Application for Conditional Use Conditional Uses and Buffer Reductions

Section 42.19 - Conservation Overlay District City of Rochester, NH

Date:	
Property information	
Tax map #:; Lot #('s):	; Zoning district:
Property address/location:	
Name of project (if applicable):	
Property owner	
Name (include name of individual): _	
Mailing address:	
Telephone #:	Fax
Applicant/developer (if different for Name (include name of individual):	rom property owner)
Mailing address:	
Telephone #:	Fax #:
Engineer/designer	
Name (include name of individual): _	
Mailing address:	
Telephone #:	Fax #:
Email address:	Professional license #:
Proposed Project	
Please describe the proposed projec	t:
	ns:

(continued <u>Conditional Use</u> application Tax Map: Lot:)
*Please fill in one of the next two sections – for either <u>Conditional Uses</u> or <u>Buffer Reductions</u> *
Conditional Uses For Conditional Uses 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.
(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.
(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.
(iv) Economic advantage is not the sole reason for the proposed location of work.
(Buffer Reductions on next page)

(continued <u>Conditional Use</u> application Tax Map: Lot:)
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, or the application of the CO district eliminates greater than 50% of the buildable area located on the parcel or 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 of 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	y owner:			
			Date:	10/24/2022
Signature of applica	nt/developer:	1///	Date.	
	1		Date:	10/24/2022
Signature of agent:	LinApauler			
			Date:	10/24/2022

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.)

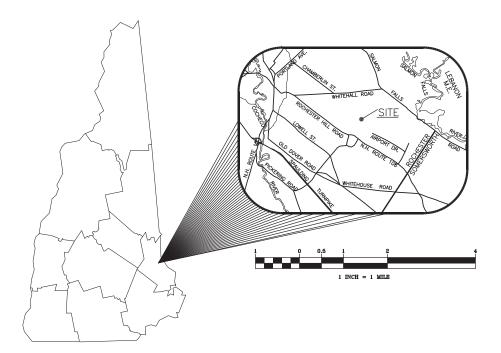
Signature of property owner:

Date: 10/24/2022

Conservation Commission Recommendation	:	[office use only]
Name of project	Case #	
Recommendation:		
□ Approval		
 Approval with conditions 		
Denial		
Comments/recommended conditions:		
Conservation Commission	date	
Planning Department	date	

PROPOSED AGRIVOLTAICS FIELD

SHAW DRIVE PREPARED FOR GNM SOLAR 17, LLC SEPTEMBER 2022





CIVIL ENGINEERS

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

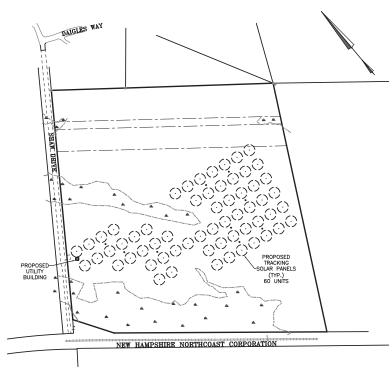
CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN 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.

OWNER OF RECORD

TAX MAP 240, LOT 49
GNM SOLAR 17, LLC
123 WASHINGTON STREET
ROCHESTER N.H. 03867
SCRD BOOK 4946, PAGE 485

APPLICANT

GNM SOLAR 17. LLC 123 WASHINGTON STREET ROCHESTER, NH 03867 (603) 765-9101



OVERALL SITE 1" = 200'

STATE AND FEDERAL PERMITS:
STATE OF NEW HAMPSHIRE PERMIT NUMBERS:
NHDES ALTERATION OF TERRAIN:
NHDES WEILANDS PERMIT:
NHDES DAM PERMIT:
NHDES SUBDIVISION PERMIT:
NHDES SUBDIVISION PERMIT:
NHDES SUBSURFACE SYSTEMS PERMIT:
NHDES WASTEWATER PERMIT:
NHDOT DRIVEWAY/ENTRANCE PERMIT:

NATIONAL POLLUTANT DISCHARGE FLIMINATION SYSTEM (NPDES):

NPDES PERMITS ARE ONLY REQUIRED FOR PROJECTS MEETING THE DISTURBED AREA CRITERIA BELOW AND, HAVING A POINT SOURCE STORMWATER DISCHARGE FROM THE SITE TO AN ADJACENT WETLAND OR WATER BODY (I.E. CULVERT, SWALE, ETC. OUTLETING TO A WETLAND, CREEK, 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.

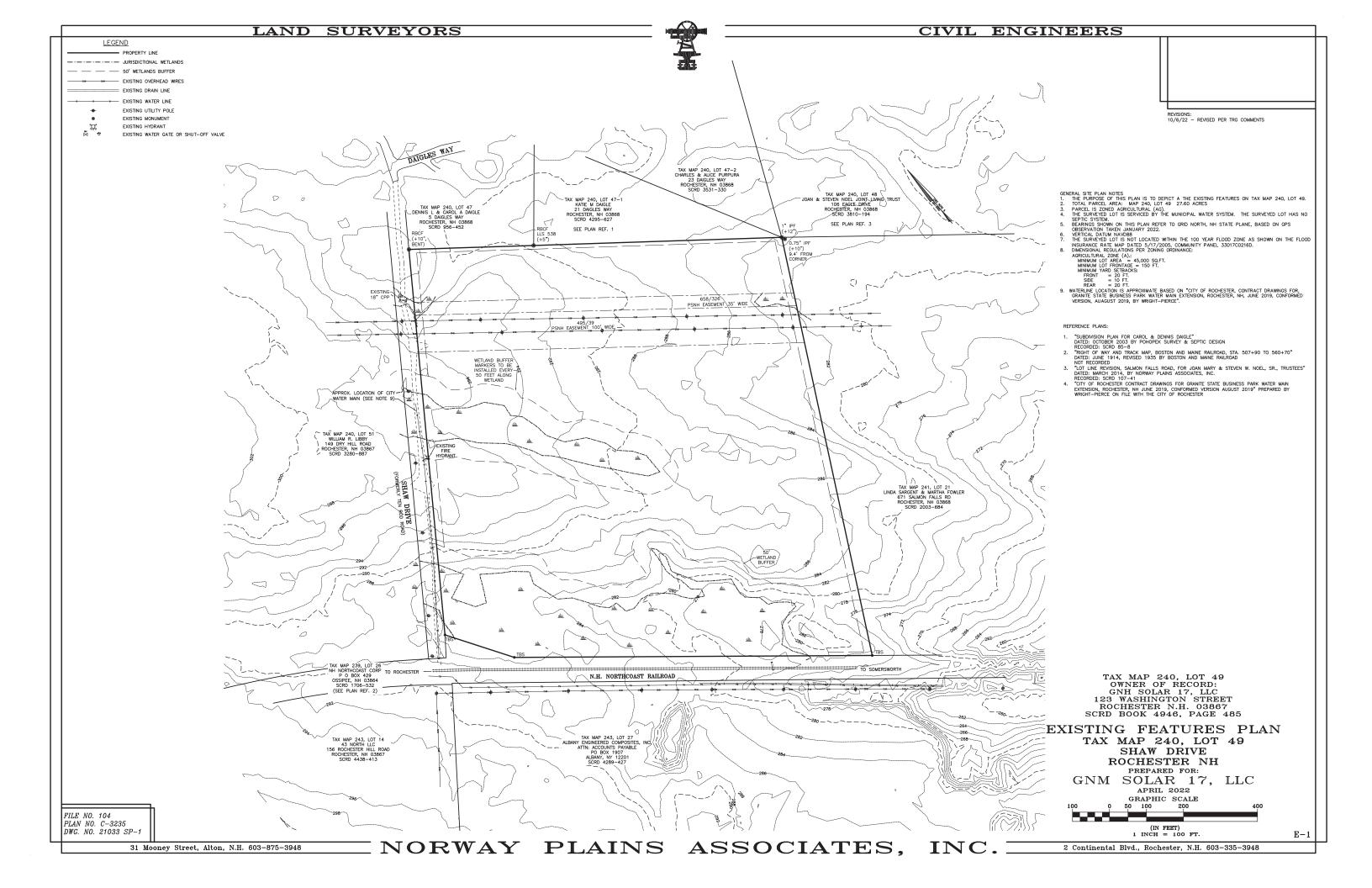
FINAL APPROVAL BY ROCHESTER PLANNING BOARD

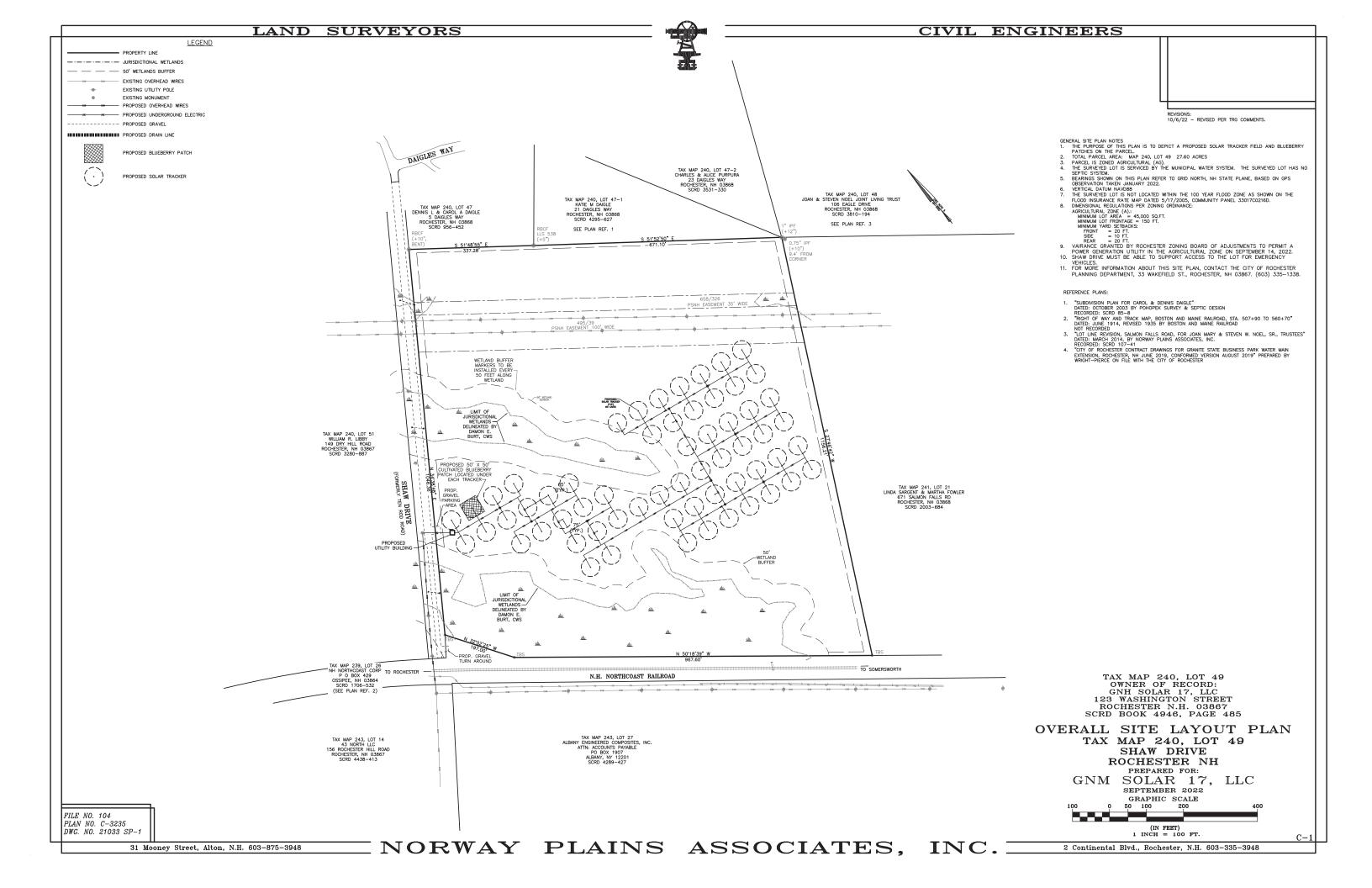
CERTIFIED BY: ___

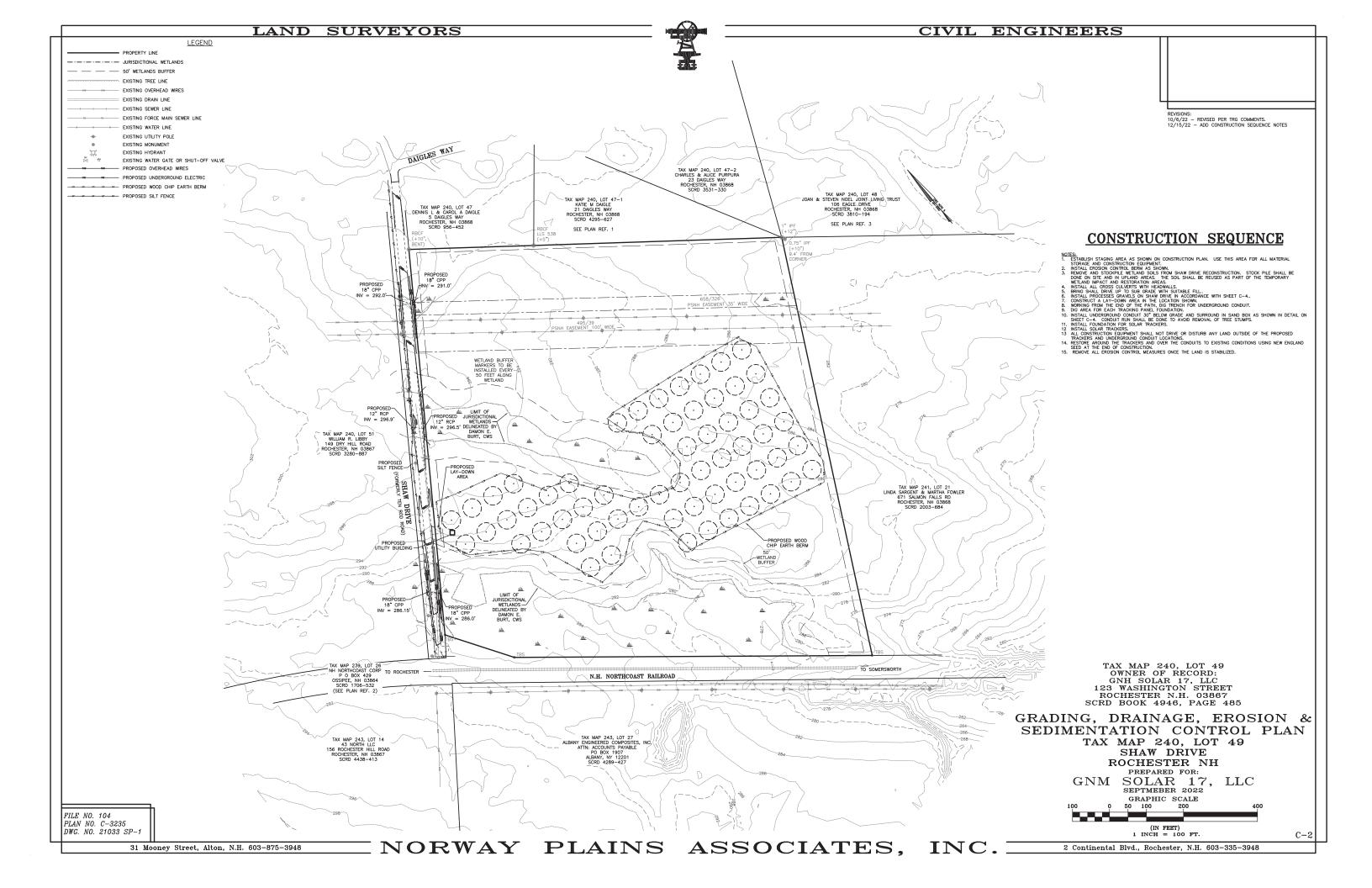
SHEET INDEX

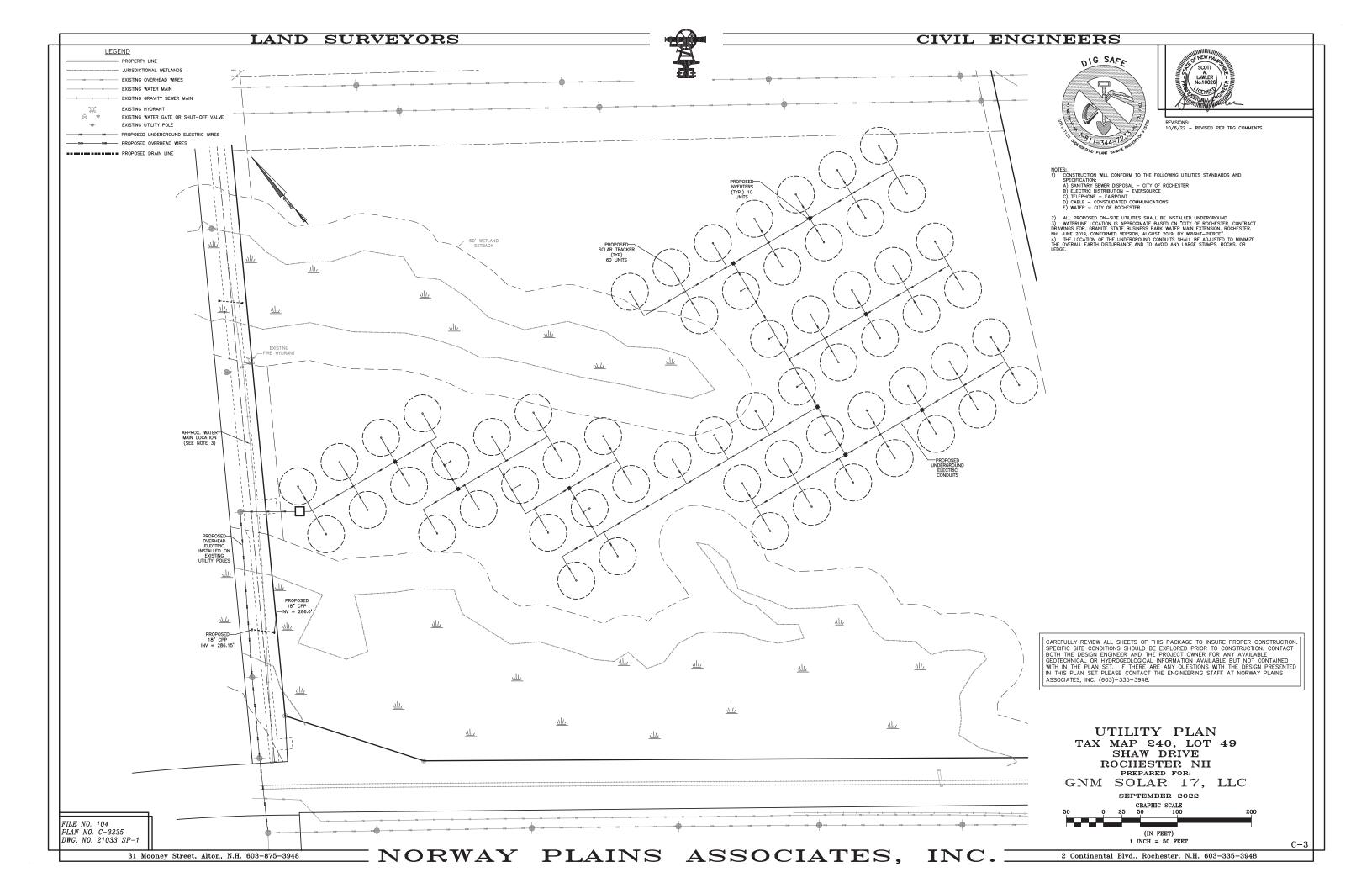
COVER EXISTING FEATURES SHEET E-1 SHEET C-1 1" = 100' 1" = 100' OVERALL SITE PLAN SHEET C-2 GRADING, DRAINAGE EROSION AND SEDIMENTATION 1" = 100' CONTROL PLAN SHEET C-3 1" = 50' UTILITY PLAN SHEET C-4 SHEET C-5 SHEET C-6 SHAW DRIVE IMPROVEMENT PLAN AND PROFILE AS SHOWN CONSTRUCTION DETAILS AS SHOWN CONTROL DETAILS AS SHOWN CONTROL DETAILS SHEET C-7 PERMANENT EROSION AND SEDIMENTATION AS SHOWN CONTROL DETAILS

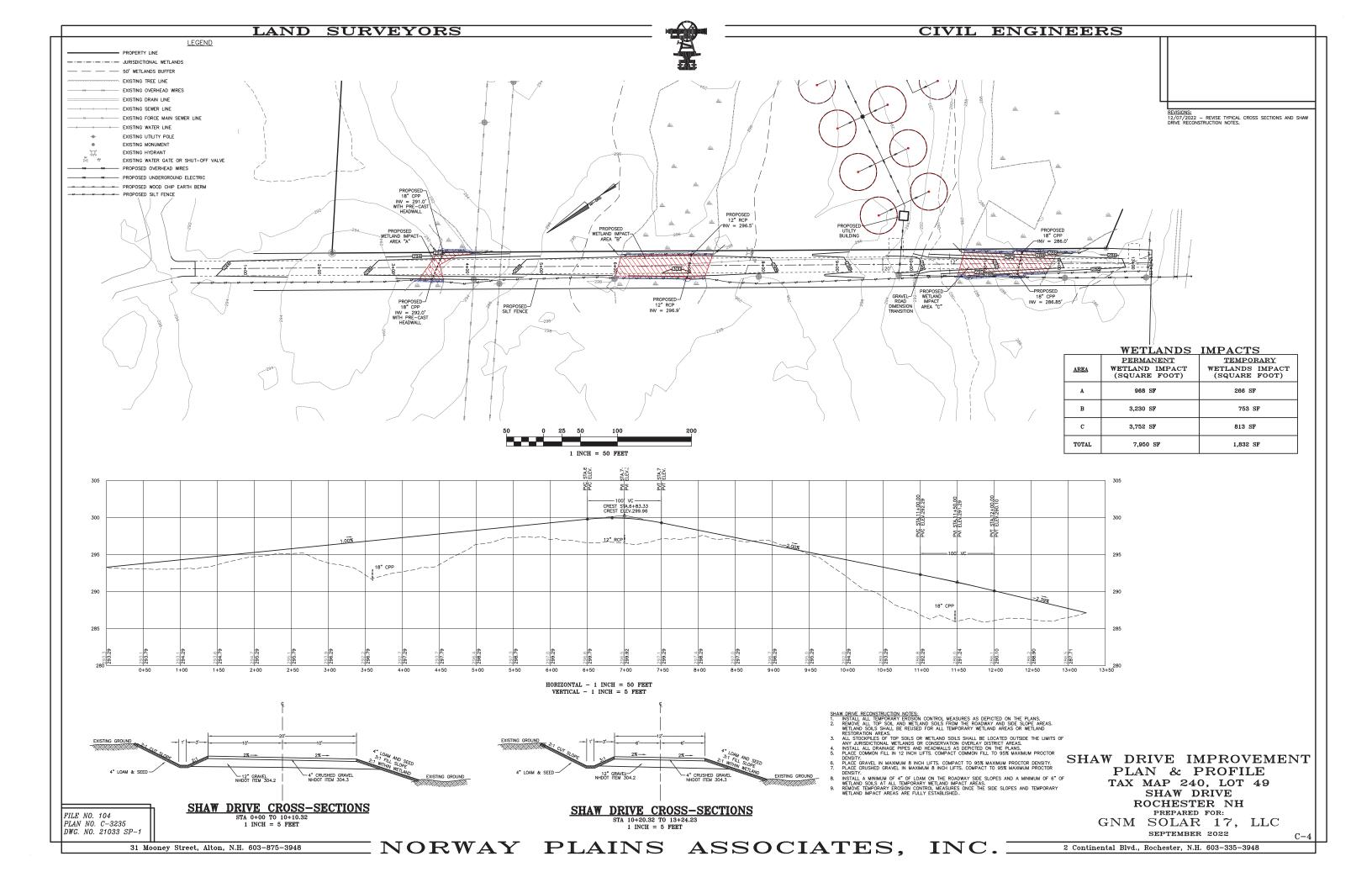
FILE NO. 104 PLAN NO. C-3235 DWG. NO. 21033 SP-1









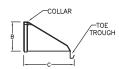


LAND SURVEYORS



DIMENSIONS (INCHES)					
PIPE DIAMETERS	A	В	С	D	
10" / 12"	42	14.5	33	6	
15"	41	19	34	6	
18"	49	22	43	6	
24"	59.5	28	48	6	
30"	88	36	63.5	6	
36"	88	43	66.5	6	

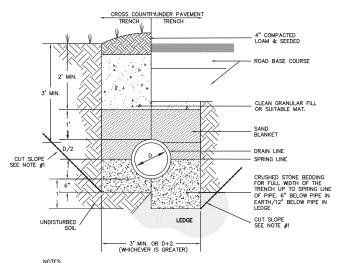
TOP VIEW





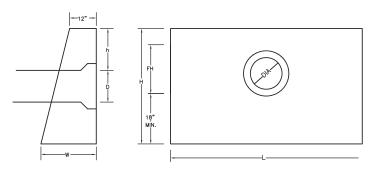
SIDE VIEW FRONT VIEW FLAIRED END SECTION DETAIL

NOT TO SCALE



NOTES: 1. PIPES MAY BE INSTALLED BY EXCAVATING AN OPEN TRENCH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A DEPEN MAY BE INSTALLED BY LONG TO A TRENCH BOX. 2. PIPE MATERIALS WILL BE SPECIFIED IN THE ESSION FOR THE PER MATERIALS WILL BE SPECIFIED IN THE TESTING THE PIPE. 3. NAID BLANKET MAY BE GWITTED FOR REMPORCED CONCRETE PIPE.

DRAINAGE PIPE TRENCH INSTALLATION DETAIL



DIA.	HEADWALL LENGHT	HEADWALL HIGHT	FILL HIGHT	PIPE COVER	HEADWALL BTM HEIGHT
D	L	н	FH	h	w
12"	4'3"	3'9"	1'1"	1'3"	2'
15"	6'	4'3"	1'7"	1'6"	2'1"
18"	7'	4'6"	1'10"	1'6"	2*2**
24"	9'	5'	2'4"	1'6"	2'3"
30"	11'	5'6"	2'10"	1'6"	2'5"
36"	13'	6'	3'4"	1'6"	2*6"
42"	15'9"	6'9"	4'1"	1'9"	2'9"
48"	17'9"	7'3"	4'7"	1'9"	2'10"

PRE-CAST HEADWALL

FILE NO. 104 PLAN NO. C-3235 DWG. NO. 21033 SP-1

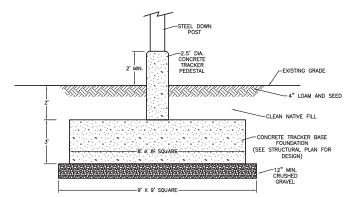
31 Mooney Street, Alton, N.H. 603-875-3948

4"ø CONDUIT-

UTILITY CONDUIT CONSTRUCTION CROSS-SECTION

NOTES:
I. INSTALL EROSION CONTROL BERM AS SHOWN ON SHEET C-2. THE TRENCH PATH SHALL BE PLACED TO AVOID ANY STUMPS, LEDGE OR LARGE ROCKS.
2. DIG TRENCH FOR UNDERGROUND CONDUIT.
3. INSTALL UNDERGROUND CONDUIT 30" BELOW GRADE AND SURROUND IN SAND BOX.
4. RESTORE TO EXISTING CONDUIT 30" BELOW GRADE AND SURROUND IN SAND BOX.
5. RESTORE TO EXISTING CONDUIT 30" BELOW GRADE AND SEED WITH NEW ENGLAND SEED MIX.

SAND BOX AROUND CONDUIT-



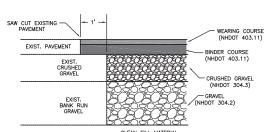
STANDARD SOLAR TRACKER INSTALLATION DETAIL

NOT TO SCALE

NOTES: INOT TO BOARD

1. CONCRETE TRACKER BASE OR PEDESTAL DESIGN BY OTHERS. REFER TO STRUCTURAL DESIGN.

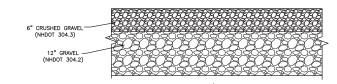
2. TRACKERS PLACED IN UPLAND AREAS SHALL HAVE A MINIMUM OF 4" OF LOAM AND SEEDED WITH GRASS SEED MIXTURE, WITH MULCH.



TYPICAL PAVEMENT SAWCUT DETAIL

NOT TO SCALE

- 1. SAWCUT THROUGH DEPTH OF PAVEMENT AT LEAST 1 FT. FROM EDGE OR GREATER IF REQUIRED.
 2. INSTALL AND COMPACT CRUSHED GRAVEL TO GRADE.
 3. PLACE BINDER COURSE.
 4. GRIND OR SAWCUT EXISTING PAVEMENT 1 FT. WIDE TO A DEPTH NECESSARY TO PROPERLY MATCH NEW WEARING COURSE PAVEMENT.
 5. TACK COAT ALL EXISTING PAVEMENT SURFACES WITH EMULSIFIED ASPHALT (MS-1) PRIOR TO PLACING NEW PAVEMENT.



GRAVEL PARKING & TURN AROND CROSS-SECTIONS

NOT TO SCALE

PAVEMENT NOTES:

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

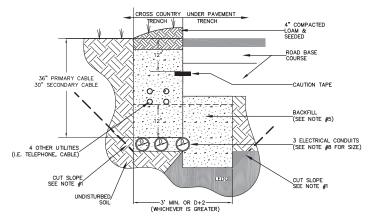
2. PLACE GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.

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

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.





ELECTRICAL & UNDERGROUND UTILITY TRENCH INSTALLATION DETAIL

NOT TO SCALE

GENERAL UTILITY NOTES

- 1.) CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888 344-7233) 72 HOURS PRIOR TO THE START OF
- ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THEIR LOCATIONS AND ELEVATIONS.

- LOCATIONS AND ELEVATIONS.

 3. THESE PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON THE DATE OF THE SURVEY. THE ABSENCE OF SUBSURFACE STRUCTURES, UTILITIES, ETC. FROM THIS PLAN, BUT IN EXISTENCE IS NOT INTENDED OR IMPLIED.

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

 5.) PROPOSED UTILITIES TO CONNECT TO THE SITE SHALL BE OVERHEAD, WHILE ALL OTHER UTILITIES ARE TO BE UNDERGROUND. COORDINATE LOCATION OF UNDERGROUND UTILITIES AND TRANSFORMER PADS WITH EVERSOURCE AND OTHER PERTINENT UTILITY COMPANIES.

CONSTRUCTION DETAILS TAX MAP 240, LOT 49 SHAW DRIVE ROCHESTER NH PREPARED FOR: GNM SOLAR 17, LLC SEPTEMBER 2022

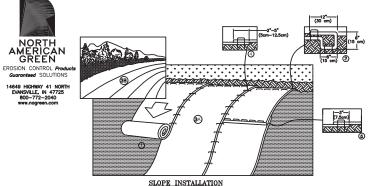
LAND SURVEYORS



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 HYPROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED
WITH IN THE PLAN SET. IF THERE ARE ANY QUESTIONS WITH THE DESIGN PRESENTED N THIS PLAN SET PLEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS





- MAINTENANCE REQUIREMENTS:

 ALL BEAMET AND MATS SHALL BE INSPECTED WEEKLY DURING THE CONSTRUCTION PERIOD, AND AFTER ANY RAINFALL EVENT
 SCREENING 1/2 INCH IN A 24-HOUR PERIOD.

 ANY FAILURE SHALL BE REPARED MAINDATELY. IF WSHOUT OF THE SLOPE, DISPLACEMENT OF THE MAT, OR DAMAGE TO THE MAT
 OCCURS, THE AFTECTED SLOPE SHALL BE REPARED AND RESEDED, AND THE AFTECTED AREA OF MAT SHALL BE RE—INSTALLED.
 CONSTRUCTION SPECIFICATIONS.

- DEPENDING ON RECP'S TYPE.

 C. CONSCUTIVE RECP'S SPUICED 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 PROPERTY SECURE THE RECP'S.
- NECESSARY 10 PROPERLY SECURE, I'ME RECUTS.

 PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE COMPLETE CONTACT OF THE PROTECTION MATTING WITH THE SOIL.

 RADE AND SHAPE AREA IF INSTALLATION.

 REMOVE ALL ROCKS, CLODS, TIRASH, VEGETATIVE OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED BLANKETS WILL HAVE

 PREPARE SEEDED BY LOSSENING. 2-3 INCHES OF TOPSOIL. ABOVE FINAL GRADE.

 INCORPORATE AMENDMENTS, SUCH AS LIME AND FERTILIZER, INTO SOIL ACCORDING TO SOIL TEST AND THE SEEDING PLAN.

 CTUALS.
- 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 DURNION INSTALLATION MUST BE RESEEDED.

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

TEMPORARY EROSION CONTROL BLANKET DETAIL

NOT TO SCALE

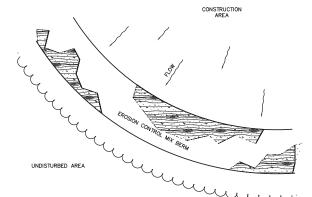
TEMPORARY VEGETATION SEEDING RECOMMENDATIONS

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 15 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 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:					

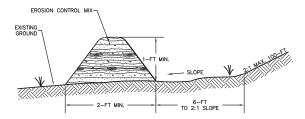
NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLE

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

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



EROSION CONTROL MIX BERM CROSS-SECTION



EROSION CONTROL MIX BERM CROSS-SECTION

MAINTENANCE REQUIREMENTS:
1. EROSION CONTROL MIX BERMS SHOULD BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST

- ENCISION CONTROL MAY BERNS SHOULD BE INSPECTED IMMEDIATELY AFTER EACH MAINFALL AND AT LEAST ERGOSION CONTROL MAY BERNS SHOULD BE REPAIRED IMMEDIATELY IF THERE ARE ANY SIGNS OF ERGOSION OR SEDIMENTATION BELOW THEM.
 IF THERE ARE SIGNS OF BREACHING OF THE BARRIER, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM. THE ERGOSION CONTROL MAY BERNS SHOULD BE REPLACED WITH OTHER MEASURES TO INTERCEPT AND TRAP SEDIMENT (SUCH AS A DIVERSION BERM DIRECTING RUNOFF TO A SEDIMENT TRAP OR
- BASIN).

 SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT.

 SEDIMENT DEPOSITS MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE THIRD (1/3) OF THE HEIGHT OF THE BARRIER.
- HEIGHT IOT HE BARGIER.

 6. EROSION CONTROL MIX BERMS SHOULD BE RESHAPED OR REAPPLIED AS NEEDED.

 7. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHOULD BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SECRED.

CONSTRUCTION SPECIFICATIONS: 1. EROSION CONTROL MIX CAN BE MANUFACTURED ON OR OFF OF THE PROJECT SITE. 2. EROSION CONTROL MIX MUST CONSIST PRIMABILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR ACCEPTABLE MANUFACTURED PRODUCTS.

- MANUFACTURED PRODUCTS

 3. WOOD AND BARK CHIEF, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.
- 4. COMPOSITION OF THE EROSION CONTROL MIX SHOULD BE AS FOLLOWS.

 A. EROSION CONTROL MIX SHALL BE A WELL GRADED MIXTURE OF PARTICLE SIZES FREE OF REFUSE, PHYSICAL CONTAMINANTS, MATERIAL TOXIC TO PLANT GROWTH AND MAY NOT CONTAIN ROCKS LESS THAN 4—INCHES IN DIAMETER;
 - B. ORGANIC MATTER = 25-65% DRY WEIGHT BASIS
 - C. PARTICLES PASSING BY WEIGHT:

SCREEN: PASSING BY WEIGHT: 3-INCH 100%

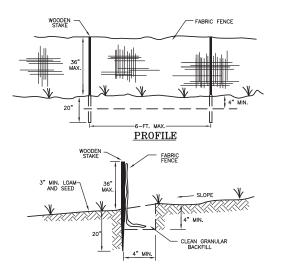
- E. THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
- F. THE MIX SHOULD CONTAIN NO SILTS, CLAYS OR FINE SANDS.
- G. SOLUBLE SALTS CONTENT < 4.0 mmhos/cm
- H. pH OF THE MIX SHOULD BE BETWEEN 5.0 AND 8.0
- 5. THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.

 6. IT MAY BE NECESSARY TO CUIT TALL GRASSES AND WOOD'Y VEGETATION TO AVOID CREATING VOIDS AND BRIDGES IN THE BARRIER THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS.

 7. THE BARRIER WUST BE A MINIMUM OF 12-INCHES TALL AS MEASURED ON THE UPHILL SIDE OF THE
- 8. THE BARRIER MUST BE A MINIMUM OF 2-FT WIDE.

EROSION CONTROL MIX BERM DETAIL

NOT TO SCALE



CROSS-SECTION

<u>MAINTENANCE REQUIREMENTS:</u> 1. FENCES SHALL BE INSPECTED AND MAINTAINED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY

- 1. FENCES SHALL BE INSPECTED AND MAINTAINED IMMEDIATELY AFTER EACH FAMILY ALL AND AT LEAST DATE.

 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

 3. SLIT FENCES SHALL BE REPAIRED IMMEDIATELY IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW
 THEM. IF THERE ARE SIGNS OF UNDERCUTING AT THE CENTER OR THE EDGS OF THE BARRIER, OR IMPOUNDING
 OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHALL BE REPLACED WITH A TEMPORARY
 CHECK DAIL.

- THEM. IF THERE ARE SIGNS OF UNIVERSE BEHIND THEM, SEDIMENT BARRIERS SHALL BE REPLACED THEM OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHALL BE REPLACED FROM THE SHALL THE SHALL SHALL BE SHALL THE SHALL SHALL BE SHALL SHALL BE SHALL SHALL BE REPLACED PROMPLY. BY SEDIMENT DEPOSITS REMAINING IN PLAST THE SHALL SHALL BE REPLACED PROMPLY. DIFFERS TO CONFORM TO THE EXISTING FARM PROPERTY OF THE SHALL SHALL BE REPLACED SHALL BE DIFFERSED TO CONFORM TO THE EXISTING FARM PROPERTY INSTALLED BARRIERS, EXTEND BARRIERS UPHILL OR CONSIDER REPLACING THEM WITH OTHER DIFFERSED SHALL BE SHALL BE REPLACING THEM WITH OTHER DIFFERSIVES SHALL BE SHALL

- IHEM.

 THE MAXIMUM CONTRIBUTING DRAINAGE AREA ABOVE THE FENCE SHALL BE LESS THAN 1 ACRE PER 100 LINEAR FEET OF FENCE;
- 2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA ABOVE THE FENCE SHALL BE LESS THAN 1 ACRE PER 100 LINEAR FEET OF FENCE;

 3. THE MAXIMUM SLOPE ABOVE THE FENCE SHALL BE 2015 FEET OF FENCE;

 4. THE MAXIMUM SLOPE ABOVE THE FENCE SHALL BE 2215 OF THE LAND AS CLOSELY AS POSSIBLE, AND METALED TO THE FENCE SHALL BE 2215 OF THE LAND AS CLOSELY AS POSSIBLE, AND METALED TO THE CONTRIBUTION OF THE LAND AS CLOSELY AS POSSIBLE, AND METALED TO THE CONTRIBUTION OF THE LAND AS CLOSELY AS POSSIBLE, AND METALED TO THE CONTRIBUTION OF THE PRESENCE OF THE PRESENC

- SHALL BELGETINED OF LITTE MONUTANT CONTROLLED STAND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF CHPOCHOUS USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 DEGREES FAHRENHEIT OF 10 120 DEGREES FAHRENHEIT FAHRENHEIT OF 10 120 DEGREES FAHRENHE

SILTATION CONTROL FENCE DETAIL

NOT TO SCALE

TEMPORARY VEGETATION:

SPECIFICATIONS:
STE PERPARATION:
1. INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.
2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEDIMON, MULCH ANCHORING.
3. RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.
4. OR SIGNEYS 4:1 OR STEPER. THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES OF THE SIGNEY OF

- PERPENDICULAR O THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

 SECREPT PERPENBATION:

 STONES AND TRASH SHALL BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.

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

 NOTICES BEFORE APPLYING FERTILIZER, LIME AND SEED.

 IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE GROWING
- SEASON.
 APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, 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 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 (SURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LIFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10X WHEN HYDROSEEDING.

2. TEMPORARY SEED SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15.

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

4. VEGETARED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WHITER PROTECTION.

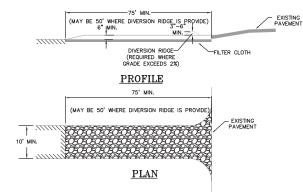
MAINTENANCE REQUIREMENTS:

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 PRIOR TO SEPTEMBER 15, TO ASCERTAIN WHETHER ADDITIONAL SEEDING IS REQUIRED TO PROVIDE STABILIZATION OVER THE WINTER

- PERIOD.

 BASED ON INSPECTION, AREAS SHALL BE RESEEDED TO ACHIEVE 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 IMPLEMENTED.

 IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AREAS SHALL BE RESEEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE ROSION PROTECTION DURING THE PERIOD OF VEGETATION 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 SHALL, SWEED THE PAYEMENT AT EXITS WHENEVER SOIL MATERIALS ARE TRACKED THE CONTROL OF SHALL, SWEED THE PAYEMENT AT EXITS WHENEVER SOIL MATERIALS ARE TRACKED THE CONTROL OF SHALL SHAPE SHAPE

- CONSTRUCTION. SPECIFICATIONS:

 1. THE MINIMUM STONE LESD SHALL BE 3-INCH CRUSHED STONE.

 2. THE MINIMUM STONE LESD 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.

 3. THE PAG SHALL BE THE FULL WIDTH OF CONSTRUCTION ACCESS ROAD OR 10 FEET, WHICHEVER IS

- GREATER STATE OF THE PARTY OF THE EXISTING ROADWAY.

 THE PAD SHALL BLOPE AWAY FROM THE EXISTING ROADWAY.

 THE PAD SHALL BE AT LEAST 6 INCHES THICK.

 THE GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE
 BELOW THE PAD.

 THE PAD SHALL BE MAINTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN

 THE STONE SUCH THAT MUD AND SOIL PARTICLES ARE TRACKED OFF-SITE.

 MATURAL DRAINAGE THAT GROSSES 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 240, LOT 49 SHAW DRIVE ROCHESTER NH PREPARED FOR: GNM SOLAR 17, LLC

SEPTEMBER 2022

FILE NO. 104 PLAN NO. C-3235 DWG. NO. 21033 SP-1

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

ENEWH

DUST CONTROL PRACTICES:

- APPLY DUST CONTROL MEASURES AS NECESSARY TO MAINTAIN CONTROL OF DUST ON SITE.
 WATER APPLICATION:
 A) MOISTEN EXPOSED SOIL SURFACES PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST
- AVOID EXCESSIVE APPLICATION OF WATER THAT WOULD RESULT IN MOBILIZING SEDIMENT AND SUBSEQUENT DEPOSITION IN NATURAL WATERBODIES.
- DEPOSITION IN NATURAL WATERSOURS.
 SIONE APPLICATION:
 A) COVER SURFACE WITH CRUSHED OR COARSE GRAVEL.
 B) IN AREAS NEAR WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED AGGREGATE.
 BEFER TO "NEW HAMPSHIRE STORWAYTER MANAGEMENT MANUAL, VOLUME 3 CONSTRUCTION PHASE EROSION
 AND SEDIMENT CONTROLS, DECEMBER 2008" 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 STOCKPIES FROM STORMWATER RUN—ON USING TEMPORARY PERIMETER MEASURES SUCH AS DIVERSIONS, BERMS, SANDBAGS OR OTHER APPROVED PRACTICES, SANDBAGS OR OTHER APPROVED PRACTICES, STOCKPIES SHALL BE SURROUNDED BY SEGIMENT BARRIES AS DESCRIBED ON THE PLANS AND IN NHSMM VOL. 3. TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILE. IMPLEMENT WIND ERGOION CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED MATERIAL.

 PLACE BAGGED MATERIALS ON PALLETS OR UNDERCOVER.

- PROTECTION OF INACTIVE STOCKPILES:

 6. INACTIVE SOIL STOCKPILES SHALL:

 6. INACTIVE SOIL STOCKPILES OF STOCKPILES OF STOCKPILES OF STABILIZATION PRACTICE) AND TEMPORARY PERMETER SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES.

 7. INACTIVE STOCKPILES OF CONCRETE RUBBLE, ASPHALT CONCRETE RUBBLE, AGROCATE MATERIALS, AND SIMILAR MATERIALS SHALL BE PROTECTED WITH TEMPORARY SEDIMENT PERMETER BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES. IF THE MATERIALS ARE A SOURCE OF DUST, THEY SHALL ALSO BE COVERED.

- 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. PERIMETER BARRIERS SHALL BE MAINTAINED 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 INSPECTED AT THE END OF EACH WORKING DAY.

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

PERMANENT VEGETATION SEEDING RECOMMENDATIONS

USE	MIXTURE	SPECIES	LBS./ACRE	LBS./ 1,000-SF
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	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 LOWING WATER	A	TALL FESCUE CREEPING RED FESCUE REDTOP TOTAL	20 20 2 42	0.45 0.45 0.05 0.95
IGHTLY USED PARKING LOTS, DDD AREAS, INUSED LANDS, AND LOW NTENSITY RECREATION	A	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

FILE NO. 104 PLAN NO. C-3235

DWG. NO. 21033 SP-

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)

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

PERMANENT VEGETATION:

- SITE PREPARATION:

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

 2. GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.

 3. RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.

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

 A SITE IS DEEMED SITE WILL NOT EXPE

- SEEDBED_PREPARATION:

 1. WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4
 INCHES MITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL
 HARROWING OPERATION SHALL BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A
 REASONABLY UNIFFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY AND SLIT SOILS SHALL
 BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
 2. REMOVE FROM THE SUFFACE ALL STONES ZINCHES OR LARGER IN ANY DIMENSION. REMOVE
 ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, CONCRETE CLODS, LUMPS, TRASH
 OR OTHER UNSUITABLE MATERIAL.
 3. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED; THE
 AREA MUST BE TILLED AND FIRMED AS BOWNSTRUCTION OPERATIONS, LOOSEN SOIL TO A
 DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.
 5. IF APPLICABLE, FERTILIZER AND ORGANIC SOIL AMENDMENTS SHALL BE APPLIED DURING THE
 GROWING SEASON.

- IF APPLICABLE, FERTILIZER AND ORGANIC SUIL AMENUMENTS STRALL DE AFFILIA DESIRED ACROMING SEASON.
 APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS. FERTILIZER SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PHOSPHATE AND SLOW RELEASE.
 NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE. IF SOIL TESTING IS NOT FEASIBLE. ON SMALL OR VARIABLE SITES, 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 OXIDE

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

- SEEDING.

 1. INCQULATE ALL LEGUME SEED WITH THE CORRECT TYPE OF INOCULANT.

 2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDROSECEDER (SLURRY INCUDING SEED AND FERTILETY). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSECIDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE.

 3. WHERE FEASIBLE EXCEPT WHERE EITHER CULTIPACKER TYPE SEEDER OR HYDROSECEDIS USED, THE SEEDBED SHALL BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR
- WHERE FÉASIBLE EXCEPT WHERE EITHER CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDER OR HERE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER, OR LIGHT DRAG. SPRING SEEDING USUALLY GIVES THE BEST RESULTS FOR ALL SEED MIXES OR WITH LEGUMES. PERMANENT SEEDING SHALL BE COMPLETED 45 DAYS PRIOR TO FIRST KILLING FROST. WHEN CROWN YETCH IS SEEDED IN LATE SUMMER AT LEAST 35% OF THE SEED SHALL BE HARD SEED (UNSCARIFIED). IF SEEDING CANNOT BE DONE WITHIN THE SPECIFIED SEEDING DATES, MULCH ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE NHSSM, VOL 3. AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD. AREAS SEEDED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW MULCH, ACCORDING TO THE "TEMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN THE INSSM, VOL 3. VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO COTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

- HYDROSEEDING.

 1. WHEN HYDROSEEDING (HYDRAULIC APPLICATION), PREPARE THE SEEDBED AS SPECIFIED ABOVE OR BY HAND RAKING TO LOOSEN AND SMOOTH THE SOIL AND REMOVE SURFACE STONES LARGER THAN 2 INCHES IN DIAMETER.

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

 3. LIME AND FERTILIZER MAY BE APPLIED SINULTANEOUSLY WITH THE SEED. THE USE OF FIBER MULCH ON CRITICAL AREAS IS NOT RECOMMENDED (UNLESS IT IS USED TO HOLD STRAW OR HAY). BETTER PROTECTION IS CANNED BY USING STRAW MULCH AND HOLDING IT WITH ADMESVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH.

 4. SEEDING RAITES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

- MAINTENANCE 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 SITE.

 2. SEEDED AREAS SHALL BE MOWED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION. MOWING HEIGHT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER.

 3. BASED ON INSPECTION, AREAS SHALL BE RESEEDED TO ACHIEVE FULL STABILIZATION OF EXPOSED SOILS.
- EXPOSED SOILS.
 AT A MINIMUM 85% OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION.
 IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, 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.

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 CONDITIONS OF A 10-YEAR STORM EVENT, SUCH AS BUT NOT LIMITED TO:
 A)N AREA THAT WILL NOT BE PAVED:

 (a) A MINIMUM OF 85% VEGETATIVE COVER HAS BEEN ESTABLISHED OF A MINIMUM OF 85% VEGETATIVE COVER PROBLEM WATERIAL SLICH AS STONE OR A
- o) A MINIMUM OF 85% VEGETATIVE COVER HAS BEEN ESTABLISHED;
) A MINIMUM OF 3-INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR A
 CERTIFIED COMPOST BLANKET HAS BEEN INSTALLED, OR;
 o) EROSION CONTROL BLANKET HAVE BEEN INSTALLED.

 BIM AREAS TO BE PAVED:
 o) BASE COURSE GRAVELS HAVE BEEN INSTALLED.

- O) BASE COURSE CRAVELS HAVE BEEN INSTALLED.

 IEMPORATY SIBILIZATION.

 ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE TEMPORATILY STABILIZED AS SOON AS PRACTICABLE BUT IN LATER THAN 45 DAYS FROM THE TIME OF INITIAL DISTURBANCE, UNLESS A SHORTER TIME IS SPECIFIED BY LOCAL AUTHORITIES, THE CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT OR AN INDEPENDENT, MONITOR.

- CONSTRUCTION SMULENCE APPROVED AS PART OF THE ISSUED PERMIT OR AN 2 DEBINABITY STABILIZED AS 3 DAYS FOLLOWING FINAL GRADING. ALL AREAS OF EXPOSED OR DISTURBENCE:

 1. MAXIMUM AREA OF DISTURBENCE:

 1. MEAN OF EXPOSED AREA 3 DESTURBED (NOT STABILIZED) AT ANY TIME.

 1. MAXIMUM AREA OF DISTURBENCE:

 1. MEAN OF OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED.

 2. DECLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESENVE NATURAL VEGETATION.

 3. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED GRADING AND DEAL AND CONSTRUCTION MANIFORMED IN ACCORDANCE WITH THE APPROVED EXAMINE CONSTRUCTION MANIFORMED IN ACCORDANCE WITH THE APPROVED EXAMINE CONSTRUCTION PARENT MANIFOLD AND PARENT OF VEGETATION SHALL BE 2 STOCKPILED IN THE AMOUNT INCECESSARY TO COMPLETE FINISHED GRADING AND BE PROTECTED IN THE AMOUNT INCECESSARY TO COMPLETE FINISHED GRADING AND BE PROTECTED IN THE AMOUNT INCECESSARY TO COMPLETE FINISHED GRADING AND BE PROTECTED IN THE AMOUNT INCECESSARY TO COMPLETE FINISHED GRADING AND BE PROTECTED.

- TOPSUL REQUIRED.

 IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GROUNDS.

 FROM EROSION.

 STOCKPILES, BORROW AREAS AND SPOILS SHALL BE STABILIZED AS DESCRIBED

- IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GRADING AND BE PROTECTED FROM EROSOSOPROW AREAS AND SPOILS STABLIBET AND SPOILS STABLIBET AND SPOILS STABLIBED LINDER "SOIL STOCKPILE PRACTICES".

 UNDER "SOIL STOCKPILE PRACTICES".

 UNDER "SOIL STOCKPILE PRACTICES".

 10. SLOPES SHALL NOT BE CREATED SOI. CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTIES WITHOUT ADEQUATE PROTECTION AGAINST SEDIMENTATION, EROSION, SUPPAGE, SETTILEMENT, SUSSIDENCE OR OTHER RELIATED DAMAGE.

 11. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TIRES, VECETATION, ROOTS AND/OR OTHER OBJECTIONABLE MATERIALS.

 2. AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3—INCHES PRIOR TO PROPERLY OF THE CONTRACTOR OF THE PROPERLY OF THE PROPERLY OF THE CONTRACTOR OF THE PROPERLY OF THE PROP

- 20. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE EVALUATED BY A PROFESSIONAL ENGINEER (PREFERBALLY THE DESIGN ENGINEER) TO DETERMINE IF THE PROPOSED DESIGN SHALL BE REVISED TO PROPERLY MANAGE THE CONDITION. 21. STABILIZE ALL GRADED AREAS (AS ABOVE) WITH VEGETATION, GREVALED STONE, COMPOST BLANKET, OR OTHER GROUND COVER AS SOON AS GRADING IS COMPLETE OR IF WORK IS INTERPUTED FOR 21. WORKING DAYS OR MORE. USE MULCH OR OTHER APPROVED METHODS TO STABILIZE AREAS TEMPORARILY WHERE FINAL GRADING MUST BE DELAYED.

 22. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.

 23. 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" (HHSMM, VOL. 3)

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. NOTES APPLY TO THE OVERALL CONSTRUCTION AND SHALL BE ADHERED TO.

 INSTALL ALL TEMPORARY SEDIMENT CONTROL BARRIERS (I.E. SILT FENCE, EROSION CONTROL MIX BERM, STONE CHECK DAMS, ETC.) AROUND THE OUTER PERMIETER OF THE CONSTRUCTION SITE AS DEPICTED ON SHEET C.2.2 PRIOR TO EARTH MOWING OPERATIONS.

 INSTALL ORANGE SNOW FROCE AROUND THE PERMIETER OF THE INFLICTION ORASINS AND THE PRICE ENGAMN IN PLACE UNTIL INSTALL ORANGE SNOW FROCE AROUND THE PERMIETER OF THE NICE INSTALL ORANGE SNOW FROCE AROUND THE PERMIETER AND OTHER ORGANIC WASTE SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH STATE AND LOCAL REQUIATIONS.

 INSTALL A TEMPORARY CONSTRUCTION EXIT AT THE LOCATION OF THE PROPOSED SHAWD DRIVE IMPROVEMENTS. MAINTAIN AS DIRECTED BY THE TEMPORARY CONSTRUCTION EXIT OF THAT IS THE STALL TO BE REUSED ON SITE THAT IS AND A CORDANGE WITH THE "SOIL STOCKPILES PRACTICES."

- PRACTICES".
 PERFORM THE NECESSARY CUTS AND FILLS TO SUBGRADE IN PARKING AND
- TURN AROUND AREAS.

 A) INSTALL REQUIRED FILLS IN MAXIMUM 8-INCH LIFTS AND COMPACT EACH LIFT TO 95% MAXIMUM PROCTOR DENSITY.

 B. AS SUBGRADE IS ACHIEVED INSTALL REMAINING SEDIMENT CONTROL BARRIERS. WITHIN THE SITE (I.E. ADDITIONAL SILT FENCE AND SEDIMENT
- BARRIERS WITHIN THE SITE (I.E. ADDITIONAL SILT FENCE AND SEDIMENT CONTROLS, ETC.)

 INSTALL ALL UTILITIES AND BRAINAGE COMPONENTS (I.E. PIPE CULVERTS, AND UNDERFOROUND UTILITES) PER THE CORRESPONDING DETAILS AND AS SHOWN ON SHEET C.—2. AND C.—3. AS EACH STRUCTURE IS COMPLETED INSTALL THE CORRESPONDING SEDIMENT CONTROL MEASURE.

 ALL CUT AND ELSOPES AND LAWN AREAS NOT TO BE PAVED OR GRAVELED SHALL SLOPES AND LAWN AREAS NOT TO BE PAVED OR GRAVELED SHALL BLORDED AND SEEDED FOR PERMANENT VECETATION AND STABILIZATION AS DESCRIBED UNDER THE "PERMANENT VECETATION AND STABILIZATION AS DESCRIBED UNDER THE "PERMANENT VECETATION PRACTICES" WITHIN 3 DAYS OF ACHIEVING FINAL GRADE (SECTION PROCESSED STATE OF THE ADDITION OF THE STATE OF
- 12. THE PARKING AREAS SHALL BE STABILIZED (CONSTRUCTED TO GRAVEL BASE COURSE) WITHIN 3 DAYS OF ACHIEVING FINISHED SUBGRADE
- 12. THE PARKING AREAS SHALL BE STABILIZED (CONSTRUCTED TO GRAVEL BASE COURSE) WITHIN 3 DAYS OF ACIDIEVING FINISHED SUBGRADE

 13. ILEVATIONS.

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 18. ILEVATIONS.

 19. ILEVATIONS.

- (VECETATION IS GERMINATED), THE TEMPORARY SEDIMENT CONTROL BARRIERS AND EROSION CONTROL PRACTICES SHALL BE REMOVED. DISTURBANCE CREATED DURING REMOVAL SHALL BE REPAIRED IN AN APPROPRIATE MANNER.

WINTER STABILIZATION & CONSTRUCTION PRACTICES:

MAINTENANCE REQUIREMENTS:

1. MAINTENANCE MEASURES 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 CONTINUED FUNCTION.

CONTINUED FUNCTION.

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 ASCETTAIN THE CONDITION OF THE YECETATION AND REPAIR ANY DAMAGED AREAS OR BARE SPOTS AND RESEAL OAS FEQUINED TO ACHIEVE AN ESTABLISHED VEGETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, WOOROUS GROWTH.)

- LEAST 85% OF AREA VEGETATED WITH HEALTHY, VIGOROUS GROWTH.)

 SPECIFICATIONS:
 THE FOLLOWING 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.

 AN SHALL BE, PROTICTED AGAINST EROSION BY THE METHODS DISCUSSED AN SHALL BE, PROTICTED AGAINST EROSION BY THE METHODS DISCUSSED AN SHALL BE, PROTICTED AGAINST EROSION BY THE METHOD DISCUSSED AN SHALL DE LEAST THAN OR SPRING MELT EVENT.

 1. THAN OR SPRING MELT EVENT.

 2. STABILIZATION AS FOLLOWS SHALL BE COMPLETED WITHIN A DAY OF ESTABLISATION AS FOLLOWS SHALL BE COMPLETED WITHIN DAY OF ESTABLISATION AS FOLLOWS SHALL BE COMPLETED WITHIN 15% WILL EXIST FOR MORE THAN 5 DAYS.

 A. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER IS, SHALL BE SEEDED AND COVERED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX (REFER TO NISSM, WOL. 3 FOR SPECIFICATION).

 B. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OR 63% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15 SHALL BE SEEDED AND COVERED WITH A MINIMUM OF 1 EXCHES OF EROSION CONTROL MIX, UNLESS OTHERWAYS SPECIFIED BY THE MANUFACTURER. NOTE THAT COMPOST OVERHELD SHALL NOT EXCEED 2 INCHES IN THICKNESS OF THEY MAY OVERHELD.
- OCTOBER 15.
 INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHALL NOT OCCUR OVER SNOW OF GREATER THAN I INCH IN DEPTH.

- 4. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH.

 5. ALL MULCH APPLIED DURING WINTER SHALL BE ANCHORED (I.E. BY NETTHIN, TRACKING, WOOD CELLULOSE FIBER).

 6. WITHIN 24 HOURS OF STOCKPILING SOIL MATERIALS SHALL BE MULCHED FOR OVER WINTER PRODUCTION WITH AHY OR STRAW AT TIME THE MULCHED FOR OVER WINTER PRODUCTION WITH AHY OR STRAW AT TIME THE MULCHED FOR THE MULCH SHALL BE REESTABLISHED PRIOR TO ANY RAIN OR SNOWFALL NO SOIL STOCKPILE SHALL BE PLACED (EVEN COVERED WITH MULCH) WITHIN 100-FT OF ANY WEILAND OR OTHER WATER RESOURCE AREA.

 7. FROZEM MATERIAL (I.E. FROST LAYER REMOVED DURING WINTER CONSTRUCTION) SHALL BE STOCKPILED SEPARATELY AND IN A LOCATION AWAY FROM ANY AREA NEEDING PROTECTION. FROZEM MATERIAL (I.E. FROST LAYER REMOVED DURING WINTER CONSTRUCTION TO THE STOCKPILED SEPARATELY AND IN A LOCATION AWAY FROM ANY AREA NEEDING PROTECTION. FROZEM MATERIAL (I.E. FROST LAYER MOVED SHALL STOCKPILES CAN MELT IN SPRING AND BECOME UNWORKABLE AND DIFFICULT TO TRANSPORT DUE TO HIGH SOIL MUSTURE CONTENT.

 8. INSTALLATION OF EROSION CONTROL BLANKETS SHALL BE CONSTRUCTED BY SEPTEMBER 1. ALL DITCHES AND CHANNELS SHALL BE CONSTRUCTED BY SEPTEMBER 1. ALL DITCHES AND CHANNELS SHALL BE CONSTRUCTED BY SEPTEMBER 1. ALL DITCHES AND CHANNELS SHALL BE CONSTRUCTED BY APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY APPROPRIATE FOR THE DESIGN FLOW FLOW FROM THE M
- CONTRACTOR MAY NEED TO RE-GRADE THE DITCH AS REQUIRED TO PROVIDE ADEQUATE CROSS-SECTION AFTER ALLOWING FOR PLACEMENT OF THE STONE.

 10. ALL STONE ADEQUATE CROSS-SECTION AFTER ALLOWING FOR PLACEMENT OF THE STONE.

 11. AFTER COTOBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION HAS STOPPED FOR THE WINTER SHALL BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF SAND AND GRAZEL WITH A GRADATION THAT IS LESS THAN 12% OF THE SAND PORTION, OR MATERIAL PASSING THE NUMBER 4 SIEVE, BY WEIGHT, PASSES THE NUMBER 200 SIEVE.

 12. SEDIMENT BARRIERS THAT ARE INSTALLED DURING FROZEN CONDITIONS SHALL CONSIST OF EROSION CONTROL MIX BERMS, OR CONTINUOUS CONTAINED BERMS. SIT FENCES AND HAY BALES PAHL NOT BE INSTALLED BERMS. SIT FENCES AND HAY BALES PAHL NOT BE INSTALLED BERMS. SIT FENCES AND HAY BALES PAHL NOT BE INSTALLED BERMS. SIT FENCES AND HAY BALES PAHL NOT BE INSTALLED BERMS. SIT FENCES AND HAY BALES PAHL NOT BE INSTALLED.

PERMANENT EROSION AND SEDIMENTATION CONTROL TAX MAP 240, LOT 49 SHAW DRIVE ROCHESTER NH PREPARED FOR: GNM SOLAR 17. LLC

SEPTEMBER 2022

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