

  THE CONTRACTOR SHALL SWEEP THE PANEMENT AT EXITS WHENEVER SOIL MATERIALS ARE TRACKED ONTO THE ADJACENT PANEMENT OR TRACELED WAY.

  WHEN WHEER, WASHING IS REQUIRED, IT SHALL BE COMDUCTED ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAINS INTO AN APPROVED SEDMENT—TRAPPING DEVOCE, ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, OTTORES, OR WATERRAW'S.

- CONSTRUCTION SPECIFICATIONS:

  1. THE MINIMUM STORE USED SHALL BE 3-INCH ORUSHED STONE.

  2. THE MINIMUM LENGTH OF THE PAD SHALL 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.

  THE PAD SHALL BE THE FULL WIDTH OF CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEVER IS

STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS

WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER

LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY RECREATION SITES

PLAY AREAS AND ATHLETIC FIELDS (TOPSOIL ESSENTIAL FOR

PERMANENT VEGETATION SEEDING RECOMMENDATIONS

MIXTURE

THE PAD SHALL BE THE FULL WIDTH OF CURSING ROADWAY.

THE PAD SHALL SLOPE AWAY FROM THE EXISTING ROADWAY.

THE PAD SHALL SLOPE AWAY FROM THE EXISTING ROADWAY.

THE GEODEVILE BLAIF LESST & INCHES THECK.

THE GEODEVILE BLAIF LAST & INCHES THECK.

BELOW THE PAD.

THE PAD SHALL BE MANTIANED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE STONE SUCH THAT MUD AND SOIL PARTICLES ARE. TRACKED OFF-SITE.

MATURAL DEVIANDE THAT CROSSES THE LOCKION OF THE STONE PAD SHALL BE INTERCEPTED AND PRIED BEHEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET PROTECTION.

SPECIES

TALL FESCUE CREEPING REO FESCUE REDTOP TOTAL

TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL

TALL FESCUE REEPING RED FESCUE REDTOP TOTAL

CREEPING RED FESCUE KENTUCKY BLUEGRASS

SOURCES:

1. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLES 4-2 AND 4-3

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

### PERMANENT VEGETATION:

WINTER STABILIZATION & CONSTRUCTION PRACTICES:

MAINTENANCE REQUIREMENTS:

1. MAINTENANCE MEASURES SHALL BE PERFORMED THREUGHOUT CONSTRUCTION, INCLUDING OVER THE WINTER PERFO.

1. MAINTENANCE MEASURES SHALL BE PERFORMED TO THAMMS AND RUNGFF THE SITE CONTRACTOR SHALL CONDUCT
MINISPECTION OF ALL MEASUREST CONTROL PRACTICES AND PERFORM REPARTS AS NEEDED TO INSURE THERE
CONTRILLED FUNCTION.

2. FOR ANY AREA STABILIZED BY TEMPORARY OR PERMANENT SEEDING PRIOR TO THE ONSET OF THE WINTER SEASON,
THE CONTRACTOR SHALL CONDUCT AN INSPECTION IN THE SPRING TO ASCEPTAIN THE CONTRION OF THE
MECETATION AND REPAIR ANY DAMAGED AREAS OR BARE SPOTS AND RESEED AS REQUIRED TO ACHIEVE AN
ESTABLISHED VEGETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, VIGOROUS GROWTH.)

SPECIFICATIONS:
THE FOLLOWING STABILIZATION TECHNIQUES SHALL BE EMPLOYED OURING THE PERIOD FROM OCTOBER 15 THROUGH MAY

SITE PREPARATION:

1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIMENSIONS, AND SEDIMENT TRAPS.

2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDED PREPARATION, SEEDING, MULCH AMPLICATION, AND MULCH AMPCORTION.

3. RUNGET SHALL BE DIMENTED FROM THE SEEDED AREA.

4. ON SLOPES 4:1 OR STEPPER, THE FIRM PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO GATCH SEED AND REQUICE RUNGET.

- RUNGE.

  SENDER DEPARATION:

  1. WORK LIME AND FETHUZER 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 CENTRAL CONTOUR. CONTINUE TILLAGE UNTIL A
  REASONABLY LIMFORM, PINE SECREDE 19 PREPARED. ALL BUT CLAY AND SLT SOILS SHALL

  2. REMOVE FROM THE SITE ARC ALL STOKES ZINCHES OR LARGER IN ANY DIMENSION. REMOVE
  OR OTHER UNSUITABLE MATERIA. CABLE, TREE ROOTS, COMPGETE CLOSS, LUMPS, TRASH
  OR OTHER UNSUITABLE MATERIA.

  2. INSPECT SEEDED JUST BEFORE SEPTING. IF TRAFFIC HAS LETT THE SOIL COMPACTED, THE
  ARCA MUST BE TILLED AND PRIMED AS ABOVE.

  3. INSPECT SEEDED JUST BEFORE SEPTING. IF TRAFFIC HAS LETT THE SOIL COMPACTED, THE
  ARCA MUST BE TILLED AND PRIMED AS ABOVE.

  3. DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.

  3. DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.

  4. GROWNER SEASON.

  4. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS, FERTILIZER
  SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PROSPHATE AND SOUN RELEASE
  NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWES. IF SOIL TESTING IS NOT
  FEASURE ON SHALL ON VARIABLE STEES, ON WHERE THING IS CRITICAL FERTILIZER AND
  LIMESTONE MAY BE APPLIED AT THE POLLOWING RATES.

  LIMESTONE APPLICATION AND THE MAY AND AND SALES APPLIED AT THE POLLOWING RATES.

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

#### TEMPORARY VEGETATION SEEDING RECOMMENDATIONS

LBS./ACRE LBS./

0.45 0.45 0.05 0.95

0.45 0.45 0.05 0.95

0.45 0.45 0.05 0.95

1.15 1.15 2.30

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 15 FOR BEST COVER, SEED TO A DEPTH OF 1 INCH.
OATS	2.5 BU OR BO 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 APPEARANCES 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 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.

SOURCES:
1. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLE MINNICK, E.L. AND H.T. MARSHALL, (ALIGUST 1992)

- SEDING.

  1. MOQULATE ALL LEQUIS SED WITH THE CORRECT TYPE OF INOCULANT.

  2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDROSEDER (SURRY INCLIDING SEED AND FERTILIZER). MORNAL SEEDING DEPTH IS FROM 1/4 TO 2/2 MICH. HYDROSEDING THAT INCLIDES MULCH MAY BE LEFT ON SOIL SIREAGE.

  3. WHERE FALSEE EXCEPT WHERE THICH CULTIPACKET TYPE SEEDER OR HYDROSEDIRE IS FRAME. LIGHT OF MALE RECORD SHALL BE FRAMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT OR SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIKES OR WITH LEQUINES. PERMANENT SEEDING SHALL BE COMMEDIED AS DAYS FOR THE SEED SHALL BE HARD SHOWN VETCH IS SEEDED IN LATE SUMMER AT LEAST JUSK OF THE SEED SHALL BE HARD SHOULD SHOW WITH A SPECIAL BE COMPLETED AS DAYS OF THE SEED SHALL BE HARD SHOULD SHOU

- STABILLARIUS.

  LURROSEDING (HYDRAULIC APPLICATION), PREPARE THE SEEDBED AS SPECIFED ABOVE OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND REMOVE SURFACE STOKES OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND REMOVE SURFACE STOKES LARGER THAN 2 INCHES IN DIMMETER.

  SLOPES BUST SE NO STEEPER THAN 2:1 (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY.

  J. LIME AND FERTILIZER MAY SE APPLIED SIMULTANEOUSLY WITH THE SEED. THE USE OF FISHER MULCH ON CONTRACT SEARCH OR HAV). BETTER PROTECTION IS GRANED BY USING STRAW MULCH AND HOLDING IT WITH APPLIED WATERNALS OR SOO POLINDS OFF ACASE OF WOOD FROM MULCH.

  4. SEEDING RAYES MUST SE MOREASED BY 100K WHEN HYDROSEEDING.

- MAINTENANCE REQUIREMENTS.

  1. PERMANENT SECRED AREAS SHALL BE INSPECTED AT LEAST MOTHLY DURING THE COURSE OF CONSTRUCTION, INSPECTION, MAINTENANCE AND CORRECTIVE ACTIONS SHALL CONTINUE
  2. SEEDED AREAS SHALL BE MOVED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VECETATION. MOWING HIGHEIT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER.
  3. BASED ON INSPECTION, AREAS SHALL BE RESERRED TO ACHIEVE FULL STRABILIZATION OF EXPOSED SOILS. SO OF DIE SOIL SURFACE SHALL BE CONSTRUCT BY VECETATION.
  5. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESERRED. WITH OTHER TEMPORARY MESSINGS (I.E. MULCH, ETC.) AND AREAS SHALL BE RESEEDED, WITH OTHER TEMPORARY MEASURES (LE. MULCH, ETC.)
  USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT

## 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.



## CONSTRUCTION PHASING:

- STABILIZATION:

  A STEE IS DEEMED STABILIZED WHEN IT IS IN A CORDITION IN WHICH THE SOIL ON SITE VILL DON'T EXPERIENCE ACCELERATED OR UNMATURAL EROSION UNDER THE CONDITIONS OF A 10-YEAR STORM EVENT, SUCH AS BUT NOT LUMITED TO:

  ANN AREAS THAT WILL NOT BE PAYED:

  b) A MINIMUM OF 85X VEGETATIVE COVER HAS BEEN ESTABLISHED;

  c) A MINIMUM OF 85X VEGETATIVE COVER HAS BEEN ESTABLISHED;

  c) A MINIMUM OF 85X VEGETATIVE COVER HAS BEEN ESTABLISH OR;

  c) EROSION CONTROL BLANCETS HAVE BEEN INSTALLED.

  EROSION CONTROL BLANCETS HAVE BEEN INSTALLED.

  1 EMPORATY STABILIZATION:

  ALL AREAS OF EXPOSED OR DISTURBED SOL SHALL BE TOUPDRAFILY STABILIZED AS SOLD HAS EXAMPLED OR STABILISHED OR THE THE CONTROL OF T

- ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE PERMANENTLY STABILIZED AS SOON AS PRACTICABLE BUT NO LICER THAN 3 DAYS FOLLOWING PINUL (READING).

  MANIMUM, AREA OF DISTURBANCE.

  THE SMALLES PROPROCY, OR THE STABILIZED OF THE STABILIZED AND AND THE STABILIZED OF THE CONSTRUCTION, NO THE STABILIZED OF THE STABILIZED OF

- PHILM EROSION.

  9. STOCKHELES, BORROW AREAS AND SPOILS SHALL BE STABILIZED AS DESCRIBED UNDER "SOIL STOCKHILE PRACTICES".

  10. SLOPES SHALL NOT BE CREATED SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTS WITHOUT ADECUATE, PROTECTION AGAINST SEDMENTATION, ADDITION OF THE PROPERTY OF THE PRO

- GEOTECHINGAM. REPORT AND/OR THE "PROJECT SPECIFIC PHASING NOTES" FOR SPECIFIC GUIDANCE.

  15. ANY AND ALL FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS (LARGER THAN 3/4 THE DEPTH OF THE LIFT BERION INSTALLED), LOSS, STUINPS, BUILDING DEBRIS, FROZEN MATERIAL AND OTHER OBJECTIONABLE MATERIALS. THAT WOULD INTERFER WITH OR PREVENT CONSTRUCTION OF SATISFACTORY LIFTS.

  16. PROZEN MATERIAL OR SOFT, MICHOSY OR RIGHTY COMPRESSION, MICHOLY AND STREAM STRAIL OR SOFT, MICHOSY OR RIGHTY COMPRESSION, MICHOLY AND STRAIL SHAPPING THE STRAIL OF STRAIL SHAPPING FOR THE STRAIL SHAPPING FOR THE DIRECTION OF A PROFESSIONAL PROJECTE.

  17. THE OUTER FACE OF THE FILL SUPPE SHALL BE ALUDIZER MAY RUN UP AND DOWN THE FILL SUPPE SHALL BE ALUDIZER MAY RUN UP AND DOWN THE FILL SUPPE SO THE DEER TREAS (LATH TRICKS) CREATE GROOVES COUPACTION WILL NOT OCCUR. SEE "SUPPEACE ROUGHERING" IN THE NISMM, VOLL.).

  18. ROUGHEN THE SURFACE OF ALL SUPPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, NORFASE INFILTRATION AND FAGILITATE VECTATION ESTABLISHIEM.

  19. LISS SLOPE BROWNS, SUCH AS DIVERSIONS, BENCHES OR CONTINUE THERROWS AS APPROPRIATE TO REDUCE THE LEIGHT OF CULT FILL SUPPES TO LIMIT SHEET AND A PROPERTY TURNOR AS LATER OF CONSTRUCTION SHALL BE CAPALLED BY A PROPERSIONS. ENGLISHES FOR CONTINUE THE CONDITION.

  20. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE CAPALLED BY A PROPOSED DESIGN SHALL BE REVISED TO PROPERTY MANAGE THE CONDITION.

  21. STABLEZE ALL CAMEDO ARREA (SA SHOVE) WITH VEGETATION, CRUSHEST BOTTOS STONE.

- THE PROPOSED DESIGN SHALL BE REVISED TO PROPERTY MANAGE THE CONDITION.

  STRABLIZE ALL GRADIO FARRAC (OR SOLVE) WITH VEGETATION, CRUISHED STONMENTER
  OF IF WORK IS INTERRUPTED FOR 21 WORKING DAYS OR MORE. USE MULCH OR
  OTHER APPROVED METHODS TO STRABLEZ AREAS TEMPORALITY WHERE FAMILIES AND
  UNITS BE DELLAYED.

  24. LIST OF THE PROPOSED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING
- FINISHED CRADING.

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

#### **DUST CONTROL PRACTICES:**

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

  WAIRE APPLICATIONS.

  A) MOSTER EXPOSED SOIL SURFACES PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.

  B) AVOID EXCESSIVE APPLICATION OF WATER THAT WOULD RESULT IN MOBILIZING SEDIMENT AND SUBSEQUENT DEPOSTION BY MATURAL WATERBOOKS.
- DEPOSITION IN NATURAL WALKERUNES.

  3. STONE APPLICATION:
  A) COVER SURFACE WITH CRUSHED OR COARSE GRAVEL.
  B) IN AREAS NEAR WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED AGGREGATE.
  B) IN AREAS NEAR WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED AGGREGATE.
  A. REFER TO YNEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SCIUMENT CONTROL, DECEMBER 2008 FOR OTHER ALLOWABLE DUST CONTROL PRACTICES (I.E. COMMERCIAL TACHIFIERS 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.
   PROTECT ALL STOCKPILES FROM STORMWATER FRUIN-ON USING TEMPORARY PERIMETER MEASURES SUCH AS PROTECT ALL STOCKPILES FROM STORMWATER FRUIN-ON PRINCIPLES WITH A STOCKPILES ON THE PLANS AND IN INFISMM VIOL 3. TO PREVENT MIGRATION OF MATERIAL BEYOND THE MIMBELIAT CONFINES OF THE STOCKPILES.
   MIPLEMENT WIND EROSION CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED MATERIAL.
   MIPLEMENT WIND EROSION CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED MATERIAL.
   PLACE BAGGED MATERIALS ON PALLETS OR UNDERSONCER.

# PROTECTION OF INACTIVE STOCKPILES: 6. INACTIVE SOIL STOCKPILES SHALL BE COMERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL CTARILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND CTARILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND CTARILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND

- INACITYE SIGIL STOOPHLES SHALL BE COVERED WITH ANCHORED TARPS OR PROTECTED WITH SIGIL
  STABILIZATION MEASURES (TEMPORARY SEED AND MULCO NO OTHER TEMPORARY STABILIZATION PRACTICE) AN
  THAPPORARY PERMITER SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES.
   INACITY STOOPHLES OF CONCRETE RUBBLE, ASPHALL TOORNETE RUBBLE, ACCREGATE MATERIALS, AND
  SIMILAR MATERIALS SHALL BE PROTECTED WITH TEMPORARY SEDIMENT PERMICITER BARRIERS (I.E. SILT FENCE,
  ETC.) AT ALL TIMES. BY THE MATERIALS ARE A SOURCE OF DUST, GIFT SHALL ALSO BE COVERED.
- PROTECTION OF ACTIVE STOCKPILES.

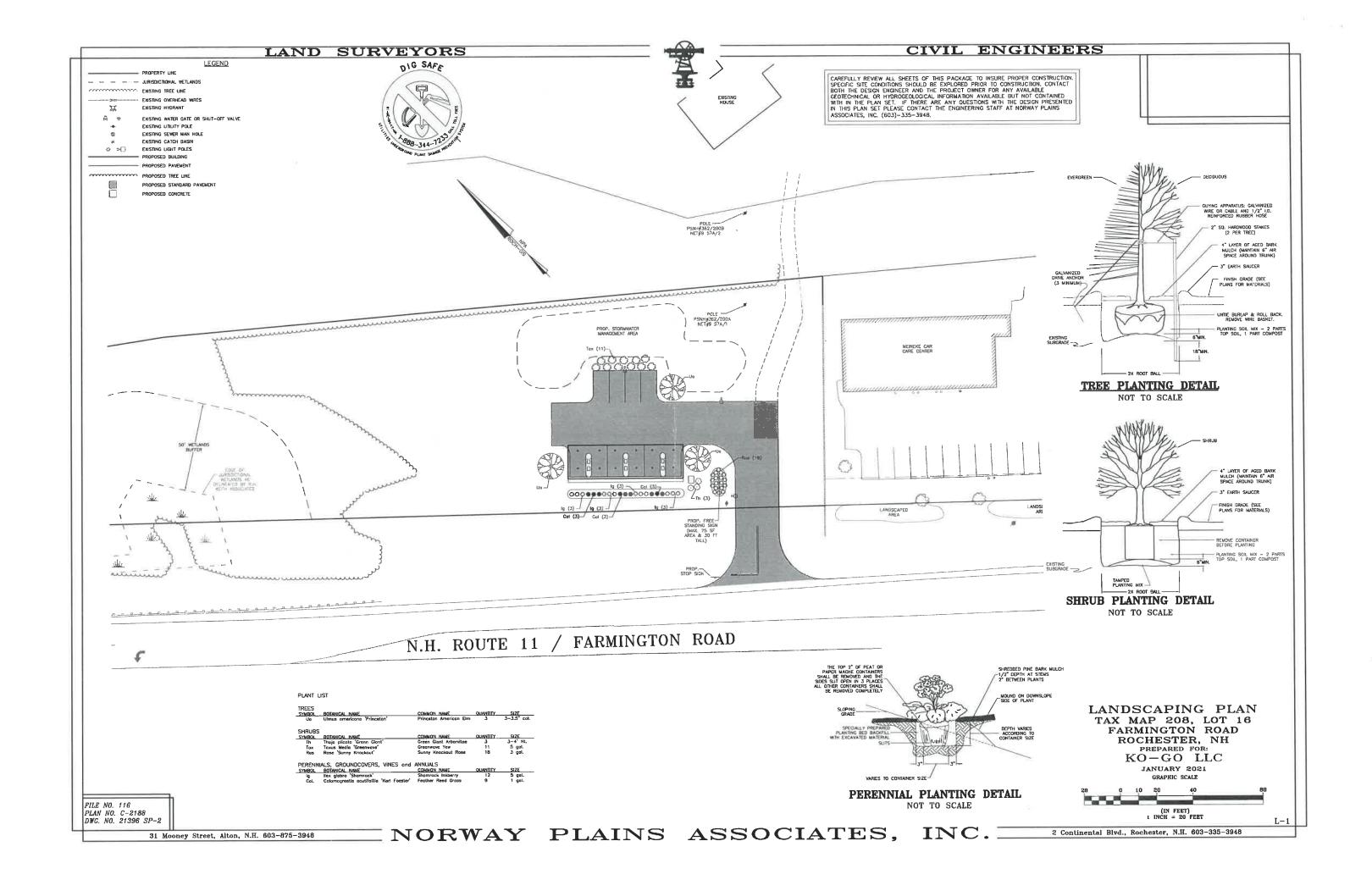
  8. ALL STOCKPILES SHALL BE SURROUNDED WITH TEMPORARY UNEAR SEDIMENT BARRIERS (J.E. SILT FENCE, ETC.)
  PRIOR TO THE ONSET OF PRECIPITATION. PERIMETER BARRIERS SHALL BE MAINTAINED AT ALL TIMES, AND
  ADJUSTED AS REDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIAL FROM THE STOCKPILE.
  THE INTEGRATY OF THE BARRIER SHALL BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERING.

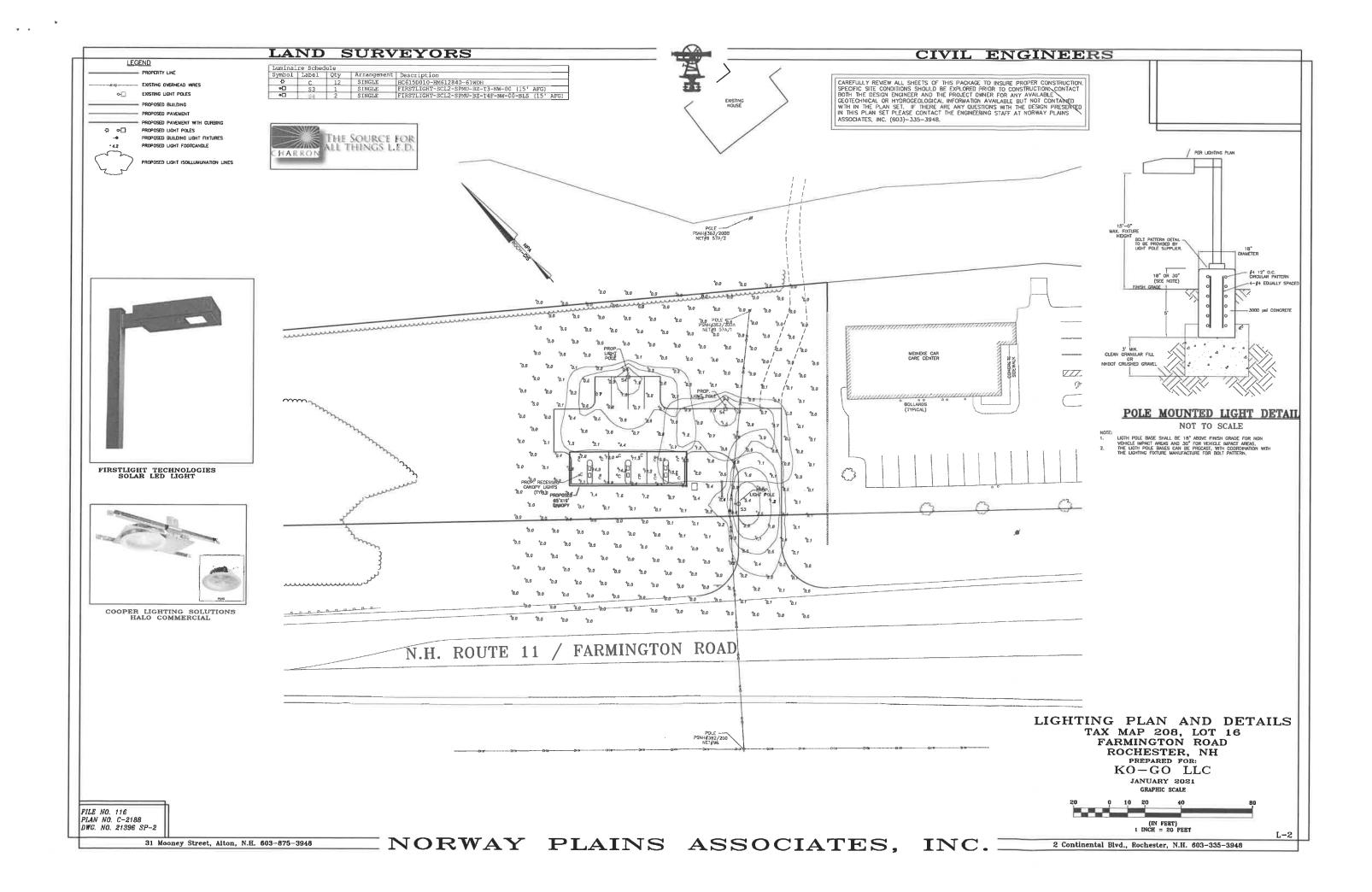
  9. WHEN A STORM IS PREDICTED, STOCKPILES SHALL BE PROTECTED WITH AN ANCHORED PROTECTIVE COVERING.

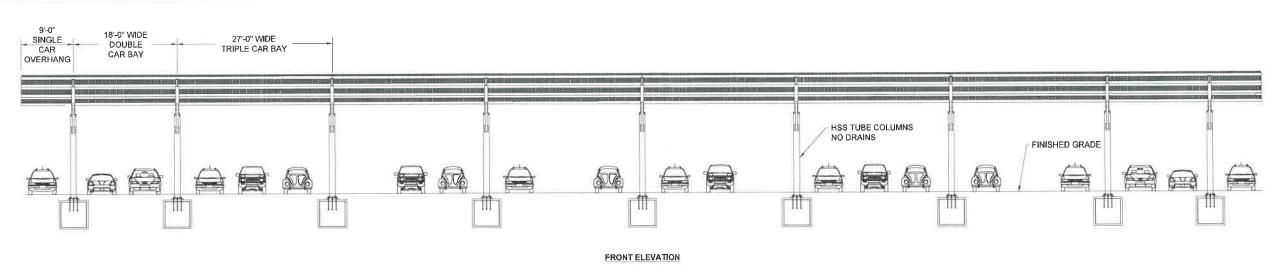
EROSION AND SEDIMENTATION CONTROL DETAILS TAX MAP 208, LOT 16 FARMINGTON ROAD ROCHESTER, NH PREPARED FOR: KO-GO LLC JANUARY 2021

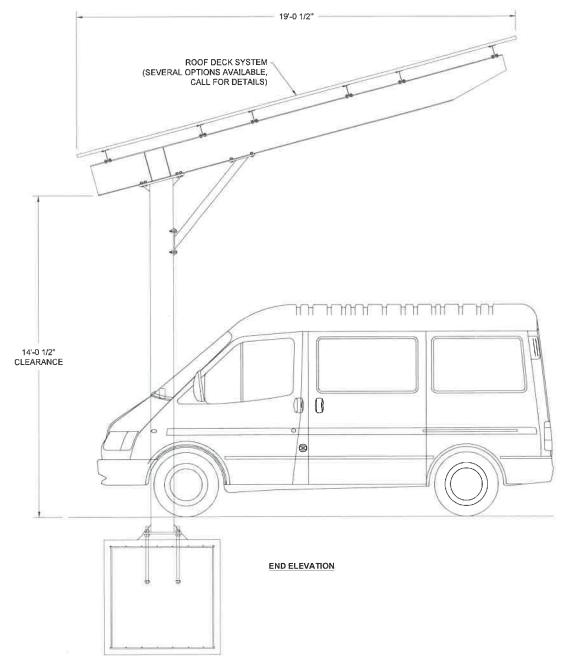
C-5

NORWAY PLAINS ASSOCIATES, INC.











AUSTIN MOHAWK & CO., LLC. 2175 BEECHGROVE PLACE UTICA, NY 13501 PHONE: 315.793.3000 TOLL FREE: 1.800.765.3110 FAX: 315.793.9370 WEBSITE: www.austinmohawk.com E-MAIL: info@austinmohawk.com

#### PRELIMINARY DRAWING NOT FOR CONSTRUCTION

### JOB#-

QUOTE#

DRAWING #

IN-LINE COLUMNS, SINGLE PARKING ROW

#### CUSTOMER:

PARKING CANOPY (NON-SOLAR)

LOCATION: -

DATE:

SCALE: N.T.S. DRAWN BY: DWI

8.5.21

SHEET: 1 OF 1

Notice - Austin Mohawk & Co., LLC claims proprietary rights in the information disclosed on this drawfng. It is issued in confidence for engineering information only and may not be used, in whole or in part, to manufacture anything whether or not show hereon, reproduced or disclosed to anyone without direct written permission from Austin Mohawk LLC