

NONRESIDENTIAL SITE PLAN APPLICATION

City of Rochester, New Hampshire

Date: 4/20/2021 Is a conditional use needed? Yes: No: X Unclear:
(If so, we encourage you to submit an application as soon as possible.)

Property information

Tax map #: 208; Lot #'s): 4 & 5; Zoning district: GRD

Property address/location: 148 & 150 Farmington Road

Name of project (if applicable): Granite State Credit Union Branch Office

Size of site: 1.30 & 0.62 acres; overlay zoning district(s)?

Property owner

Name (include name of individual): Granite State Credit Union, c/o Michele Plaza; Executive Vice President

Mailing address: PO Box 6420, Manchester, NH 03101

Telephone #: (800) 645-4728 Email:

Applicant/developer (if different from property owner)

Name (include name of individual):

Mailing address:

Telephone #: Email:

Engineer/designer

Name (include name of individual): Norway Plains Associates, Inc.; Scott A. Lawler, PE

Mailing address: PO Box 249, Rochester, NH 03867

Telephone #: 603-335-3948 Fax #:

Email address: slawler@norwayplains.com Professional license #: 10026

Proposed activity (check all that apply)

New building(s): X Site development (other structures, parking, utilities, etc.): X

Addition(s) onto existing building(s): Demolition: X Change of use: X

Describe proposed activity/use: The applicant is proposing a 2,985 square foot credit union branch office with access
off of Farmington Road and Two Rod Road.

Describe existing conditions/use (vacant land?): There are two residential houses located on the lots and a
garage. There are two driveways into the lot from Farmington Road, one for each house.

Utility information

City water? yes x no ; How far is City water from the site? Farmington Road

City sewer? yes ____ no N; How far is City sewer from the site? _____

If City water, what are the estimated total daily needs? 300 gallons per day

If City water, is it proposed for anything other than domestic purposes? yes ____ no x

If City sewer, do you plan to discharge anything other than domestic waste? yes ____ no ____

Where will stormwater be discharged? Treatment swale and infiltration basin

Building information

Type of building(s): Wood & Steel construction with brick siding

Building height: 23' Finished floor elevation: 257.5'

Other information

parking spaces: existing: _____ total proposed: 25; Are there pertinent covenants? _____

Number of cubic yards of earth being removed from the site 2,000 cy

Number of existing employees: 0; number of proposed employees total: 8

Check any that are proposed: variance ____; special exception ____; conditional use ____

Wetlands: Is any fill proposed? _____; area to be filled: _____; buffer impact? _____

Proposed <i>post-development</i> disposition of site (should total 100%)		
	Square footage	% overall site
Building footprint(s) – give for each building	2,985 sf	3.5 %
Parking and vehicle circulation	27,500 sf	32.7%
Planted/landscaped areas (excluding drainage)	16,925 sf	20.1%
Natural/undisturbed areas (excluding wetlands)	6,830 sf	8.2%
Wetlands	0 sf	0.0%
Other – drainage structures, outside storage, etc.	29,830 sf	35.5%


Comments

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

Submission of application

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

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

Signature of property owner: 

Date: 4/26/21

Signature of applicant/developer: _____

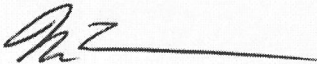
Date: _____

Signature of agent: _____

Date: _____

Authorization to enter subject property

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

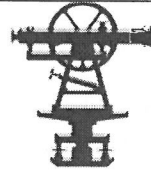
Signature of property owner: 

Date: 4/26/21

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

April 27, 2021

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

Re: Non- Residential Site Plan Application; Granite State Credit Union, 148 & 150 Farmington Road, Map 208, Lots 4 & 5.

Dear Mr. Creighton:

On behalf of Granite State Credit Union, Norway Plains Associates, Inc. is pleased to submit a Non-Residential Preliminary Design Review Site Plan Application. Granite State Credit Union is proposing to construct a 2,985 square foot branch office with drive up service at 150 Farmington Road. The lots are identified by the City of Rochester assessors as Tax Map 208, Lots 4 & 5. The parcels have a combined acreage of 1.93 acres and are located in the Granite Ridge Development Zoning District as well as the Aquifer Protection Overlay District. A lot merger application will be filed and recorded as part of the proposed project.

The parcels are located at the corner of Farmington Road (NH Route 11) and Two Rod Road. The parcels are abutted by an automobile sales and service business (Hagan's Motor Pool) to the northwest and vacant land Across Farmington Road are also vacant properties owned by the City of Rochester and the State of New Hampshire. On the other side of Two Rod Road is a retail store (Tractor Supply Co.). Two Rod Road is currently a Class VI highway owned by the City of Rochester and maintained by Tractor Supply Co. Access to NH Route 11 is within the State of New Hampshire Department of Transportation jurisdiction.

The parcels are currently single family residential properties serviced by wells and on-site septic systems. There are several structures on the properties that would all be removed as part of the redevelopment for the proposed credit union. The existing topography slopes from Route 11 towards the rear of the property, with the last third mostly wooded. The site was evaluated by B.H. Keith, Associates who determined there were no jurisdictional wetlands on the site.

The proposed project is to construct a 2,985 square foot credit union branch with three drive up services bays. The inner drive up lane will be designated for an ATM or teller window, whereas the outer two will be pneumatic tube delivery system. A parking lot is provided for up to 17 members that wish to enter into the branch. Angled parking off the drive will be designed for employees which brings the total on-site parking spaces to 25. A paved pull-off located on westerly edge of the circular drive will accommodate for a single larger utility truck. Access to the facility will be either off Farmington Road or Two Rod Road. Vehicular traffic flow will generally by a one way around the site, with painted arrows and signage, to create a safe passage for the members and employees. Concrete walkways will connect the parking areas to the front entrances and the employee entrance.

The Credit Union will operate Monday through Friday, typically from 8:30 a.m. to 5 p.m. and Saturday from 8:30 a.m. to 12 p.m. The drive-up ATM will be accessible 24-hours a day. The branch anticipates have between 6 and 8 employees working throughout the day.

Stormwater runoff from the proposed redevelopment of the properties will directed towards a stormwater management system via a closed drainage system of curbing, catch basins and drainage pipes. The stormwater management system will consist of a treatment swale and a grass-lined infiltration basin located in the northwesterly corner of the site. Excess stormwater from larger storm events will connected to a new drainage system to be installed within the Route 11 ROW which will outlet to a large drainage pipe going under Farmington Road.

The new building will connect to the City water main located along Farmington Road. Due to no municipal sewer at the street, a new sanitary septic system will be designed and permitted with the NH Department of Environmental Services (NHDES). All other utilities will be located underground from the utility poles located on Farmington Road.

The Element Group, a national design build organization which specializes in design of financial institutions and has recently designed a GSCU branch in Nashua is lead designer on the project. Shremshock are the architects responsible for the building plans and coordination with all of the building construction disciplines.

A dumpster enclosure will be located at the rear of the site and out of the way. Due to the steepness of the existing topography, a retaining wall is needed along the rear property line. Snow storage will be located to the west and east of the developed area. All utilities will be run underground to the building. Lighting fixtures will be mounted on poles and under the drive-up canopy, all meeting the requirements of the City of Rochester lighting standards.

In addition to the NHDES approval for the proposed septic system, approval from the Department of Transportation will be necessary for the access to the State highway. A traffic impact assessment has been prepared by Stephen Pernaw & Co. for the development. Albeit there will be more traffic associated with the redevelopment compared to the residential uses, the average daily and peak hour trips generated by the credit union will be modest compared to other potential businesses that could develop this property. By having driveway access on both Route 11 and Two Rod Road, we anticipate the turning movements to be spread out. With the recently constructed center turning lane on Route 11, it is unlikely that substantial off-site roadway improvements will be warranted.

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

Sincerely,
NORWAY PLAINS ASSOCIATES, INC.



By:
Scott A. Lawler, PE, Project Engineer

cc: Granite State Credit Union
The Element Group



PROPOSED CREDIT UNION BRANCH

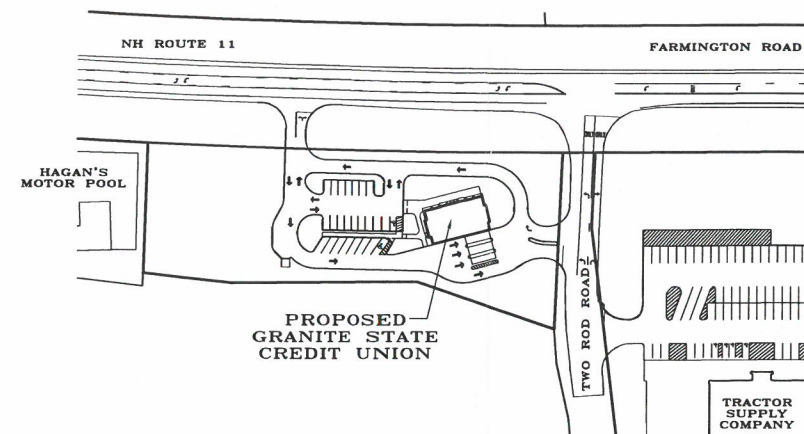
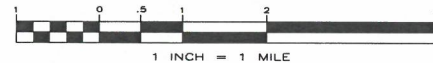
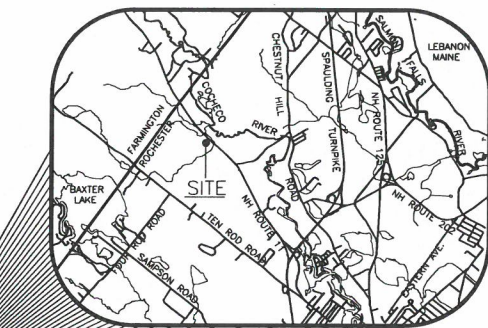
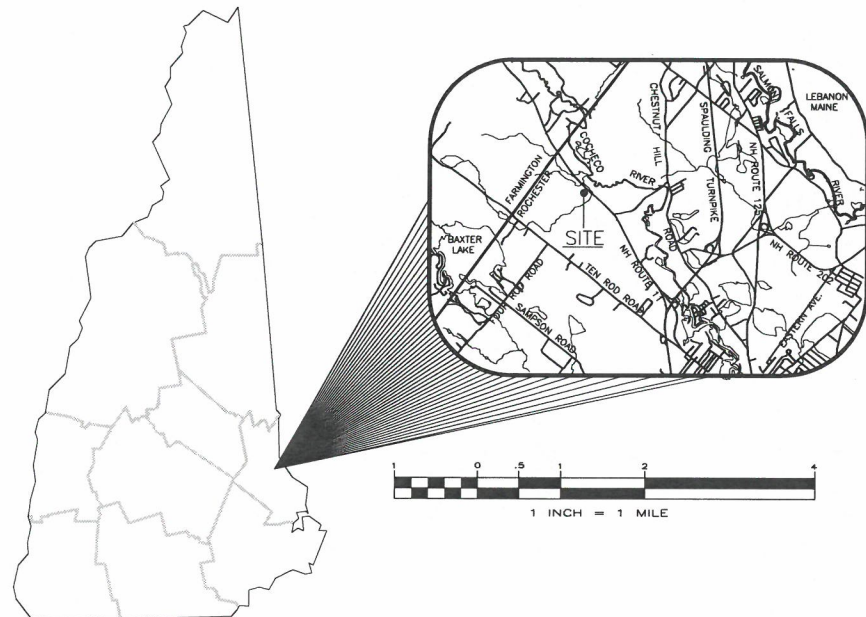
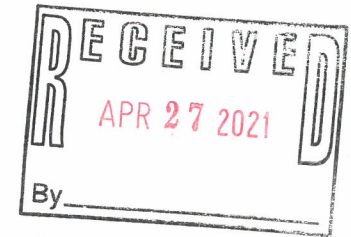
150 FARMINGTON ROAD

PREPARED FOR

GRANITE STATE CREDIT UNION

ROCHESTER, NH

APRIL 2021



OVERALL SITE
1" = 100'

STATE AND FEDERAL PERMITS:
STATE OF NEW HAMPSHIRE PERMIT NUMBERS:
NHDES ALTERATION OF TERRAIN: NOT REQUIRED
NHDES WETLANDS PERMIT: NOT REQUIRED
NHDES DAM PERMIT: NOT REQUIRED
NHDES SUBDIVISION PERMIT: NOT REQUIRED
NHDES SUBSURFACE SYSTEMS PERMIT: REQUIRED
NHDES WASTEWATER PERMIT: NOT REQUIRED
NHDOT DRIVEWAY/ENTRANCE PERMIT: NOT REQUIRED

NATIONAL POLLUTANT DISCHARGE ELIMINATION 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 PERMIT: REQUIRED

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.

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 WITHIN 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.

CIVIL ENGINEERS

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

LANDSCAPE ARCHITECTS

WOODBURN & COMPANY LANDSCAPE ARCHITECTS, LLC
103 KENT PLACE
NEWMARKET, NEW HAMPSHIRE 03857
(603) 659-5949

OWNER & APPLICANT

GRANITE STATE CREDIT UNION
PO BOX 6420
1415 ELM STREET
MANCHESTER, NEW HAMPSHIRE 03101
(800) 645-4728

DESIGNERS

THE ELEMENT GROUP
155 BREWERY LANE, SUITE 1
PORTSMOUTH, NEW HAMPSHIRE 03301
(603) 319-8951

ARCHITECTS

SHREMSHOCK
7775 WALTON PARKWAY, SUITE 250
NEW ALBANY, OHIO 43054
(514) 545-4550

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: _____

SHEET INDEX		
SHEET C-0	COVER	1" = 30'
SHEET E-1	EXISTING FEATURES	1" = 30'
SHEET C-1	OVERALL SITE PLAN	1" = 30'
SHEET C-2	SITE LAYOUT PLAN	1" = 30'
SHEET C-3	GRADING AND DRAINAGE PLAN	1" = 30'
SHEET C-4	EROSION AND SEDIMENTATION CONTROL PLAN	1" = 30'
SHEET C-5	UTILITY PLAN	1" = 30'
SHEET C-6	DRIVEWAY PROFILES	AS SHOWN
SHEET C-7	CONSTRUCTION DETAILS	AS SHOWN
SHEET C-8	DRAINAGE DETAILS	AS SHOWN
SHEET C-9	INFILTRATION BASIN DETAILS	AS SHOWN
SHEET C-10	TEMPORARY EROSION AND SEDIMENTATION CONTROL DETAILS	AS SHOWN
SHEET C-11	PERMANENT EROSION AND SEDIMENTATION CONTROL DETAILS	AS SHOWN
SHEET C-12	UTILITY DETAILS	AS SHOWN
SHEET L-1	LIGHTING PLAN AND DETAILS	1" = 30'
SHEET L-2	SITE LANDSCAPING PLAN	1" = 30'

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

LAND SURVEYORS

CIVIL ENGINEERS



- LEGEND**
- PROPERTY LINE
 - SLOPE EASEMENT
 - EXISTING EDGE OF PAVEMENT
 - EXISTING TREE LINE
 - 258
 - EXISTING CONTOUR LINE
 - EXISTING DRAIN LINE
 - EXISTING OVERHEAD WIRES
 - EXISTING CHAINLINK FENCE
 - EXISTING WATER MAIN
 - EXISTING MONUMENT
 - EXISTING UTILITY POLE
 - EXISTING CATCH BASIN
 - EXISTING HYDRANT
 - EXISTING WATER GATE OR SHUT-OFF VALVE
 - EXISTING LIGHTS
 - EXISTING SPOT ELEVATION
 - EXISTING TEST PIT LOCATION & NUMBER

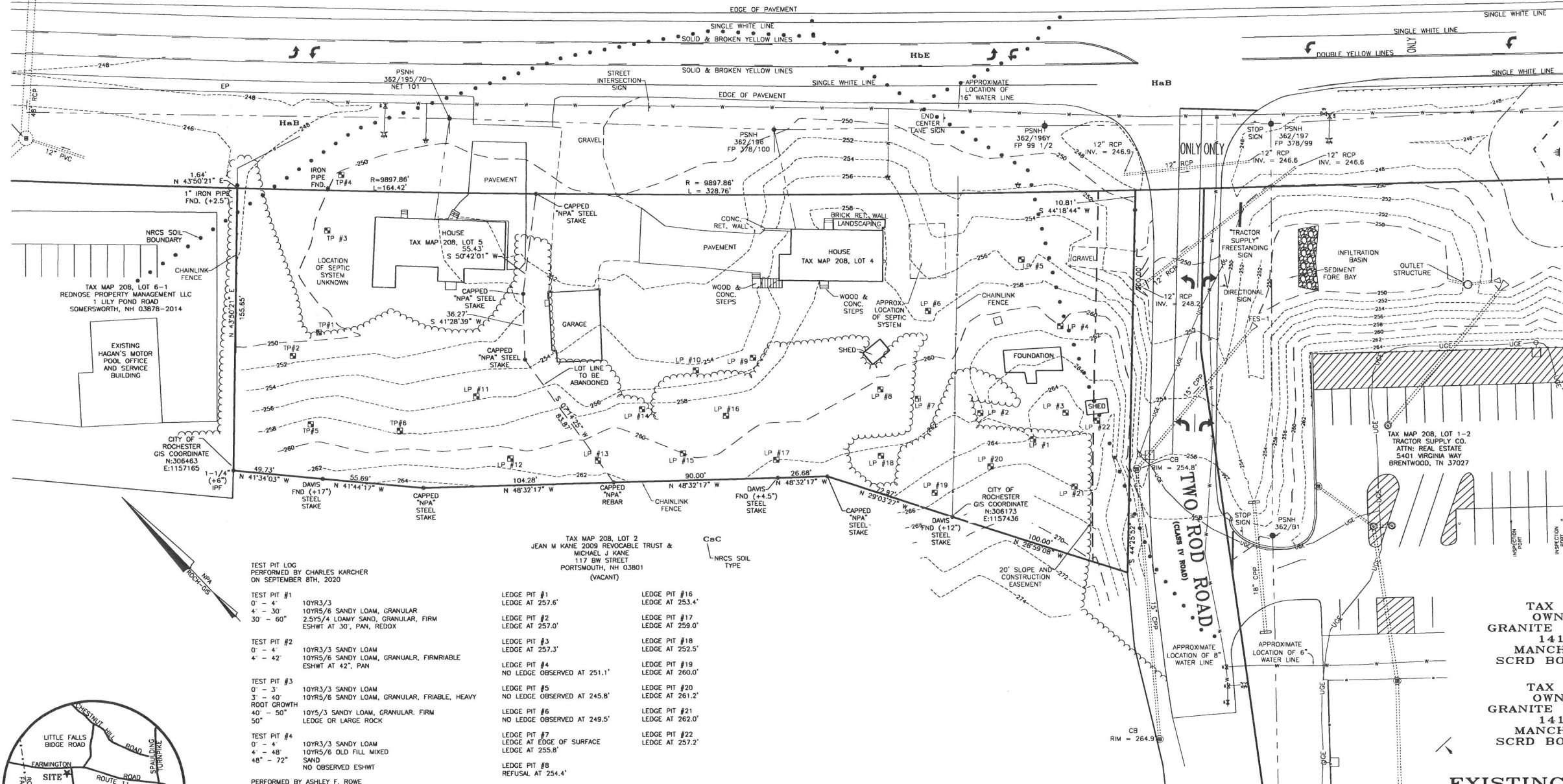
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TAX MAP 208, LOT 7
STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION
PO BOX 483
CONCORD, NH 03301

TAX MAP 208, LOT 15
CITY OF ROCHESTER
31 WAKEFIELD STREET
ROCHESTER, NH 03867

TAX MAP 208, LOT 16
ROBERT A ROWE, SR.
127 FARMINGTON ROAD
ROCHESTER, NH 03867

FARMINGTON ROAD NH ROUTE 11



- GENERAL SITE PLAN NOTES**
- THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXISTING FEATURES ON TAX MAP 208, LOTS 4 & 5.
 - THIS PARCELS ARE LOCATED IN THE GRANITE RIDGE DEVELOPMENT (GRD) ZONE, CONSERVATION OVERLAY AND AQUIFER PROTECTION OVERLAY DISTRICT.
 - TOTAL PARCEL AREA:
MAP 208 - LOT 4: 1.30 ACRES
MAP 208 - LOT 5: 0.63 ACRES
THE LOT IS SERVICED BY ON-SITE SEPTIC SYSTEM AND WELL. DIMENSIONAL REGULATIONS PER ZONING ORDINANCE.
 - GRANITE RIDGE DEVELOPMENT (GRD) ZONE:
MINIMUM LOT AREA = NO DIMENSIONAL STANDARD
MINIMUM LOT FRONTAGE = 50 FEET
PAVEMENT SETBACKS:
FRONT = 10'
SIDE = 5'
REAR = 10'
 - MINIMUM YARD SETBACKS:
FRONT = NO DIMENSIONAL STANDARD
SIDE = NO DIMENSIONAL STANDARD
REAR = NO DIMENSIONAL STANDARD
MAXIMUM BUILDING HEIGHT = NO STANDARD
MAXIMUM LOT COVERAGE = NO STANDARD
 - ORIENTATION: HORIZONTAL AND VERTICAL DATUMS - CITY OF ROCHESTER GIS AND NGVD29
 - THE PARCEL IS NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY MAP, COMMUNITY #33017C0184D DATED MAY 17, 2005.

TEST PIT LOG
PERFORMED BY CHARLES KARCHER
ON SEPTEMBER 8TH, 2020

- TEST PIT #1**
0' - 4' 10YR3/3 SANDY LOAM, GRANULAR
4' - 30' 2.5Y5/4 LOAMY SAND, GRANULAR, FIRM
30' - 60' ESHWT AT 30', PAN, REDOX
- TEST PIT #2**
0' - 4' 10YR3/3 SANDY LOAM
4' - 42' 10YR5/6 SANDY LOAM, GRANULAR, FIRMABLE
ESHWT AT 42', PAN
- TEST PIT #3**
0' - 3' 10YR3/3 SANDY LOAM
3' - 40' 10YR5/6 SANDY LOAM, GRANULAR, FIRMABLE, HEAVY
ROOT GROWTH
40' - 50' 10Y5/3 SANDY LOAM, GRANULAR, FIRM
50' LEDGE OR LARGE ROCK
- TEST PIT #4**
0' - 4' 10YR3/3 SANDY LOAM
4' - 48' 10YR5/6 OLD FILL MIXED
48' - 72' SAND
NO OBSERVED ESHWT
- TEST PIT #5**
0' - 5' 10YR3/2 LOAM TOPSOIL, COMMON ROOTS
5' - 14' 10YR4/6 SANDY LOAM, GRANULAR, LOOSE
14' - 56' 10YR5/8 LOAMY FINE SAND, GRANULAR, LOOSE
56' REFUSAL ON LEDGE
NO OBSERVER ESHWT
- TEST PIT #6**
0' - 10' 10YR3/2 LOAM TOPSOIL, COMMON ROOTS
10' - 24' 10YR3/2 MEDIUM SANDS, SINGLE GRAIN, LOOSE
24' - 38' 10YR5/6 FINE SAND, SINGLE GRAIN, LOOSE
38' - 68' 10YR5/2 VERY FINE LOAMY SAND, FIRMABLE, BLOCKLY,
FIRM IN PLACE
68' REFUSAL ON LEDGE
NO OBSERVER ESHWT

PERFORMED BY ASHLEY F. ROWE
NHDES DESIGNER 1857
ON MARCH 9, 2021

- LEDGE PIT #1**
LEDGE AT 257.6'
- LEDGE PIT #2**
LEDGE AT 257.0'
- LEDGE PIT #3**
LEDGE AT 257.3'
- LEDGE PIT #4**
NO LEDGE OBSERVED AT 251.1'
- LEDGE PIT #5**
NO LEDGE OBSERVED AT 245.8'
- LEDGE PIT #6**
NO LEDGE OBSERVED AT 249.5'
- LEDGE PIT #7**
LEDGE AT EDGE OF SURFACE
LEDGE AT 255.8'
- LEDGE PIT #8**
REFUSAL AT 254.4'
- LEDGE PIT #9**
LEDGE AT 250.4'
- LEDGE PIT #10**
LEDGE AT 250.7'
- LEDGE PIT #11**
NO LEDGE OBSERVED AT 245.8'
- LEDGE PIT #12**
LEDGE AT 252.5'
- LEDGE PIT #13**
NO LEDGE OBSERVED AT 251.3'
- LEDGE PIT #14**
NO LEDGE OBSERVED AT 247.8'
- LEDGE PIT #15**
LEDGE AT 249.5'
- LEDGE PIT #16**
LEDGE AT 253.4'
- LEDGE PIT #17**
LEDGE AT 259.0'
- LEDGE PIT #18**
LEDGE AT 252.5'
- LEDGE PIT #19**
LEDGE AT 260.0'
- LEDGE PIT #20**
LEDGE AT 261.2'
- LEDGE PIT #21**
LEDGE AT 262.0'
- LEDGE PIT #22**
LEDGE AT 257.2'

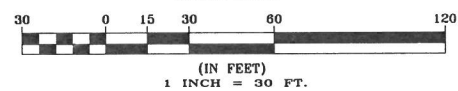
TAX MAP 208, LOT 4
OWNER OF RECORD:
GRANITE STATE CREDIT UNION
1415 ELM STREET
MANCHESTER, NH 03101
SCRD BOOK 4883, PAGE 329

TAX MAP 208, LOT 5
OWNER OF RECORD:
GRANITE STATE CREDIT UNION
1415 ELM STREET
MANCHESTER, NH 03101
SCRD BOOK 4883, PAGE 334

EXISTING FEATURES PLAN TAX MAP 208, LOTS 4 & 5 148 & 150 FARMINGTON ROAD ROCHESTER, NH

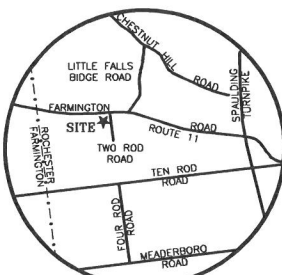
PREPARED FOR:
GRANITE STATE CREDIT UNION

APRIL 2021
GRAPHIC SCALE



FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: _____



LOCUS MAP

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

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

NORWAY PLAINS ASSOCIATES, INC.

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



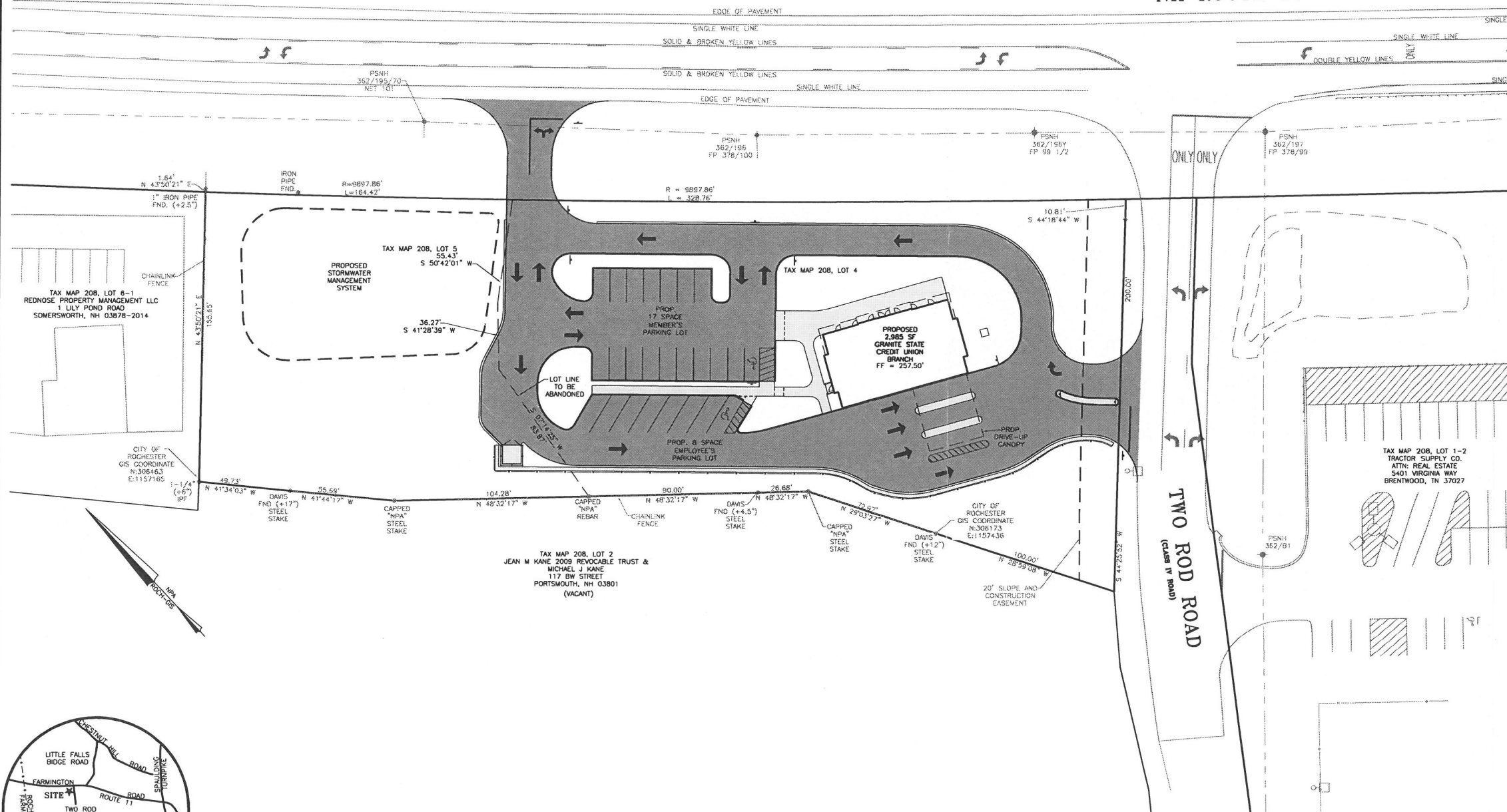
LEGEND

- PROPERTY LINE
- JURISDICTIONAL WETLANDS
- EXISTING TREE LINE
- EXISTING OVERHEAD WIRES
- EXISTING HYDRANT
- EXISTING WATER GATE OR SHUT-OFF VALVE
- EXISTING UTILITY POLE
- EXISTING SEWER MAN HOLE
- EXISTING CATCH BASIN
- EXISTING LIGHT POLES
- PROPOSED BUILDING
- PROPOSED PAVEMENT

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FARMINGTON ROAD
NH ROUTE 11

- GENERAL SITE PLAN NOTES
1. THE PURPOSE OF THIS PLAN IS TO DEPICT A PROPOSED CREDIT UNION ON TAX MAP 208, LOTS 4 & 5.
 2. THESE PARCELS ARE LOCATED IN THE GRANITE RIDGE DEVELOPMENT (GRD) ZONE AND AQUIFER PROTECTION OVERLAY DISTRICT.
 3. TOTAL PARCEL AREA:
MAP 208 - LOT 4: 1.30 ACRES
MAP 208 - LOT 5: 0.63 ACRES
 4. THE LOT IS SERVICED BY ON SITE SEPTIC SYSTEM AND WELL.
 5. DIMENSIONAL REGULATIONS PER ZONING ORDINANCE:
GRANITE RIDGE DEVELOPMENT (GRD) ZONE:
MINIMUM LOT AREA = NO DIMENSIONAL STANDARD
MINIMUM LOT FRONTAGE = 50 FEET
PAVEMENT SETBACKS:
FRONT = 10'
SIDE = 5'
REAR = 10'
MINIMUM YARD SETBACKS:
FRONT = NO DIMENSIONAL STANDARD
SIDE = NO DIMENSIONAL STANDARD
REAR = NO DIMENSIONAL STANDARD
MAXIMUM LOT COVERAGE = NO STANDARD
MAXIMUM BUILDING HEIGHT = NO STANDARD
 7. ORIENTATION: HORIZONTAL AND VERTICAL DATUMS - CITY OF ROCHESTER GIS AND NAVD29
 8. THE PARCEL IS NOT LOCATED WITHIN THE 100 YEAR FLOOD ZONE AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY MAP, COMMUNITY #33017001840 DATED MAY 17, 2005.
 9. JURISDICTIONAL WETLAND WERE EVALUATED BY B.H. KEITH, NH CERTIFIED WETLAND SCIENTIST #067, ON JANUARY 9, 2020 AND WAS DETERMINED THERE WERE NONE ON THESE PARCELS.
 10. SOILS SERIES TYPES ARE PER NATURAL RESOURCES CONSERVATION SERVICE.
CHARLTON FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES.
HICKLEY LOAMY SAND, 3 TO 8 PERCENT SLOPES.
 11. PARKING REQUIREMENTS (SITE PLAN REGULATIONS SECTION 10(A))
BANK - 3 SPACES PER 1,000 GROSS FLOOR AREA.
REQUIRED: 3 SPACES/1,000 GSF * 2,985 GSF = 9 SPACES
PROVIDED: 25 SPACES INCLUDING 2 ACCESSIBLE SPACES
 12. FOR MORE INFORMATION ABOUT THIS SITE PLAN, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, 33 WAKEFIELD STREET, ROCHESTER, NH 03867, (603)335-1338.
 13. THIS DEVELOPMENT MUST BE IN COMPLIANCE WITH ALL APPLICABLE LAW - INCLUDING ALL PERTINENT PROVISIONS OF THE CITY OF ROCHESTER SITE PLAN REGULATIONS - UNLESS OTHERWISE WAIVED.
 14. THE APPLICANT SHALL OBTAIN A STORMWATER MANAGEMENT PERMIT FROM THE PUBLIC WORKS DEPARTMENT (UNLESS DETERMINED TO BE UNNECESSARY BY THE CITY ENGINEER) AND FOLLOW THE REQUIREMENTS OF THE CITY ORDINANCE CHAPTER 218. THE PERMITTEE SHALL PREPARE A WRITTEN PLAN FOR MANAGING STORMWATER THAT ENTERS THE CONSTRUCTION SITE AND SHALL PRESENT IT TO THE INSPECTION ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE PERMITTEE SHALL FOLLOW BEST MANAGEMENT PRACTICES TO PREVENT EROSION IN AREAS WHERE SOIL HAS BEEN DISTURBED.
 15. ACCESS INTO THE SITE FOR FIRE APPARATUS MUST BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PROCESS. THIS IS THE SOLE RESPONSIBILITY OF THE APPLICANT/DEVELOPER TO MAINTAIN THIS ACCESS. PLEASE CONTACT THE FIRE DEPARTMENT AT 330-7182 WITH ANY QUESTIONS ABOUT ACCESS REQUIREMENTS.
 16. SNOW SHALL NOT BE PILED IN SUCH A MANNER AS TO BLOCK THE VISIBILITY OF THE VEHICLES ON NH ROUTE 11 OR TWO ROD ROAD AND ALL EXCESS SNOW SHALL BE REMOVED FROM THE SITE.
 17. ALL OUTSIDE CONSTRUCTION ACTIVITY RELATED TO THE DEVELOPMENT OF THIS SITE IS RESTRICTED TO THE HOURS OF 7:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY AND 8:00 A.M. TO 6:00 P.M. SATURDAY.
 18. ALL UTILITIES MUST BE UNDERGROUND, INCLUDING UTILITIES EXTENDED ONTO THE SITE FROM EXISTING POLES NEAR THE SITE. HOWEVER, IF THE ONLY POLE NEARBY IS ACROSS THE STREET, ONE ADDITIONAL POLE MAY BE PLACED ON/NEAR THE PROPERTY TO ALLOW FOR OVERHEAD EXTENSION OF WIRES ACROSS THE STREET. UTILITIES EXTENDING FROM ANY SUCH NEW POLE MUST BE UNDERGROUND. THE APPLICANT MAY WORK WITH THE CITY STAFF AS APPROPRIATE TO ADDRESS THIS REQUIREMENT.
 19. ALL ELEMENTS SHOWN ON THE APPROVED SITE PLAN MUST BE PROPERLY COMPLETED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY, UNLESS APPROPRIATE SURETY IS PLACED WITH THE PLANNING DEPARTMENT.
 20. NOTE THAT THIS APPROVAL IS FOR THE SITE PLAN ONLY. LIFE SAFETY CODE AND BUILDING CODE REVIEW WILL BE REQUIRED AS PART OF THE BUILDING PERMIT PROCESS WHEN THE CONSTRUCTION PLANS ARE SUBMITTED. VARIOUS REQUIREMENTS REGARDING THE BUILDING DESIGN POSSIBLY INCLUDING A SPRINKLER SYSTEM - MAY BE SPECIFIED AT THAT TIME.

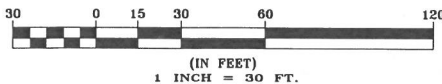
TAX MAP 208, LOT 4
OWNER OF RECORD:
GRANITE STATE CREDIT UNION
1415 ELM STREET
MANCHESTER, NH 03101
SCRD BOOK 4883, PAGE 329

TAX MAP 208, LOT 5
OWNER OF RECORD:
GRANITE STATE CREDIT UNION
1415 ELM STREET
MANCHESTER, NH 03101
SCRD BOOK 4883, PAGE 334

OVERALL SITE PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:
GRANITE STATE CREDIT UNION

APRIL 2021
GRAPHIC SCALE



SITE REVIEW APPROVAL

WHETHER OR NOT OTHERWISE EXPRESSLY RECITED ON THIS SITE REVIEW PLAN, THE SITE REVIEW APPROVAL GRANTED IS CONDITIONED ON FAITHFUL AND DILIGENT ADHERENCE BY THE OWNER/DEVELOPER TO ALL WRITTEN AND VERBAL REPRESENTATIONS MADE REGARDING SUCH MATTERS AS USE, NUMBER OF EMPLOYEES, DRAINAGE, CONSTRUCTION, ETC. AS WELL AS ALL OTHER TERMS, CONDITIONS, PROVISIONS, REQUIREMENTS AND SPECIFICATIONS OF THE SITE PLAN REVIEW REGULATIONS OF THE CITY OF ROCHESTER, N.H., AS AMENDED, IN EFFECT ON THE DATE OF APPROVAL. ANY VARIATION FROM THE PROPOSAL AS APPROVED MAY ALSO REQUIRE THE SUBMISSION AND APPROVAL OF A NEW SITE REVIEW APPLICATION.

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 WITHIN 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.

FINAL APPROVAL BY
ROCHESTER PLANNING BOARD

CERTIFIED BY: _____ DATE: _____

LOCUS MAP

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

LAND SURVEYORS



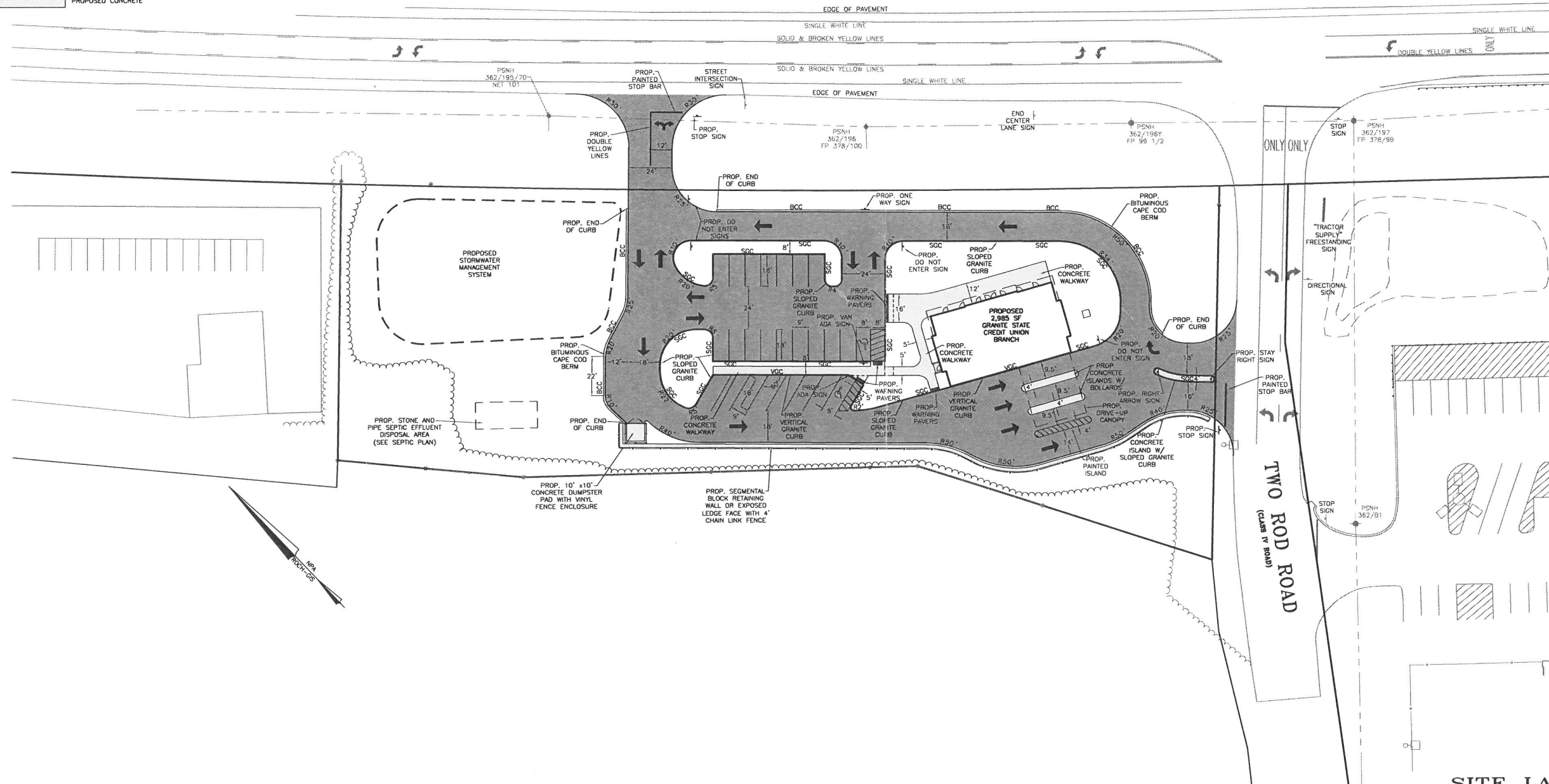
CIVIL ENGINEERS

LEGEND

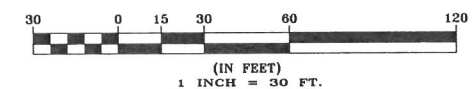
PROPERTY LINE	PROPOSED DETECTABLE WARNING PAVERS
EXISTING TREE LINE	PROPOSED SIGNS
EXISTING OVERHEAD WIRES	BCC
EXISTING HYDRANT	BITUMINOUS CAPE CODE
EXISTING WATER GATE OR SHUT-OFF VALVE	SCC
EXISTING UTILITY POLE	SLOPED GRANITE CURB BERM
EXISTING CATCH BASIN	PAVEMENT RADIUS (20')
EXISTING LIGHT POLES	PROPOSED STANDARD PARKING SPACES (9' x 18')
PROPOSED BUILDING	PROPOSED VAN ACCESSIBLE PARKING SPACES (8' x 18' WITH 8' x 18' ACCESS ISLE)
PROPOSED PAVEMENT	PROPOSED ACCESSIBLE PARKING SPACES (8' x 18' WITH 5' x 18' ACCESS ISLE)
SCC	PROPOSED PAVEMENT WITH CURBING
PROPOSED TREE LINE	
PROPOSED BLOCK RETAINING WALL	
PROPOSED PAVEMENT (STANDARD)	
PROPOSED CONCRETE	

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 WITHIN 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.

FARMINGTON ROAD NH ROUTE 11



SITE LAYOUT PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH
PREPARED FOR:
GRANITE STATE CREDIT UNION
APRIL 2021
GRAPHIC SCALE



FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

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

NORWAY PLAINS ASSOCIATES, INC.

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

C-2

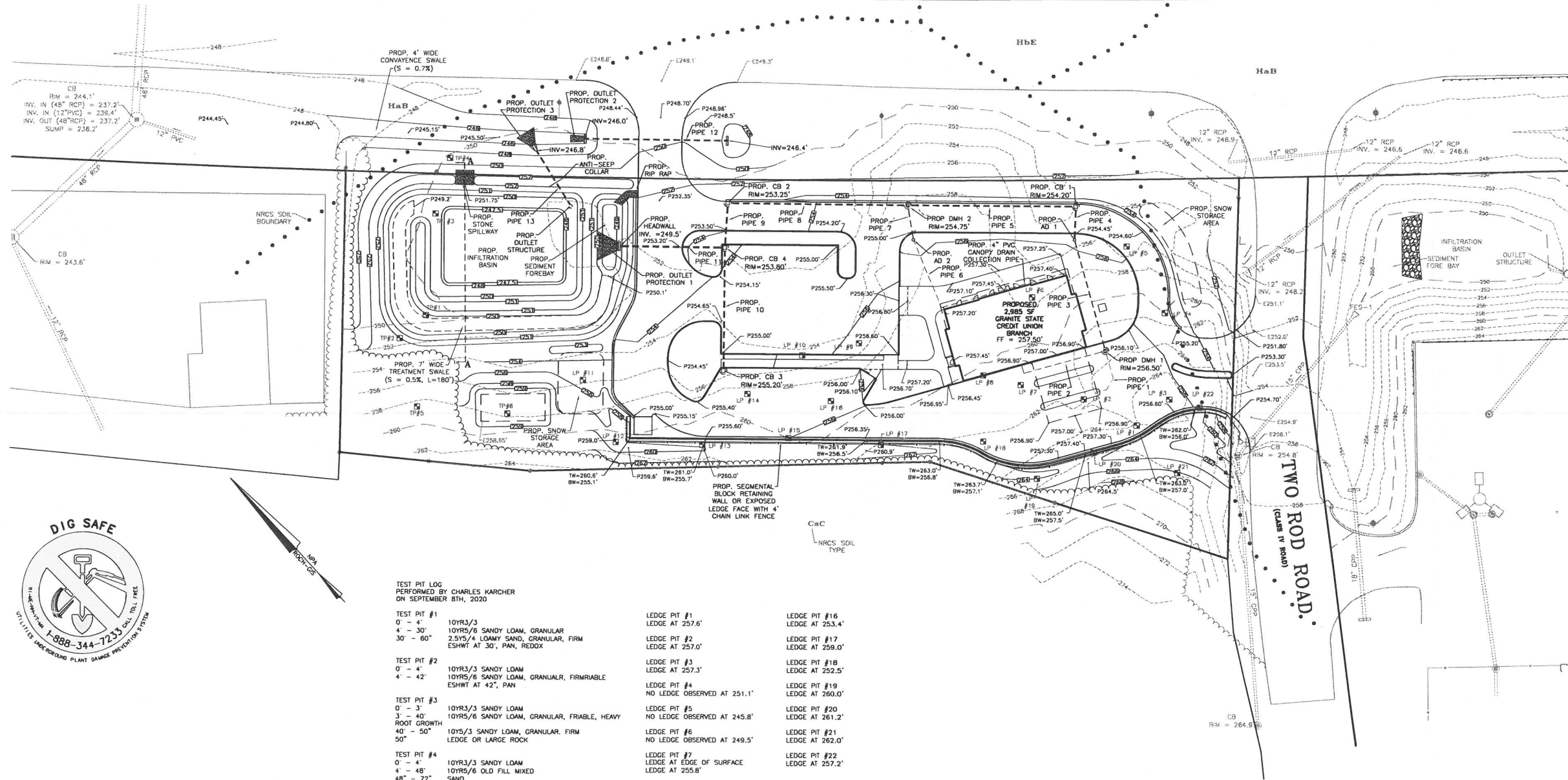


LEGEND

- PROPERTY LINE
- - - JURISDICTIONAL WETLANDS
- - - EXISTING TREE LINE
- - - EXISTING DRAIN LINE
- - - EXISTING CONTOUR LINE
- 232 EXISTING CATCH BASIN
- 232 EXISTING TEST PIT
- E234.1' EXISTING SPOT GRADE
- P234.25' PROPOSED SPOT GRADE
- - - PROPOSED TREE LINE
- - - PROPOSED DRAIN LINE
- 232 PROPOSED CONTOUR LINE
- ⊙ PROPOSED CATCH BASIN
- ⊙ PROPOSED DRAIN MANHOLE
- ⊙ PROPOSED FLARED END SECTION (FES)
- ⊙ CORRUGATED POLYETHYLENE PIPE
- CB CATCH BASIN
- AD AREA DRAIN
- TW TOP OF WALL
- BW BOTTOM OF WALL
- ⊙ PROPOSED OUTLET PROTECTION

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 HYDROLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITHIN 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.

FARMINGTON ROAD
NH ROUTE 11



PROPOSED DRAINAGE TABLE

PROP. DMH 1 RIM = 256.50' INV. IN (3") = 253.10' INV. IN (4") = 253.00' INV. OUT (8") = 252.60'	PROP. PIPE 1 3" SDR35 PVC L = 28' S = 0.5%
PROP. AD 1 RIM = 254.00' INV. IN (8") = 252.00' INV. OUT (8") = 252.00'	PROP. PIPE 2 4" SDR35 PVC L = 50' S = 0.5%
PROP. AD 2 RIM = 254.50' INV. IN (3") = 253.00' INV. OUT (8") = 252.50'	PROP. PIPE 3 8" CPP L = 62' S = 1.0%
PROP. DMH 2 RIM = 254.75' INV. IN (8") = 252.00' INV. IN (12") = 251.10' INV. OUT (12") = 251.00'	PROP. PIPE 4 8" CPP L = 18' S = 1.4%
PROP. CB 1 RIM = 254.20' INV. IN (8") = 251.75' INV. OUT (12") = 251.55' SUM = 248.55'	PROP. PIPE 5 12" CPP L = 90' S = 0.5%
PROP. CB 2 RIM = 253.25' INV. IN (12") = 250.50' INV. OUT (12") = 250.40' SUM = 247.30'	PROP. PIPE 6 3" CPP L = 38' S = 6.0%
PROP. CB 3 RIM = 255.20' INV. OUT (12") = 251.40' SUM = 248.40'	PROP. PIPE 7 8" CPP L = 20' S = 2.5%
PROP. CB 4 RIM = 253.80' INV. IN (12") = 250.80' INV. IN (12") = 250.15' INV. OUT (15") = 250.00' SUM = 246.00'	PROP. PIPE 8 12" CPP L = 95' S = 0.5%
PROP. OUTLET STRUCTURE RIM 250.50' INV. OUT (12") = 247.00' SUM = 244.00'	PROP. PIPE 9 12" CPP L = 21' S = 1.1%
* WITH ELIMINATOR OIL AND DEBRIS TRAP	PROP. PIPE 10 12" CPP L = 64' S = 1.0%
	PROP. PIPE 11 15" RCP L = 56' S = 0.9%
	PROP. PIPE 12 12" CPP L = 80' S = 0.5%
	PROP. PIPE 13 12" CPP L = 35' S = 0.6% WITH ANTI-SEEP COLLAR



TEST PIT LOG
PERFORMED BY CHARLES KARCHER
ON SEPTEMBER 8TH, 2020

TEST PIT #1
0' - 4' 10YR3/3
4' - 30' 10YR5/6 SANDY LOAM, GRANULAR
30' - 60' 2.5YR/4 LOAMY SAND, GRANULAR, FIRM
ESHWIT AT 30', PAN, REDOX

TEST PIT #2
0' - 4' 10YR3/3 SANDY LOAM
4' - 42' 10YR5/6 SANDY LOAM, GRANULAR, FIRMABLE
ESHWIT AT 42', PAN

TEST PIT #3
0' - 3' 10YR3/3 SANDY LOAM
3' - 40' 10YR5/6 SANDY LOAM, GRANULAR, FIRMABLE, HEAVY
ROOT GROWTH
40' - 50' 10Y5/3 SANDY LOAM, GRANULAR, FIRM
50' LEDGE OR LARGE ROCK

TEST PIT #4
0' - 4' 10YR3/3 SANDY LOAM
4' - 48' 10YR5/6 OLD FILL MIXED
48' - 72' SAND
NO OBSERVED ESHWT

PERFORMED BY ASHLEY F. ROWE
NHDDESIGNER 1857
ON MARCH 9, 2021

TEST PIT #5
0' - 5' 10YR3/2 LOAM TOPSOIL, COMMON ROOTS
5' - 14" 10YR4/6 SANDY LOAM, GRANULAR, LOOSE
14" - 56" 10YR5/8 LOAMY FINE SAND, GRANULAR, LOOSE
56" REFUSAL ON LEDGE
NO OBSERVER ESHWT

TEST PIT #6
0' - 10" 10YR3/2 LOAM TOPSOIL, COMMON ROOTS
10" - 24" 10YR3/2 MEDIUM SANDS, SINGLE GRAIN, LOOSE
24" - 38" 10YR5/6 FINE SAND, SINGLE GRAIN, LOOSE
38" - 68" 10YR5/2 VERY FINE LOAMY SAND, FIRMABLE, BLOOMLY
FIRM IN PLACE
68" REFUSAL ON LEDGE
NO OBSERVED ESHWT

LEDGE PIT #1
LEDGE AT 257.8'

LEDGE PIT #2
LEDGE AT 257.0'

LEDGE PIT #3
LEDGE AT 257.3'

LEDGE PIT #4
NO LEDGE OBSERVED AT 251.1'

LEDGE PIT #5
NO LEDGE OBSERVED AT 245.8'

LEDGE PIT #6
NO LEDGE OBSERVED AT 249.5'

LEDGE PIT #7
LEDGE AT EDGE OF SURFACE
LEDGE AT 255.8'

LEDGE PIT #8
REFUSAL AT 254.4'

LEDGE PIT #9
LEDGE AT 250.4'

LEDGE PIT #10
LEDGE AT 250.7'

LEDGE PIT #11
NO LEDGE OBSERVED AT 245.8'

LEDGE PIT #12
LEDGE AT 252.5'

LEDGE PIT #13
NO LEDGE OBSERVED AT 251.3'

LEDGE PIT #14
NO LEDGE OBSERVED AT 247.8'

LEDGE PIT #15
LEDGE AT 249.5'

LEDGE PIT #16
LEDGE AT 253.4'

LEDGE PIT #17
LEDGE AT 259.0'

LEDGE PIT #18
LEDGE AT 252.5'

LEDGE PIT #19
LEDGE AT 260.0'

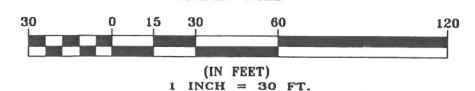
LEDGE PIT #20
LEDGE AT 261.2'

LEDGE PIT #21
LEDGE AT 262.0'

LEDGE PIT #22
LEDGE AT 257.2'

GRADING AND DRAINAGE PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH
PREPARED FOR:
GRANITE STATE CREDIT UNION

APRIL 2021
GRAPHIC SCALE



FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

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

NORWAY PLAINS ASSOCIATES, INC.

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

LEGEND

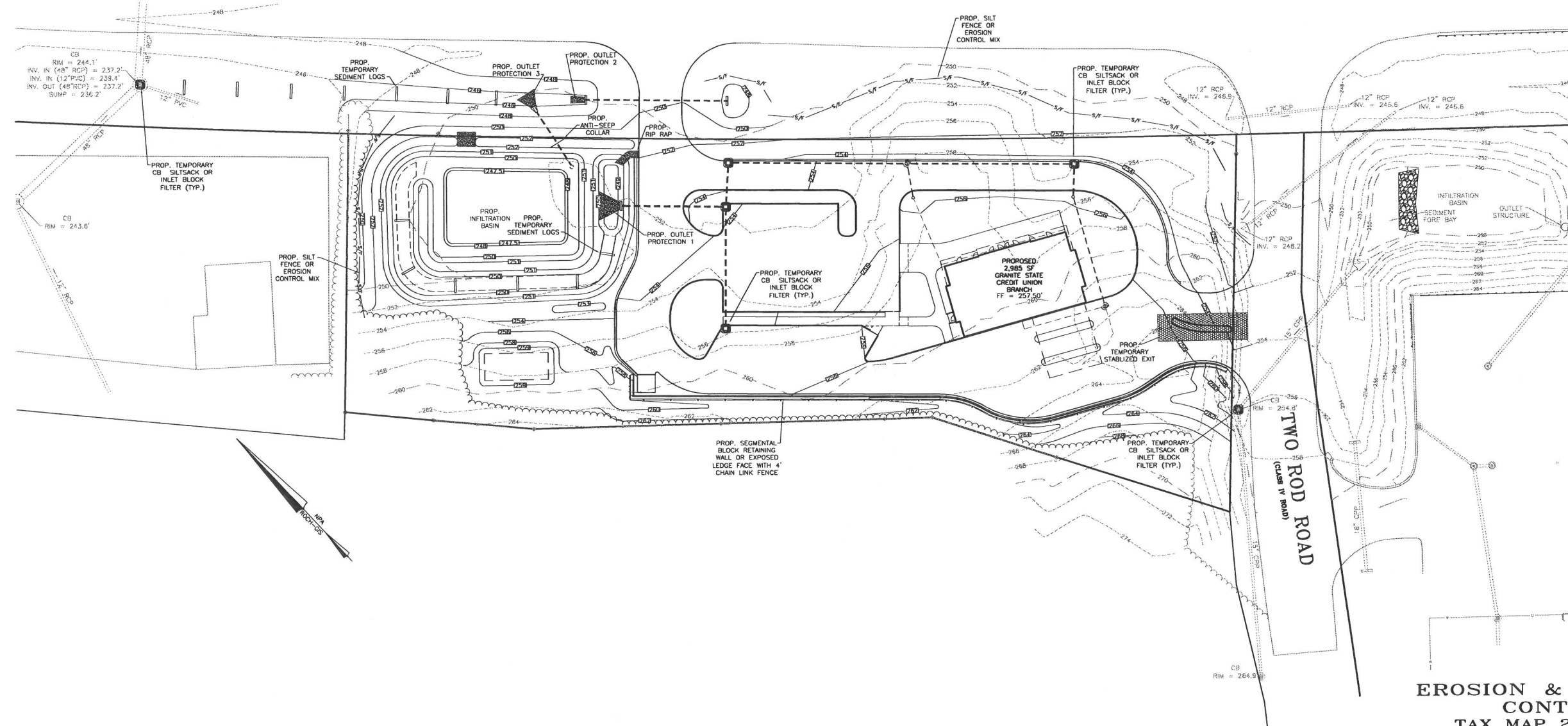
- PROPERTY LINE
- JURISDICTIONAL WETLANDS
- EXISTING TREE LINE
- EXISTING DRAIN LINE
- 232 EXISTING CONTOUR LINE
- EXISTING CATCH BASIN
- PROPOSED TREE LINE
- PROPOSED DRAIN LINE
- 234 PROPOSED CONTOUR LINE
- 5/8" PROPOSED SILTATION FENCE
- 5/8" PROPOSED SILTATION SOCK
- PROPOSED CATCH BASIN
- PROPOSED DRAIN MANHOLE
- PROPOSED FLARED END SECTION (FES)
- PROPOSED TEMPORARY CATCH BASIN
SILT SACK OR BLOCK INLET FILTERS
- PROPOSED TEMPORARY
STABILIZED CONSTRUCTION
EXIT
- PROPOSED TEMPORARY
SEDIMENT LOGS



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.

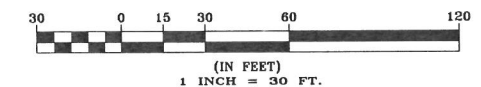


FARMINGTON ROAD
NH ROUTE 11



EROSION & SEDIMENTATION
CONTROL PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:
GRANITE STATE CREDIT UNION
APRIL 2021
GRAPHIC SCALE



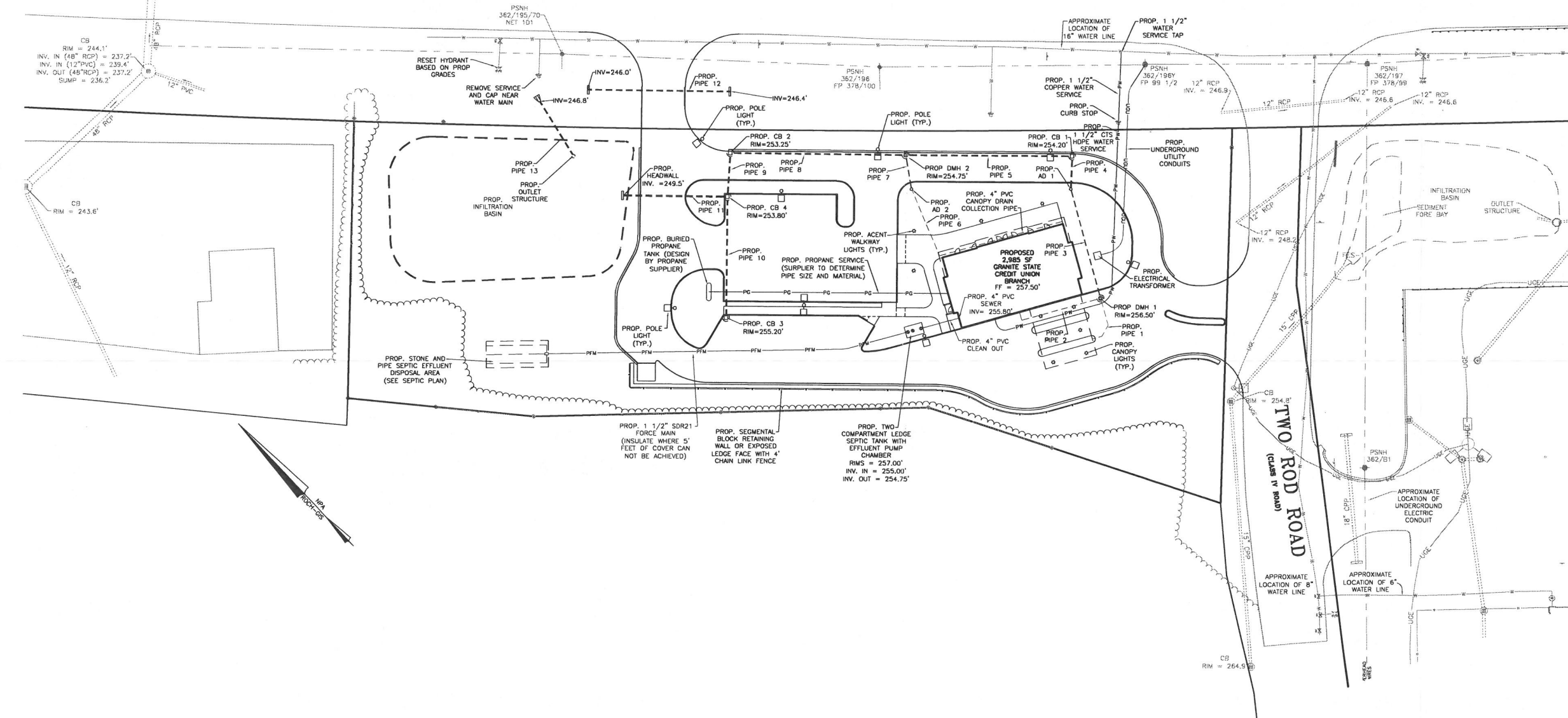
FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

LEGEND

PROPERTY LINE	PROPOSED DRAIN LINE
JURISDICTIONAL WETLANDS	PROPOSED WATER SERVICE
EXISTING OVERHEAD WIRES	PROPOSED SEWER LINE
EXISTING WATER MAIN	PROPOSED SEWER FORCE MAIN PIPE HOPE
EXISTING GRAVITY SEWER MAIN	PROPOSED PROPANE GAS LINE
EXISTING SEWER FORCE MAIN	PROPOSED UNDERGROUND UTILITY WIRES
EXISTING UNDERGROUND ELECTRIC WIRES	PROPOSED UNDERGROUND ELECTRIC WIRES
EXISTING GAS PIPE	PROPOSED HYDRANT
EXISTING DRAIN LINE	PROPOSED WATER VALVE
EXISTING HYDRANT	PROPOSED WATER SHUT-OFF VALVE
EXISTING WATER GATE OR SHUT-OFF VALVE	PROPOSED SEWER SHUT-OFF VALVE
EXISTING UTILITY POLE	PROPOSED UTILITY POLE
EXISTING SEWER MANHOLE	PROPOSED SEWER MANHOLE
EXISTING CATCH BASIN	PROPOSED CATCH BASIN
EXISTING LIGHT POLES	PROPOSED LIGHT POLES
	PROPOSED BUILDING LIGHT FIXTURES

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 WITHIN 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.

FARMINGTON ROAD
NH ROUTE 11



PROPOSED DRAINAGE TABLE

PROP. DMH 1 RIM = 256.50' INV. IN (3") = 253.10' INV. IN (4") = 253.00' INV. OUT (8") = 252.60'	PROP. PIPE 1 3" SDR35 PVC L = 28' S = 0.5%
PROP. AD 1 RIM = 254.00' INV. IN (8") = 252.00' INV. OUT (8") = 252.00'	PROP. PIPE 2 4" SDR35 PVC L = 50' S = 0.5%
PROP. AD 2 RIM = 254.50' INV. IN (3") = 253.00' INV. OUT (8") = 252.50'	PROP. PIPE 3 8" CPP L = 62' S = 1.0%
PROP. DMH 2 RIM = 254.75' INV. IN (8") = 252.00' INV. IN (12") = 251.10' INV. OUT (12") = 251.00'	PROP. PIPE 4 8" CPP L = 18' S = 1.4%
PROP. CB 1 RIM = 254.20' INV. IN (8") = 251.75' INV. OUT (12") = 251.55' SUM = 248.55'	PROP. PIPE 5 12" CPP L = 90' S = 0.5%
PROP. CB 2 RIM = 253.25' INV. IN (12") = 250.50' INV. OUT (12") = 250.40' SUM = 247.30'	PROP. PIPE 6 3" CPP L = 38' S = 6.0%
PROP. CB 3 RIM = 255.20' INV. OUT (12") = 251.40' SUM = 248.40'	PROP. PIPE 7 8" CPP L = 20' S = 2.5%
PROP. CB 4 RIM = 253.80' INV. IN (12") = 250.80' INV. IN (15") = 250.15' SUM = 246.00'	PROP. PIPE 8 12" CPP L = 95' S = 0.5%
PROP. OUTLET STRUCTURE RIM 250.50' INV. OUT (12") = 247.00' SUM = 244.00'	PROP. PIPE 9 12" CPP L = 21' S = 1.1%
* WITH ELIMINATOR OIL AND DEBRIS TRAP	PROP. PIPE 10 12" CPP L = 64' S = 1.0%
	PROP. PIPE 11 15" RCP L = 56' S = 0.9%
	PROP. PIPE 12 12" CPP L = 80' S = 0.5%
	PROP. PIPE 13 12" CPP L = 35' S = 0.8% WITH ANTI-SLEEP COLLAR

- NOTES:
- CONSTRUCTION WILL CONFORM TO THE FOLLOWING UTILITIES STANDARDS AND SPECIFICATION:
 - SANITARY SEWER DISPOSAL - CITY OF ROCHESTER
 - ELECTRIC DISTRIBUTION - EVERSOURCE
 - TELEPHONE - FAIRPOINT
 - CABLE - CONSOLIDATED COMMUNICATIONS
 - WATER - CITY OF ROCHESTER
 - ALL PROPOSED ON-SITE UTILITIES SHALL BE INSTALLED UNDERGROUND.



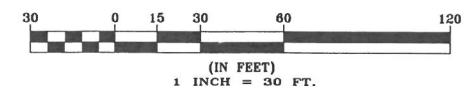
FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

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

NORWAY PLAINS ASSOCIATES, INC.

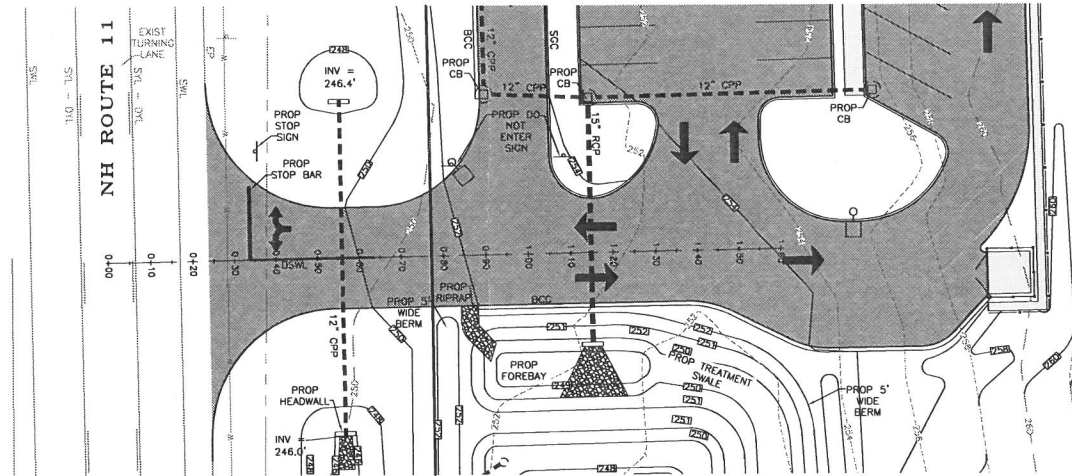
UTILITY PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH
PREPARED FOR:
GRANITE STATE CREDIT UNION

APRIL 2021
GRAPHIC SCALE

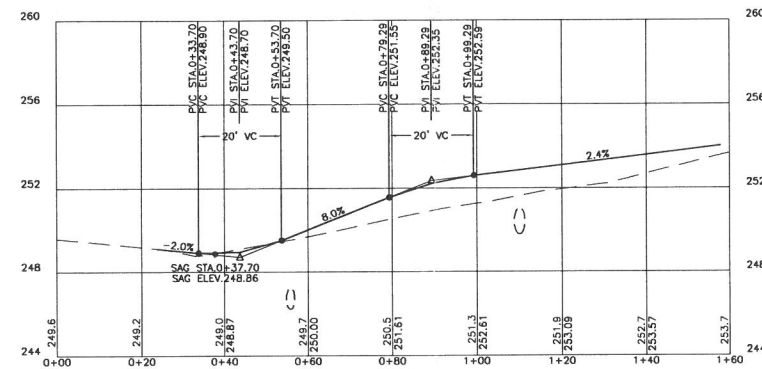


2 Continental Blvd., Rochester, N.H. 603-335-3948

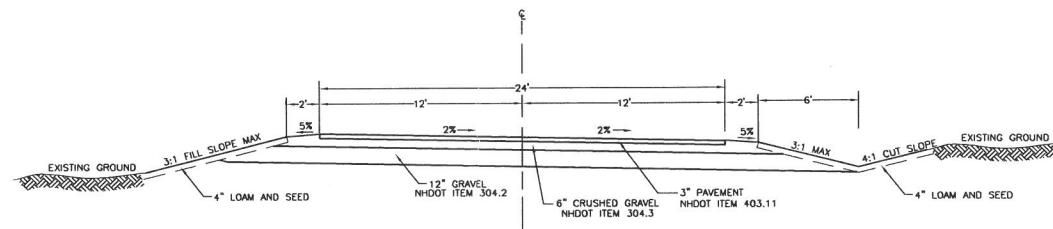
LAND SURVEYORS



ROUTE 11 DRIVEWAY PLAN VIEW
1" = 20'



ROUTE 11 DRIVEWAY PROFILE
1" = 20' (HORZ.) & 1" = 4' (VERT.)

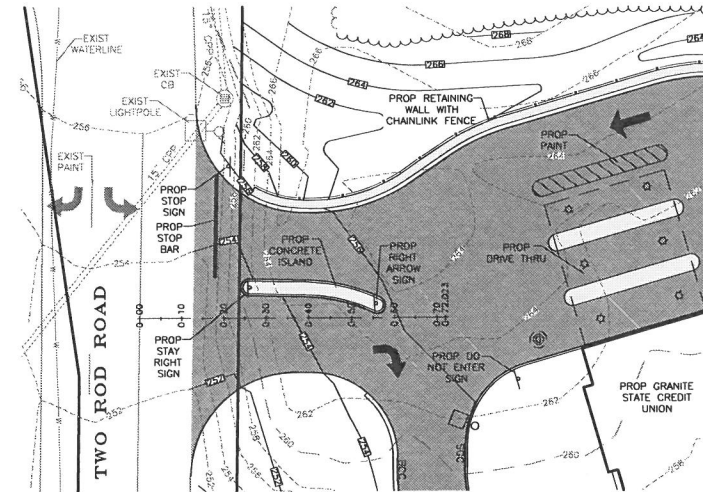


ROUTE 11 DRIVEWAY CROSS-SECTION
1" = 5'

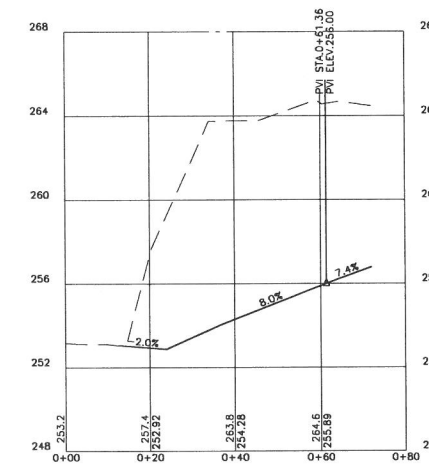
1. CONSTRUCTION MATERIALS AND METHODS SHALL BE IN ACCORDANCE WITH NHDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"
2. THE ENTIRE AREA OF THE DRIVEWAY AND ITS ADJOINING SLOPED AREAS SHALL BE CLEARED OF ALL STUMPS, BRUSH, ROOTS, ROCKS, BOULDERS, AND LIKE MATERIALS AND ALSO OF ALL TREES NOT INTENDED FOR PRESERVATION.
3. CONTRACTOR IS TO CONTACT CITY ENGINEER, TO REVIEW CONDITION OF THE ROUGHED IN ROAD, 72 HOURS PRIOR TO THE INSTALLATION PAVEMENT.
4. ALL BACK FILL IN TRENCHES AND FILL FOR THE ROAD BEDS SHALL BE COMPACTED TO 95% OPTIMUM DENSITY.
5. AGGREGATE #4 (NHDOT ITEM 703) SHALL BE WRAPPED IN A SUPPORT MEMBRANE (FILTER FABRIC).



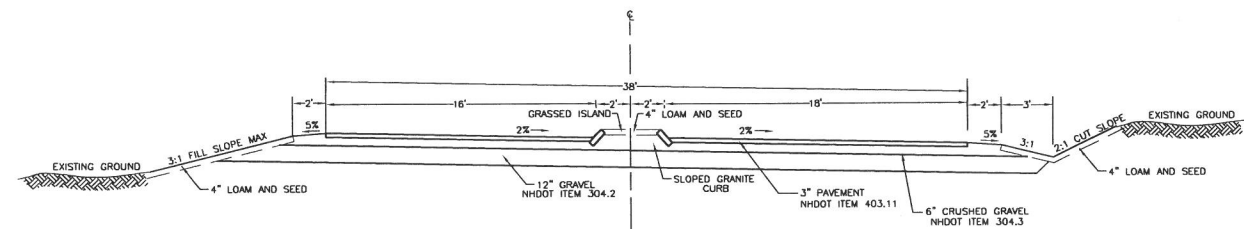
CIVIL ENGINEERS



TWO ROD ROAD DRIVEWAY PLAN VIEW
1" = 20'



TWO ROD ROAD DRIVEWAY PROFILE
1" = 20' (HORZ.) & 1" = 4' (VERT.)



TWO ROD ROAD DRIVEWAY CROSS-SECTION
1" = 5'

DRIVEWAY PLAN & PROFILES
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH
PREPARED FOR:
GRANITE STATE CREDIT UNION
APRIL 2021

FILE NO. 116
PLAN NO. C-3159
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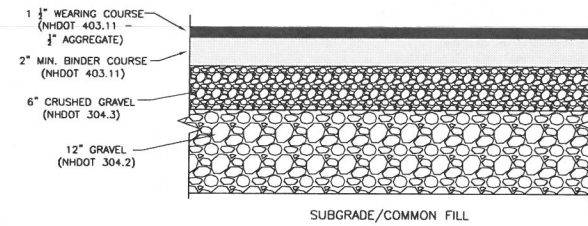
31 MOONEY STREET, ALTON, NH 603-875-3948

NORWAY PLAINS ASSOCIATES, INC.

2 CONTINENTAL BLVD., ROCHESTER, NH 603-335-3948

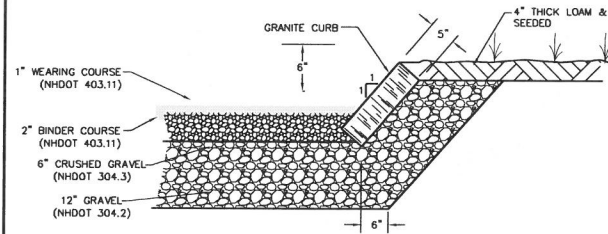
C-6

LAND SURVEYORS

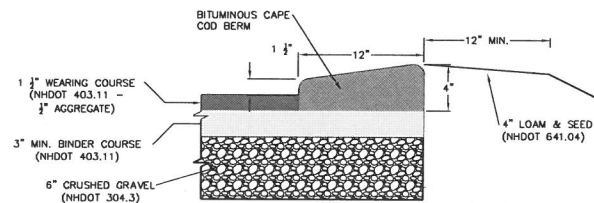


PARKING LOT CROSS-SECTIONS
NOT TO SCALE

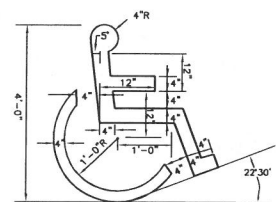
PAVEMENT NOTES:
1. PLACE COMMON FILL IN 12 INCH LIFTS. COMPACT COMMON FILL TO 95% MAXIMUM PROCTOR DENSITY.
2. PLACE GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.
3. PLACE CRUSHED GRAVEL IN MAXIMUM 8 INCH LIFTS. COMPACT TO 95% MAXIMUM PROCTOR DENSITY.
4. PAVEMENT MUST BE INSTALLED IN TWO COURSES, A BINDER COURSE AND A WEARING COURSE.



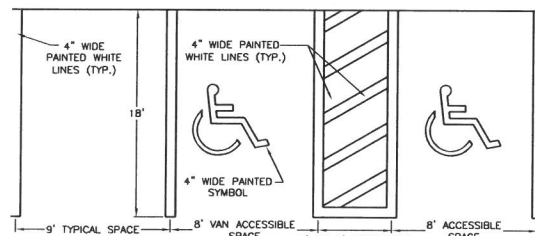
GRANITE SLOPE CURB DETAIL
NOT TO SCALE



BITUMINOUS CAPE COD BERM DETAIL
NOT TO SCALE



ACCESSIBLE SYMBOL



STALL STRIPING DETAIL
NOT TO SCALE

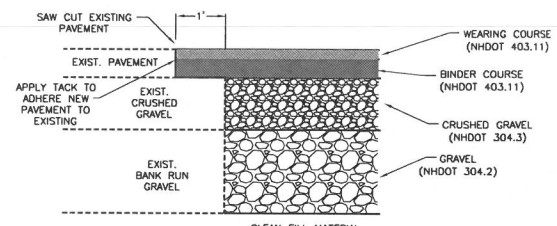
FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

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

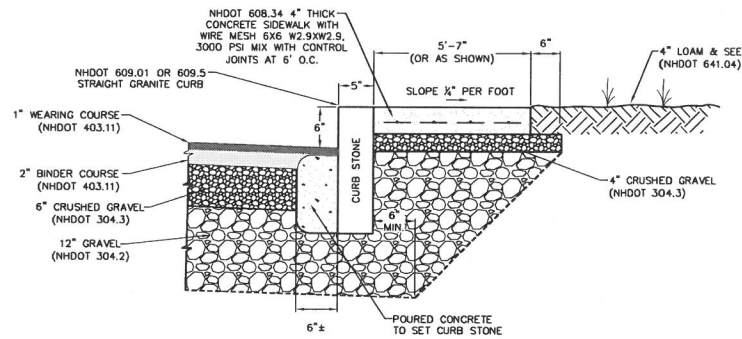


CIVIL ENGINEERS

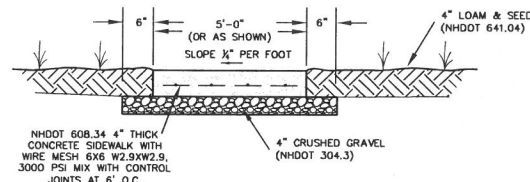
CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITHIN THE PLAN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



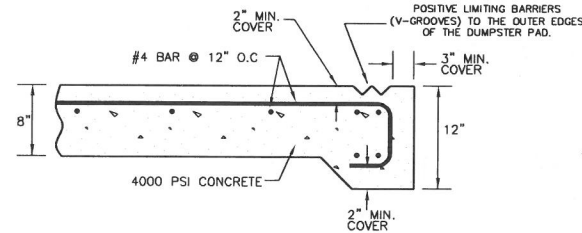
TYPICAL PAVEMENT MATCHING DETAIL
NOT TO SCALE



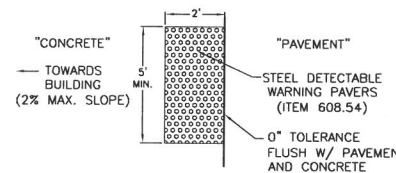
CONCRETE SIDEWALK WITH GRANITE CURB DETAIL
NOT TO SCALE



CONCRETE SIDEWALK DETAIL
NOT TO SCALE



DUMPSTER PAD DETAIL
NOT TO SCALE



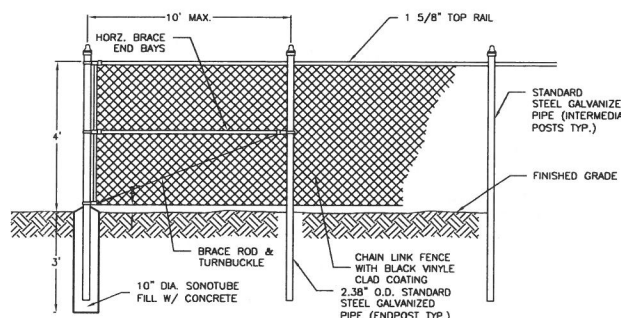
DETECTABLE WARNING PAVER DETAIL
NOT TO SCALE

DETECTABLE WARNING PAVER NOTES:
1. THE MAXIMUM CROSS OF CONCRETE WALKWAY SLOPE IS 2%. THE SLOPE OF THE LANDING SHALL NOT EXCEED 2% IN ANY DIRECTION.
2. TRANSITIONS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
3. DETECTABLE WARNING PAVERS (ITEM 608.54) SHALL BE USED ON CONCRETE RAMPS AS SHOWN. EACH TACTICAL WARNING STRIP PANEL SHALL A TRUNCATED DOMED SURFACE AT LEAST 2'-0" IN WIDTH, MEASURED FROM THE BACK OF THE CURB TIP DOWN, AND 5'-0" IN LENGTH MEASURED PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
4. ALL DETECTABLE WARNING PAVERS SHALL BE CAST IN PLACE ARMOR-TILE TACTILE SYSTEM, YELLOW IN COLOR, OR APPROVED EQUAL.

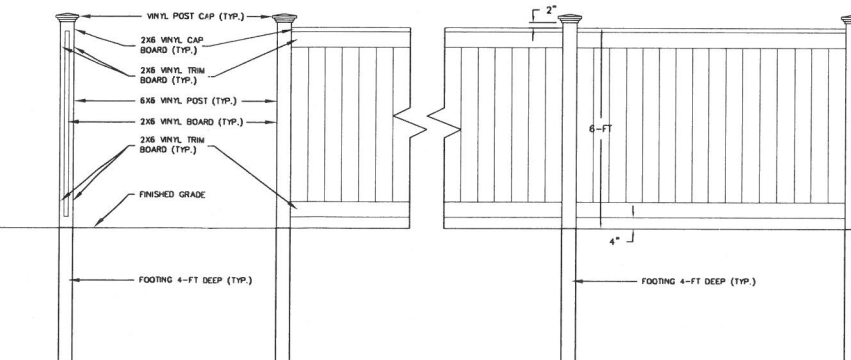
ITEM NO.	SIGN SIZE		TEXT	NO. SIGNS REQ'D
	HEIGHT	WIDTH		
R1-1	30"	30"	STOP	2
R7-8a	18"	12"	RESERVED PARKING	2
R7-8b	6"	12"	VAN ACCESSIBLE	1
R5-1	30"	30"	DO NOT ENTER	4
R6-1	12"	36"	ONE WAY	1
R4-7b	30"	24"	KEEP RIGHT	1
R3-5r	30"	24"	ONLY	1

NOTES:
1. ALL SIGNS SHALL BE PER "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.

SIGN SCHEDULE
NOT TO SCALE



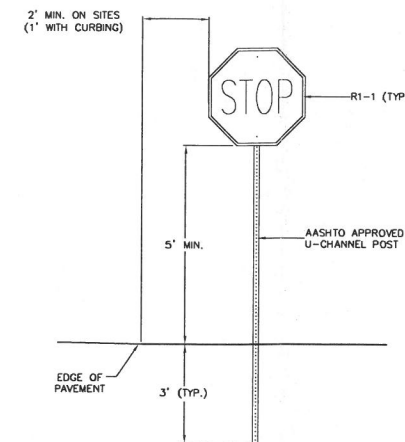
TYPICAL CHAINLINK FENCE
NOT TO SCALE



SECTION

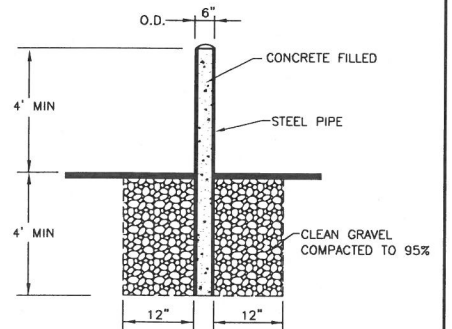
ELEVATION

TYPICAL SOLID VINYL FENCE DUMPSTER ENCLOSURE
SCALE: 1/2"=1'



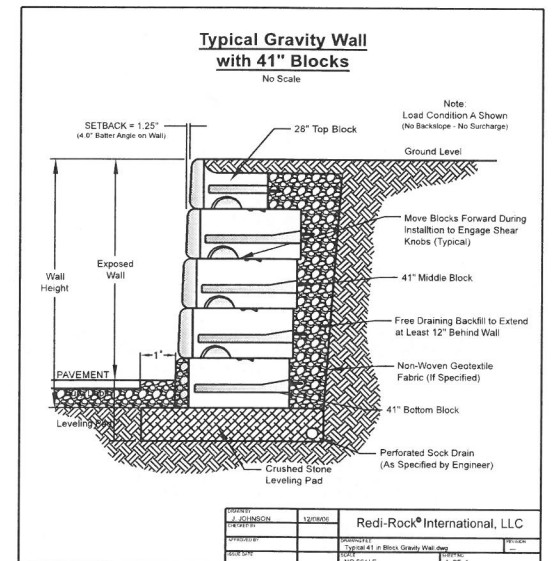
TYPICAL TRAFFIC SIGN
NOT TO SCALE

NOTES:
1. SIGN POST SHALL BE AASHTO APPROVED U-CHANNEL OR OTHER PER AASHTO "SPECIFICATIONS FOR STRUCTURAL SUPPORT OF HIGHWAY SIGNS, LUMINARIES AND SIGNALS", LATEST EDITION.
2. SIGNS SHALL BE MOUNTED 5 FT FROM GROUND TO BOTTOM EDGE WHERE PARKING AND PARKING LOT MOVEMENTS TAKE PLACE.
3. SIGNS SHALL BE PLACED SO THAT NEAREST EDGE IS 2 FT. FROM EDGE OF PAVEMENT UNLESS CURBED.



STEEL BOLLARD DETAIL
NOT TO SCALE

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



TYPICAL BLOCK RETAINING WALL DETAIL
NOT TO SCALE

NOTES:
1. DESIGN OF RETAINING WALLS TO BE PROVIDED BY MANUFACTURE AND INSTALLED PER THE MANUFACTURES REQUIREMENTS.
2. SHOP DRAWINGS SHALL BE SUBMITTED PRIOR TO ORDERING AND APPROVED BY NORWAY PLAINS ASSOCIATES, INC.
3. CHAINLINK FENCE SHALL BE INSTALLED ON TOP OF WALL WHERE THE VERTICAL DROP IS GREATER THAN 2 FEET OR AS REQUIRED BY CODES.

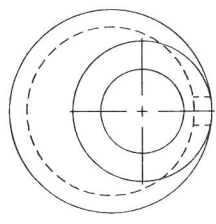
CONSTRUCTION DETAILS
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:
GRANITE STATE CREDIT UNION
APRIL 2021

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

NORWAY PLAINS ASSOCIATES, INC.

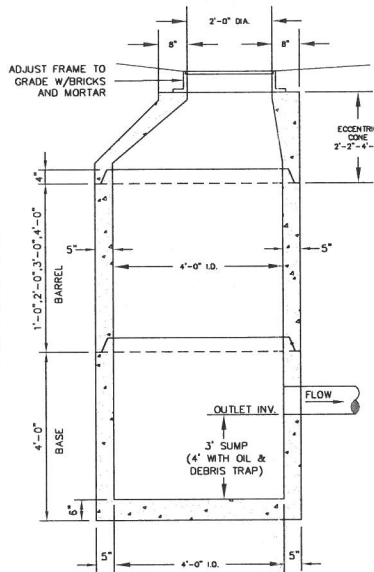
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PLAN VIEW

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

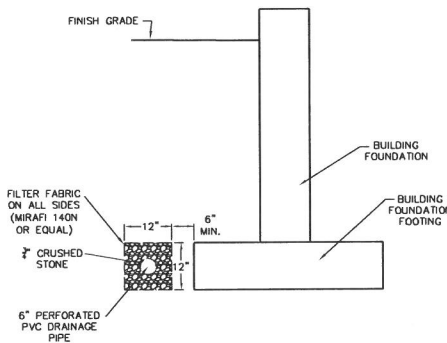
- NOTES:
1. CONCRETE: 4,000 PSI AFTER 28 DAYS.
 2. REINFORCING: SHALL BE PROVIDED FOR H-20 LOADING.
 3. SHIRLAP JOINTS SEALED WITH 1 STRIP OF BUTYL RUBBER SEALANT.
 4. PIPE OPENINGS CAST IN AS REQUIRED.
 5. RISER HEIGHT VARIES 1', 2', 3' OR 4' TO REACH DESIRED DEPTH.
 6. PIPE CONNECTIONS SHALL BE MORTARED.
 7. PRECAST SECTIONS SHALL CONFORM TO ASTM C-478.
 8. SEE SLAB TOP DETAIL FOR STRUCTURES REQUIRING SLAB TOPS, I.E. DOUBLE GRATE AND FRAME STRUCTURES.



SECTION VIEW

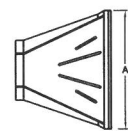
PRE-CAST REINFORCED CATCH BASIN

NOT TO SCALE

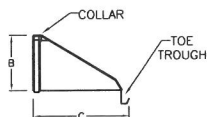


FOUNDATION DRAIN DETAIL

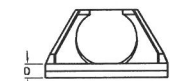
NOT TO SCALE



TOP VIEW



SIDE VIEW

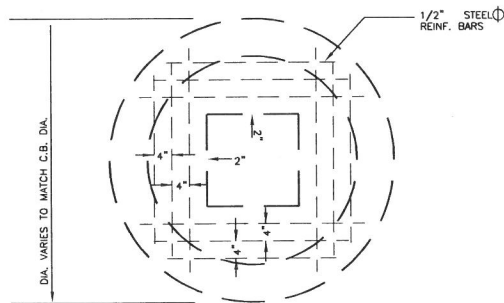


FRONT VIEW

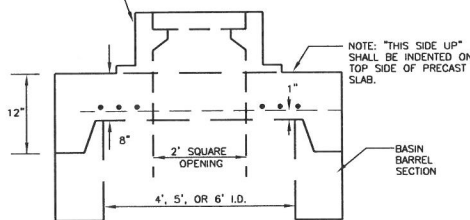
FLARED END SECTION DETAIL

NOT TO SCALE

PIPE DIAMETERS	A	B	C	D
10" / 12"	42	14.5	33	6
15"	41	19	34	6
18"	40	22	43	6
24"	59.5	28	49	6
30"	88	36	63.5	6
36"	88	43	66.5	6



PLAN

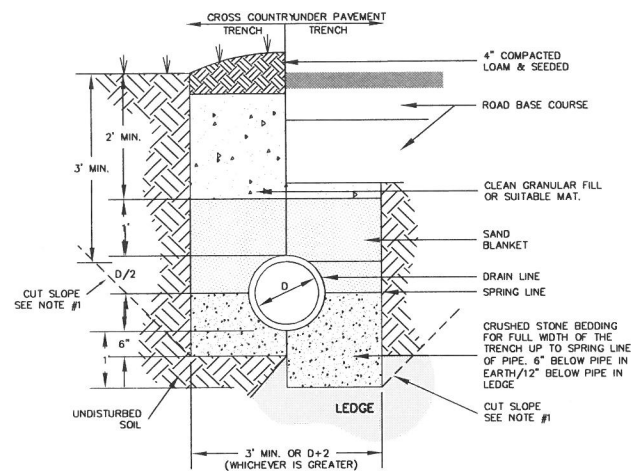


ELEVATION

- NOTE:
1. SLAB TO BE PLACED IN LIEU OF TAPERED SECTION WHERE PIPE WOULD OTHERWISE ENTER INTO TAPERED SECTION OF THE STRUCTURE AND WHERE PERMITTED.
 2. SLAB TOP MAY BE CASTED WITH MINIMUM OR NO INTERLOCKING CHANNEL. HOWEVER, THE CONTRACTOR MUST ENSURE THE SLAB TOP IS FIRMLY ATTACHED TO THE STRUCTURE.

REINFORCED CONCRETE SLAB COVER

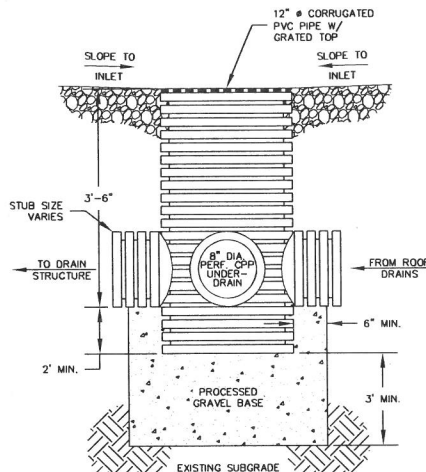
NOT TO SCALE



DRAINAGE PIPE TRENCH INSTALLATION DETAIL

NOT TO SCALE

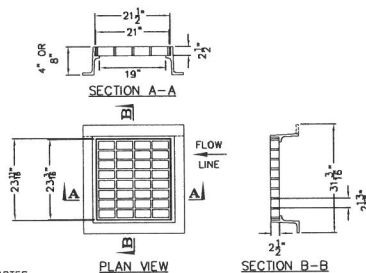
- NOTES:
1. PIPES MAY BE INSTALLED BY EXCAVATING AN OPEN TRENCH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A DEPTH OF 4'-7'. INSTALLATIONS DEEPER THAN 4'-7' REQUIRE THE USE OF A TRENCH BOX.
 2. PIPE MATERIALS SHALL BE AS SPECIFIED ON THE DESIGN PLAN.
 3. SAND BLANKET MAY BE OMITTED FOR REINFORCED CONCRETE PIPE.



- NOTES:
1. AREA DRAINS TO BE ADS PIPE TEE & RISER SECTIONS WITH GRATES, OR EQUAL.
 2. AREA DRAINS SHALL BE SET ON 3 FT OF PROCESSED GRAVEL BASE, COMPACTED TO 95% PROCTOR DENSITY.
 3. USE EITHER CLEAN GRANULAR FILL OR NHDOT CRUSHED GRAVEL FOR THE PROCESSED GRAVEL BASE (SEE C6).

AREA DRAIN DETAIL

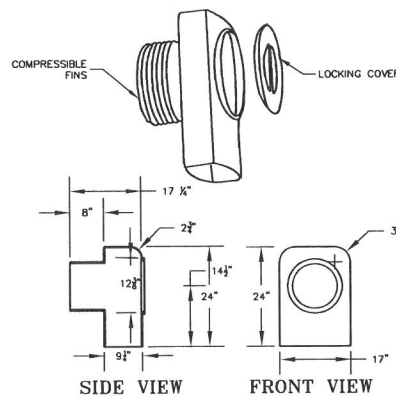
NOT TO SCALE



- NOTES:
1. FRAME AND GRATE SHALL BE CAST IRON.
 2. FRAME AVAILABLE IN 4" OR 8" HEIGHTS.
 3. USE 3 FLANGE FRAME IF INSTALLED ADJACENT TO GRANITE CURB.
 4. ALL DIMENSIONS ARE NOMINAL.

CATCH BASIN TYPE 'B' GRATE DETAIL

NOT TO SCALE



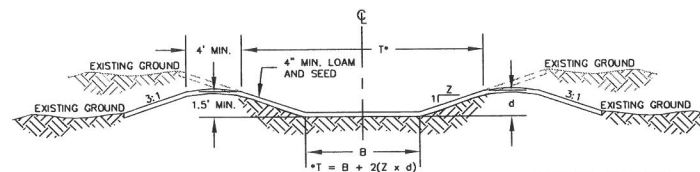
SIDE VIEW

FRONT VIEW

ELIMINATOR CATCH BASIN OIL AND DEBRIS TRAP DETAIL

NOT TO SCALE

- NOTES:
1. HOOD SHALL BE "THE ELIMINATOR" OIL & FLOATING DEBRIS TRAP AS MANUFACTURED BY GROUND WATER RESCUE, INC., QUINCY, MA, TEL. 617-773-1126 ON THE WEB @ WWW.KLEANSTREAM.COM
 2. AVAILABLE IN 8", 10", 12", 15" AND 18" DIAMETERS.



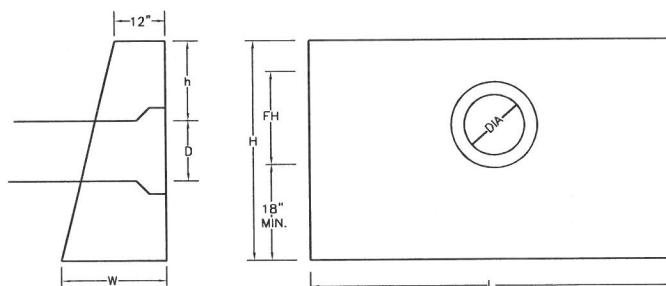
VEGETATED TREATMENT SWALE DETAIL

NOT TO SCALE

- MAINTENANCE NOTES:
1. THE SWALE(S) SHALL BE MOWED WITH THE REST OF THE SITES LAWN AREAS TO PROMOTE HEALTHY GROWTH AND PREVENT THE ENCROACHMENT OF WEEDS AND WOODY VEGETATION. DO NOT MOW GRASS IN SWALE(S) TOO SHORT. THIS WILL REDUCE THE SWALES FILTERING ABILITY.
 2. THE SWALE(S) SHOULD BE FERTILIZED ON AN AS NECESSARY BASIS, TO KEEP THE GRASS HEALTHY. OVER FERTILIZATION COULD RESULT IN THE SWALE(S) BECOMING A SOURCE OF POLLUTION TO THE SURROUNDING WETLAND AREAS.
 3. THE SWALE(S) SHOULD BE INSPECTED PERIODICALLY AND AFTER EVERY MAJOR STORM. RILLS AND DAMAGED AREAS SHOULD BE PROMPTLY REPAIRED AND RE-VEGETATED AS NECESSARY TO PREVENT FURTHER DETERIORATION.

SWALE DIMENSION TABLE

LOCATION	B	d	Z	T
15" RCP OUTLET FROM CB42	7'	2'	3'	19'



DIA. D	HEADWALL LENGHT L	HEADWALL HIGHT H	FILL HIGHT FH	PIPE COVER h	HEADWALL BTM HIGHT 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

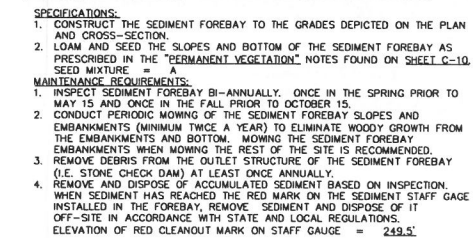
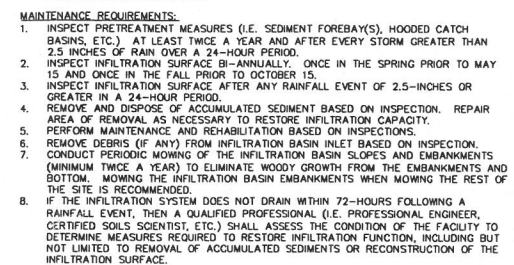
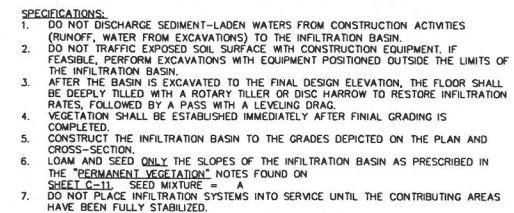
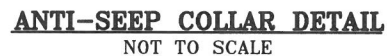
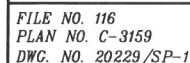
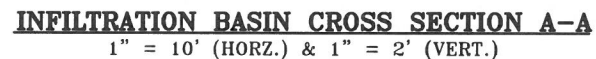
DRAINAGE DETAILS
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148 & 150 FARMINGTON ROAD
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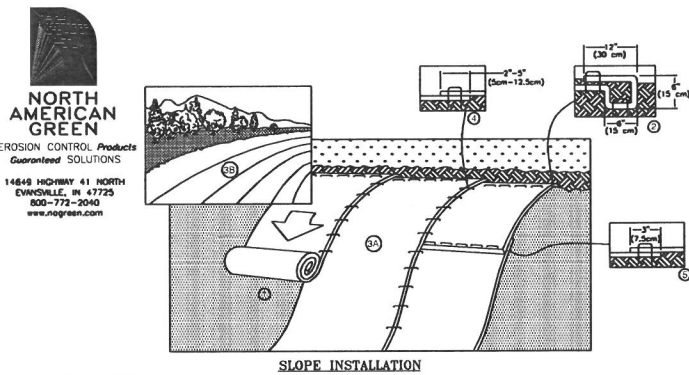
INFILTRATION BASIN DETAILS
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH
PREPARED FOR:
GRANITE STATE CREDIT UNION
APRIL 2021

LAND SURVEYORS



CIVIL ENGINEERS

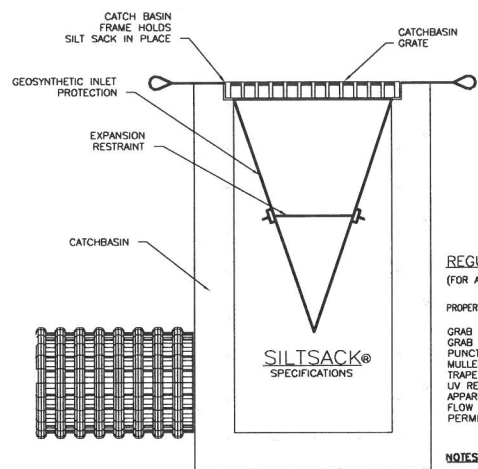
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- MAINTENANCE REQUIREMENTS:**
- ALL BLANKET AND MATS SHALL BE INSPECTED WEEKLY DURING THE CONSTRUCTION PERIOD, AND AFTER ANY RAINFALL EVENT EXCEEDING 1/2 INCH IN A 24-HOUR PERIOD.
 - ANY FAILURE SHALL BE REPAIRED IMMEDIATELY. IF WASHOUT OF THE SLOPE, DISPLACEMENT OF THE MAT, OR DAMAGE TO THE MAT OCCURS, THE AFFECTED SLOPE SHALL BE REPAIRED AND RESEDED, AND THE AFFECTED AREA OF MAT SHALL BE RE-INSTALLED.
- CONSTRUCTION SPECIFICATIONS:**
- MANUFACTURE'S INSTALLATION INSTRUCTIONS:
 - PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 - NOTE: WHEN USING CELL-0-SEED MUST NOT SEED PREPARED AREA. CELL-0-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
 - ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM STAPLES/STAKES SHALL BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
 - CONSECUTIVE RECP'S SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.
 - NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.
 - SITE PREPARATION:
 - PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE COMPLETE CONTACT OF THE PROTECTION MATTING WITH THE SOIL.
 - GRADE AND SHAPE AREA IF INSTALLATION.
 - REMOVE ALL ROCKS, CLODS, TRASH, VEGETATIVE OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED BLANKETS WILL HAVE DIRECT CONTACT WITH THE SOIL.
 - PREPARE SEEDBED BY LOOSENING 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.
 - SEEDING:
 - SEED AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND REVEGETATION. SEEDING AFTER MAT INSTALLATION IS OFTEN SPECIFIED FOR TURF REINFORCEMENT APPLICATIONS. WHEN SEEDING PRIOR TO BLANKET INSTALLATION, ALL CHECK SLOTS AND OTHER AREAS DISTURBED DURING INSTALLATION MUST BE RESEDED.
 - 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



REGULAR FLOW SILTSACK®

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4633	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

NOTES:

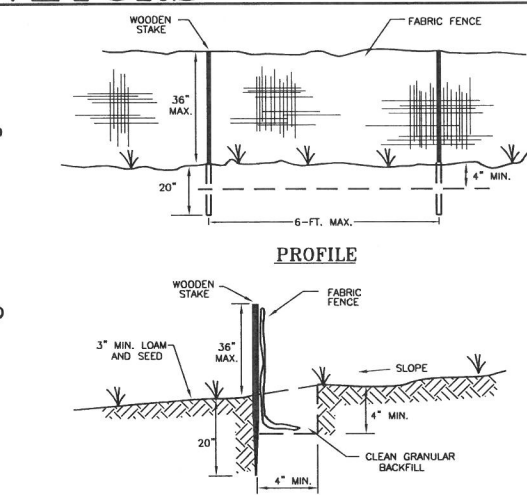
- GEOSYNTHETIC SEDIMENT FILTER TRAP SHALL BE "REGULAR FLOW SILTSACK" OR APPROVED EQUAL. SPECIFICATIONS FOR SILTSACK® ARE DETAILED.
- FILTER TRAPS SHALL BE INSPECTED AFTER EVERY RAIN EVENT OF 0.25" OR GREATER AND SEDIMENTS SHALL BE REMOVED FROM TRAP WHEN SEDIMENT HAS REACHED TWO THIRDS OF THE DEPTH OF THE TRAP, OR IF PONDING OF WATER AT SURFACE BEGINS TO OCCUR. DO NOT PUNCTURE FILTER TRAP TO MITIGATE PONDING.
- INSTALL SILT SACKS IN CATCH BASIN UPON INSTALLATION OF STRUCTURE.

CATCH BASIN GEOSYNTHETIC SEDIMENT TRAP

NOT TO SCALE

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

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



CROSS-SECTION

- MAINTENANCE REQUIREMENTS:**
- FENCES SHALL BE INSPECTED AND MAINTAINED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALLS.
 - SEDIMENT DEPOSITION SHALL BE REMOVED, AT A MINIMUM, WHEN DEPOSITION ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FENCE. SEDIMENT MOVED TO AN APPROPRIATE LOCATION SO THE SEDIMENT IS NOT READILY TRANSPORTED BACK TOWARD THE SILT FENCE.
 - SILT FENCES SHALL BE REPAIRED IMMEDIATELY IF THERE ARE ANY SIGNS OF EROSION OR SEDIMENTATION BELOW THEM. IF THERE ARE SIGNS OF UNDERCUTTING AT THE CENTER OR THE EDGES OF THE BARRIER, OR IMPOUNDING OF LARGE VOLUMES OF WATER BEHIND THEM, SEDIMENT BARRIERS SHALL BE REPLACED WITH A TEMPORARY CHECK DAM.
 - SHALL THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE OF THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
 - ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE PREPARED AND SEED.
 - IF THERE IS EVIDENCE OF END FLOW OR PROPERLY INSTALLED BARRIERS, EXTEND BARRIERS UPHILL OR CONSIDER REPLACING THEM WITH OTHER MEASURES, SUCH AS TEMPORARY DIVERSIONS AND SEDIMENT TRAPS.
 - SILT FENCES HAVE A USEFUL LIFE OF ONE SEASON. ON LONGER CONSTRUCTION PROJECTS, SILT FENCE SHALL BE REPAIRED PERIODICALLY AS REQUIRED TO MAINTAIN EFFECTIVENESS.
- CONSTRUCTION SPECIFICATIONS:**
- FENCES SHALL BE USED IN AREAS WHERE EROSION WILL OCCUR ONLY IN THE FORM OF SHEET EROSION AND THERE IS NO CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY ABOVE THE FENCE. SEDIMENT BARRIERS SHALL BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM.
 - THE MAXIMUM CONTRIBUTING DRAINAGE AREA ABOVE THE FENCE SHALL BE LESS THAN 1 ACRE PER 100 LINEAR FEET OF FENCE.
 - THE MAXIMUM LENGTH OF SLOPE ABOVE THE FENCE SHALL BE 100 FEET.
 - THE MAXIMUM SLOPE ABOVE THE FENCE SHALL BE 2:1.
 - FENCES SHALL BE INSTALLED FOLLOWING THE CONTOUR OF THE LAND AS CLOSELY AS POSSIBLE, AND
 - THE ENDS OF THE FENCE SHALL BE FLARED UPSLOPE.
 - THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 4 INCHES IN DEPTH AND INCHES IN WIDTH IN A TRENCH EXCAVATED INTO THE GROUND, OR IF SITE CONDITIONS INCLUDE FROZEN GROUND, LEDGE, OR THE PRESENCE OF HEAVY ROOTS, THE BASE OF THE FABRIC SHALL BE EMBEDDED WITH A MINIMUM THICKNESS OF 8 INCHES OF 3/4-INCH STONE.
 - THE SOIL SHALL BE COMPACTED OVER THE EMBEDDED FABRIC.
 - SUPPORT POSTS SHALL BE SIZED AND ANCHORED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS WITH MAXIMUM POST SPACING OF 6 FEET.
 - ADJOINING SECTIONS OF THE FENCE SHALL BE OVERLAPPED BY A MINIMUM OF 6 INCHES (24 INCHES IS PREFERRED), FOLDED AND STAPLED TO A SUPPORT POST. IF METAL POSTS ARE USED, FABRIC SHALL BE WIRE-TIED DIRECTLY TO THE POSTS WITH THREE DIAGONAL TIES.
 - SILT FENCING SHALL NOT BE STAPLED OR NAILED TO TREES.
 - THE FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER.
 - THE FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 DEGREES FAHRENHEIT TO 120 DEGREES FAHRENHEIT.
 - POSTS FOR SILT FENCES SHALL BE EITHER 4-INCH DIAMETER WOOD OR 1.33 POUNDS PER LINEAR FOOT STEEL WITH A MINIMUM LENGTH OF 5 FEET. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM. POSTS SHALL BE PLACED ON THE DOWN SLOPE SIDE OF THE FABRIC.
 - THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES AS HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.
 - THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL, CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED.
 - A MANUFACTURED SILT FENCE SYSTEM WITH INTEGRAL POSTS MAY BE USED.
 - POST SPACING SHALL NOT EXCEED 6 FEET.
 - A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UP GRADIENT FROM THE BARRIER.
 - THE STANDARD STRENGTH OF FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE POST, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH, THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
 - THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
 - SILT FENCE MAY BE INSTALLED BY "SLICING" USING MECHANICAL EQUIPMENT SPECIFICALLY DESIGNED FOR THIS PROCEDURE. THE SLICING METHOD MINIMALLY DISRUPTS THE SOIL UPWARD AND SLIGHTLY DISPLACES THE SOIL, MAINTAINING THE SOIL'S PROFILE AND CREATING AN OPTIMAL CONDITION FOR SUBSEQUENT MECHANICAL COMPACTION.
 - SILT FENCES SHALL BE INSTALLED WITH "SMILES" OR "J-HOOKS" TO REDUCE THE DRAINAGE AREA THAT ANY SEGMENT WILL IMPOUND.
 - THE ENDS OF THE FENCE SHALL BE TURNED UPHILL.
 - SILT FENCES PLACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 6 FEET FROM THE TOE TO ALLOW SPACE FOR SHALLOW PONDING AND TO ALLOW FOR MAINTENANCE ACCESS WITHOUT DISTURBING THE SLOPE.
 - SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.

SILTATION CONTROL FENCE DETAIL

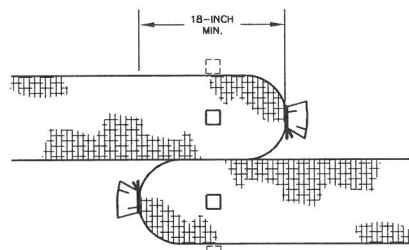
NOT TO SCALE

TEMPORARY VEGETATION SEEDING RECOMMENDATIONS

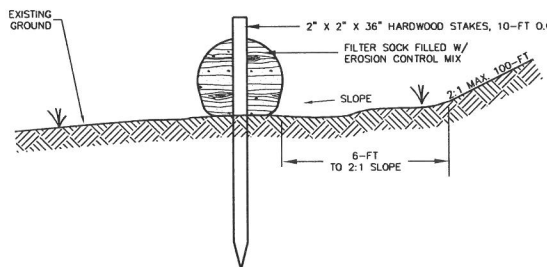
SPECIES	PER ACRE BUSHELS (BU)	PER 1,000-SF	REMARKS
WINTER RYE	2.5 BU OR 112 LBS.	2.5 LBS.	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	2.5 BU OR 80 LBS.	2.0 LBS.	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED 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 1-1
- MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)



FILTER SOCK CONNECTION PLAN VIEW



FILTER SOCK CROSS-SECTION

CONTINUOUS CONTAINED BERM (FILTER SOCK ALTERNATIVE):

- AN ALTERNATIVE PRODUCT, THE CONTINUOUS CONTAINED BERM (OR "FILTER SOCK") CAN BE AN EFFECTIVE SEDIMENT BARRIER AS IT ADDS CONTAINMENT AND STABILITY TO A BERM OF EROSION CONTROL MIX.
- IN THE EVENT THAT USE OF CONTINUOUS CONTAINED BERM IS DESIRED, THE PRODUCT SELECTED SHOULD BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER.
- INSTALLATION OF CONTINUOUS CONTAINED BERMS SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE MANUFACTURER.

MAINTENANCE REQUIREMENTS:

- FILTER SOCK MAINTENANCE SHALL FOLLOW THE SAME SCHEDULE AS EROSION CONTROL MIX BERMS.

CONSTRUCTION SPECIFICATIONS:

- COMPOSITION OF THE EROSION CONTROL MIX SHALL EITHER BE THE SAME AS EROSION CONTROL MIX BERM MATERIAL OR AS SPECIFIED BY THE FILTER SOCK MANUFACTURER.
- THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR.
- IT MAY BE NECESSARY TO CUT TALL GRASSES AND WOODY 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.
- FILTER SOCK DIAMETER (HEIGHT) SHALL BE PER THE MANUFACTURER RECOMMENDATION FOR THE AREA OF INSTALLATION.

CONTINUOUS CONTAINED BERM "FILTER SOCK" DETAIL

NOT TO SCALE

TEMPORARY VEGETATION:

SPECIFICATIONS:

SITE PREPARATION:

- INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.
- GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
- RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.
- ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

SEEDBED PREPARATION:

- STONES AND TRASH SHALL BE REMOVED SO AS NOT TO INTERFERE WITH THE SEEDING AREA.
- WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES 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)*

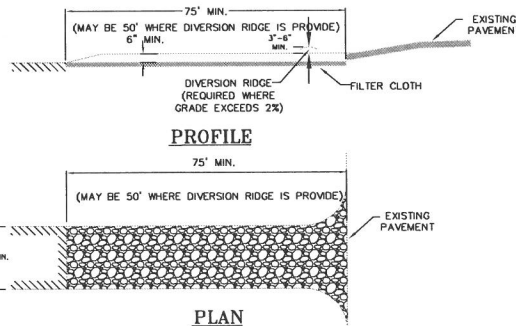
*LOW PHOSPHATE FERTILIZER (6-0-4) OR EQUIVALENT

SEEDING:

- APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL CULTIPACKER TYPE SEEDER OR HYDRO SEEDER (SLURRY INCLUDING SEED AND FERTILIZER). NORMAL SEEDING DEPTH IS FROM 1/4 TO 1/2 INCH. HYDROSEEDING THAT INCLUDES MULCH MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.
- TEMPORARY SEED SHALL TYPICALLY OCCUR PRIOR TO SEPTEMBER 15.
- AREAS UNDECOVERED 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 NHSSM, VOL. 3.
- VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

MAINTENANCE REQUIREMENTS:

- 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 RESEDED 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 RESEDED, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.



TEMPORARY CONSTRUCTION EXIT

NOT TO SCALE

MAINTENANCE REQUIREMENTS:

- 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 THEN BE RECONSTRUCTED.
- THE CONTRACTOR SHALL SWEEP THE PAVEMENT AT EXITS WHENEVER SOIL MATERIALS ARE TRACKED ONTO THE ADJACENT PAVEMENT OR TRAVELED WAY.
- WHEN WHEEL WASHING IS REQUIRED, IT SHALL BE CONDUCTED ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAINS INTO AN APPROVED SEDIMENT-TRAPPING DEVICE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERWAYS.

CONSTRUCTION SPECIFICATIONS:

- THE MINIMUM STONE USED SHALL BE 3-INCH CRUSHED STONE.
- 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 GREATER.
- THE PAD SHALL SLOPE 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.
- NATURAL DRAINAGE THAT CROSSES THE LOCATION OF THE STONE PAD SHALL BE INTERCEPTED AND PIPED BENEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET PROTECTION.

TEMPORARY EROSION AND SEDIMENTATION CONTROLS

TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:

GRANITE STATE CREDIT UNION

APRIL 2021

C-10

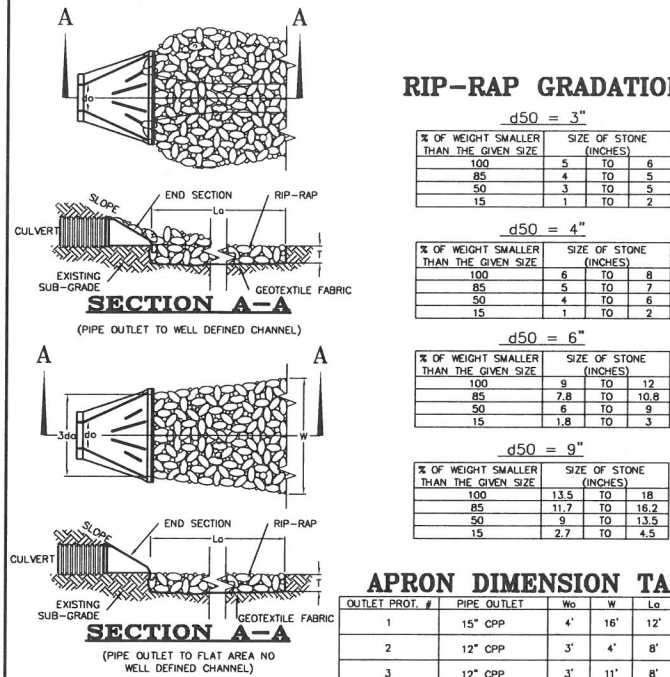
NORWAY PLAINS ASSOCIATES, INC.

2 Continental Blvd., Rochester, N.H. 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 HYDROLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITHIN 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.

RIP-RAP GRADATION



APRON DIMENSION TABLE

OUTLET PROT. #	PIPE OUTLET	W _o	W	L _o	T	d50
1	15" CPP	4'	16'	12'	9"	9"
2	12" CPP	3'	4'	8'	9"	3"
3	12" CPP	3'	11'	8'	9"	3"

- NOTES:**
- ALL PIPE CULVERTS SHALL HAVE END SECTIONS OR HEADWALLS. END SECTION MATERIAL AND MANUFACTURER SHALL MATCH THAT OF THE PIPE CULVERT.
 - THE LARGEST RIP-RAP SIZE DETERMINED DURING HYDROLOGIC ANALYSIS HAS BEEN USED FOR ALL OUTLETS FOR ECONOMY AND SIMPLICITY.
 - APRON LENGTHS, WIDTHS AND THICKNESSES HAVE BEEN ROUNDED UP TO WHOLE NUMBERS FOR EASE OF CONSTRUCTION.

CONSTRUCTION SPECIFICATIONS:

- PREPARE THE SUB-GRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC, AND RIP-RAP TO THE GRADES SHOWN ON THE PLANS.
- MINIMUM 6" SAND/GRAVEL BEDDING OR GEOTEXTILE FABRIC REQUIRED UNDER ALL ROCK RIP-RAP.
- THE ROCK OR GRAVEL USED FOR FILTER OR RIP-RAP SHALL CONFORM TO THE SPECIFIED GRADATION.
- GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF ROCK RIP-RAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO (2) PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
- STONE FOR THE RIP-RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.
- RIP-RAP SIZE CHOSEN FOR THE WORST CASE OF ALL OUTLETS. ALL RIP-RAP USED FOR PIPE OUTLET PROTECTION WILL HAVE THE SAME GRADATION AND THICKNESS.

MAINTENANCE NOTES:

- OUTLETS SHALL BE INSPECTED AND CLEANED ANNUALLY AND AFTER ANY MAJOR STORM EVENT. ANY EROSION OR DAMAGE TO THE RIP-RAP SHALL BE REPAIRED IMMEDIATELY.
- THE CHANNEL IMMEDIATELY DOWNSTREAM FROM THE OUTLET SHOULD BE CHECKED TO SEE IF NO EROSION IS OCCURRING.
- THE DOWNSTREAM CHANNEL SHOULD BE KEPT CLEAR OF OBSTRUCTIONS SUCH AS FALLEN TREES, DEBRIS, AND SEDIMENT THAT COULD CHANGE FLOW PATTERNS AND/OR TAILWATER DEPTHS ON THE PIPES. REPAIRS MUST BE CARRIED OUT IMMEDIATELY TO AVOID ADDITIONAL DAMAGE TO THE OUTLET PROTECTION APRON.

PIPE OUTLET PROTECTION DETAIL

DUST CONTROL PRACTICES:

- APPLY DUST CONTROL MEASURES AS NECESSARY TO MAINTAIN CONTROL OF DUST ON SITE.
- WATER APPLICATION:**
 - 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.
- STONE APPLICATION:**
 - COVER SURFACE WITH CRUSHED OR COARSE GRAVEL.
 - IN AREAS NEAR WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED AGGREGATE.
- REFER TO "NEW HAMPSHIRE STORMWATER 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.
- PROTECT ALL STOCKPILES FROM STORMWATER RUN-ON USING TEMPORARY PERIMETER MEASURES SUCH AS DIVERSIONS, BERMS, SANDBAGS OR OTHER APPROVED PRACTICES.
- STOCKPILES SHALL BE SURROUNDED BY SEDIMENT BARRIERS AS DESCRIBED ON THE PLANS AND IN NHSM VOL. 3 TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILE.
- IMPLEMENT EROSION CONTROL PRACTICES AS APPROPRIATE ON ALL STOCKPILED MATERIAL.
- PLACE BAGGED MATERIALS ON PALLETS OR UNDERCOVER.

PROTECTION OF INACTIVE STOCKPILES:

- INACTIVE SOIL STOCKPILES SHALL BE COVERED WITH ANCHORED TARPS OR PROTECTED WITH SOIL STABILIZATION MEASURES (TEMPORARY SEED AND MULCH OR OTHER TEMPORARY STABILIZATION PRACTICE) AND TEMPORARY PERIMETER SEDIMENT BARRIERS (I.E. SILT FENCE, ETC.) AT ALL TIMES.
- INACTIVE STOCKPILES OF CONCRETE RUBBLE, ASPHALT, CONCRETE RUBBLE, AGGREGATE MATERIALS, AND SIMILAR MATERIALS SHALL BE PROTECTED WITH TEMPORARY SEDIMENT PERIMETER 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:

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

PERMANENT VEGETATION:

SPECIFICATIONS:

SITE PREPARATION:

- INSTALL NEEDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.
- GRADE AS NEEDED FOR THE ACCESS OF EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
- RUNOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.
- ON SLOPES 4:1 OR STEEPER, THE FINAL PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE RUNOFF.

SEEDBED PREPARATION:

- WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OPERATION SHALL BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY AND SILT SOILS SHALL BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
- REMOVE FROM THE SURFACE 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.
- INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE TILLED AND FIRMED AS ABOVE.
- WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF 2 INCHES 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 TUNING 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:

- INOCULATE ALL LEGUME SEED WITH THE CORRECT TYPE OF INOCULANT.
- APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER TYPE SEEDER OR HYDROSEEDER (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.
- WHERE FEASIBLE EXCEPT WHERE EITHER CULTIPACKER TYPE SEEDER OR HYDROSEEDER IS USED, THE SEEDBED SHALL BE 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 VETCH IS SEEDING 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 NHSM, VOL. 3, AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
- AREAS SEEDING 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 NHSM, VOL. 3.
- VEGETATED GROWTH COVERING AT LEAST 85% OF THE DISTURBED AREA SHALL BE ACHIEVED PRIOR TO OCTOBER 15. IF THIS CONDITION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

HYDROSEEDING:

- 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.
- SLOPES MUST BE NO STEEPER THAN 2:1 (2 FEET HORIZONTALLY BY 1 FOOT VERTICALLY).
- LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY 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 GAINED BY USING STRAW MULCH AND HOLDING IT WITH ADHESIVE MATERIALS OR 500 POUNDS PER ACRE OF WOOD FIBER MULCH.
- SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

MAINTENANCE REQUIREMENTS:

- PERMANENT SEEDING 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.
- SEEDING AREAS SHALL BE MOWED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION. MOWING HEIGHT AND FREQUENCY DEPEND OF TYPE OF GRASS COVER.
- BASED ON INSPECTION, AREAS SHALL BE RESEED TO ACHIEVE FULL STABILIZATION OF 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 RESEEDING, WITH OTHER TEMPORARY MEASURES (I.E. MULCH, ETC.) USED TO PROVIDE EROSION PROTECTION DURING THE PERIOD OF VEGETATION ESTABLISHMENT.

PERMANENT VEGETATION SEEDING RECOMMENDATIONS

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

SOURCES:

- NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLES 4-2 AND 4-3
- MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992)

GENERAL 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 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 HAVE BEEN INSTALLED; OR,
 - EROSION CONTROL BLANKETS HAVE BEEN INSTALLED.
- TEMPORARY STABILIZATION:**
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED.
- PERMANENT STABILIZATION:** ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE TEMPORARILY STABILIZED AS SOON AS PRACTICABLE BUT NO 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.
- MAXIMUM AREA OF DISTURBANCE:** ALL AREAS OF EXPOSED OR DISTURBED SOIL SHALL BE PERMANENTLY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 3 DAYS FOLLOWING FINAL GRADING.
- SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, NO MORE THAN 5 ACRES SHALL BE DISTURBED (NOT STABILIZED) AT ANY TIME.** ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION.
 - FLAG OR OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED.
 - EXCLUDE VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE NATURAL VEGETATION.
 - ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN DEPICTED ON SHEET C-3.
 - ALL EROSION AND SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN DEPICTED ON SHEET C-4.
 - TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN THE AMOUNT NECESSARY TO COMPLETE FINISHED GRADING AND BE PROTECTED FROM EROSION.
 - STOCKPILES, BORROW AREAS AND SPOILS SHALL BE STABILIZED AS DESCRIBED UNDER "SOIL STOCKPILE PRACTICES".
 - SLOPES SHALL NOT BE CREATED SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJACENT PROPERTIES WITHOUT ADEQUATE PROTECTION AGAINST SEDIMENTATION, EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED DAMAGE.
 - AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VENDOR, ROOTS AND/OR OTHER OBSTRUCTIVE MATERIALS.
 - AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3-INCHES PRIOR TO PLACEMENT OF TOPSOIL. TOPSOIL SHALL BE PLACED WITHOUT SIGNIFICANT COMPACTORS TO PROVIDE A LOOSE BEDDING FOR PLACEMENT OF SEED.
 - ALL FILLS SHALL BE COMPACTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, SITE UTILITIES, CONDUITS AND OTHER FACILITIES, SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
 - IN GENERAL, FILLS SHALL BE COMPACTED IN LAYERS RANGING FROM 6 TO 24 INCHES IN THICKNESS. THE CONTRACTOR SHALL REVIEW THE PROJECT GEOTECHNICAL REPORT AND/OR THE "PROJECT SPECIFIC PHASING NOTES" FOR SPECIFIC GUIDANCE.
 - ANY AND ALL FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS (LARGER THAN 3/4 THE DEPTH OF THE LIFT BEING INSTALLED), LOGS, STUMPS, BUILDING DEBRIS, FROZEN MATERIAL AND OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY LIFTS.
 - FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE (I.E. CLAY, SILT) MATERIALS ARE SUSCEPTIBLE TO ACCELERATED SETTLEMENT AND POTENTIAL ACCELERATED EROSION. WORK IN AREAS OF THESE MATERIALS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER.
 - THE OUTER FACE OF THE FILL SLOPE SHALL BE ALLOWED TO STAY LOOSE, NOT ROLLED OR COMPACTED, OR BLADE SMOOTHED. A BULLDOZER MAY RUN UP AND DOWN THE FILL SLOPE SO THE DOZER TRACKS (CLEAT TRACKS) CREATE GROOVES PERPENDICULAR TO THE SLOPE. IF THE SOIL IS NOT TOO MOIST, EXCESSIVE COMPACTION WILL NOT OCCUR. SEE "SURFACE ROUGHENING" IN THE NHSM, VOL. 3.
 - ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE INFILTRATION AND FACILITATE VEGETATION ESTABLISHMENT.
 - USE SLOPE BREAKS, SUCH AS DIVERSIONS, BENCHES, OR CONTOUR FURROWS AS APPROPRIATE TO REDUCE THE LENGTH OF CUT-FILL SLOPES TO LIMIT SHEET AND RILL EROSION AND PREVENT GULLY EROSION. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF CONSTRUCTION.
 - SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE EVALUATED BY A PROFESSIONAL ENGINEER (PREFERABLY THE DESIGN ENGINEER) TO DETERMINE IF THE PROPOSED DESIGN SHALL BE REVISED TO PROPERLY MANAGE THE CONDITION.
 - STABILIZE ALL GRADED AREAS (AS ABOVE) WITH VEGETATION, CRUSHED STONE, COMPOST BLANKET, OR OTHER GROUND COVER AS SOON AS GRADING IS COMPLETE OR IF WORK IS INTERRUPTED FOR 21 WORKING DAYS OR MORE. USE MULCH OR OTHER APPROVED METHODS TO STABILIZE AREAS TEMPORARILY WHERE FINAL GRADING MUST BE DELAYED.
 - ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
 - 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" (NHSM, VOL. 3)

PROJECT SPECIFIC CONSTRUCTION PHASING:

- REFER TO THE "GENERAL CONSTRUCTION PHASING" NOTES PRIOR TO COMMENCING CONSTRUCTION IN ACCORDANCE WITH THE FOLLOWING PHASING. THE "GENERAL CONSTRUCTION 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 PERIMETER OF THE CONSTRUCTION SITE AS DEPICTED ON SHEET C-4 PRIOR TO EARTH MOVING OPERATIONS.
- INSTALL ORANGE SNOW FENCE AROUND THE PERIMETER OF THE INFILTRATION BASIN AND THE FENCE SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OF THE BASINS HAS STARTED.
- CLEAR, GRUB AND STRIP THE SITE. STUMPS, BRUSH AND OTHER ORGANIC WASTE SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH STATE AND LOCAL REGULATION.
- INSTALL A TEMPORARY CONSTRUCTION EXIT AT THE LOCATION OF THE PROPOSED ROADWAY CONNECTION TO ROAD NAME. MAINTAIN AS DIRECTED BY THE TEMPORARY CONSTRUCTION EXIT DETAIL.
- STOCKPILE STRIPPED TOPSOIL AND CUT MATERIAL TO BE REUSED ON SITE IN AN APPROPRIATE LOCATION IN ACCORDANCE WITH THE "SOIL STOCKPILES PRACTICES". MAINTAIN THE STOCKPILES AS DIRECTED IN THE "SOIL STOCKPILE PRACTICES".
- PERFORM THE NECESSARY CUTS AND FILLS TO CONSTRUCT THE INFILTRATION BASIN AS DEPICTED ON SHEET C-3 AND IN ACCORDANCE WITH THE INFILTRATION BASIN DETAILS SHOWN ON SHEET C-5.
- CONSTRUCT THE GRAVEL WETLANDS BASIN, SEDIMENT FOREBAY AND OUTLET PROTECTION. LOAM SEED AND MULCH THE SIDE SLOPES OF THE BASIN AS DIRECTED IN THE INFILTRATION BASIN DETAILS.
- ALL DITCHES/SWALES/AND BASINS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- PERFORM THE NECESSARY CUTS AND FILLS TO SUBGRADE IN THE BUILDING AND PARKING LOT AREAS.
 - INSTALL REQUIRED FILLS IN MAXIMUM 8-INCH LIFTS AND COMPACT TO 95% PROCTOR DENSITY.
- AS SUBGRADE IS ACHIEVED INSTALL REMAINING SEDIMENT CONTROL BARRIERS WITHIN THE SITE (I.E. ADDITIONAL SILT FENCE, CHECK DAMS AND SEDIMENT CONTROLS AND CATCH BASINS, ETC.)
- INSTALL ALL UTILITIES AND CLOSURE DRAINAGE SYSTEM COMPONENTS (I.E. PIPE CULVERTS, CATCH BASINS AND REMAINING WATER MAIN) PER THE CORRESPONDING DETAILS AND AS SHOWN ON SHEET C-3 AND C-5. AS EACH STRUCTURE IS COMPLETED INSTALL THE CORRESPONDING SEDIMENT CONTROL MEASURE.
- CONSTRUCT THE INFILTRATION BASIN AND OUTLET PROTECTION. LOAM SEED AND MULCH THE SIDE SLOPES OF THE BASIN AS DIRECTED IN THE INFILTRATION BASIN DETAILS AND TEMPORARY SEDIMENT CONTROL BARRIER DEPICTED ON SHEET C-4.
- ALL CUT AND FILL SLOPES AND LAWN AREAS NOT TO BE PAVED SHALL BE LOAMED AND SEEDED FOR PERMANENT VEGETATION AND STABILIZATION AS DESCRIBED UNDER THE "PERMANENT VEGETATION PRACTICES" WITHIN 3 DAYS OF ACHIEVING FINAL GRADE.
- INSTALL ALL GRAVEL BASE AND CRUSHED GRAVEL MATERIALS FOR THE PARKING AREA AS SPECIFIED IN THE CORRESPONDING DETAILS.
- THE PARKING AREAS SHALL BE STABILIZED (CONSTRUCTED TO GRAVEL BASE COURSE) WITHIN 3 DAYS OF ACHIEVING FINISHED SUBGRADE ELEVATIONS.
- INSTALL PAVEMENT SURFACES AS SOON AS POSSIBLE AFTER THE INSTALLATION OF THE GRAVEL BASE AND CRUSHED GRAVEL. IN ORDER TO LIMIT THE SOIL EROSION AND POLLUTION OF THE GRAVEL MATERIALS WITH ORGANIC MATERIALS, IN NO CASE SHALL AREAS TO BE PAVED BE LEFT UNPROTECTED THROUGH OUT THE WINTER MONTHS.
- ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE. IN NO CASE SHALL ANY DISTURBED AREA BE LEFT UN-STABILIZED FOR LONGER THAN 21 DAYS. IF NECESSARY TEMPORARY STABILIZATION MEASURES AS DISCUSSED IN THE "GENERAL CONSTRUCTION PHASING NOTES" AND NHSM, VOL. 3 SHOULD BE EMPLOYED.
- MAINTENANCE AND INSPECTION:**
 - DURING CONSTRUCTION ALL TEMPORARY AND PERMANENT SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES SHOULD BE INSPECTED WEEKLY, AFTER EVERY 1/2 INCH OF RAINFALL, AND ANNUALLY. EXCESS SEDIMENT SHOULD BE REMOVED FROM TEMPORARY SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES WHEN IT REACHES PRESCRIBED THRESHOLDS DISCUSSED IN THE DETAILS FOR EACH PRACTICE.
 - ALL DAMAGED TEMPORARY AND PERMANENT SEDIMENT, EROSION CONTROL AND STORMWATER MANAGEMENT PRACTICES SHOULD BE REPAIRED OR REPLACED IMMEDIATELY UPON NOTICE.
 - SEDIMENT SHALL BE DISPOSED OF PROPERLY EITHER ON SITE OR OFF SITE.
- PROJECT COMPLETION AND STABILIZATION:**
 - UPON PROJECT COMPLETION, ONCE THE SITE IS DEEMED STABILIZED (VEGETATION IS GERMINATED), THE TEMPORARY SEDIMENT CONTROL BARRIERS AND EROSION CONTROL PRACTICES SHALL BE REMOVED. ANY DISTURBANCE CREATED DURING REMOVAL SHALL BE REPAIRED IN AN APPROPRIATE MANNER.
 - ACCUMULATED SEDIMENT SHALL BE REMOVED FROM ALL ON SITE CATCH BASINS AND THE SEDIMENT FOREBAYS TO THE GRAVEL WETLANDS BASIN.

WINTER STABILIZATION & CONSTRUCTION PRACTICES:

MAINTENANCE REQUIREMENTS:

- 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.
- 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 ASCERTAIN THE CONDITION OF THE VEGETATION 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 DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 15.

- THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO 1-ACRE AND SHALL BE PROTECTED AGAINST EROSION BY THE METHODS DISCUSSED IN NHSM, VOL. 3 AND ELSEWHERE IN THIS PLAN SET, PRIOR TO ANY THAW OR SPRING MELT EVENT.
- STABILIZATION AS FOLLOWS SHALL BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS.
 - 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 15, SHALL BE SEEDING AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX (CREP TO MINIMUM 100 FT. LONG).
 - ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15 SHALL BE SEEDING AND COVERED WITH A PROPERLY INSTALLED EROSION CONTROL BLANKET OR WITH A MINIMUM OF 4 INCHES OF EROSION CONTROL MIX, UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. NOTE THAT COMPOST BLANKETS SHALL NOT EXCEED 2 INCHES IN THICKNESS OR THEY MAY OVERHEAT.
- ALL STONE COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
- INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH.
- ALL MULCH APPLIED DURING WINTER SHALL BE ANCHORED (I.E. BY NETTING, TRACKING, WOOD CELLULOSE FIBER).
- WITHIN 24 HOURS OF STOCKPILING SOIL MATERIALS SHALL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A 4 INCH LAYER OF EROSION CONTROL MIX. 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 WETLAND OR OTHER WATER RESOURCE AREA.
- FROZEN MATERIAL (I.E. FROST LAYER REMOVED DURING WINTER CONSTRUCTION) SHALL BE STOCKPILED SEPARATELY AND IN A LOCATION AWAY FROM ANY AREA NEEDING PROTECTION. FROZEN MATERIAL STOCKPILES CAN MELT IN SPRING AND BECOME UNWORKABLE AND DIFFICULT TO TRANSPORT.
- INSTALLATION OF EROSION CONTROL BLANKETS SHALL NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH OR ON FROZEN GROUND.
- ALL GRASS-LINED DITCHES AND CHANNELS SHALL BE CONSTRUCTED BY SEPTEMBER 1. ALL DITCHES AND SWALES WHICH DO NOT EXHIBIT 85% VEGETATIVE GROWTH BY OR ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED IMMEDIATELY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS AS DETERMINED BY A PROFESSIONAL ENGINEER. IF STONE LINING IS NECESSARY, THE CONTRACTOR MAY NEED TO RE-GRADE THE DITCH AS REQUIRED TO PROVIDE ADEQUATE CROSS-SECTION AFTER ALLOWING FOR PLACEMENT OF THE STONE.
- ALL STONE LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
- AFTER OCTOBER 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 GRAVEL 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.
- SEDIMENT BARRIERS THAT ARE INSTALLED DURING FROZEN CONDITIONS SHALL CONSIST OF EROSION CONTROL MIX BERM, OR CONTINUOUS CONTAINED BERM. SILT FENCES AND HAY BALES SHALL NOT BE INSTALLED WHEN FROZEN CONDITIONS PREVENT PROPER EMBEDMENT OF THESE BARRIERS.

PERMANENT EROSION AND SEDIMENTATION CONTROLS

TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:
GRANITE STATE CREDIT UNION
APRIL 2021 C-11

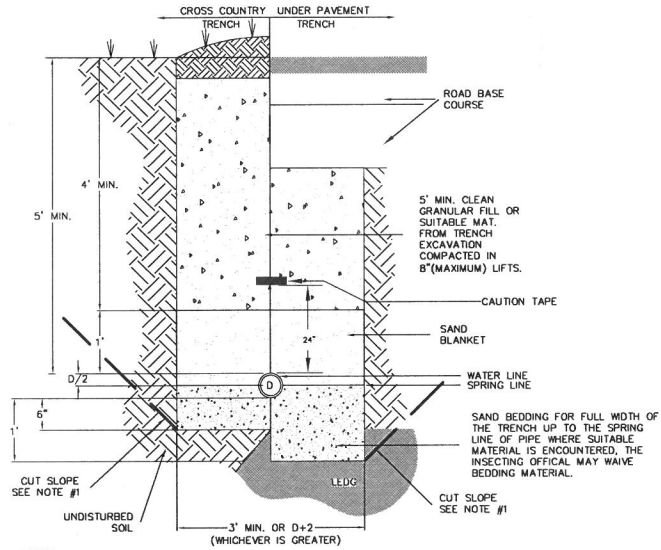
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PLAN NO. C-3159
DWG. NO. 20229/SP-1

LAND SURVEYORS



CIVIL ENGINEERS

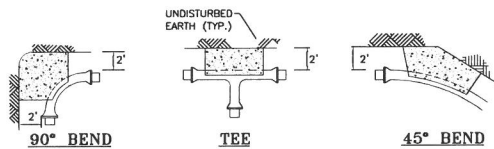
CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITHIN THE PLAN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



- NOTES:
1. PIPES MAY BE INSTALLED BY EXCAVATING AN OPEN TRENCH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A DEPTH OF 4'-FT. INSTALLATIONS DEEPER THAN 4'-FT REQUIRE THE USE OF A TRENCH BOX.
 2. PIPE MATERIALS SHALL BE AS SPECIFIED ON THE DESIGN PLAN.
 3. SAND BLANKET MAY BE OMITTED FOR REINFORCED CONCRETE PIPE.

WATER PIPE TRENCH INSTALLATION DETAIL

NOT TO SCALE

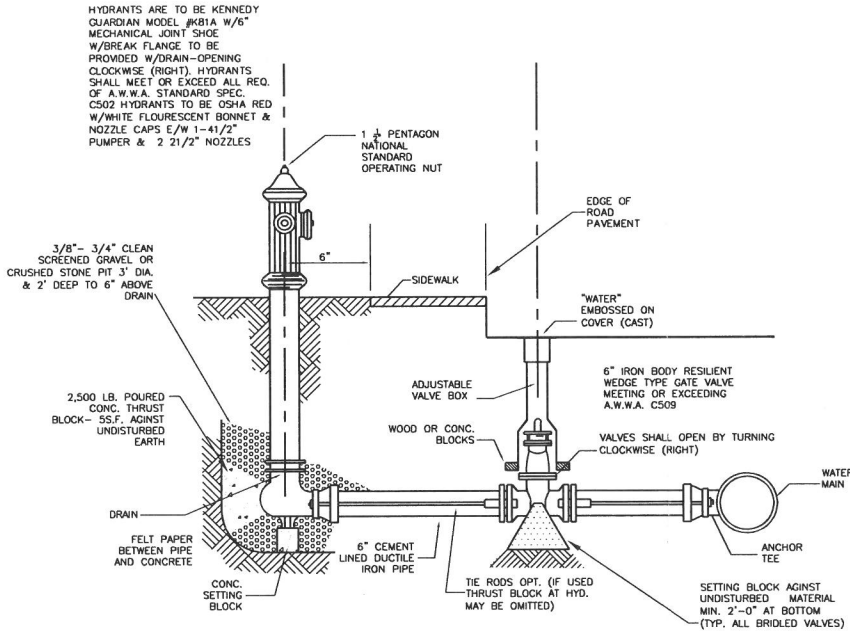


PIPE SIZE	90° BEND	TEE	PLUG	45° BEND	22 1/2° & SMALLER
6"	5	4	3	2	2
8"	10	8	6	6	3
12"	24	18	8	12	8

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

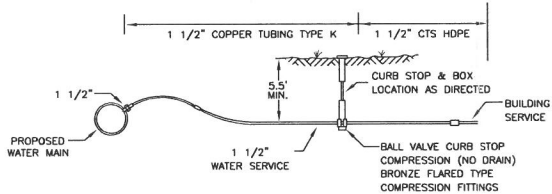
WATER MAIN THRUST BLOCK DETAILS

NOT TO SCALE



TYPICAL HYDRANT SECTION

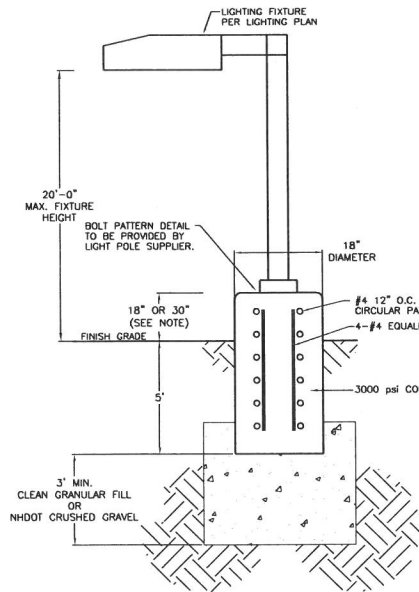
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NOTE: SERVICE LINE SHALL BE TYPE K COPPER CONFORMING TO ASTM-D88

TYPICAL DOMESTIC SERVICE CONNECTION

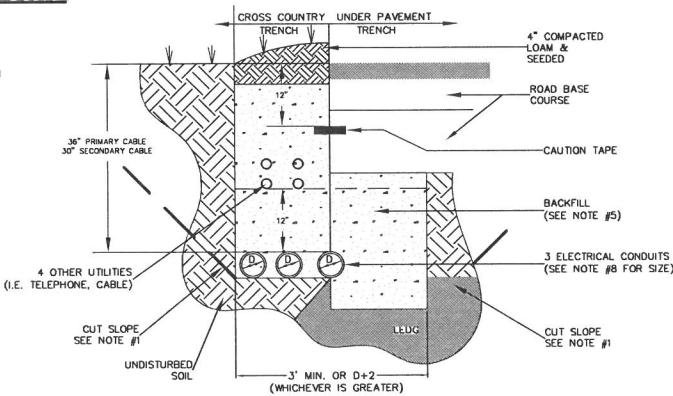
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POLE MOUNTED LIGHT DETAIL

NOT TO SCALE

- NOTE:
1. LIGHT POLE BASE SHALL BE 18" ABOVE FINISH GRADE FOR NON VEHICLE IMPACT AREAS AND 30" FOR VEHICLE IMPACT AREAS. THE LIGHT POLE BASES CAN BE PRECAST, WITH COORDINATION WITH THE LIGHTING FIXTURE MANUFACTURE FOR BOLT PATTERN.
 - 2.



- NOTES:
1. ALL NON-METALLIC CONDUIT AND FITTINGS SHALL BE ELECTRICAL GRADE, SCHEDULE 40 PVC, AND SHALL CONFORM TO THE APPLICABLE SECTIONS OF NEMA TC2-1990 AND BE UL LISTED. ONLY GRAY-COLORED CONDUIT WILL BE ACCEPTED. ANY PVC CONDUIT NOT HAVING THE PROPER NEMA AND UL MARKINGS WILL NOT BE ACCEPTED. ALL STEEL CONDUITS SHALL CONFORM TO ASTM A120 AND BE RIGID GALVANIZED STEEL. ALL PVC JOINTS MUST BE CEMENTED. STEEL FITTINGS SHALL BE SEALED WITH COMPOUND.
 2. ALL 90 DEGREE SWEEPS WILL BE MADE USING RIGID GALVANIZED STEEL WITH A MINIMUM RADIUS OF 36 INCHES FOR PRIMARY CABLES AND 24 INCHES FOR SECONDARY CABLES. ALL STEEL SWEEPS WITHIN 18" OF THE SURFACE SHALL BE PROPERLY GROUNDING.
 3. A 10-FOOT HORIZONTAL SECTION OF RIGID GALVANIZED STEEL CONDUIT WILL BE REQUIRED AT EACH SWEEP, UNLESS IN THE OPINION OF THE EVERSOURCE DESIGNER, THE SWEEP-PVC JOINT IS NOT SUBJECT TO FAILURE DURING CABLE PULLING.
 4. THE CONDUIT SHALL CROSS PAVED AREAS AT APPROXIMATELY 90 DEGREES.
 5. BACKFILL MAY BE MADE WITH EXCAVATED MATERIAL OR COMPARABLE, UNLESS MATERIAL IS DEEMED UNSUITABLE BY EVERSOURCE. BACKFILL SHALL BE FREE OF FROZEN LUMPS, ROCKS, DEBRIS, AND RUBBISH. ORGANIC MATERIAL SHALL NOT BE USED AS BACKFILL. BACKFILL SHALL BE THOROUGHLY COMPACTED IN 6-INCH LAYERS.
 6. A SUITABLE PULL STRING, CAPABLE OF 200 POUNDS OF PULL, MUST BE INSTALLED IN THE CONDUIT BEFORE EVERSOURCE IS NOTIFIED TO INSTALL CABLE. THE STRING SHOULD BE BLOWN INTO THE CONDUIT AFTER THE RUN IS ASSEMBLED TO AVOID BONDING THE STRING TO THE CONDUIT.
 7. ROUTING OF THE CONDUIT AND INSPECTION PRIOR TO BACKFILL WILL BE PROVIDED BY EVERSOURCE. INSTALLATION OF THE CONDUIT WILL BE DONE BY THE CONTRACTOR. THE EVERSOURCE SUPERVISOR MUST BE NOTIFIED 2 BUSINESS DAYS PRIOR TO BACKFILLING THE TRENCH. IN THE EVENT THAT A CABLE CANNOT BE SUCCESSFULLY PULLED THROUGH THE COMPLETED CONDUIT SYSTEM DUE TO A CONSTRUCTION ERROR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND REPAIR THE INVOLVED CONDUIT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL RESULTING EXPENSES.
 8. NORMAL CONDUIT SIZES FOR EVERSOURCE ARE 3-INCH FOR SINGLE PHASE PRIMARY AND SECONDARY VOLTAGE CABLES, 4-INCH FOR THREE PHASE SECONDARY, AND 5-INCH FOR THREE PHASE PRIMARY.
 9. ALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE, STATE AND LOCAL CODES AND ORDINANCES, AND WHERE APPLICABLE THE NATIONAL ELECTRIC CODE.
 10. CONDUIT MAY BE INSTALLED BY EXCAVATING AN OPEN TRENCH WITH SIDE SLOPES OF 1:1 MAXIMUM TO A DEPTH OF 4'-FT. INSTALLATIONS DEEPER THAN 4'-FT REQUIRE THE USE OF A TRENCH BOX.

ELECTRICAL & UNDERGROUND UTILITY TRENCH INSTALLATION DETAIL

NOT TO SCALE

UTILITY DETAILS
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH

PREPARED FOR:
GRANITE STATE CREDIT UNION

APRIL 2021

C-12

FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

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

NORWAY PLAINS ASSOCIATES, INC.

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

LAND SURVEYORS



CIVIL ENGINEERS

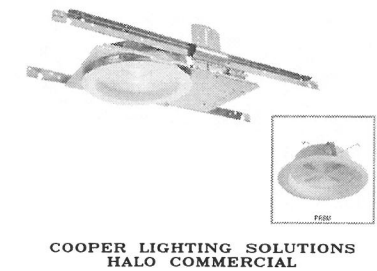
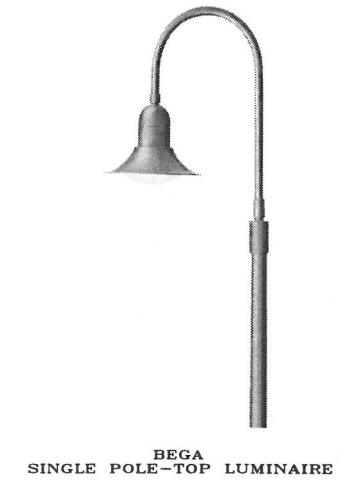
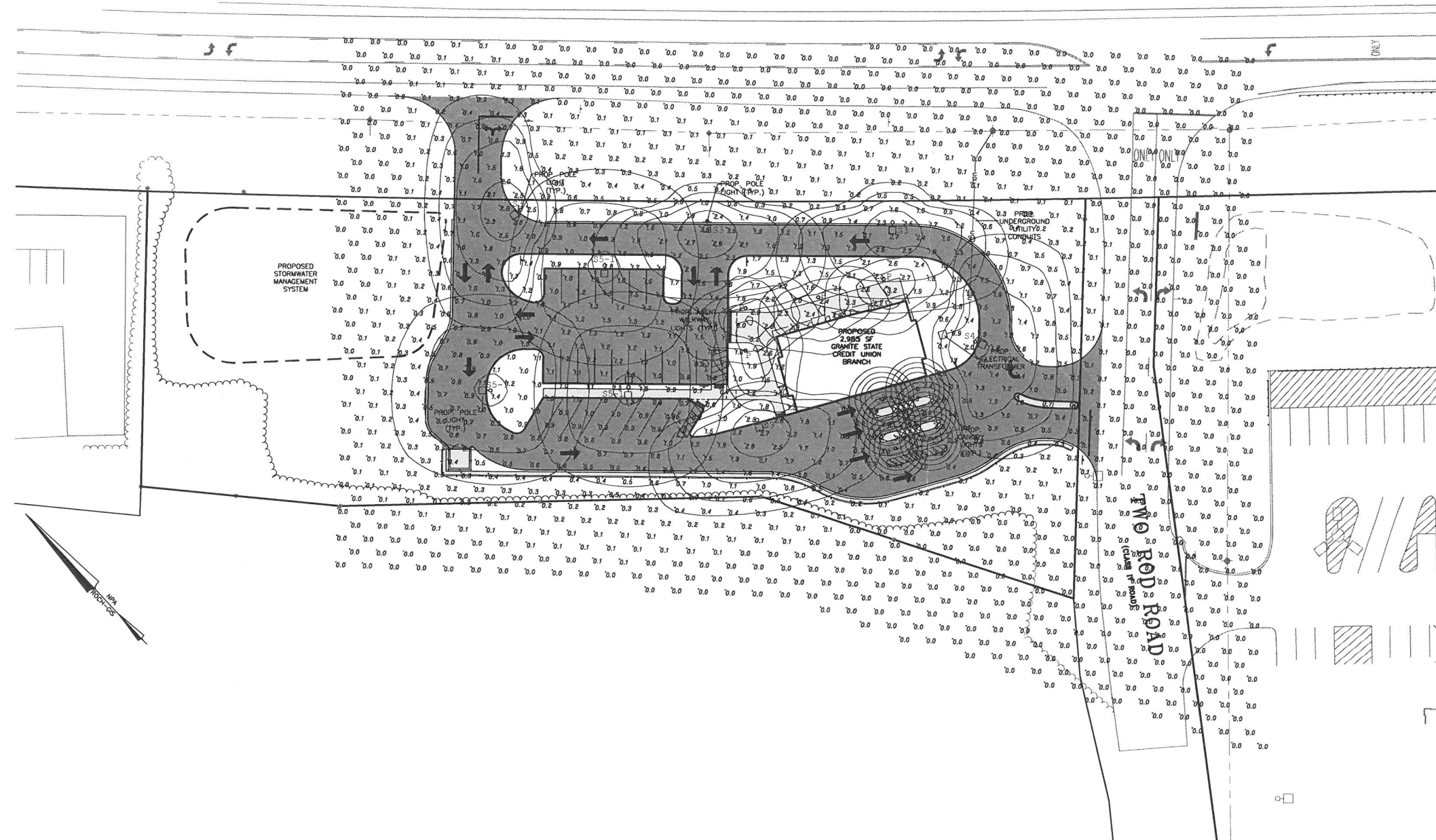
CAREFULLY REVIEW ALL SHEETS OF THIS PACKAGE TO INSURE PROPER CONSTRUCTION. SPECIFIC SITE CONDITIONS SHOULD BE EXPLORED PRIOR TO CONSTRUCTION. CONTACT BOTH THE DESIGN ENGINEER AND THE PROJECT OWNER FOR ANY AVAILABLE GEOTECHNICAL OR HYDROGEOLOGICAL INFORMATION AVAILABLE BUT NOT CONTAINED WITH IN THE PLAN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

LEGEND

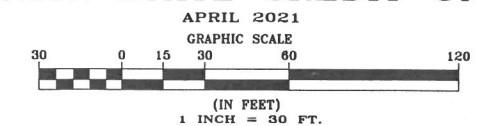
- PROPERTY LINE
- JURISDICTIONAL WETLANDS
- - - EXISTING OVERHEAD WIRES
- EXISTING LIGHT POLES
- PROPOSED BUILDING
- PROPOSED PAVEMENT
- PROPOSED PAVEMENT WITH CURBING
- ☆ PROPOSED LIGHT POLES
- ◊ PROPOSED BUILDING LIGHT FIXTURES
- PROPOSED LIGHT FOOTCANDLE
- PROPOSED LIGHT ISOLLLUMINATION LINES

Luminaire Schedule				
Symbol	Label	Qty	Arrangement	Description
☆	C	6	SINGLE	PR815D010 - PR8M12WDMW - 4000K
☆	P	4	SINGLE	77910 / 928 (BOP 14' AFG)
◊	S3	4	SINGLE	GLEON-SA1C-740-U-T3/ SSS4A20SFN1 (20' AFG)
◊	S4	1	SINGLE	GLEON-SA1C-740-U-T4W/ SSS4A20SFN1 (20' AFG)
◊	S5-1	3	SINGLE	GLEON-SA1B-740-U-5W2/ SSS4A20SFN1 (20' AFG)

FARMINGTON ROAD
NH ROUTE 11



LIGHTING PLAN AND DETAILS
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH
PREPARED FOR:
GRANITE STATE CREDIT UNION



FILE NO. 116
PLAN NO. C-3159
DWG. NO. 20229/SP-1

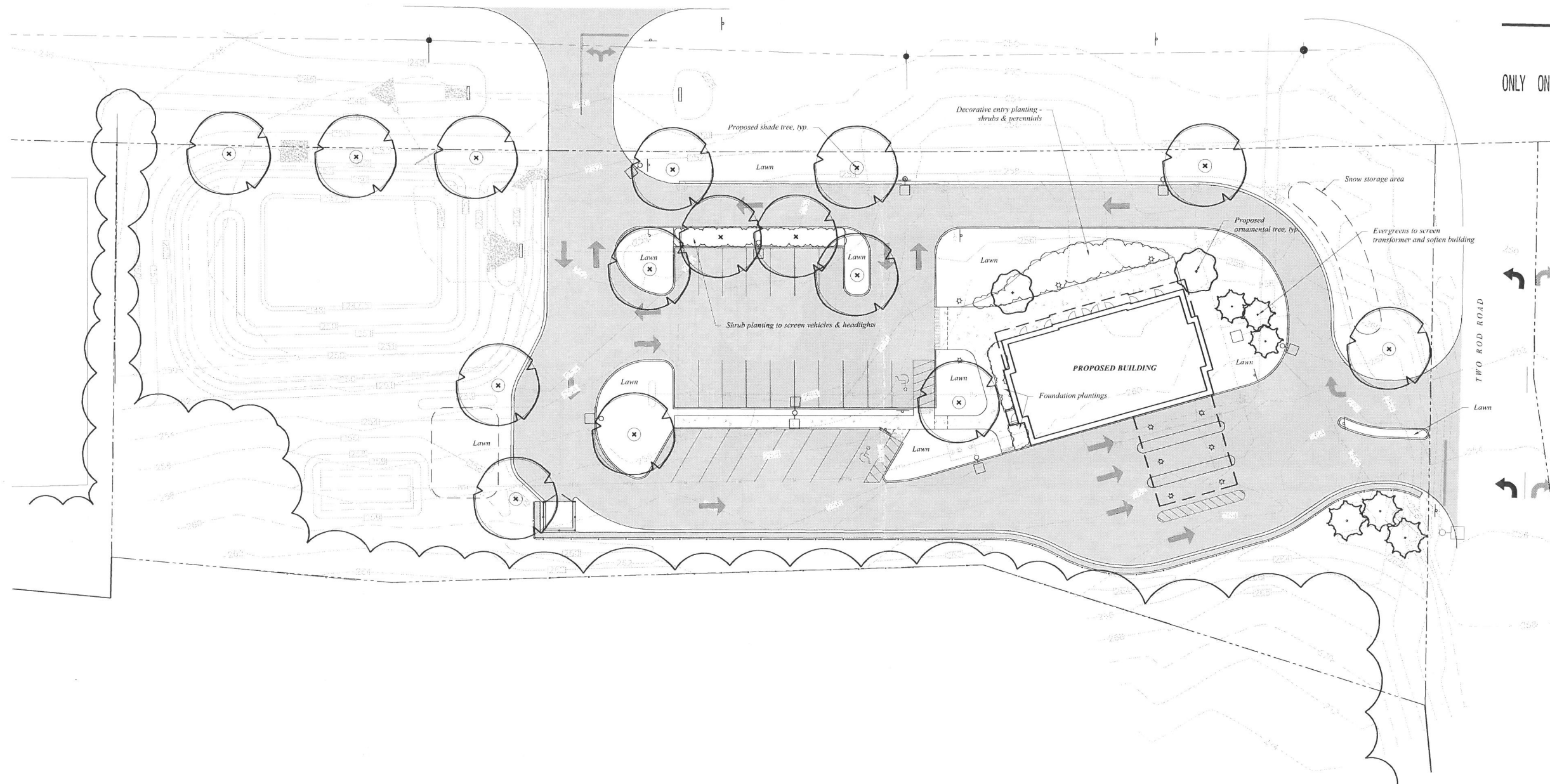
31 Mooney Street, Alton, N.H. 603-875-3948

NORWAY PLAINS ASSOCIATES, INC.



NH ROUTE 11

ONLY ONLY



LANDSCAPE CONCEPT PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH
 PREPARED FOR:
GRANITE STATE CREDIT UNION

woodburn & company
 LANDSCAPE ARCHITECTURE
 103 Kent Place, Newmarket, New Hampshire Phone: 603.659.5949



0 5 10 20 40
 (IN FEET)
 1 INCH = 20 FT.

FILE NO. 116
 PLAN NO. C-3159
 DWG. NO. 20229/SP-1

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

NORWAY PLAINS ASSOCIATES, INC.

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

LAND SURVEYORS

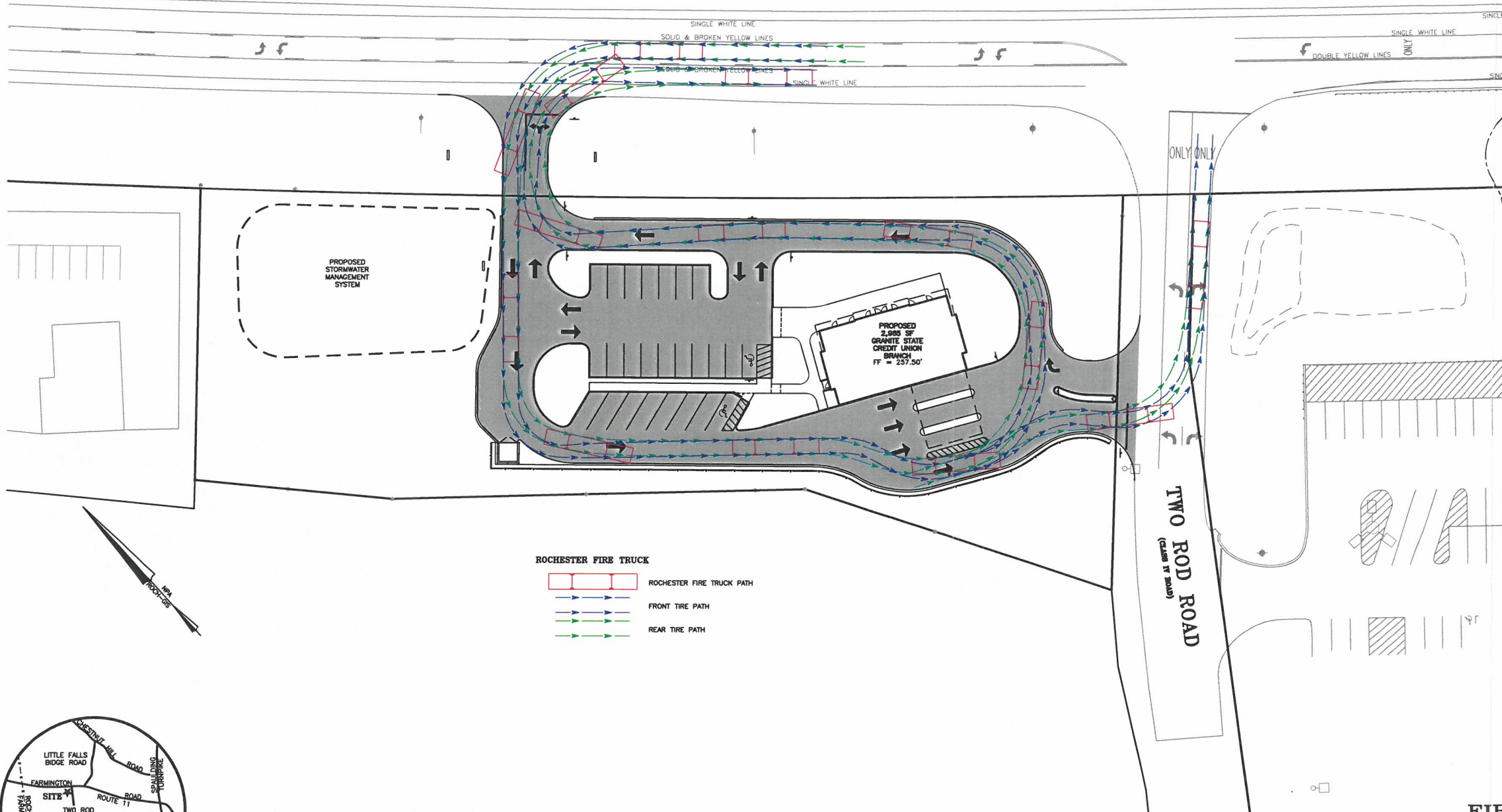
CIVIL ENGINEERS



LEGEND

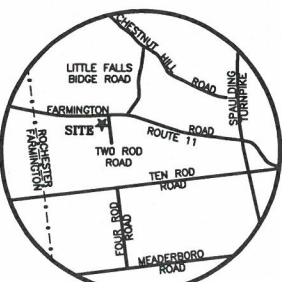
- PROPERTY LINE
- - - JURISDICTIONAL WETLANDS
- ~ ~ ~ EXISTING TREE LINE
- - - EXISTING OVERHEAD WIRES
- - - EXISTING HYDRANT
- ⊕ EXISTING WATER GATE OR SHUT-OFF VALVE
- ⊕ EXISTING UTILITY POLE
- ⊕ EXISTING SEWER MAN HOLE
- ⊕ EXISTING CATCH BASIN
- ⊕ EXISTING LIGHT POLES
- ▭ PROPOSED BUILDING
- ▭ PROPOSED PAVEMENT

FARMINGTON ROAD
NH ROUTE 11



ROCHESTER FIRE TRUCK

- ▭ ROCHESTER FIRE TRUCK PATH
- FRONT TIRE PATH
- REAR TIRE PATH



LOCUS MAP
NTS

FILE NO. 116
PLAN NO. C-
DWG. NO. 20229/SP-1

FIRE TRUCK TURNING PLAN
TAX MAP 208, LOTS 4 & 5
148 & 150 FARMINGTON ROAD
ROCHESTER, NH
PREPARED FOR:
GRANITE STATE CREDIT UNION

FEBRUARY 2021

GRAPHIC SCALE



(IN FEET)
1 INCH = 30 FT.

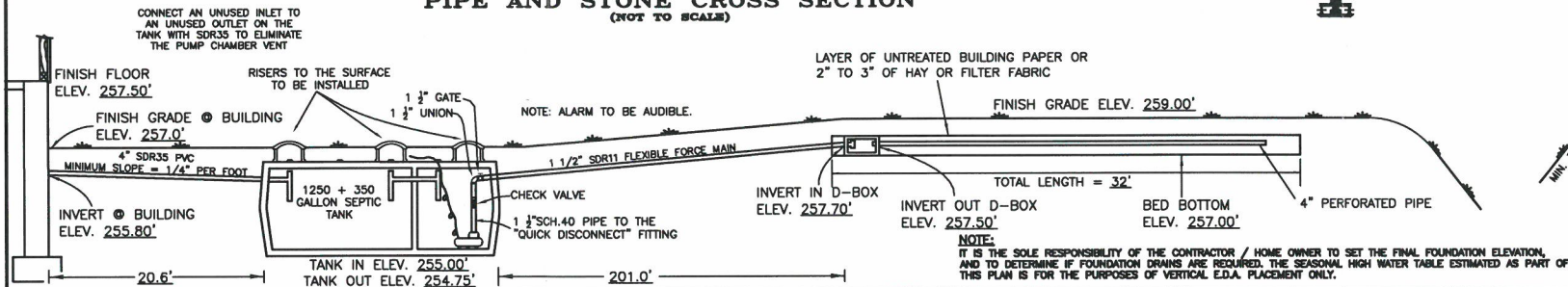
T-1

LAND SURVEYORS



CIVIL ENGINEERS

PIPE AND STONE CROSS SECTION (NOT TO SCALE)



WETLANDS WERE DELINEATED ON THE BASIS OF HYDROPHYTIC VEGETATION, HYDRIC SOILS, AND WETLANDS HYDROLOGY IN ACCORDANCE WITH THE TECHNIQUES OUTLINED IN THE CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1, JANUARY 1987. THE HYDRIC SOIL COMPONENT WAS DETERMINED BY USING THE FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND, VERSION 3, APRIL 2004. (SEE ENV-WIS 1014.03 DELINEATION OF WETLANDS; HYDRIC SOILS DETERMINATION)

IN TERMS OF RESPONSIBILITY FOR THE DELINEATIONS SHOWN, EITHER THE DESIGNER IS RESPONSIBLE FOR THEM (CONDUCTED BY THE DESIGNER) OR THE PLANS MUST BE STAMPED BY A CERTIFIED WETLANDS SCIENTIST

UNLESS OTHERWISE SHOWN HEREON, THERE ARE NO CEMETERIES OR BURIAL GROUNDS WITHIN 100' OF ANY COMPONENT OF THE PROPOSED SYSTEM.

PROPER MAINTENANCE AND CARE ARE REQUIRED FOR SEPTIC SYSTEMS TO FUNCTION PROPERLY. THE FOLLOWING ARE SOME ITEMS THAT MAY SHORTEN SYSTEM LIFE:

- SOME WATER SOFTENERS/PURIFIERS
- HOT TUBS
- GARBAGE DISPOSAL UNITS
- EXCESSIVE USE OF WATER
- SOME CLEANERS
- TOXIC CHEMICALS

TANK SHOULD BE INSPECTED AT LEAST ONCE A YEAR AND CLEANED WHEN NECESSARY.

LOT LOADING CALCULATIONS:

LOT LOADING = 2000 GPD/ACRE X (LOT AREA - WELL RADII - POORLY DRAIN SOILS)

SEWAGE LOADING FACTOR

LOT LOADING = 2000 GPD/ACRE X (1.93 AC - 0.0 AC - 0.00 AC) = 2,699 GPD

1.43 (GROW P 2, 8 - 15% SLOPES)

LOT LOADING = 2,699 GPD ÷ 300 GPD (MIN. COMMERCIAL)

DESIGN INTENT:
THE BOTTOM OF THE EFFLUENT DISPOSAL SYSTEM (EDS) SHALL BE CONSTRUCTED AT ELEVATION 257.00'. THERE IS APPROXIMATELY 1.65' BELOW ORIGINAL GROUND ON THE HIGH CONTOUR OF THE DESIGNED EDS.

BEFORE INSTALLATION, INSTALLER MUST VERIFY ALL ELEVATIONS AND DISTANCES. IF SYSTEM HAS EXISTING BUILDINGS, ALL PLUMBING ELEVATIONS MUST BE CHECKED.

CONTACT DESIGNER IF ANY DISCREPANCIES ARE FOUND.

4" PIPE IN LEACH FIELD TO BE PERFORATED WITH HOLES AT 5&7 O'CLOCK
4" PIPE FROM D BOX TO LATERALS TO BE SOLID

LOAD = 300 GPD

2 DOSES PER DAY = 100 GALLONS PER DOSE

PUMP OFF = 251.40' + 0.33' = 251.73'

PUMP ON = 251.73' + (67.5 GAL/135 GAL PER V.F.) = 252.23'

ALARM = 252.23' + 0.5' = 252.73'

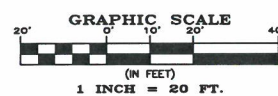
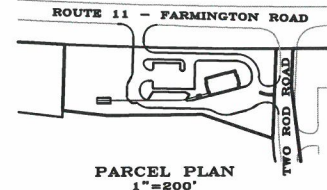
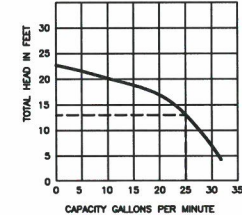
RUN TIME = 67.5 GAL PER DOSE/25 GAL PER MINUTE = 2.7 MINUTES

USE MYERS SSM331 PUMP.

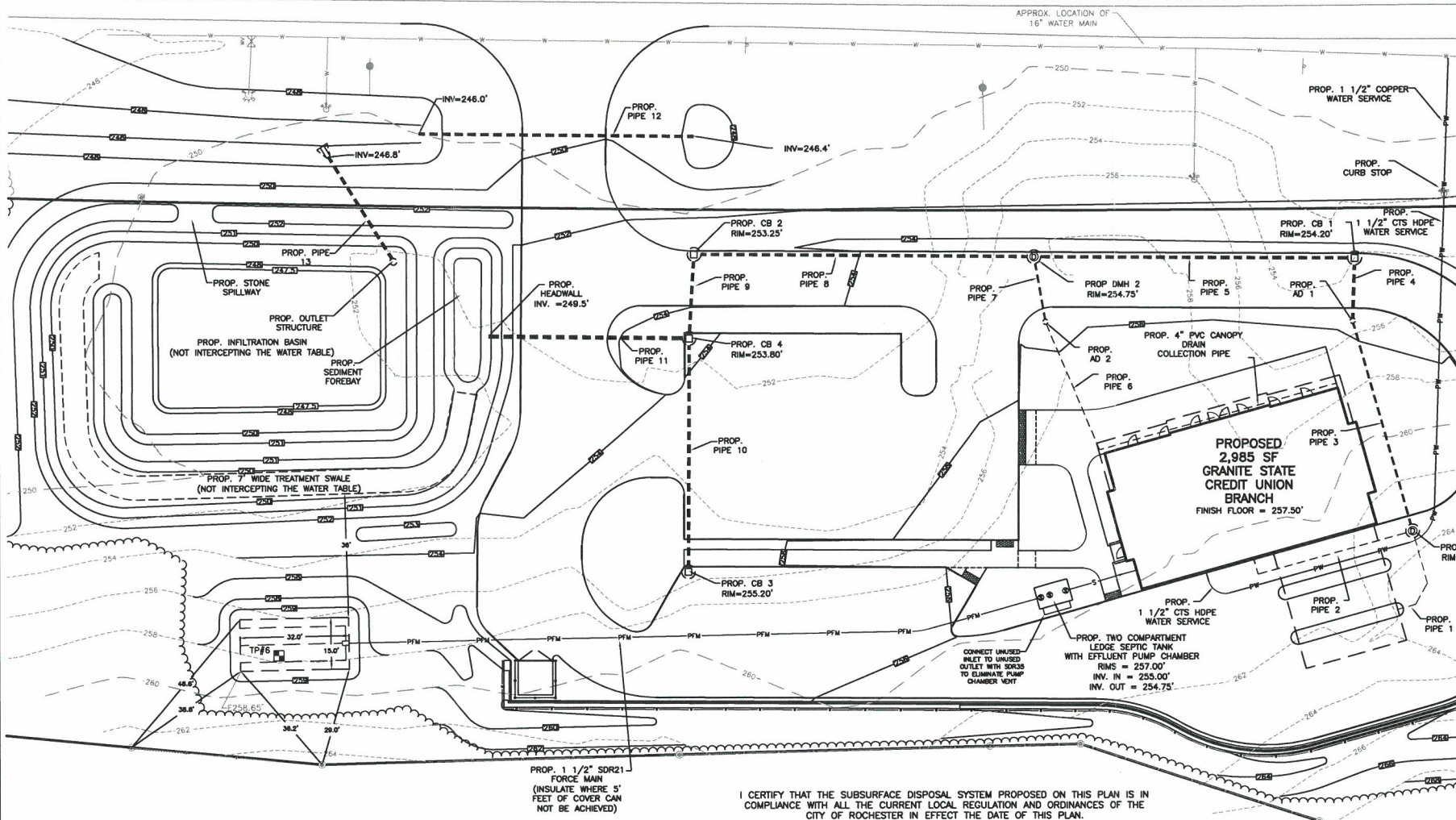
NOTE: ALARM MUST BE VISUAL AND AUDIBLE.

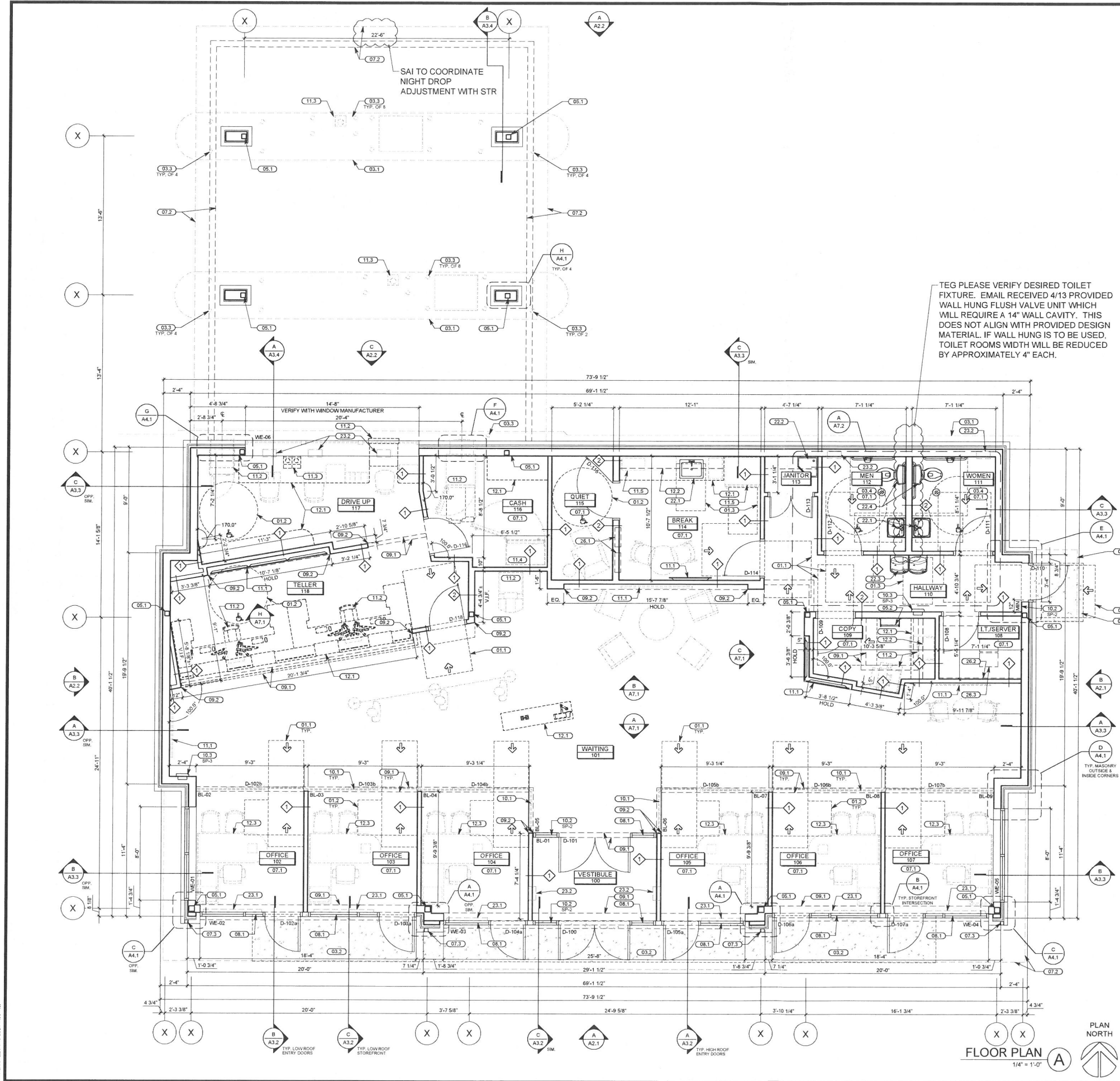
ALARM AND PUMP TO BE ON SEPARATE ELECTRICAL CIRCUITS.

SSM331 SERIES CURVE



NH ROUTE 11 - FARMINGTON ROAD





GENERAL NOTES: FLOOR PLAN

1. REFER TO G1.2 SHEET FOR ALL ABBREVIATIONS & SYMBOLS.
2. VERIFY ALL EQUIPMENT (INCLUDING BANK EQUIPMENT) OPENINGS & LOCATIONS. EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. LOCATIONS & SIZES SHOWN ARE FOR INTENT PURPOSES ONLY. ADJUST ROUGH OPENINGS & LOCATIONS AS REQUIRED PER ACTUAL EQUIPMENT.
3. DOOR JAMBS ARE 4" FROM NEAREST ADJACENT INTERSECTING PARTITION UNLESS NOTED OTHERWISE. SEE DOOR DETAILS FOR FURTHER INFORMATION.
4. CONTRACTOR TO PROVIDE & INSTALL ALL IN-WALL OR IN-CEILING BLOCKING/BRACING AS REQUIRED FOR ALL MILLWORK ITEMS, EQUIPMENT, SHELVING, & ACCESSORIES WHETHER ITEMS ARE BY CONTRACTOR OR OTHERS. COORDINATE WITH OWNER'S REPRESENTATIVE.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE SPACE PRIOR TO COMMENCING WORK & SHALL NOTIFY THE ARCHITECT AND OWNER OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
6. REFER TO A5.1 FOR FLOOR, WALL, & OTHER FINISHES.
7. REFER TO CIVIL DRAWINGS FOR FINISHED CONCRETE FLOOR ELEVATION. ARCHITECTURAL DRAWINGS INDICATE ELEVATION OF 100'-0" FOR REFERENCE.
8. ALL DOOR FRAME & WINDOW FRAME HEAD/SILL/JAMB DETAILS ARE NOTED IN RESPECTIVE SCHEDULES. REFER TO DRAWINGS A6.1 & A6.2.
9. ALL CONCRETE MASONRY UNITS AND MORTAR TO INCLUDE AN INTEGRAL WATER REPELLENT.
10. REFER TO A5.2 FOR PARTITION INFORMATION.
11. FACE OF FOUNDATION ALIGNS WITH EXTERIOR FACE OF SHEATHING.

GENERAL DIMENSIONING NOTES

1. THE GENERAL CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS WITH THE DRAWINGS. IN PARTICULAR OVERALL WALL DIMENSIONS, SOIL CONDITIONS, INCOMING UTILITIES, ETC. THE GENERAL CONTRACTOR IS TO REPORT IMMEDIATELY TO THE ARCHITECT ANY VARIANCES OR FIELD CONDITIONS THAT MAY CAUSE CONSTRUCTION PROBLEMS PRIOR TO COMMENCING WORK.
2. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. ALL PARTITION LOCATIONS, ALL DOOR AND OPENING LOCATIONS ARE SHOWN ON FLOOR PLAN. IN CASE OF CONFLICT NOTIFY THE ARCHITECT. FLOOR PLAN BY ARCHITECT SUPERSEDES ALL OTHER PLANS. ALL DIMENSIONS MARKED "CLEAR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF ALL FINISHES INCLUDING CARPET, PAD, CERAMIC TILE, V.C.T. & THE LIKE.
3. ALL INTERIOR DIMENSIONS SHOWN ARE TO FACE OF CONCRETE FOUNDATION OR STUD FRAMING UNLESS SPECIFICALLY NOTED OTHERWISE.
4. ALL DIMENSIONS ON ARCHITECTURAL DRAWINGS LOCATING STRUCTURAL ELEMENTS ARE TO CENTERLINE OF STEEL COLUMNS AND STEEL BEAMS UNLESS NOTED OTHERWISE.
5. ALL EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING AND ALIGN WITH FACE OF FOUNDATION, UNLESS SPECIFICALLY NOTED OTHERWISE.
6. ALL DIMENSIONS SHOWN LOCATING WINDOWS AND BORROWED LIGHTS ARE TO ROUGH OPENING OF WINDOW, UNLESS SPECIFICALLY NOTED OTHERWISE.
7. ALL INTERIOR STUD WALLS ARE 3/8" METAL FRAMING STUDS UNLESS NOTED OTHERWISE ON THE FLOOR PLAN AND PARTITION SCHEDULE.

CODED NOTES: FLOOR PLAN

NOTE: THE DIVISION OF CODED NOTING SYSTEM DOES NOT CONTROL THE DIVISION OF WORK AMONG TRADES NOR THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. REFER TO RESPONSIBILITY SCHEDULE ON DRAWING G1.2 FOR ADDITIONAL INFORMATION.

DIVISION 01 - GENERAL REQUIREMENTS

- 01.1 MAINTAIN REQUIRED DOOR CLEARANCE AREA FOR ACCESSIBILITY. EACH SIDE OF DOOR. REFER TO A7.2 FOR ADDITIONAL INFORMATION.
- 01.2 MAINTAIN REQUIRED CLEAR TURNING CIRCLE OR "T-TURN" AREA PER APPLICABLE CODES.
- 01.3 MAINTAIN REQUIRED FLOOR CLEAR AREA FOR ACCESSIBILITY.

DIVISION 03 - CONCRETE

- 03.1 FACE OF CONCRETE CURB. REFER TO CIVIL DRAWINGS.
- 03.2 CONCRETE STOOP. REFER TO STRUCTURAL DRAWINGS.
- 03.3 CONCRETE FILLED STEEL PIPE BOLLARD. REFER TO CIVIL DRAWINGS.
- 03.4 SLOPE CONCRETE FLOOR TO FLOOR DRAIN WITHIN 2'-0" RADIUS OF DRAIN PRIOR TO FLOOR FINISH INSTALLATION. MAX 2% FINISH SLOPE.

DIVISION 05 - METALS

- 05.1 STEEL COLUMN. REFER TO STRUCTURAL DRAWINGS.
- 05.2 PRE-MANUFACTURED ROOF ACCESS LADDER. REFER TO A10.2 FOR DETAILS.

DIVISION 07 - THERMAL & MOISTURE PROTECTION

- 07.1 PROVIDE & INSTALL SOUND BATT INSULATION FOR FULL HEIGHT OF ALL INTERIOR PERIMETER WALLS & 6" ON TOP OF LAY-IN CEILING IN ROOM. HOLD INSULATION TIGHT TO ONE FACE & TAPE INTO PARTITION. CLOSE & CAULK ALL GAPS AT FLOOR BY SETTING FLOOR RUNNER ON TWO CONTINUOUS CAULK BEADS (REFER TO PARTITION TYPES). OMIT BATT INSULATION OVER LAY-IN LIGHTING FIXTURE OR BUILD AN APPROVED "TENT" AROUND THE LIGHTS TO KEEP INSULATION MIN. 6" AWAY FROM FIXTURE.
- 07.2 DASHED LINE INDICATES DRIVE UP CANOPY, CANOPY/awning, OR ROOF OVERHANG ABOVE.
- 07.3 DOWNSPOUT. REFER TO ROOF PLAN AND CIVIL ENGINEERING DRAWINGS.

DIVISION 08 - OPENINGS

- 08.1 ALUMINUM STOREFRONT WINDOW FRAMING SYSTEM. REFER TO WINDOW SCHEDULE.

DIVISION 09 - FINISHES

- 09.1 DASHED LINE INDICATES CEILING TRANSITION ABOVE. REFER TO REFLECTED CEILING PLAN.
- 09.2 ALIGN FACE OF DRYWALL SOFFIT ABOVE WITH FACE OF DRYWALL.

DIVISION 10 - SPECIALTIES (REFER TO RESPONSIBILITY SCHEDULE FOR ADDITIONAL INFORMATION)

- 10.1 DEMOUNTABLE WALL SYSTEM WITH GLAZING AND SLIDING DOORS BY VENDOR. G.C. TO CENTER DEMOUNTABLE SYSTEM ON SOFFIT ABOVE.
- 10.2 EXIT SIGNAGE. REFER TO A7.2 FOR ADDITIONAL INFORMATION.
- 10.3 FIRE EXTINGUISHER CABINET. COORDINATE FINAL LOCATION WITH THE LOCAL FIRE AUTHORITY. REFER TO A7.2 FOR ADDITIONAL INFORMATION.

DIVISION 11 - EQUIPMENT (REFER TO RESPONSIBILITY SCHEDULE FOR ADDITIONAL INFORMATION)

- 11.1 WALL HUNG MONITOR OR MARKETING GRAPHIC. MONITORS ARE NOT TO PROTRUDE MORE THAN 4" BEYOND FACE OF WALL. CONTRACTOR TO COORDINATE LOCATION WITH OWNER & PROVIDE ALL ELECTRICAL CONNECTIONS & WALL BLOCKING AS REQUIRED. REFER TO DETAILS ON A5.2 FOR ADDITIONAL INFORMATION.
- 11.2 BANK EQUIPMENT. CONTRACTOR TO COORDINATE LOCATION WITH OWNER & PROVIDE ALL ELECTRICAL CONNECTIONS & WALL BLOCKING AS REQUIRED. REFER TO DETAILS ON A5.2 FOR ADDITIONAL INFORMATION.
- 11.3 VAT SYSTEM. CONTRACTOR TO COORDINATE INSTALLATION, POWER, & BLOCKING/SUPPORT REQUIREMENTS WITH SYSTEM MANUFACTURER.
- 11.4 CASH SAFE.
- 11.5 APPLIANCE. CONTRACTOR TO COORDINATE & PROVIDE ALL CONNECTIONS.

DIVISION 12 - FURNISHINGS (REFER TO RESPONSIBILITY SCHEDULE FOR ADDITIONAL INFORMATION)

- 12.1 MILLWORK UNIT. CONTRACTOR TO COORDINATE BLOCKING, ELECTRICAL, & DATA REQUIREMENTS WITH MILLWORK SHOP DRAWINGS.
- 12.2 DASHED LINE INDICATES SHELVING OR CABINETRY ABOVE. CONTRACTOR TO COORDINATE BLOCKING & ELECTRICAL REQUIREMENTS WITH MILLWORK SHOP DRAWINGS.
- 12.3 OFFICE FURNITURE. CONTRACTOR TO CONFIRM FINAL FURNITURE SELECTION WITH OWNER'S REPRESENTATIVE & COORDINATE ANY CRITICAL DIMENSIONS PRIOR TO LAYOUT OF WALLS.

DIVISION 22 - PLUMBING (REFER TO THE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION)

- 22.1 SINK.
- 22.2 UTILITY SINK WITH WATER HEATER LOCATED ON PLATFORM ABOVE. MOP & BROOM HOLDER INSTALLED ON ADJACENT WALL. REFER TO A12.2 & SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 22.3 H.A.O. DRINKING FOUNTAIN.
- 22.4 ACCESSIBLE WATER CLOSET.

DIVISION 23 - HVAC (REFER TO HVAC DRAWINGS FOR ADDITIONAL INFORMATION)

- 23.1 BASE BOARD HEATER.
- 23.2 ELECTRIC CABINET UNIT HEATER. G.C. TO GUARANTEE UNIT IS INSTALLED OUTSIDE THE REQUIRED ACCESSIBILITY CLEARANCES OF FIXTURES & DOORS.

DIVISION 26 - ELECTRICAL (REFER TO THE ELECTRICAL DRAWINGS FOR SCOPE & ADDITIONAL INFORMATION)

- 26.1 ELECTRICAL PANEL & EQUIPMENT.
- 26.2 3/4" PRT PLYWOOD PHONE BOARD. CONTRACTOR TO COORDINATE SIZE AND LOCATION WITH THE OWNER'S REPRESENTATIVE. PRIME & PAINT.
- 26.3 IT RACK.

TEG PLEASE VERIFY LOCATION IN IT/SERVER ROOM IS ACCEPTABLE.

REVISIONS:

SHREMSHOCK

Gerald S. Shremshock, Architect
Timothy J. Shremshock, Architect
info@shremshock.com
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t: 614 545 4550 | f: 614 545 4555

Granite State credit union

148-150 FARMINGTON ROAD
ROCHESTER, NH 03867

FLOOR PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

SAI # 200421

DRAWING NUMBER:

A1.1

CHECKED BY: TEM

DRAWN BY: KNG

GENERAL NOTE:
SIGN MANUFACTURER SHALL PROVIDE ALL
BRACKETING AND SUPPORTS FOR SIGNAGE.
ALL SUPPORTS, CONDUITS, ETC. SHALL BE
MADE WEATHER TIGHT BY SIGN INSTALLER
VIA BOTH FLASHINGS AND SEALANTS.

GENERAL NOTES: EXTERIOR ELEVATIONS

1. REFER TO FINISH SCHEDULE FOR ALL INTERIOR FINISHES.
2. REFER TO FLOOR PLAN & DOOR & WINDOW SCHEDULES FOR ADDITIONAL INFORMATION.
3. ALL EXPOSED ALUMINUM MATERIALS TO BE CONSISTENT & MATCH. THIS INCLUDES STOREFRONT FRAMING, DOORS, AWNINGS & INTEGRATED BRAKE METAL PANELS.
4. AS INDICATED IN SPECIFICATIONS & NOTED ON SUBMITTAL SCHEDULE. SUBMIT SHOP DRAWINGS THAT SHOW COMPLETE EXTERIOR PANEL CLADDING SYSTEMS INCLUDING ALL MATERIALS, TRANSITION DETAILS, HORIZONTAL & VERTICAL PANEL JOINTS, & SEALANT REQUIREMENTS.

CODED NOTES: EXTERIOR ELEVATIONS

NOTE: THE DIVISION OF CODED NOTING SYSTEM DOES NOT CONTROL THE DIVISION OF WORK AMONG TRADES NOR THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. REFER TO RESPONSIBILITY SCHEDULE ON DRAWING G1.2 FOR ADDITIONAL INFORMATION.

- DIVISION 03 - CONCRETE**
- 03.1 CONCRETE STOOP, SLOPE AWAY FROM BUILDING AT 1/8" PER FOOT MIN. AND 1/4" PER FOOT MAX. AT WALKING SURFACES. REFER TO CIVIL DRAWINGS.
 - 03.2 CONCRETE SIDEWALK, SLOPE AWAY FROM BUILDING AT 1/8" PER FOOT MIN. AND 1/4" PER FOOT MAX. AT WALKING SURFACES. REFER TO CIVIL DRAWINGS.
 - 03.3 CONCRETE CURB, REFER TO CIVIL DRAWINGS.

- DIVISION 04 - MASONRY**
- 04.1 MODULAR BRICK VENEER.
 - 04.2 PRECAST CONCRETE SILL.
 - 04.3 PRECAST CONCRETE ACCENT BAND.

- DIVISION 07 - THERMAL & MOISTURE PROTECTION**
- 07.1 PREFINISHED METAL FASCIA.
 - 07.2 SELF-ADHERING FLEXIBLE SADDLE FLASHING AT ALL HI-LOW WALL INTERSECTIONS, UNDER COPING & WALL PANEL, EXTEND MINIMUM 6" BEHIND EXPOSED FINISH MATERIALS AT DRAINAGE PLANE.
 - 07.3 FIBER CEMENT WALL PANEL SYSTEM.
 - 07.4 PREFINISHED METAL DRIP EDGE GRAVEL STOP.
 - 07.5 PREFINISHED ALUMINUM DOWNSPOUT, REFER TO CIVIL DRAWINGS FOR CONNECTION TO STORM DRAIN.
 - 07.6 INSULATED METAL WALL PANEL SYSTEM.

- DIVISION 08 - OPENINGS**
- 08.1 DOOR & FRAME, REFER TO DOOR SCHEDULE.
 - 08.2 ALUMINUM STOREFRONT WINDOW SYSTEM, REFER TO WINDOW SCHEDULE.

- DIVISION 10 - SPECIALTIES (REFER TO RESPONSIBILITY SCHEDULE)**
- 10.1 SIGNAGE BY VENDOR & SUBMITTED UNDER SEPARATE PERMIT. CONNECTION TO FRAMING & BLOCKING TO BE VERIFIED BY SIGNAGE COMPANY/DESIGNER.

- DIVISION 11 - EQUIPMENT (REFER TO RESPONSIBILITY SCHEDULE)**
- 11.1 NIGHT DEPOSIT BOX.
 - 11.2 DRIVE-UP ATM.
 - 11.3 VAT SYSTEM.

- DIVISION 22 - PLUMBING (REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION)**
- 22.1 GAS METER.
 - 22.2 FROST-PROOF HOSE BIB.
 - 22.3 BRASS DOWNSPOUT NOZZLE "LAMB'S TONGUE" SECONDARY ROOF OVERFLOW, DISCHARGE AT 12" MIN. ABOVE GRADE.

- DIVISION 23 - HVAC (REFER TO HVAC DRAWINGS FOR MORE INFORMATION)**
- 23.1 APPROXIMATE LOCATION OF MECHANICAL UNITS.

- DIVISION 26 - ELECTRICAL (REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION)**
- 26.1 EXTERIOR WALL MOUNTED LIGHT FIXTURE.
 - 26.2 ELECTRICAL CABINET AND METER.
 - 26.3 DRIVE LANE SIGNAGE, COORDINATE ELECTRICAL REQUIREMENTS AND ATTACHMENTS WITH SIGN MANUFACTURER. VERIFY DRIVE UP LANE CANOPY CLEARANCE IN FIELD.

- DIVISION 32 - EXTERIOR IMPROVEMENTS (REFER TO CIVIL DRAWINGS FOR MORE INFORMATION)**
- 32.1 APPROXIMATE PROPOSED GRADE AT FACE OF BUILDING.

EXTERIOR FINISH SCHEDULE

BR-1	GENERAL SHALE TYPE: MODULAR FULL BRICK COLOR: CULPEPPER MORTAR: SPEC MIX SM-100 GREY
CS-1	NORTHERN DESIGN (SIZE: 7.5" H x 3.0" W x 2.0" D) TYPICAL COLOR: NATURAL - 4 MORTAR: SPEC MIX SM-100 GREY
FCP-1	JAMES HARDIE COLLECTION HARDIE PANEL - SMOOTH SIZE: 4 x 8' COLOR: COBBLESTONE
MT-1	MCBI COLLECTION 7.2 INSUL-RIB INSULATED METAL PANEL SIZE: 3' HORIZONTAL COLOR: 300 SIGNATURE SILVER METALLIC
MT-2	HEAVY GAGE METAL FASCIA COLOR: BLACK

TEG PLEASE PROVIDE DESIRED
LENGTH (MAX.) OF CASE
SILL/ACCENT BAND SECTIONS.

EXTERIOR GLAZING LEGEND

NOTE: REFER TO WINDOW SCHEDULE FOR MORE INFORMATION

1" GLAZING

123'-1 3/4" ±
T.O. ROOF

118'-10 3/4" ±
T.O. PARAPET

117'-0 3/4" ±
B.O. DU CANOPY

113'-1 3/4" ±
B.O. DU CANOPY

109'-3 1/4" ±
B.O. CANOPY

100'-0" ±
T.O. SLAB
VARIES
SEE CIVIL

NORTH ELEVATION (B)
1/4" = 1'-0"

123'-1 3/4" ±
T.O. ROOF

118'-10 3/4" ±
T.O. PARAPET

109'-3 1/4" ±
B.O. CANOPY

100'-0" ±
T.O. SLAB
VARIES
SEE CIVIL

EAST ELEVATION (A)
1/4" = 1'-0"

REVISIONS:

DATE ISSUED:
4/16/2021

SHREMSHOCK

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Granite State credit union
148-150 FARMINGTON ROAD
ROCHESTER, NH 03867

EXTERIOR ELEVATIONS

CHECKED BY: TEM

DRAWN BY: KNG

PRELIMINARY
NOT FOR CONSTRUCTION

SAI # 200421

DRAWING NUMBER:

A2.1

GENERAL NOTE:
SIGN MANUFACTURER SHALL PROVIDE ALL
BRACKETING AND SUPPORTS FOR SIGNAGE.
ALL SUPPORTS, CONDUITS, ETC. SHALL BE
MADE WEATHER TIGHT BY SIGN INSTALLER
VIA BOTH FLASHINGS AND SEALANTS.

GENERAL NOTES: EXTERIOR ELEVATIONS

1. REFER TO FINISH SCHEDULE FOR ALL INTERIOR FINISHES.
2. REFER TO FLOOR PLAN & DOOR & WINDOW SCHEDULES FOR ADDITIONAL INFORMATION.
3. ALL EXPOSED ALUMINUM MATERIALS TO BE CONSISTENT & MATCH. THIS INCLUDES STOREFRONT FRAMING, DOORS, AWNINGS & INTEGRATED BRAKE METAL PANELS.
4. AS INDICATED IN SPECIFICATIONS & NOTED ON SUBMITTAL SCHEDULE, SUBMIT SHOP DRAWINGS THAT SHOW COMPLETE EXTERIOR PANEL CLADDING SYSTEMS INCLUDING ALL MATERIALS, TRANSITION DETAILS, HORIZONTAL & VERTICAL PANEL JOINTS, & SEALANT REQUIREMENTS.

CODED NOTES: EXTERIOR ELEVATIONS

NOTE: THE DIVISION OF CODED NOTING SYSTEM DOES NOT CONTROL THE DIVISION OF WORK AMONG TRADES NOR THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. REFER TO RESPONSIBILITY SCHEDULE ON DRAWINGS G1.2 FOR ADDITIONAL INFORMATION.

DIVISION 03 - CONCRETE

- 03.1 CONCRETE STOOP, SLOPE AWAY FROM BUILDING AT 1/8" PER FOOT MIN. AND 1/4" PER FOOT MAX. AT WALKING SURFACES. REFER TO CIVIL DRAWINGS.
- 03.2 CONCRETE SIDEWALK, SLOPE AWAY FROM BUILDING AT 1/8" PER FOOT MIN. AND 1/4" PER FOOT MAX. AT WALKING SURFACES. REFER TO CIVIL DRAWINGS.
- 03.3 CONCRETE CURB: REFER TO CIVIL DRAWINGS.

DIVISION 04 - MASONRY

- 04.1 MODULAR BRICK VENEER.
- 04.2 PRECAST CONCRETE SILL.
- 04.3 PRECAST CONCRETE ACCENT BAND.

DIVISION 07 - THERMAL & MOISTURE PROTECTION

- 07.1 PREFINISHED METAL FASCIA.
- 07.2 SELF-ADHERING FLEXIBLE SADDLE FLASHING AT ALL H/L/W WALL INTERSECTIONS. UNDER COPING & WALL PANEL. EXTEND MINIMUM 6" BEHIND EXPOSED FINISH MATERIALS AT DRAINAGE PLANE.
- 07.3 FIBER CEMENT WALL PANEL SYSTEM.
- 07.4 PREFINISHED METAL DRIP EDGE GRAVEL STOP.
- 07.5 PREFINISHED ALUMINUM DOWNSPOUT; REFER TO CIVIL DRAWINGS FOR CONNECTION TO STORM DRAIN.
- 07.6 INSULATED METAL WALL PANEL SYSTEM.

DIVISION 08 - OPENINGS

- 08.1 DOOR & FRAME: REFER TO DOOR SCHEDULE.
- 08.2 ALUMINUM STOREFRONT WINDOW SYSTEM; REFER TO WINDOW SCHEDULE.

DIVISION 10 - SPECIALTIES (REFER TO RESPONSIBILITY SCHEDULE)

- 10.1 SIGNAGE BY VENDOR & SUBMITTED UNDER SEPARATE PERMIT. CONNECTION TO FRAMING & BLOCKING TO BE VERIFIED BY SIGNAGE COMPANY/DESIGNER.

DIVISION 11 - EQUIPMENT (REFER TO RESPONSIBILITY SCHEDULE)

- 11.1 NIGHT DEPOSIT BOX.
- 11.2 DRIVE-UP ATM.
- 11.3 VAT SYSTEM.

DIVISION 22 - PLUMBING (REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION)

- 22.1 GAS METER.
- 22.2 FROST-PROOF HOSE BIB.
- 22.3 BRASS DOWNSPOUT NOZZLE "LAMBS TONGUE" SECONDARY ROOF OVERFLOW. DISCHARGE AT 12" MIN. ABOVE GRADE.

DIVISION 23 - HVAC (REFER TO HVAC DRAWINGS FOR MORE INFORMATION)

- 23.1 APPROXIMATE LOCATION OF MECHANICAL UNITS.

DIVISION 26 - ELECTRICAL (REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION)

- 26.1 EXTERIOR WALL MOUNTED LIGHT FIXTURE.
- 26.2 ELECTRICAL CABINET AND METER.
- 26.3 DRIVE LANE SIGNAGE. COORDINATE ELECTRICAL REQUIREMENTS AND ATTACHMENTS WITH SIGN MANUFACTURER. VERIFY DRIVE UP LANE CANOPY CLEARANCE IN FIELD.

DIVISION 32 - EXTERIOR IMPROVEMENTS (REFER TO CIVIL DRAWINGS FOR MORE INFORMATION)

- 32.1 APPROXIMATE PROPOSED GRADE AT FACE OF BUILDING.

EXTERIOR FINISH SCHEDULE

BR-1 GENERAL SHALE
TYPE: MODULAR FULL BRICK
COLOR: CULPEPPER
MORTAR: SPEC MIX SM-100 GREY

CS-1 NORTHERN DESIGN
SIZE: 7 5/8" H x 3 5/8" W x XX-XX" L TYPICAL
TYPE: ACCENT BAND & SILL
COLOR: NATURAL - F
MORTAR: SPEC MIX SM-100 GREY

FCP-1 JAMES HARDIE
COLLECTION: HARDIE PANEL - SMOOTH
SIZE: 4' x 8'
COLOR: COBBLESTONE

MT-1 MCB
COLLECTION: 7.2 INSUL-RIB INSULATED METAL PANEL
SIZE: 3" HORIZONTAL
COLOR: 300 SIGNATURE SILVER METALLIC

MT-2 HEAVY GAGE METAL FASCIA
COLOR: BLACK

TEG PLEASE PROVIDE DESIRED
LENGTH (MAX.) OF CASE
SILL/ACCENT BAND SECTIONS.

EXTERIOR GLAZING LEGEND

NOTE: REFER TO WINDOW SCHEDULE FOR MORE INFORMATION



1" GLAZING

SOUTH ELEVATION
1/4" = 1'-0" (B)

WEST ELEVATION
1/4" = 1'-0" (A)

REVISIONS:

DATE ISSUED:
4/16/2021

SHREMSHOCK

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Granite State credit union
148-150 FARMINGTON ROAD
ROCHESTER, NH 03867

EXTERIOR ELEVATIONS

PRELIMINARY
NOT FOR CONSTRUCTION

SAI # 200421

DRAWING NUMBER:

A2.2

CHECKED BY: TEM

DRAWN BY: KNG

MEMORANDUM

Ref: 2061A

To: Scott A. Lawler, P.E.
Norway Plains Associates, Inc.

From: Stephen G. Pernaw, P.E., PTOE

Subject: Proposed Credit Union
Rochester, New Hampshire

Date: April 20, 2021

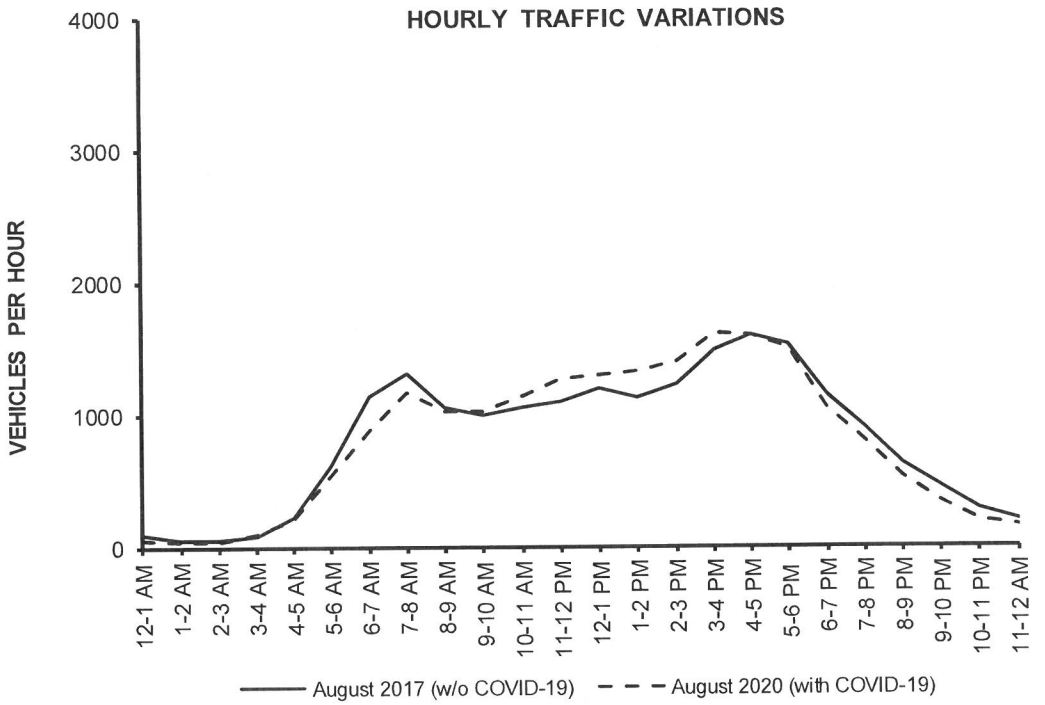
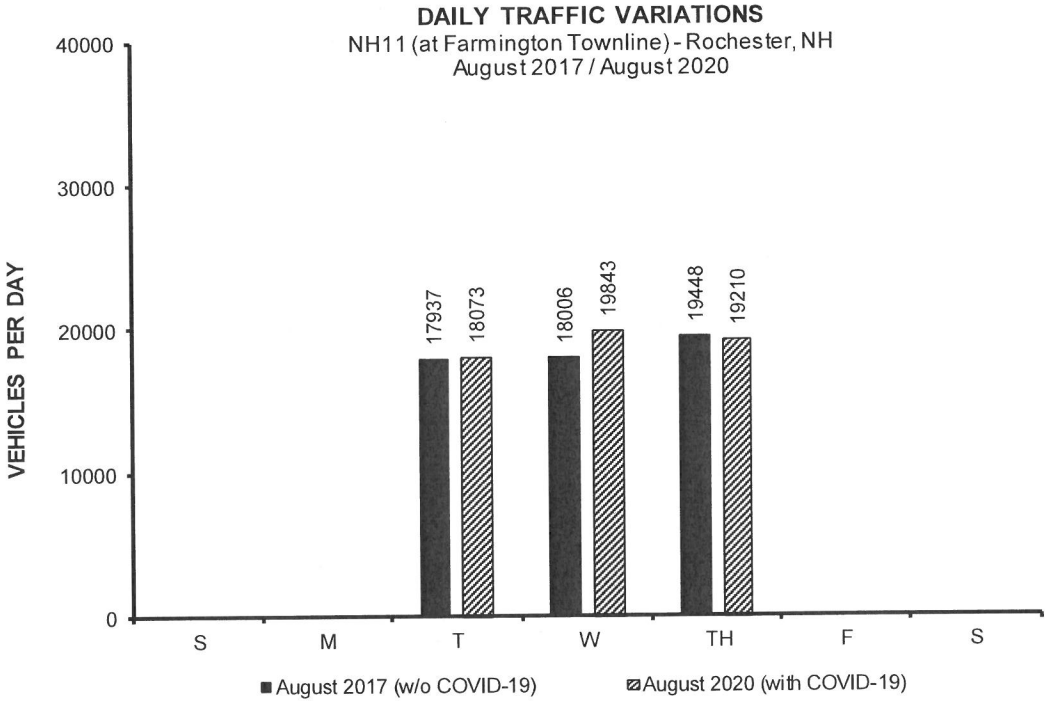
As requested by representatives of the Granite State Credit Union, Pernaw & Company, Inc. has conducted a trip generation analysis for the proposed credit union branch located at the southwest corner of the NH Route 11/Two Rod Road intersection in Rochester, New Hampshire. The purpose of this memorandum is to summarize the results of the trip generation analyses, as well as our research of available traffic count data for this area. To summarize:

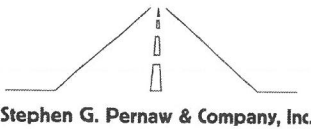
Proposed Development – According to the plan entitled “*Overall Site Plan*,” prepared by Norway Plains Associates, Inc. (see Attachment 1) the proposed development would involve the construction of a single-story credit union branch building (2,985 sf) at 148 & 150 Farmington Road. NH11 provides one through lane in each direction, along with a center turn lane. The speed limit is posted at 40 mph on this section of NH11.

Access to the site is proposed via one new full-access driveway on NH11 located over 300-feet west of the Two Rod Road intersection, and one new full-access driveway located on Two Rod Road approximately 180-feet south of NH11. The existing houses, garage, and sheds on the subject properties will be razed.

Existing Traffic Volumes – Research at the NHDOT revealed that there is a short-term Automatic Traffic Recorder (ATR) count station on NH11 at the Farmington line, located approximately 0.5 miles to the west. This count was conducted in August of 2020. According to the NHDOT reports, this section of NH11 carried an estimated Annual Average Daily Traffic volume of approximately 16,453 vehicles per day (vpd) in 2020, down from 16,928 vpd in 2019 (see Attachment 2).

This data shows that traffic volumes in the area typically reach peak levels during the morning and late afternoon on weekdays; thus reflecting typical commuting patterns. The diagrams on Page 2 graphically show the daily and hourly variations in traffic demand at this location. The detail sheets pertaining to these counts are attached (see Attachments 3 and 4). The raw data collected in August 2020 reflects the influence of the Covid-19 pandemic, when compared to the data collected in August 2017.





Trip Generation - To estimate the quantity of vehicle-trips that will be produced by the proposed credit union branch, Pernaw & Company, Inc. considered the standard trip generation rates and equations published by the Institute of Transportation Engineers¹ (ITE). Land Use Code LUC 912 (Drive-In Bank) is the most applicable land use category for this development proposal, and the gross floor area of the building was utilized as the independent variable.

The trip generation analysis is summarized on Table 1 and shows that the proposed credit union branch will generate approximately 28 vehicle-trips (16 arrival, 12 departures) during the AM peak hour period, and approximately 61 vehicle-trips (31 arrivals, 30 departures) during the PM peak hour period on an average weekday basis, when in full operation (see Attachment 5).

Table 1		Trip Generation Summary (Proposed Credit Union)	
		Proposed Credit Union ¹ (2,985 sf)	
Weekday Total (24 Hrs)			
	Entering	183 veh	
	Exiting	183 veh	
	Total	366 trips	
Weekday AM Peak Hour			
	Entering	16 veh	
	Exiting	12 veh	
	Total	28 trips	
Weekday PM Peak Hour			
	Entering	31 veh	
	Exiting	30 veh	
	Total	61 trips	

¹ITE Land Use Code 912 - Drive-In Bank (AM & PM -Rate Method, Weekday-Equation Method)

¹ Institute of Transportation Engineers, *Trip Generation*, 10th Edition (Washington, D.C., 2017)

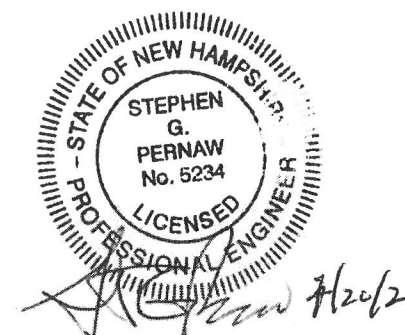
Findings & Conclusions

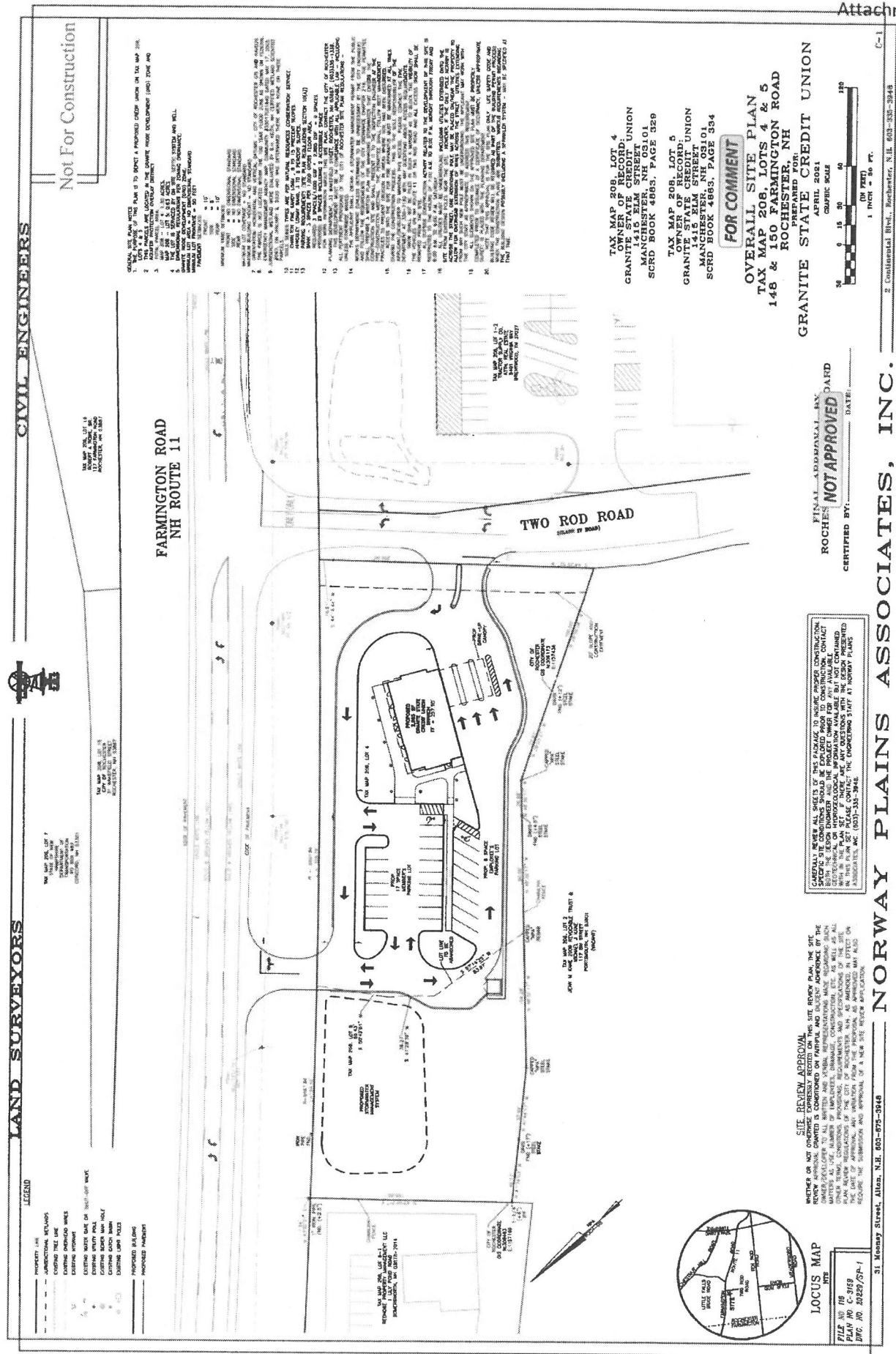
1. The most recent traffic count conducted on NH11 by the NHDOT occurred in August 2020 at the Rochester-Farmington municipal boundary. This section of roadway carried an estimated Annual Average Daily Traffic (AADT) volume of 16,453 vehicles per day in 2020, down slightly from 16,928 in 2019. The raw traffic count data shows that the highest hourly traffic volumes occurred from 7:00 to 8:00 AM and from 3:00 to 4:00 or 4:00 to 5:00 PM on weekdays. The raw data collected in August 2020 is affected to a certain extent by the Covid-19 pandemic, when compared to the data collected in August 2017.
2. The trip generation analysis indicates that the proposed credit union branch will generate approximately 28 vehicle-trips during the AM peak hour (16 arrival, 12 departures) and 61 vehicle-trips during the PM peak hour (31 arrivals, 30 departures) when open.
3. The appropriate forms of traffic control at the NH11/Proposed Site Driveway intersection and the Two Rod Road/Proposed Site Driveway intersection include the installation of STOP sign control (MUTCD R1-1) on the minor approaches, and a 12-24-inch white stop line with a short section of four-inch double-yellow centerline pavement marking to separate inbound and outbound vehicles. The raised median island on the Two Rod Road driveway should have KEEP RIGHT signs (MUTCD R4-7) installed at both ends of the island, facing approaching vehicles.
4. The proposed site driveway on NH11 is located over 300-feet west of Two Rod Road, which provides adequate separation for simultaneous left-turns (and right-turns) from both minor approaches to NH11.
5. The horizontal alignment of NH11 (relatively straight), combined with a flat terrain results in excellent sight distances looking left and right from the proposed driveway approach to NH11; exceeding the NHDOT 400-foot guideline by a considerable margin.

From a traffic engineering standpoint, sites that generate fewer than 500 vehicle-trips per day are considered to be “low” traffic generators. Clearly, the proposed credit union is not a major traffic generator. The proposed site driveway on NH11 is expected to operate safely and efficiently from a transportation engineering standpoint, for the size and type of use that is proposed. This memorandum should be submitted to NHDOT-District Six, along with a signed Driveway Permit Application and the site plan. A second application, signed by the City, may be required by District Six to cover the anticipated “change in use” of Two Rod Road.

Attachments

CC: Dean Bowen, The Element Group







Transportation Data Management System

List View All DIRs

Record

144

 of 5744 Goto Record

go

Location ID	22389051	MPO ID	
Type	SPOT	HPMS ID	
On NHS	No	On HPMS	Yes
LRS ID	S0000011__	LRS Loc Pt.	
SF Group	04	Route Type	
AF Group	04	Route	NH 11
GF Group	E	Active	Yes
Class Dist Grp	Default	Category	4
Seas Clss Grp	Default		
WIM Group	Default		
QC Group	Default		
Fnc't'l Class	Minor Arterial	Milepost	
Located On	Farmington Rd		
Loc On Alias	NH 11 (FARMINGTON RD) AT FARMINGTON TL (EB-WB) (21389128-21389129)		

More Detail

STATION DATA

Directions: 2-WAY EB WB ?

AADT ?

Year	AADT	DHV-30	K %	D %	PA	BC	Src
2020	16,453	1,679	10	60	15,494 (94%)	959 (6%)	
2019	16,928 ³		10	59	15,505 (92%)	1,423 (8%)	Grown from 2018
2018	16,727 ³		10	59	15,423 (92%)	1,304 (8%)	Grown from 2017
2017	16,399	1,600	10	59	15,818 (96%)	580 (4%)	
2016	17,860 ³				16,289 (91%)	1,571 (9%)	Grown from 2015

<<<<>>>>

 1-5 of 23

Travel Demand Model									
Model Year	Model AADT	AM PHV	AM PPV	MD PHV	MD PPV	PM PHV	PM PPV	NT PHV	NT PPV

VOLUME COUNT			
	Date	Int	Total
	Thu 8/27/2020	60	19,210
	Wed 8/26/2020	60	19,843
	Tue 8/25/2020	60	18,073
	Thu 8/31/2017	60	19,448
	Wed 8/30/2017	60	18,006
	Tue 8/29/2017	60	17,937
	Wed 8/20/2014	60	19,563
	Tue 8/19/2014	60	19,474
	Mon 8/18/2014	60	19,421
	Thu 6/23/2011	60	17,278

<<<<>>>>

 1-10 of 83

VOLUME TREND ?	
Year	Annual Growth
2020	-3%
2019	1%
2018	2%
2017	-8%
2016	2%
2015	3%
2014	2%
2011	0%
2008	5%
2005	-2%

<<<<>>>>

 1-10 of 22



Transportation Data Management System



Excel Version

Weekly Volume Report			
Location ID:	22389051	Type:	SPOT
Located On:	Farmington Rd	:	
Direction:	2-WAY		
Community:	ROCHESTER	Period:	Mon 8/28/2017 - Sun 9/3/2017
AADT:	16399		

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Graph
12:00 AM		75	60	86				74	0.4%
1:00 AM		46	41	48				45	0.2%
2:00 AM		43	41	46				43	0.2%
3:00 AM		89	99	85				91	0.5%
4:00 AM		218	225	222				222	1.2%
5:00 AM		580	596	605				594	3.2%
6:00 AM		1205	1133	1132				1,157	6.3%
7:00 AM		1218	1260	1304				1,261	6.8%
8:00 AM		1022	1017	1050				1,030	5.6%
9:00 AM		1006	923	988				972	5.3%
10:00 AM		1011	1006	1056				1,024	5.5%
11:00 AM		1107	1007	1099				1,071	5.8%
12:00 PM		1035	1076	1194				1,102	6.0%
1:00 PM		1073	1069	1125				1,089	5.9%
2:00 PM		1174	1175	1229				1,193	6.5%
3:00 PM		1228	1367	1481				1,359	7.4%
4:00 PM		1499	1517	1600				1,539	8.3%
5:00 PM		1424	1409	1519				1,451	7.9%
6:00 PM		988	967	1143				1,033	5.6%
7:00 PM		736	752	888				792	4.3%
8:00 PM		471	507	618				532	2.9%
9:00 PM		334	366	457				386	2.1%
10:00 PM		217	238	279				245	1.3%
11:00 PM		138	155	194				162	0.9%
Total	0	17,937	18,006	19,448	0	0	0		
24hr Total		17937	18006	19448				18,464	
AM Pk Hr		7:00	7:00	7:00					
AM Peak		1218	1260	1304				1,261	
PM Pk Hr		4:00	4:00	4:00					
PM Peak		1499	1517	1600				1,539	
% Pk Hr		8.36%	8.42%	8.23%				8.34%	



Transportation Data Management System



Excel Version

Weekly Volume Report			
Location ID:	22389051	Type:	SPOT
Located On:	Farmington Rd	:	
Direction:	2-WAY		
Community:	ROCHESTER	Period:	Mon 8/24/2020 - Sun 8/30/2020
AADT:			

Start Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Avg	Graph
12:00 AM		54	56	56				55	0.3%
1:00 AM		32	35	43				37	0.2%
2:00 AM		35	38	40				38	0.2%
3:00 AM		81	80	88				83	0.4%
4:00 AM		188	221	201				203	1.1%
5:00 AM		519	500	529				516	2.7%
6:00 AM		902	903	885				897	4.7%
7:00 AM		1171	1169	1161				1,167	6.1%
8:00 AM		1026	1091	1023				1,047	5.5%
9:00 AM		1024	1155	1026				1,068	5.6%
10:00 AM		1076	1365	1137				1,193	6.3%
11:00 AM		1173	1322	1267				1,254	6.6%
12:00 PM		1203	1400	1299				1,301	6.8%
1:00 PM		1223	1369	1326				1,306	6.9%
2:00 PM		1364	1414	1400				1,393	7.3%
3:00 PM		1452	1555	1604				1,537	8.1%
4:00 PM		1593	1679	1597				1,623	8.5%
5:00 PM		1413	1555	1498				1,489	7.8%
6:00 PM		953	1059	1043				1,018	5.3%
7:00 PM		578	744	793				705	3.7%
8:00 PM		449	500	520				490	2.6%
9:00 PM		300	310	334				315	1.7%
10:00 PM		158	194	196				183	1.0%
11:00 PM		106	129	144				126	0.7%
Total	0	18,073	19,843	19,210	0	0	0		
24hr Total		18073	19843	19210				19,042	
AM Pk Hr		11:00	10:00	11:00					
AM Peak		1173	1365	1267				1,268	
PM Pk Hr		4:00	4:00	3:00					
PM Peak		1593	1679	1604				1,625	
% Pk Hr		8.81%	8.46%	8.35%				8.54%	

Trip Generation Summary

Alternative: Alternative 1
Phase:
Project: 2061A Gen

Open Date: 3/25/2021
Analysis Date: 3/25/2021

ITE	Land Use	Weekday Average Daily Trips			Weekday AM Peak Hour of Adjacent Street Traffic			Weekday PM Peak Hour of Adjacent Street Traffic					
		*	Enter	Exit	Total	*	Enter	Exit	Total	*	Enter	Exit	Total
912	BANKDRIVEIN 1		183	182	365		16	12	28		31	30	61
	2.99 1000 Sq. Ft. GFA												
Unadjusted Volume													
	Internal Capture Trips		183	182	365		16	12	28		31	30	61
	Pass-By Trips		0	0	0		0	0	0		0	0	0
			0	0	0		4	4	8		11	11	22
	Volume Added to Adjacent Streets		183	182	365		12	8	20		20	19	39

Total Weekday Average Daily Trips Internal Capture = 0 Percent
Total Weekday AM Peak Hour of Adjacent Street Traffic Internal Capture = 0 Percent
Total Weekday PM Peak Hour of Adjacent Street Traffic Internal Capture = 0 Percent

* - Custom rate used for selected time period.

