

# NONRESIDENTIAL SITE PLAN APPLICATION

## City of Rochester, New Hampshire

Date: 9/22/2021	Is a conditional use (If so, we encourage y			
Property information				
Tax map #: 125 ; Lot	:#('s): <u>214</u> ;	Zoning district: R2	2	
Property address/location:				
Name of project (if applicab	le):			
Size of site: 0.47 acres				
Property owner				
Name (include name of indi	vidual): Hope On Haven Hil	Inc Kerry Norton		
Mailing address: PO Box 1272	, Rochester, NH 03867			
Telephone #: 603-841-5353 x200	4	_ Email: knorton@hope	eonhavenhill.or	g
Applicant/developer (if Name (include name of indi	vidual):			
Telephone #:		_ Email:		
Engineer/designer				
Name (include name of indi	vidual): Scott A. Lawler; No.	way Plains Associates, Inc.	,	
Mailing address: PO Box 249, Ro	ochester, NH 03867			
Telephone #: 603-335-3948 x110	2	Fax #:		
Email address: slawler@norway				
Proposed activity (check New building(s): X		er structures, parki	ing, utilities	s, etc.): <u>×</u>
Addition(s) onto existing bui	ding(s): De	emolition: <u>x</u>	Change	of use:

escribe proposed activity/use: _to remove the existing church and build a new office a meeting space building.			
Describe existing conditions/use (vacant land?): there is a building that includes a church and rectory building.			
The rectory has been converted to a residential facility and the church is not in use.			
Utility information			
City water? yes X no; How far is City water from the site? Connected			
City sewer? yes <u>X</u> no; How far is City sewer from the site? <u>Connected</u>			
If City water, what are the estimated total daily needs? 355 gallons per day (5 gpd/100 sf for general office space x 7,100 sf)			
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 $\frac{x}{x}$			
Where will stormwater be discharged? Infiltration into the ground			
Building information			
Type of building(s): wood frame			
Building height: 29'-9" Finished floor elevation: 225.50'			
Other information			
# parking spaces: existing: 5 total proposed: 12; Are there pertinent covenants? No Number of cubic yards of earth being removed from the site n/a			
Number of existing employees:; number of proposed employees total:; Check any that are proposed: variance x; special exception; conditional use			
Wetlands: Is any fill proposed? No ; area to be filled:; buffer impact?			

Proposed post-development disposition of site (should total 100%)			
	Square footage	% overall site	
Building footprint(s) – Residential facility	2,477	12.2	
Building footprint(s) – Proposed office building	3,716	18.3	
Parking and vehicle circulation	5,742	28.3	
Planted/landscaped areas (excluding drainage)	8,355	41.2	
Natural/undisturbed areas (excluding wetlands)	0	0.0	
Wetlands	0	0.0	
Other – drainage structures, outside storage, etc.	0	0.0	

#### Page 2 (of 3 pages)

#### Comments

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

A walver is requested to allow for the use off site parking at a public parking lot within 600 feet and on-street parking on Charles Street

A variance was granted to allow for office use in the Residential-2 zoning district.

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

Signature of property owner:		_
	Date:	
Signature of applicant/developer:		_
Signature of agent:	Date:	
	Date:10/25/21	

## 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:

Updated

## 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

October 25, 2021

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



Re: Residential Site Plan Application; Hope on Haven Hill; 38 Charles Street, Map 125, Lot 214.

Dear Ms. Saunders:

On behalf of Hope on Haven Hill, we hereby submit plans and Nonresidential site plan application for a proposed office building located at 38 Charles Street. The parcel, Tax Map 125, Lot 214 comprising of 0.47 acres (20,278 sf) is currently developed with an 8-bed recovery house and the old St. Mary's Church. The parcel is located within the Residential 2 (R-2) zoning district. Access to the property is currently via a single driveway located off Charles Street.

The parcel received a variance from the Rochester Zoning Board of Adjustments and Site Plan approval from the Rochester Planning Board in 2018/2019 to allow for a recovery house within the church rectory (Cases Z-2018-07 & 125-214-R2-19, respectively). At that point, there was limited site improvements needed, with the existing rectory undergoing renovations.

During these public hearing, it was conveyed to the City, that Hope on Haven Hill was evaluating if the existing church would be repurposed for future needs. Since that time, it was determined that the existing church was in too much disrepair and has environmental problems that preclude it from be worthy of rehabilitation. As such, it has been determined that it will be removed.

Home on Haven Hill is proposing to construct a two story office building with associated parking. The roughly 3,6500 square foot print building will contain several office, meeting, interview rooms, with a small laundry room and storage space within the basement. This building will become the main office for Hope on Haven Hills as well as outpatient programming. The proposed office building will operate Monday through Fridays, from 8am to 5pm and will have 4 full time staff with an addition 3 to 4 staff members rotating into the office to meet with clients. These staff would be the same staff that will be associated with the recovery house.

Access to the 12 parking spaces will be via a reconstructed driveway off Charles Street. The proposed office building would require, based on general office space, 22 parking spaces. However, there is provisions within the Rochester Site Review Regulations that allows for a reduction in the overall number of parking spaces when there is public transportation (COAST Bus), public parking lots, and onstreet parking within 660 feet (1/8 mile) of the site. This parcel is within the required distance for all three criteria. As such, a waiver is respectively requested to allow for 12 spaces where 22 would be required.

In accordance with Chapter 218 of the Rochester General Ordinance, stormwater from the some of the existing and all of the new impervious surfaces will be collected via closed drainage system consisting of catch basin and drainage pipes. The runoff collected from the site will be directed towards a proposed inground infiltration system. This system, Stormtech chambers, have been designed to accommodate a 50-year storm event without exceeding the storage capacity. The infiltration basins will allow for the stormwater generated by the development to infiltrate back into the groundwater. In all, the post development stormwater management system will attenuate the peak runoff rates and total volume such that they are equal or less than the corresponding Pre-development runoff conditions for all storm events.

The proposed office will be serviced by City water and sewer. A new water service and fire service will be connected to the City water main Charles Street. Domestic sanitary waste will also be directed toward municipal sewer within Charles Street. New underground utility conduits for electrical, communications, and cable will be installed to the new building.

Snow storage will be located at the ends of the two parking areas as well as in the grass area in the back. Two LED Lighting fixtures will be mounted on poles meeting the requirements of the City of Rochester lighting standards. Trash will be collected within the basement and will taken off site as necessary.

A landscaping plan has been prepared to add a couple of trees and foundation plantings along the front and entry way to the building. The back lawn area will continue to be utilized with playground equipment. Excess concrete walkways and driveway will be removed to provide more green areas. Currently, the southern and easterly property lines have wooden stockade fences which will screen the abutting residential parcels. Hope on Haven Hill recently purchased the property to the north, 36 Charles Street and will continue to keep it as a duplex rental units.

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: Hope on Haven Hill

## 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

October 25, 2021

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

Re: Waiver Request: Section 10(A); Number of Parking Spaces, Residential Site Plan Application; Hope on Haven Hill; 38 Charles Street, Map 125, Lots 214.

Dear Ms. Saunders:

On behalf of Hope on Haven Hill, Norway Plains Associates respectfully requests waivers to the following Site Plan Regulation:

#### Waiver Request Section 10 (A):

Section 10(A) of the Rochester Site Plan Review Regulations requires that the minimum number of designated off street parking shall be provided on each site based upon the type of use, as shown in the Table of Parking Requirements. For Residential use, the requirement is 0.75 spaces per bed for a recovery house. For Office use, the requirement is 3 spaces per 1,000 square feet of gross floor area.

Under the Site Review Regulations, the existing and proposed residential and office use, the total number of parking spaces based on the number of units and total gross floor area of office use is 28 spaces:

8 Beds x 0.75 spaces Plus 7,300 sf Office Building x 3 spaces = 28

Bed 1,000 sf Gross Floor Area

During the February 4, 2019 meeting, the City of Rochester Planning approved the recovery house within the old St. Mary's Church rectory (case 125-214-R2-19). As discussed at this meeting, parking for the house would only be for the limited staff and that the residence of the house would not have vehicles and there would not be allowed to have visitors. Thus, it was agreed that 3 to 4 spaces would be more than adequate for the limited staff.

The proposed office building would require, based on general office space, 22 parking spaces. However, there is provisions within the Rochester Site Review Regulations that allows for a reduction in the overall number of parking spaces when there is public transportation (COAST Bus), public parking lots, and onstreet parking within 660 feet (1/8 mile) of the site. This parcel is within the required distance for all three criteria.

The proposed office building will operate Monday through Fridays, from 8am to 5pm and will have 4 full time staff with an addition 3 to 4 staff members rotating into the office to meet with clients. These staff would be the same staff that will be associated with the recovery house.

The proposed site plan depicts a total of twelve (12) parking spaces, of which two (2) are ADA accessible. Furthermore, two (2) spaces will be designated as "Visitor" spaces near the main doors to the facility.

Given the limited full and rotating staff members, the proximity to public parking and transportation, Hope on Haven Hill is confident that there will be adequate parking for their facilities. Therefore, we respectively request a waiver to allow for less than amount of required parking set forth within the Rochester Site Review Regulations.

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: Hope on Haven Hill

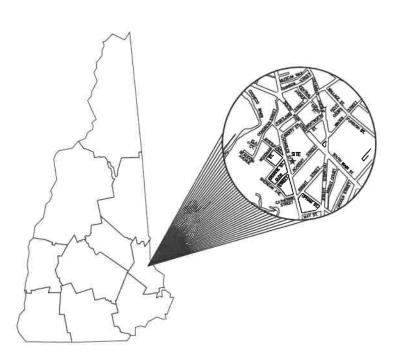
EXISTING RESIDENTIAL

OFFICE BUILDING

OVERALL SITE 1" = 40'

38 CHARLES STREET PREPARED FOR

HOPE ON HAVEN HILL OCTOBER 2021





#### CIVIL ENGINEERS

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

FILE NO. 161 PLAN NO. C-2954 SP-2 DWG NO. 18264\SP-2

#### ARCHITECTS

MARKET SQUARE ARCHITECTS, PLLC 104 CONGRESS STREET, SUITE 203 PORTSMOUTH, NEW HAMPSHIRE 03801 (603) 501-0202

#### LANDSCAPING ARCHITECTS

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

#### OWNER OF RECORD

TAX MAP 125, LOT 214
HOPE ON HAVEN HILL, INC.
PO BOX 1272
ROCHESTER, NH 03866
SCRD BOOK 4593, PAGE 443

#### APPLICANT

HOPE ON HAVEN HILL, INC. PO BOX 1272 ROCHESTER, NH 03866 (603) 695-8585

#### NOT 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.

NATIONAL POLLUTANT DISCHARGE FLIMINATION SYSTEM (NPDES):
NPDES PERMITS ARE ONLY REQUIRED FOR PROJECTS MEETING THE DISTURBED AREA
CRITERIA BLEUW AND HAVING A POINT SOURCE STORMWAITER DISCHARGE FROM THE
SITE TO AN ADJACENT WEILAND OR WAITER BODY (I.E. CULVERT, SWALE, ETC.
OUTLETING TO A WEILAND, CREEK, STREAM OR RIVER).

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

FINAL APPROVAL BY ROCHESTER PLANNING BOARD

STREET

SHEET INDEX COVER

ACADEMY.

COVER
SHEET E-1 EXISTING FEATURES
SHEET E-2 DEMOLITION PLAN
SHEET C-1 OVERALL SITE PLAN
SHEET C-2 SITE LAYOUT PLAN
SHEET C-3 GRADING, DRAINAGE, EROSION AND
SEDIMENTATION CONTROL PLAN
SHEET C-4 UTILITY PLAN
SHEET C-5 CONSTRUCTION DETAILS
SHEET C-7 UTILITY DETAILS
SHEET C-7 UTILITY DETAILS
SHEET C-8 TEMPORARY AND PERMANENT EROSIG SHEET C-4 SHEET C-5 SHEET C-6 SHEET C-7 SHEET C-8 1" = 20' AS SHOWN AS SHOWN AS SHOWN AS SHOWN

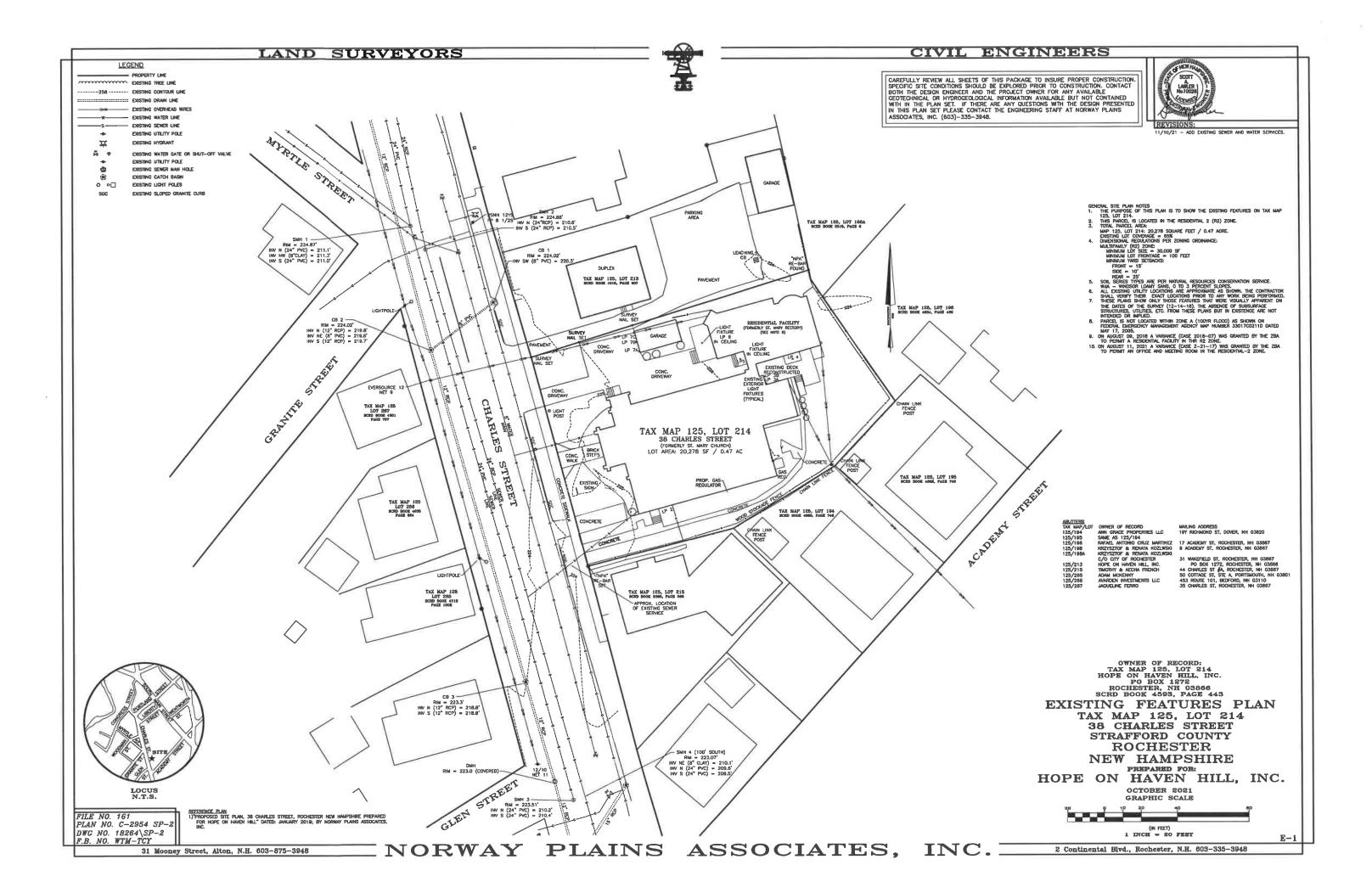
SHEET C-8 TEMPORARY AND PERMANENT EROSION &
AND SEDIMENTATION CONTROL DETAILS
SHEET L-1 SITE LANDSCAPING PLAN
SHEET L-2 LIGHTING PLAN AND DETAILS
SHEET A1.01 OVERALL FLOOR PLAN
SHEET A2.00A BUILDING ELEVATIONS

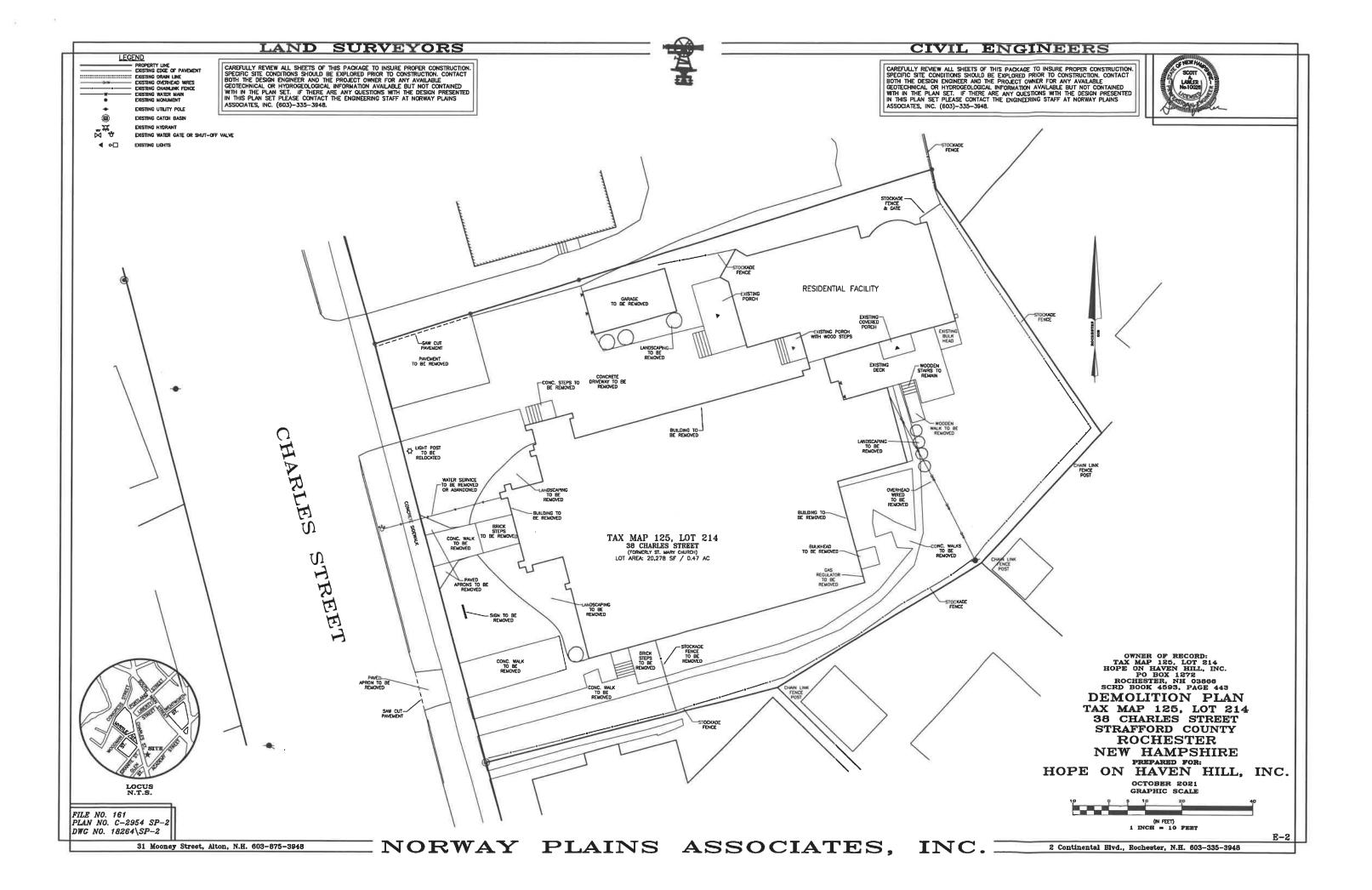
1" = 10' 1" = 10' 1/8" = 1'-0" 3/16" = 1'-0"

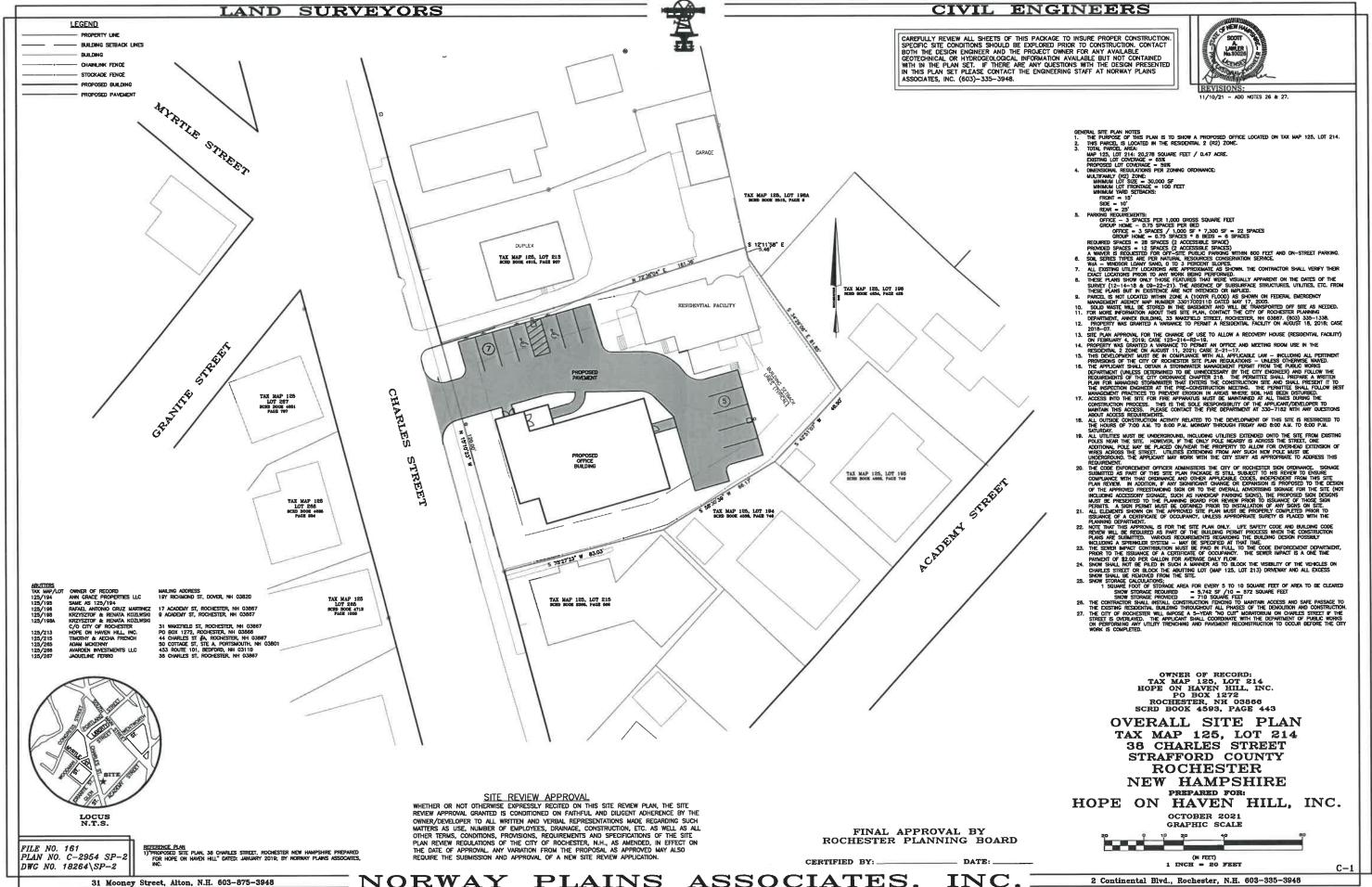
31 Mooney Street, Alton, N.H. 603-875-3948

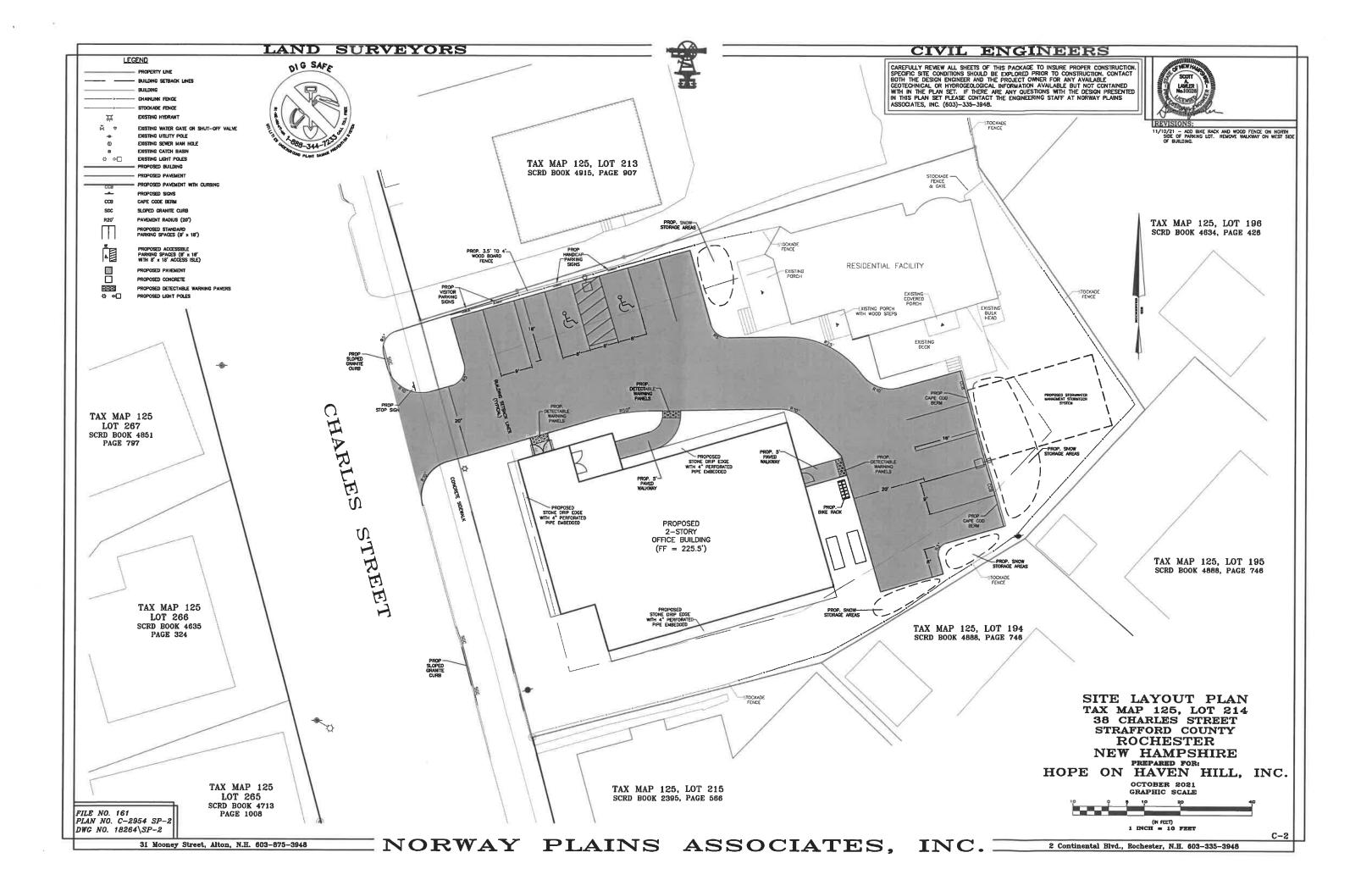
NORWAY PLAINS ASSOCIATES. INC.

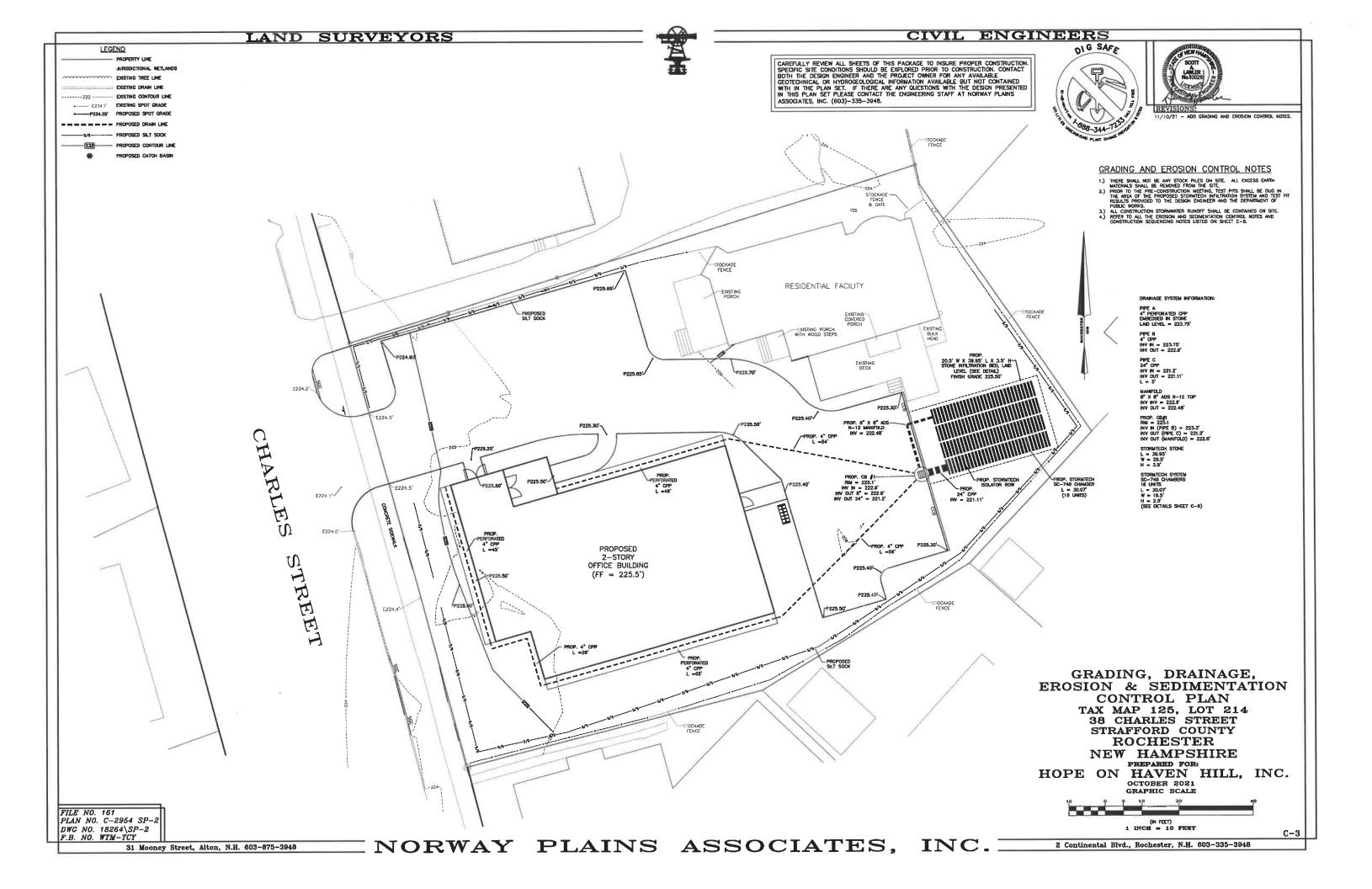
2 Continental Blvd., Rochester, N.H. 603-335-3948

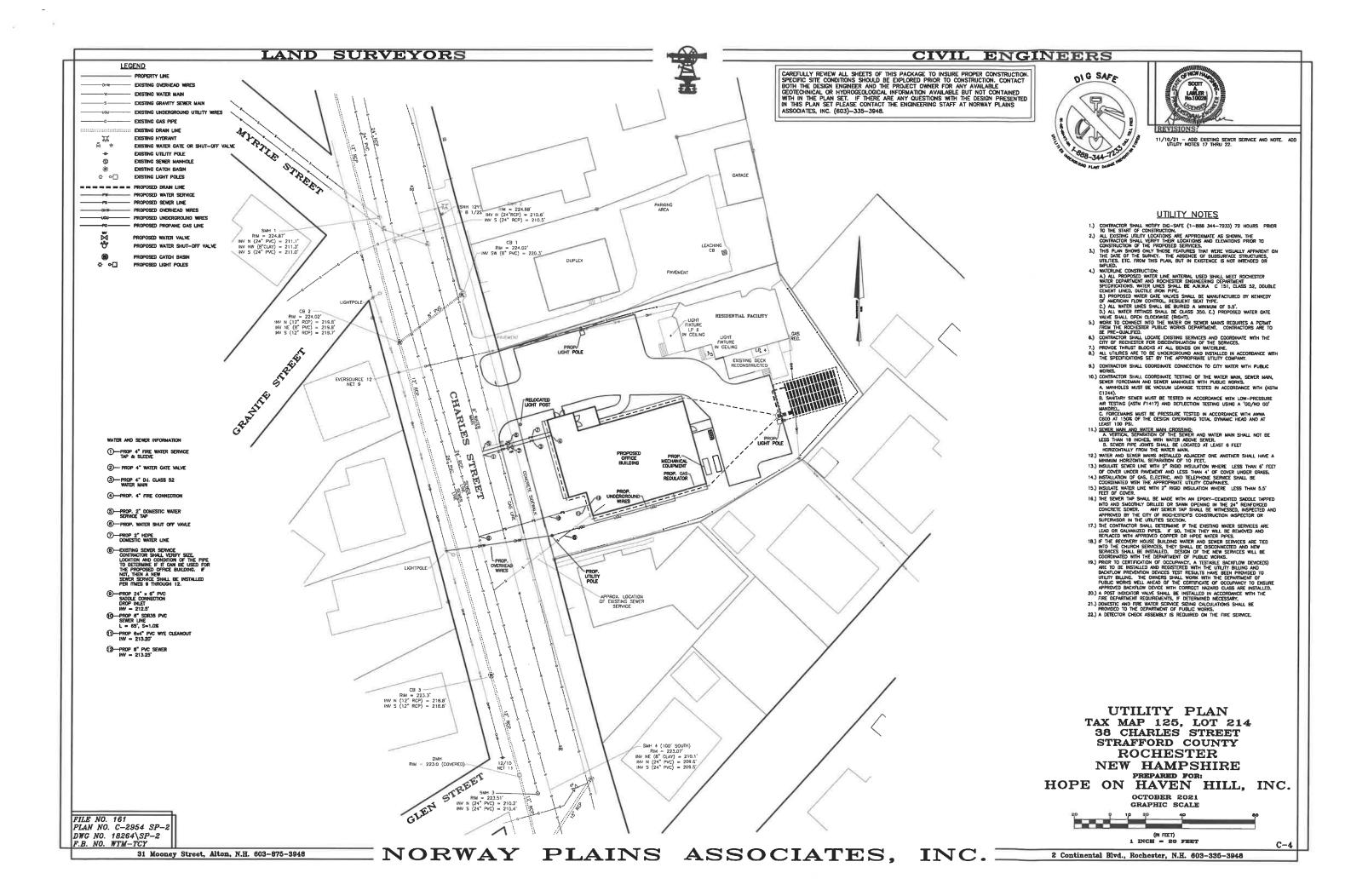


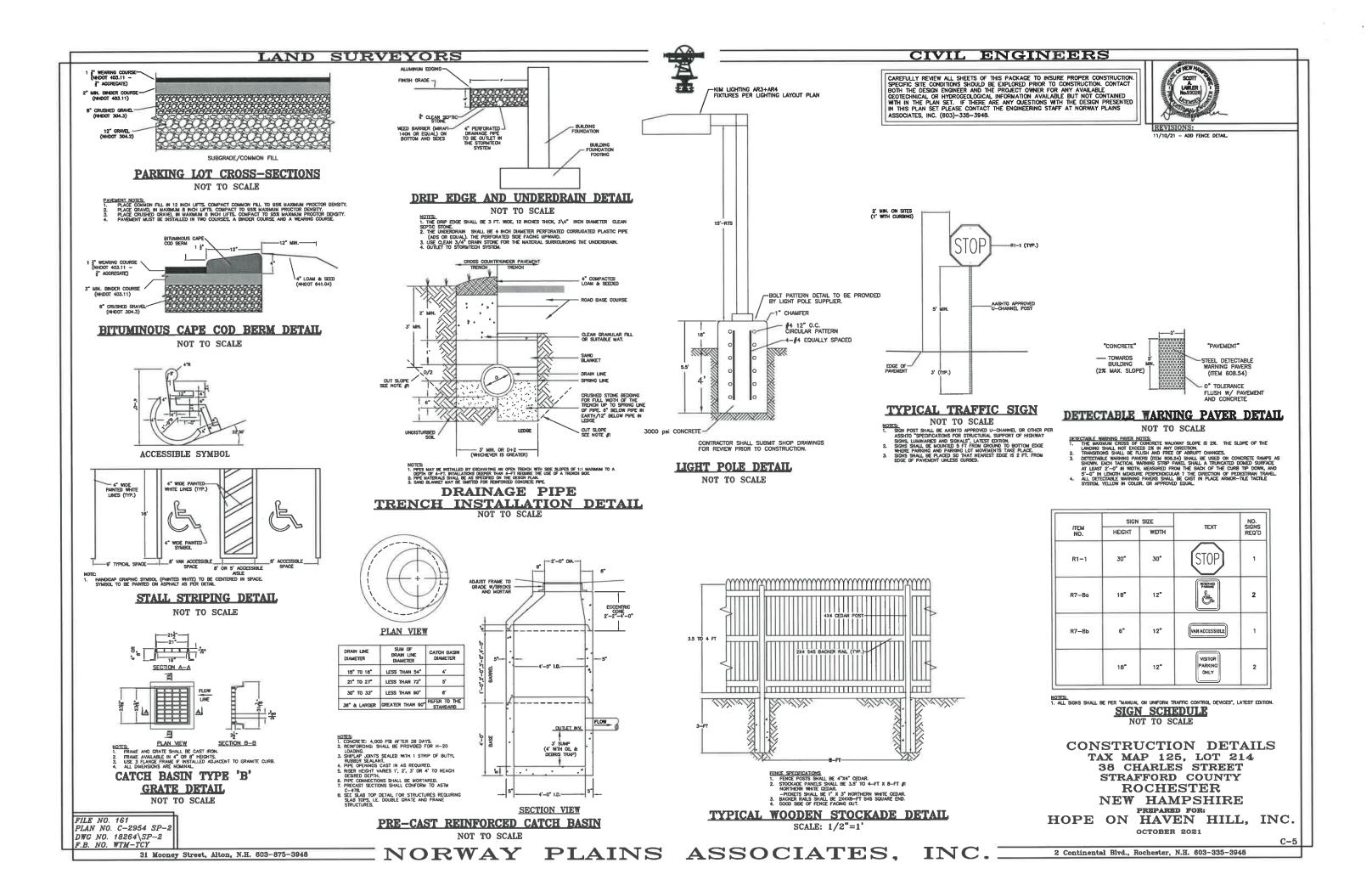












#### LAND SURVEYORS

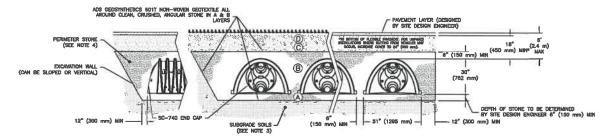
#### ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEM

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT	
D	FINAL FILL, MATERIAL FOR LAYER "D" STARTS FROM THE TOP OF THE "C" LAYER TO THE BOTTOM OF PLEXIBLE PARKELIPT OR UNPARKE PRINSHED GROVE ABOVE, NOTE THAT PARKELIPT SUBBASE MAY BE PART OF THE "D" LAYER.	MY SOIL/ROCK INITERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAYEMENT SUBGRADE REGUREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL, AND PREPARATION REQUIREMENTS.	
С	INITIAL FILL: FILL MATERIAL FOR LAYER "C" STARTS FROM THE TOP OF THE EMBEDMENT STONE ("B" LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE "C" LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.  MOST PAVEMENT SUBBASE MATERIALS CAM BE USED IN LIEU OF THIS LATER.	OR	BESSI COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OPER THE CHARGEST IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LETS TO A MIN. 935 PROCTION DENSITY FOR WELL ORNORD MATERIAL AND 935 PELATINE DENSITY FOR PROCESSED ACREAITE MATERIALS, ROLLER (FORS) SEMILELE WIGHT HOTT TO EXCELE 12,000 Ibs (69 M). DYNAMIC FORCE NOT TO EXCEED 20,000 Ibs (69 M).	
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ("A" LAYER) TO THE "C" LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AISHTO M43' 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.	
Α	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43' 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>	

- MAS) STONE".

  2. STIGRATICH COMPACTION REQUIREMENTS ARE MET FOR "A" LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.

  3. WHERE INFLITATION SURFACES MAY BE COMPACIONISED BY COMPACTION, FOR STANDARD DESIGN, OUTLOOF DATE OF THE MATERIAL CAN BE PLACED IN LAYER "O" OR "O" AT THE SITE DESIGN OF PRIME STONE DESIGN, OUTLOOF DESI



- HALL MEET THE REQUIREMENTS OF ASTM F2418-160, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION
- chambers. Sc-740 Chambers Shall be designed in accordance with asim f2787 "Standard practice for structural design of thermoplastic corrugated wall

- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF INSTRUCTURAL DESIGN OF INSTRUCTURAL DESIGN OF INSTRUCTURAL DESIGN OF INSTRUCTURAL DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANCE OF EMPCTED SOIL MOSTUREE COORDINONS.

  PERMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCANATION WALL FOR BOTH VERTICAL AND SLOPED EXCANATION WALLS.

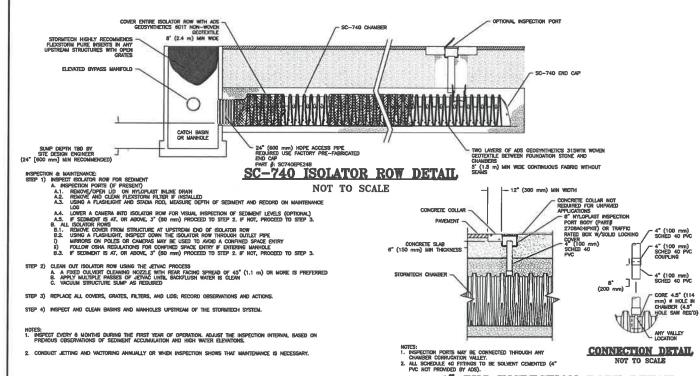
  TO ENSURE FOR HANDLING AND INSTALLATION:

  TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTERPAL, INTERPLOCATING STACKING LIUGS.

  TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2.

  TO ENSURE A SECURE ASTRUCTURE ONTO DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2.

  TO ENSURE AS SECURE ASTRUCTURE ONTO DURING INSTALLATION, a) THE ARCH STIFFINESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL. TO SSO LESS/MIN, AND BY DIS RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 75 F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REPLECTIVE COLD OR YELLOW COLORS.



4" PVC INSPECTION PORT DETAIL NOT TO SCALE

FILE NO. 161 PLAN NO. C-2954 SP-2 DWG NO. 18264\SP-2

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.

#### CIVIL ENGINEERS

STORMTECH CHAMBER SHALL BE STORMTECH SC-740 OR APPROVED EQUAL.

1. CHAMBER'S SHALL BE STORMTECH SC-740 OR APPROVED EQUAL.

2. CHAMBER'S SHALL BE MANUFACTURED FROM VIRON POLYPROPYLENC.

3. CHAMBER'S SHALL BE MANUFACTURED FROM VIRON POLYPROPYLENC.

5. CHAMBER'S SHALL BE MANUFACTURED FROM VIRON POLYPROPYLENC.

6. CHAMBER'S SHALL BE MANUFACTURED FROM VIRON POLYPROPYLENC.

7. THE STRUCTURAL DESIGN OF THE CHAMBER'S, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFICATION.

5. SPECIFIC IN THE ANSHTO LEFT DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURINGHOUR EAD LOADS AND 2) SHORT-DURATION LIVE LOADS, SMEED ON THE ANSHTO LEFT HE ANSHTO LEFT HE CONSCIENTION'S OF OR IMPACT AND MULTIFLE VEHICLE PRESENCES.

5. CHAMBER'S SHALL MEET THE MATERIAL REQUIREMENTS IN STATM F2216, "STANDARD SPECIFICATION FOR POLYPROPHLENC (PP) THERMOPLASTIC CORRUGATED WALL STORMWINET COLLECTION CHAMBER'S CHAMBER CASSIFICATION HAS NOT YET BEEN ADDED TO THE ASTIL F2218 STANDARD.

6. CHAMBER'S SHALL BE DESIGNED AND ALLOWABLE LOADS DETRIBINED HE ACCORDANCE WITH ASTIM F2787, "STRUCTURAL DESIGN OF THE STORMAND COLLECTION CHAMBER'S LIVE AND ALLOWABLE LOADS DETRIBINED HE ASCORDANCE WITH ASTIM F2787, "STRUCTURAL DESIGN OF THE STRUCTURAL DESIGN OF THE STRUCTURAL DESIGN OF THE STRUCTURAL DESIGN OF THE STRUCTURAL DESIGN OF ASTRUCTURAL DESIGN OF ASTRUCTURAL DESIGN OF THE STRUCTURAL DESIGN OF ASTRUCTURAL DESIGN OF ASTRUCTURAL DESIGN OF THE STRUCTURAL DESIGN OF ASTRUCTURAL DESIGN OF THE STRUCTURAL DESIGN O

<u>important — notes for the bidding and installation of the SC-740 system</u> 1. Stormtech SC-740 chambers shall not be installed until the manufacturer's representative has completed a pre-construction meeting with

51.0" X 30.0" X 85.4" (1293 45.9 CUBIC FEET (1.30 m²) 74.9 CUBIC FEET (2.12 m²) 73.0 lbs. (33.6 kg)

10.9" (277

mm)

12.2" (310 mm)

18.4" (467 mm)

19.7" (500 mm)

SC-740 TECHNICAL SPECIFICATIONS

NOT TO SCALE

ADVANCED DRAINAGE SYSTEMS, INC.

12" (300 mm) 14.7" (373 mm)

24" (800 mm) 18 5" (470 mm)

18.5" (470 mm)

16.5" (419 mm)

14.5" (368 mm)

12.5" (318 mm)

9.0° (229 mm)

5.0" (127 mm)

D.5" (13 mm)

0.8" (15 mm)

0.₹" (18 mm)

1.2" (30 mm)

1.3" (33 mm)

1,6° (41 mm) 0,1° (3 mm)

IMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS EXDING WITH "6" STUBS AT TOP OF END CAP FOR PART NUMBERS EXDING WITH "7" PART # STUB A SC740EPE06T / 10.9" 1277 49.5

6" (150 mm)

15" (375 mm)

- NOTES FOR CONSTRUCTION EQUIPMENT

  1. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:

  \* NO EQUIPMENT SA ALLOWED ON BARE CHAMBERS IS LIMITED:

  \* NO EQUIPMENT SA ALLOWED ON BARE CHAMBERS IS LIMITED:

  \* NO EQUIPMENT SA ALLOWED ON BARE CHAMBERS IS LIMITED:

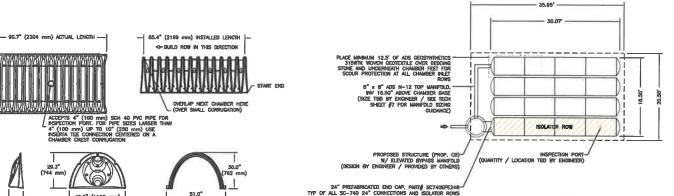
  \* STORAITED SA ALLOWED ON BARE CHAMBERS IS ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE

  \* STORAITED SA ALLOWED ON SA ALLOWED IN ALLOWED ON BARE ALLOWED IN THE "STORAITED SA SC-740 CONSTRUCTION GUIDE".

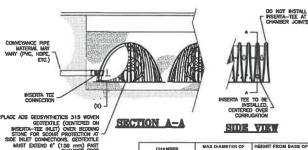
  3. FULL 38" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.



(10) STORMIECH 50-740 END CAPS INSTALLED WITH 6° COVER STONE, INSTALLED SYSTEM VOLUME: 1473 CF AREA OF SYSTEM: 727 FF PERIMETER OF SYSTEM: 113 FT



SC-740 PLAN VIEW NOT TO SCALE



#### INSERTA TEE DETAIL

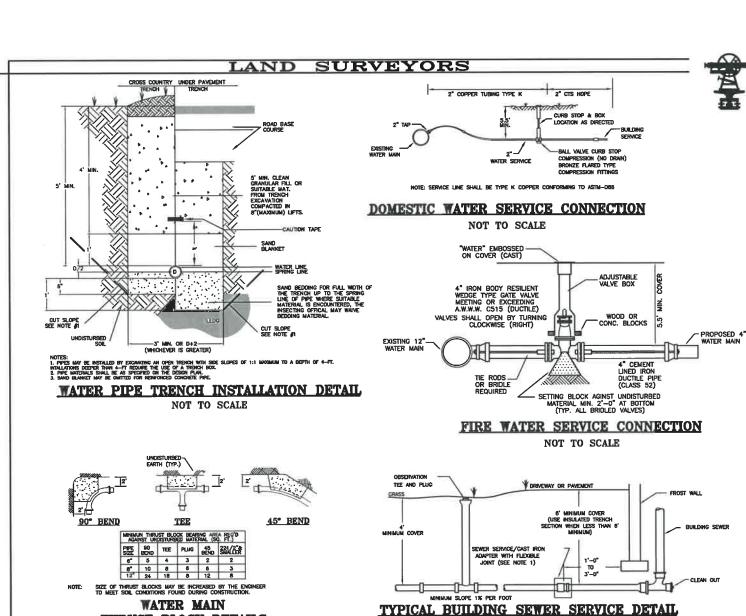
NOT TO SCALE

DRAINAGE DETAILS TAX MAP 125, LOT 214 38 CHARLES STREET STRAFFORD COUNTY ROCHESTER NEW HAMPSHIRE PREPARED FOR:

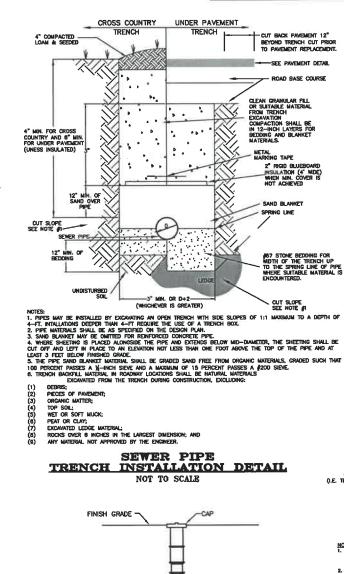
HOPE ON HAVEN HILL, INC.

OCTOBER 2021

NORWAY PLAINS ASSOCIATES. INC.



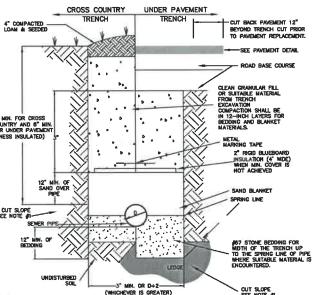
NOT TO SCALE



#### CIVIL ENGINEERS

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

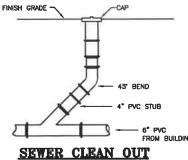




ROCKS OVER 6 INCHES IN THE LARGEST DIMENSION; AND ANY MATERIAL NOT APPROVED BY THE ENGINEER.

## SEWER PIPE TRENCH INSTALLATION DETAIL

NOT TO SCALE



NOT TO SCALE

#### GENERAL UTILITY NOTES

- 1.) CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888 344-7233) 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
  2.) ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THEIR LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION OF THE PROPOSED SERVICES.
  3.) THIS PLAN SHOWS ONLY THOSE FEATURES THAT WERE VISUALLY APPARENT ON THE DATE OF THE SURVEY. THE ASSENCE OF SUBSURFACE STRUCTURES, UTILITIES, EICH, FROM THIS PLAN, BUT IN EXISTENCE IS NOT INTENDED OR
- AND ELEVATIONS PROOF.

  AND ELEVATIONS PROOF.

  THIS PLAN SHOWS ONLY THOSE FEATURES INDICATED.

  AND ELEVATIONS PROOF.

  AND ELEVATIONS PROOF
- ESILIENT SEAT TYPE.

  ) ALL WATER INITINGS SHALL BE BURIED A MININUM OF 5.5'.

  ) ALL WATER FITTINGS SHALL BE CLASS 350. E.) PROPOSED WATER GATE VALVE SHALL OPEN CLOCKWISE (RIGHT).

  OR OCHWECT INTO THE WATER OR SEWER MAINS REQUIRES A PERMIT FROM THE ROCHESTER PUBLIC WORKS
  EPARTMENT. CONTRACTORS ARE TO BE PRE-COULDITIED.

- DEPARTMENT. CONTRACTORS ARE TO BE PRE-QUALIFIED.

  5. CONTRACTOR SHALL LOCALE EXISTING SERVICES AND COORDINATE WITH THE CITY OF ROCHESTER FOR DISCONTINUATION OF THE SERVICES.

  7. PROVIDE THRUST BLOCKS AT ALL BENDS ON WATERLINE.

  8. ALL UTILITIES ARE TO BE UNDERGROUND AND INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS SET BY THE APPROPRIATE UTILITY COMPANY.

  9. CONTRACTOR SHALL COORDINATE COMPANY.
- APPROPRIATE UTILITY COMPANY.

  9. CONTRACTOR SHALL COORDINATE CONNECTION TO CITY WATER WITH PUBLIC WORKS.

  10.) CONTRACTOR SHALL COORDINATE TESTING OF THE WATER MAIN, SEWER MAIN, SEWER FORCEMAIN AND SEWER MANNOLES WITH PUBLIC WORKS.

  A. MANHOLES MUST BE VACUUM LEAKAGE TESTED IN ACCORDINGE WITH (ASTM C1244).

  B. SANTARY SEWER MUST BE TESTED IN ACCORDINGE WITH LOW-PRESSURE AIR TESTING (ASTM F1417) AND DEFLECTION TESTING USING A 'GO/NO GO' MANOREL.

  C. FORCEMAINS MUST BE PRESSURE TESTED IN ACCORDANCE WITH AWAY C600 AT 150% OF THE DESIGN OPERATION TOTAL DITAMEC HEAD AND AT LEAST 100 PSI.
- 11.) SEWER MUN AND WATER MAIN CROSSING:
  A. VERTICAL SEPARATION OF THE SEWER AND WATER MAIN SMALL NOT BE LESS THAN 18 INCHES, WITH WATER
- ABOVE SEWER.

  8. SEWER PIPE JOINTS SHALL BE LOCATED AT LEAST 6 FEET HORIZONTALLY FROM THE WATER MAIN.

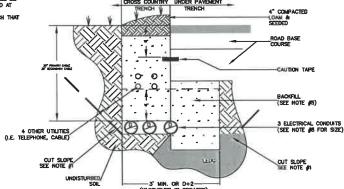
  12.) WATER AND SEWER MAINS INSTALLED ADJACENT ONE ANOTHER SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET.
- OF 10 FEET.

  13.) INSULATE SEWER LINE WITH 2" RIGID INSULATION WHERE LESS THAN 6" FEET OF COVER UNDER PAVEMENT AND LESS THAN 4" OF COVER UNDER GRASS.

  14.) INSTALLATION OF GAS, ELECTRIC, AND TELEPHONE SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANIES.
- CUMPAPILS.

  15.) INSULATE WATER LINE WITH 2" RIGID INSULATION WHERE LESS THAN 5.5" FEET OF COVER.

  16.) THE SEWER TAP SHALL BE MADE WITH AN EPOYT"-CEMENTED SADDLE TAPPED INTO AND SMOOTHLY DRILLED OR SAWN OPENING IN THE 24" REINFORCED CONCRETE SEWER. ANY SEWER TAP SHALL BE WITHESSED, INSPECTED AND APPROVED BY THE CITY OF ROCHESTER'S CONSTRUCTION INSPECTOR OR SUPERVISOR IN THE UTILITIES SECTION.



MANISHES WILL HOT BE ACCEPTED. ALL STEEL CONDUITS WALL DONFORM TO ASTEM ATO AND BE RIGHD CAMMAND STEEL. ALL PAC JOINTS MAST
BE CEMBERTED. STEEL FITTINGS SWALL BE SALED WITH COMPOUND.
ALL 90 DOCREE SWEED'S WILL BE MADE USING FROM DAMINED. WITH A MINISHAM FAULUS OF 36 INCRES FOR PRIMARY CHALES AND 24 INCRES
FOR SECONDAY, ORDER. ALL STEEL SWEED'S WITHIN 15" OF THE SUMPACE SHALL BE PROCEED WITHOUT SWEEDINGS.
ALL 90 DOCREE SWEED'S WILL BE MADE USING FROM THE SUMPACE SHALL BE PROCEED WITHOUT SWEEDINGS.
IN CORRECT SOCIETY OF SWEED'S WITHIN 15" OF THE SUMPACE SHALL BE PROCEED.
FOR SCHOOL AND THE SWEED'S WITHIN 15" OF THE SUMPACE SHALL BE PROCEED.
FOR CONDUIT SHALL CROSS PROME AREAS AT APPROXIMATELY OF THE OWNERS CHALE PALINE.

BECOMEL HAVE BE MADE USING DOCUMED MATERIAL OF CORRECTIONS.

THE CONDUIT SHALL CROSS PROVE DECRESS, MOTHER OF THE SWEEDING SHALL SHALL BE
PROCEED.

FOR SHALL BE ALL SHALL SHALL SHALL SHALL SHALL SHALL BE
PROCEED.

FOR SHALL SHALL SHALL SHALL SHALL SHALL SHALL BE
PROCEED.

FOR SHALL SHALL SHALL SHALL SHALL SHALL SHALL BE
PROCEED.

FOR SHALL SHALL SHALL SHALL SHALL SHALL SHALL BE
PROCEED.

FOR SHALL SHALL SHALL SHALL SHALL SHALL BE
PROCEED.

FOR SHALL SHALL SHALL SHALL SHALL SHALL SHALL SHALL BE
PROCEED.

FOR SHALL SHALL

COMPACTED IN 6-RICH TAYRES.

A SURFACED IN 6-RICH TAYRES.

A SURFACED IN 6-RICH TAYRES.

A SURFACE PALL STRING, CHEMBE OF 200 POUNDS OF PALL, MUST BE BISTALED IN THE COMPACT BEFORE EXPECTAGE IS NOTIFIED TO BISTALL CASE. THE STRING SHOULD BE BLOWN 810 THE COMPACT BE BLOWN 810 THE COMPACT BEFORE EXPECTAGE IS NOTIFIED TO BISTALL CASE. THE STRING SHOULD BE BLOWN 810 THE COMPACT BE BLOWN 810 THE COMPACT BE STRING SHOULD BE BLOWN 810 THE COMPACT BE PROVIDED BY PRESONANCE. RESTRING TO THE COMPACT BE PROVIDED BY PROSECUTED THE RESISTANCE. IN THE EXPENT THAT A PROVIDED BY PAUL THROUGH THE COMPACT BY COUNTY STEED BY PROVIDED BY PAUL THROUGH THE COMPACT BY COUNTY STEED BY RESONANCE, AND SECONANCE AND SECO

se premier.

In the capture consists extension of the inchonal electric safety code, state and local codes and inchonal electric codes. And inchonal electric codes are inchonal electric codes. And inchonal electric codes are inchonal to a depth of 4-ft. Installations deeper than a code inchonal to a depth of 4-ft.

### ELECTRICAL & UNDERGROUND UTILITY TRENCH INSTALLATION DETAIL

NOT TO SCALE

UTILITY DETAILS TAX MAP 125, LOT 214 38 CHARLES STREET STRAFFORD COUNTY ROCHESTER **NEW HAMPSHIRE** PREPARED FOR: HOPE ON HAVEN HILL, INC.

C-7

FILE NO. 161

PLAN NO. C-2954 SP-2 DWG NO. 18264\SP-2

F.B. NO. WTM-TCY

THRUST BLOCK DETAILS

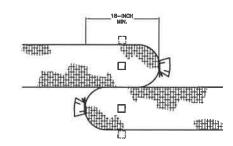
NOT TO SCALE

APPLY DUST CONTROL MEASURES AS NECESSARY TO MAINTAIN CONTROL OF DUST ON SITE. WATER APPLICATION:

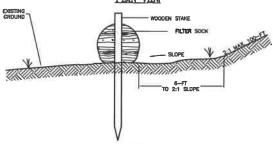
TIER\_APPLICATION:
MOSTED ROPOSED SOIL SURFACES PERIODICALLY WITH ADCOUATE WATER TO CONTROL DUST.
AVOID EXCESSIVE APPLICATION OF WATER THAT WOULD RESULT IN MOBILIZING SEDIMENT AND SUBSEQUENT
DEPOSITION IN NATURAL WATEREDOLES.

DEPOSITION IN MATURAL WATERCOMMENT.

STONE APPLICATION:
A) COVER SURFACE WITH CRUSHED OR COARSE CRAVEL.
B) IN AREAS NEAR WATERWAYS USE ONLY CHEMICALLY STABILIZED OR WASHED AGGREGATE.
REFER TO "NEW HAMPSHIRE STORWAYER MANAGEMENT MARKINL, VOLUME 3 CONSTRUCTION PHASE EROSION AND SEDIMENT CONTROLS, DECEMBER 2008" FOR OTHER ALLOWABLE DUST CONTROL PRACTICES (I.E. COMMERCIAL TACKFIERS OR CHEMICAL TREATMENTS SUCH AS CALCIUM CHLORDE, ETC.)



FILTER SOCK CONNECTION



#### FILTER SOCK CROSS-SECTION

CONTINUOUS CONTAINED BERM (FILTER SOOK ALTERNATIVE);

1. AN ALTERNATIVE PRODUCT, THE CONTINUOUS CONTAINED BERM (OR "FILTER SOOK") CAN BE AN EFFECTIVE SEDIMENT BARRER AS IT ADDS CONTAINENENT AND STABLENTY TO A BERM OF EROSION CONTROL MIX.

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

3. INSTALLATION OF CONTINUOUS CONTAINED BERMS SHALL BE PERFORMED IN ACCORDANCE WITH THE SECRIFICATIONS OF THE MANUFACTURED.

<u>maintenance requirements:</u> 1. Filter sock maintenance shall follow the same schedule as erosion control Mix Berms.

CONSTRUCTION SPECIFICATIONS:

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

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

3. IT MAY BE NECESSARY TO OUT TALL REASSES AND MOODY VECTATION TO AVOID CREATING VOIDS AND BRIDGES IN THE BARRIER THAT WOULD ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLACES OR PLANT STEMS.

FILTER SOCK DIAMETER (HEIGHT) SHALL BE PER THE MANUFACTURER RECOMMENDATION FOR THE AREA OF

## CONTINUOUS CONTAINED BERM <u>"FILTER SOCK" DETAIL</u>

NOT TO SCALE

#### PERMANENT VEGETATION SEEDING RECOMMENDATIONS

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

SOURCES:

1. NEW HAMPSHIRE STORMWATER MANAGEMENT MANUAL, VOLUME 3, TABLES 4-2 AND 4-3 FILE NO. 161 MINNICK, E.L. AND H.T. MARSHALL, (AUGUST 1992) PLAN NO. C-2954 SP-2 DWG NO. 18264\SP-2

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

F.B. NO. WTM-TCY

PERMANENT VEGETATION:

SITE PREPARATION:

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

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

3. RINOFF SHALL BE DIVERTED FROM THE SEEDBED AREA.

4. ON SLOPES 41 OR STEEPER, THE FIRM, PREPARATION SHALL INCLUDE CREATING HORIZONTAL GROOVES PERPENDICULAR TO THE DIRECTION OF THE SLOPE TO CATCH SEED AND REDUCE SILVINGE.

RINGEY.

SECURED PERPARATION:

1. WORK LINE AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4

INCHES WITH AD DISC. SERING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL

HARROWING DEPARTON SHALL BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL

REASONARY LINGERIN, PINE SECIEDED IS PREPARED. ALL BUT CLAY AND SLT SOILS SHALL

REMOVE FROIL THE SITE ARE SECIEDED WHEREVER FEASIBLE.

REMOVE FROIL THE SITE ARE ALL STOKES ZINCHES OR LARGER IN ANY DIMENSION. REMOVE

OR OTHER UNSUITABLE MATERIAL. CABILE, THE ROOTS, CONCRETE CLOSS, LUMPS, TRASH

OR OTHER UNSUITABLE MATERIAL.

INSPECT SEEDED JUST SEFORS SECIEDING. IF TRAFFIR HAS LETT THE SOIL COMPACTED; THE

AREA MUST BE TILLED AND FRINDED AS ABOVE.

HIRRET THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A

DEPTH OF 2 INCHES BEFORE SEPTIME FOR FIXERITIZER, LIME AND SEED.

JE POSTULAGES, THE TRAINER AND GRAMMES COIL ABROCHMENTS SHALL BE APPLIED DURING THE

FRAFILLES STATISTICES AND GRAMMES COIL ABROCHMENTS SHALL BE APPLIED DURING THE

SHALL BE RESTRICTED TO LIME, WOOD ASH OR LOW PROSPHATE AND SOW RELEASE

NITROGEN VARIETIES, UNLESS A SOIL TEST WARRANTS OTHERWISE, IF SOIL TESTING IS NOT

FEASIBLE ON SHALL ON VARIABLE SITES OF WHERE THINGE IS OTHICAL FERTILIZER AND

LIMESTONE AND FEATURES. OF WHERE THINGE IS OTHICAL FERTILIZER AND

LIMESTONE AND FEATURES.

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

HYDROSEDING.

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

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

3. LILLE AND FERTILIZER MAY BE APPLIED SHULTANEOUSLY WITH THE SEED. THE USE OF FIREM MULCH ON CRITICAL AREAS IS NOT RECOMBINIONE UNLESS IT IS USED TO HOUD STRAW OR HAY). BETTER PROTECTION IS CANNED BY USING STRAW MULCH AND HOLDING IT WITH ARHESING MATERIALS OR SOO POUNDS DEPR ACPE OF WOOD FIREM MULCH.

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

MAINTENANCE REQUIREMENTS.

I. PERMANENT SEDIED AREAS SHALL BE INSPECTED AT LEAST MONTHLY DURING THE COURSE OF THE STREET OF THE

EXPOSED SOILS.

AT A MORMINI 85% OF THE SOIL SURFACE SHALL BE COVERED BY VEGETATION.

IF ANY EVIDENCE OF EXCISION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND AFEAS SHALL BE RESCEED, WITH OTHER TEMPORARY MEASURES (LE. MULCH, ETC.).

USED TO PROVIDE EXCISION PROTECTION DURING THE PERFOR OF VEGETATION ESTABLISHME

#### TEMPORARY VEGETATION:

SECOTICATIONS.

II. HISTALL NEDDED EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILTATION BARRIERS, DIVERSIONS, AND SEDIMENT TRAPS.

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

3. RUNOFF SHALL BE DIVERTED PROM THE SEEDBED AREA.

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

RINGEF.

SEDDRED PREPARATION.

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

2. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A
DEPTH OF 2 INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED.

3. F. APPLICABLE, FERTILIZER AND ORGANIC SOIL ARBONDENTS SHALL BE APPLIED DURING THE
GROWING SEASON.

4. APPLY LIBERTONE, 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, FO SOIL TESTING IS NOT FEASIBLE ON
SHALL OR VARABLE STES, ON HERRE 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 SOX CALCIUM PLUS MAGNESIUM OXIDE

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

SEDIE!

APRLY SED UNFORMLY BY HAND, CYCLONE SEDER, DRILL CILITRACKER TYPE SEDER OR

APRLY SEDER (SQURRY INCLIDING SED AND FERTILIZER). HORIAL SEDING DEPTH IS FROM

1/4 TO 1/2 INCH. HORDSCEDING THAT INCLIDES MULDI MAY BE LETT ON SOIL SUFFACE.

SEDING RATES MUST BE INCREASED BY TOX WHEN HYDROSEDING THAT INCLIDES MUST BE LETT ON SOIL SUFFACE.

SEDING RATES MUST BE INCREASED BY TOX WHEN HYDROSEDING THAT

I. TEMPORARY SED SHALL TYPICALLY COURT PRIOR TO SEPTEMBER 13.

AREAS SEDED BETWEEN MAY 15 AND AUGUST 15 SHALL BE COVERED WITH HAY OR STRAW

MULCH, ACCRONING TO THE "EMPORARY AND PERMANENT MULCHING" PRACTICE DESCRIBED IN

THE MYSSIA. VOCAN COVERNO AT LEAST 83% OF THE DISTURBED AREA SHALL BE ACHEVED

PRIOR TO GOTOBER 19. IF THIS CONTINION IS NOT ACHIEVED, IMPLEMENT OTHER TEMPORARY

STABILIZATION MEASURES FOR OVER WINTER PROTECTION.

MAINTEANCE REQUIREMENTS:

1. TEMPORARY SEDING SHALL BE INSPECTED WEBLY AFTER ANY RARFALL EXCEPTING 1/2 INCH 1/2 HOURS ON ACTIVE CONSTRUCTION SITES. TEMPORARY SEDING SHALL BE INSPECTED JUST PROVES ON ACTIVE CONSTRUCTION SITES. TEMPORARY SEDING SHALL BE INSPECTED JUST PROVES STABILIZATION OVER THE MINISTER PERSON.

2. BASED ON INSPECTION, AREAS SHALL BE RESEDED TO ACTIVE FILL STABILIZATION AS THE ACTIVE TO ACTIVE THE ACTIVE THE ACTIVE THE ACTIVE THE ACTIVE THE ACTIVE TO ACTIVE THE ACTIVE THE

CONSTRUCTION PHASING:

#### 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 PILEASE CONTACT THE ENGINEERING STAFF AT NORWAY PLAINS ASSOCIATES, INC. (603)-335-3948.



PROJECT SPECIFIC

CONSTRUCTION PHASING:

1. REPET TO THE "EMPLA CONSTRUCTION PHASING" NOTES PRIOR TO COMMISSION OF CHISTRICITION IN ACCORDANCE WITH THE POLICIPIES.

PHASING: THE "ELECTRUM" IN ACCORDANCE WITH THE POLICIPIES.

PHASING: THE CELEBRAL CONSTRUCTION PHASING" NOTES APPLY TO THE OWERALL CONSTRUCTION AND SHALL BE ADDRESSED TO.

PHASING: THE CELEBRAL CONSTRUCTION PHASING: NOTES APPLY TO THE OWERALL CONSTRUCTION AND SHALL BE ADDRESSED TO.

PHASING: AND CONSTRUCTION AND SHALL BE ADDRESSED TO.

PHE CONSTRUCTION BY THE ASSOCIATION OF THE CONSTRUCTION OF THE PRICES OF THE CONSTRUCTION OF THE STORM HAVE ADDRESSED ON SHEET C.2. PRIOR TO ANY SITE DEBICATION AND EARTH MOVING OPERATIONS. ALL EXCORDING CONTROL PRICE-CONSTRUCTION MEETING.

3. INSTALL ORANGE SHOW FENCE AROUND THE PERMILETE OF THE INFLITATION SYSTEM AREA AND THE FENCE SHALL REMAIN IN PLACE WITH CONSTRUCTION OF THE SYSTEM HAS STARTED.

4. REDS AS DEPICTED ON THE DEBICACTION PLAN. ALL CONSTRUCTION DEPISS AND WASTE SHALL BE DISPOSED OF OFF-STE IN ACCORDING WHIS TAKE AND INCL. REGILATIONS.

5. INSTALL A TEMPORARY CONSTRUCTION DELT AT THE LOCATION OF THE PROPOSED DISPOSED CONNECTION TO CHARLES STREET. MAINTAIN AS CONTRACTORS SHALL RESEARCE WHIS AND PROPOSED DISPOSED CONNECTION TO CHARLES STREET. MAINTAIN AS STORMATICONS.

6. CONTRACTOR SHALL INSTALL SAFETY FERCING TO RESIDE SHEET. MAINTAIN AS STORMATICONS.

7. PERFORM THE RECESSARY CUTS AND FILLS TO SUBGRADE OF THE STORMATICON SYSTEM AS DEPOCRED ON TO ACCORDANCE TO THE MAINTAIN AS STORMATICON SYSTEM AND PLAN FILLS TO SUBGRADE OF THE STORMATICON SYSTEM AS DEPOCRED ON SEPECE\_S AND M.

8. CONSTRUCT THE STORMATICON SYSTEM IN ACCORDANCE TO THE MAINTAIN AS STORMATICON SYSTEM AS DEPOCRED ON ACCORDANCE TO THE CONSTRUCT ON EXAMINATION OF THE STORMATICON SYSTEM AS DEPOCRED ON ACCORDANCE TO THE CONSTRUCT ON EXAMINATION OF THE STORMATICON OF THE STORMATICON OF THE STORMATICON OF THE STORMATICON OF THE STORMATIC ON THE

CONSTRUCTION PHASING:

1. STABLIZATION:
A SET & DEDMED STABLUZED WHO IT IS IN A CONDITION IN WHICH THE SOL ON SET & DEDMED STABLUZED WHO IT IS IN A CONDITION OF A DEPOCHACY ASCENDENCE OF UNDERTREE CONDITIONS OF A DEPOCHACY ASCENDENCE OF UNDERTREE COMPOSED HEATT SUCH AS SET OF LINEAR CONDITIONS OF A DEPOCHACY AS SET OF UNDERTREE CONDITIONS OF A DEPOCHACY OF THE CONDITION OF UNDERTREE COMPOSED OF UNDERTREE CONTROL OF UND 23. THE PROJECT SHALL BE CONSTRUCTED TO MEET ALL REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER ARG 3800 RELATIVE TO INVASIVE SPECIES.

#### PROJECT SPECIFIC CONSTRUCTION PHASING:

SOURCE OF THRESHOLDS DISCUSSED IN THE DETAILS FOR EACH PRACTICE.

3. ALL DAMAGED TEMPORARY AND PERMANENT SEDIMENT, EDOSION CONTROL AND STORMARTE MANAGEMENT PRACTICES SHOULD BE REPARED OR REPLACED DIMEDIATELY UPON MOTICE.

4. SEDIMENT SHALL BE DISPOSED OF PROPERLY ETHER ON SITE OR OFF SITE.

PROPERTY SHALL BE DISPOSED OF PROPERLY ETHER ON SITE OR OFF SITE.

PROPERTY OF THE SHALL BE DISPOSED OF PROPERLY ETHER ON SITE OR OFF SITE.

PROPERTY OF THE SHALL BE DISPOSED OF THE SITE OF DESIGNATION OF THE SHALL BE PENAMED. AND SHALL BE PENAMED. SHALL BE PENAMED.

#### WINTER STABILIZATION & CONSTRUCTION PRACTICES:

MAINTENANCE REQUIREMENTS:

1. MANYENANCE MEASURES SHALL BE PERFORMED THROUGHOUT CONSTRUCTION, INCLUDING OVER THE WHITER PERIOD. AFTER EACH RAINFALL SHOWSTORM, OR PERIOD OF THAMMIG AND RUNOF, THE STE CONTRACTOR SHALL CONDUCT HISPECTION OF ALL INSTALLED EROSON CONTROL PRACTICES AND PERFORM REPAIRS AS NEEDED TO RISKE THEM CONTROL PRACTICES AND PERFORM REPAIRS AS NEEDED TO RISKE THEM TO CONTROL PRACTICES AND PERFORM REPAIRS AS NEEDED TO RISKE THEM TO THE WINDER SEASON, THE CONTRACTOR SHALL CONDUCT AM INSPECTION IN THE SPRING TO ASSENTIAN THE CONTROL TON AND REPAIR ANY DAMAGED AREAS OR BARE SPOTS AND RESEDURED TO ACHIEVE AM ESTABLISHED VECETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, MICOROUS GROWTH.)

VEGETATION AND REPAIR ANY DAMAGED AREAS OR BARE SYOTS AND RESERVE AS REQUIRED TO ACHIEVE AN ESTABLISHED VEGETATIVE COVER (AT LEAST 85% OF AREA VEGETATED WITH HEALTHY, MODROUS GROWTH.)

ILEAST 85% OF AREA VEGETATED WITH HEALTHY, MODROUS GROWTH.)

INFORMATION OF THE MANAGEMENT OF THE METHOR SHOULD REPAIR TO THE PERIOD TROOP OCTOBER 13 THROUGH MAY 18.

1. THE AREA OF DEPOSED, UNSTABILIZED SUI SHALL BE LIMITED TO 1\_ACRES AND SHALL BE PROTOCED LAST AND SHALL BE LIMITED TO 1\_ACRES AND SHALL BE PROTECTED AGAINST EROSON BY THE METHORS DISCUSSED IN NUSBAL, VOL. 3 AND ELECHRICE IN THIS PLAN SET, PROOF TO ANY IN NUSBAL, VOL. 3 AND ELECHRICE IN THIS PLAN SET, PROOF TO ANY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL ERST FOR MORE THAN 15 AND A SHALL BE STABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL ERST FOR MORE THAN 15 AND A TOTAL STABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL ERST FOR MORE THAN 15 AND A TOTAL STABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL ERST FOR MORE THAN 15 AND A TOTAL STABLISHING THE GROWTH BY OR DISCOVERY OF THE STABLISH OF THE ADDRESS OF THE MAY DEPOSED AND THE ADDRESS OF THE MAY DEPOSED AND THE ADDRESS OF THE STABLISH OF THE ADDRESS OF THE MAY DEPOSED AND THE ADDRESS OF THE STABLISH OF THE ADDRESS OF THE MAY DEPOSED AND THE ADDRESS

REGULAR FLOW SILTSACK . (FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF) PROPERTIES TEST METHOD 300 LBS 20 % 120 LBS 800 PSI 120 LBS 80 % 40 US SIEVE CATCHBASIN -0.55 SEC -1

SILTSACK®

1. GEOSYNTHETIC SEDIMENT FILTER TRAP SHALL BE 'REGULAR FLOW SLTSACK® OR APPROVED EQUAL. SPECIFICATIONS FOR SILTSACK® ARE DETAILED.

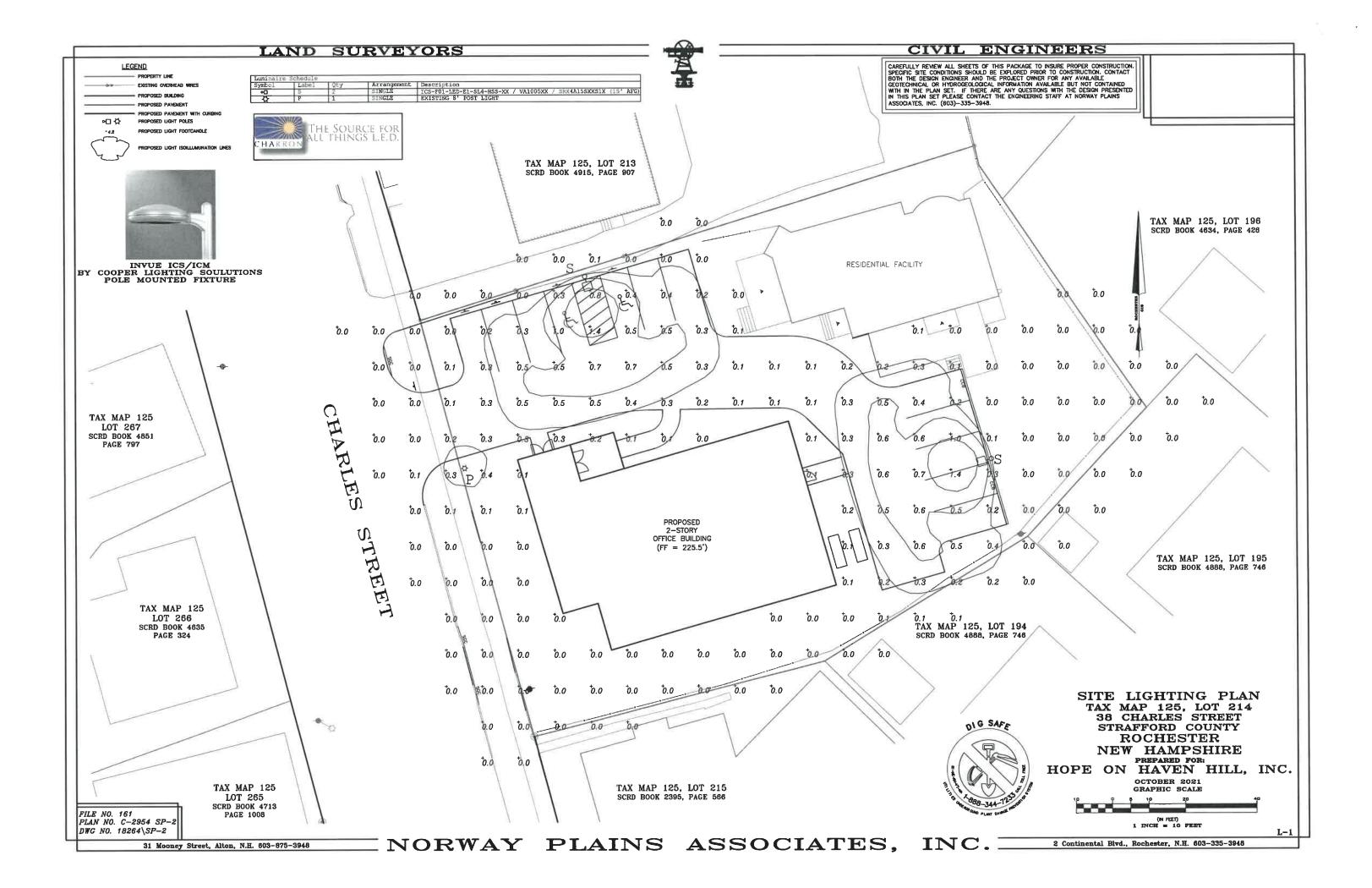
2. FILTER TRAPS SHALL BE INSPECTED AFTER EVERY RAIN EVENT OF 0.23° OR GREATER AND SEDIMENTS SHALL BE REMOVED FROM TRAP WHEN SEDIMENT HAS REACHED TWO THIRDS OF THE DEPTH OF THE TRAP, OR IF PONDING OF WAITER AT SURFACE BEGINS TO OCCUR. DO NOT PUNCTURE FLITE TRAP OR INFORMATION MICHAEL PONDING. 3. INSTALL SILT SACKS IN CATCH BASIN UPON INSTALLATION OF

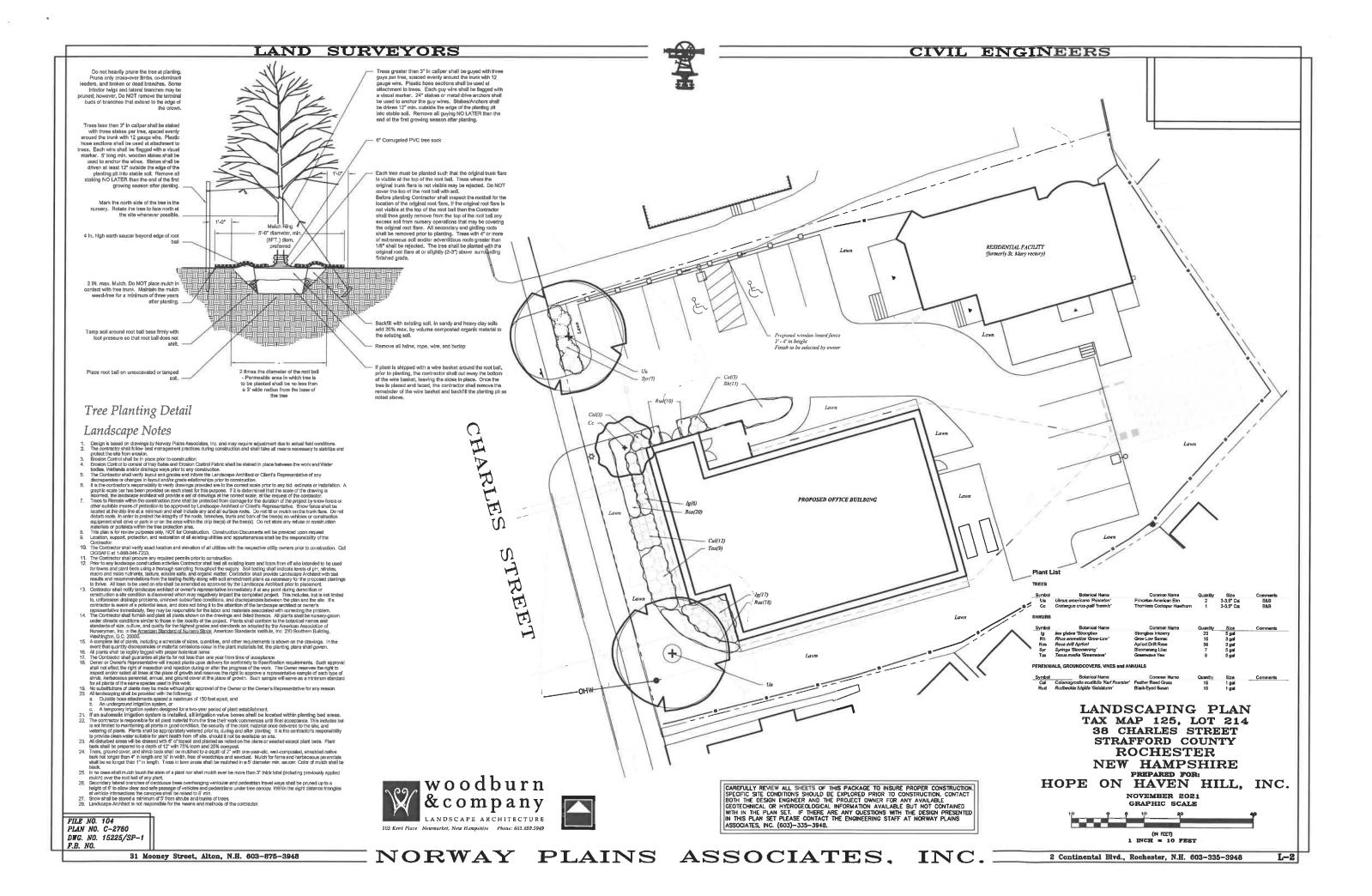
CATCH BASIN GEOSYNTHETIC SEDIMENT TRAP NOT TO SCALE

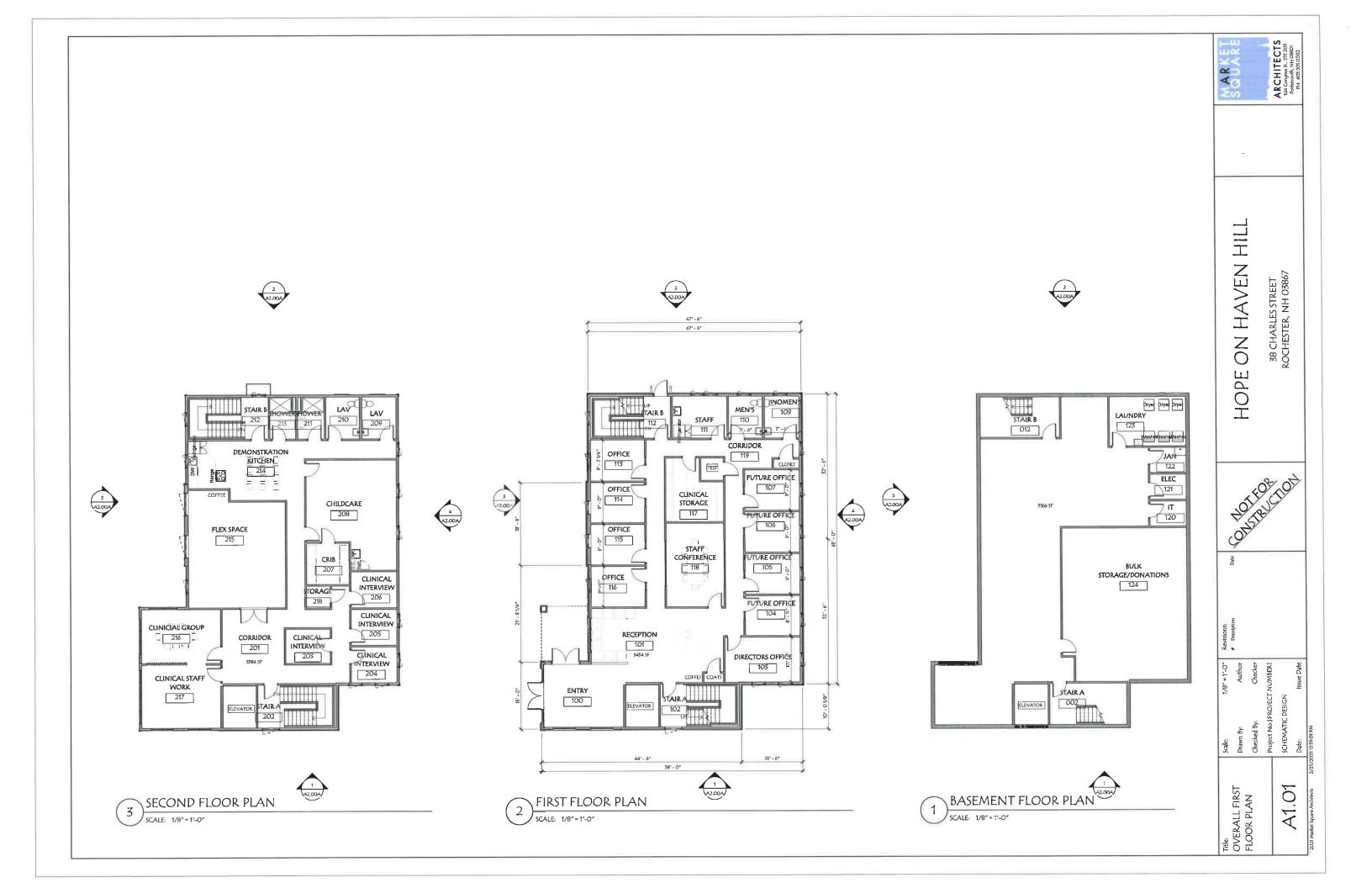
TEMPORARY AND PERMANENT EROSION & SEDIMENTATION CONTROL TAX MAP 125, LOT 214 38 CHARLES STREET STRAFFORD COUNTY ROCHESTER **NEW HAMPSHIRE** PREPARED FOR:

HOPE ON HAVEN HILL, INC. OCTOBER 2021 2 Continental Blvd., Rochester, N.H. 603-335-3948

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











PROJECT NO. 2021011

# HOPE ON HAVEN HILL 38 CHARLES ST. ROCHESTER, NH 03867





PROJECT NO. 2021011

# HOPE ON HAVEN HILL

38 CHARLES ST. ROCHESTER, NH 03867

