

Application for Conditional Use
Conditional Uses and Buffer Reductions
Section 42.19 - Conservation Overlay District
City of Rochester, NH

Date: 02-23-23

Property information

Tax map #: 205; Lot #(s): Lot 6; Zoning district: Industrial

Property address/location: 7 Amarosa Drive

Name of project (if applicable): Sig Sauer

Property owner

Name (include name of individual): Map 205, Lot 6: NH Business Finance Authority & Map 210 Lot 32 Sig Sauer Real Estate, Inc.

Mailing address: Map 205, Lot 6: 135 North State Street, Concord, NH 03301 & Map 210 Lot 32: 72 Pease Blvd., Newington, NH 03801

Telephone #: Sig Sauer, attn: Rob Terrazzano - (603) 994-0023 Fax

Applicant/developer (if different from property owner)

Name (include name of individual):

Mailing address:

Telephone #: Fax #:

Engineer/designer

Name (include name of individual): Allen & Major Associates, Inc. (attn: Brian D. Jones, PE)

Mailing address: 400 Harvey Road, Manchester, NH 03103

Telephone #: 603-627-5500 Fax #: 603-627-5501

Email address: bjones@allenmajor.com Professional license #: 13809

Proposed Project

Please describe the proposed project: The project proposes to add building additions, update utility connections,
enhance stormwater management and treatment, and tie into the municipal sewer system.

Please describe the existing conditions: The 7 Amarosa Drive property (Map 205 Lot 6) is the existing Sig Sauer facility.

It is developed with multiple interconnected buildings parking lots. There is a large wetland system between facility and the rear property line.

(continued Conditional Use application Tax Map: 205 Lot: 6)

Please fill in **one of the next two sections – for either Conditional Uses or Buffer Reductions**

Conditional Uses

For Conditional Uses only, justify the proposal in terms of each of the criteria below (in accordance with subsection 42.19 (i) (1) (A)). All four criteria must be satisfied.

(i) The proposed construction is essential to the productive use of land not in the COD.

The work proposed within the Conservation Overlay District (COD) is limited to grading and installation of stormwater management facilities.

The Sig Sauer facility, which already employs hundreds of local people, is expanding its operations and therefore must expand the building. The proposed work does not result in impervious area being closer to the wetlands than already exists.

(ii) Design and construction methods will be such as to minimize impact upon the wetlands and will include restoration of the site consistent with the permitted use.

The building addition occurs within previously developed (paved) area. There is no proposed expansion or impervious area within the CO District.

Work in the CO District is limited to the construction of a new drainage outfall for the stormwater from Amarosa Drive. The stormwater is routed through a stormwater Best Management Practice (BMP) to provide water quality treatment prior to discharge.

(iii) There is no feasible alternative route on land controlled by the applicant that does not cross the CO District nor has less detrimental impact on the wetlands. Nothing in this Section shall limit the applicant from exploring alternatives with abutting property owners.

There is no feasible alternative for the storm water outfall due to the existing grades and existing drainage elevations.

The drainage outfall must occur within the CO District due to existing grades and drainage elevations.

(iv) Economic advantage is not the sole reason for the proposed location of work.

Economic advantage is not the reason for the proposed location of work. The work within the CO District is entirely based on existing grades and existing drainage elevations.

(Buffer Reductions on next page)

Buffer Reductions

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

(i) The structure for which the exception is sought cannot feasibly, after consideration of all reasonable alternatives, be constructed on a portion or portions of the lot, which lie outside the CO district, **or** the application of the CO district eliminates greater than 50% of the buildable area located on the parcel **or** in the judgment of the Planning Board, the proposed site layout would result in a significantly higher quality design.

Not applicable. The proposed building addition is outside of the CO District and within a previously paved area.

(ii) The proposed structure and use must be consistent with the purpose and intent of Section 42.19 and provisions must be made to ensure that drainage from the structure will not adversely impact any wetlands.

Not applicable. The proposed building addition is outside of the CO District and within a previously paved area.

(iii) There shall be no impervious areas for parking within the reduced buffer for which the Conditional Use Approval is sought.

There is no impervious area proposed within the buffer zone. Existing pavement is to remain.

(iv) The maximum building coverage is limited to 50% of the outer half of the buffer zone, as shown in the diagram below.

Not applicable. The proposed building addition is outside of the CO District and within a previously paved area.

(v) Best management practices must be demonstrated to the satisfaction of the Planning Board.

The proposed site improvements include stormwater BMPs to provide water quality treatment prior to discharge.

Submission of application

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

I/we hereby submit this Conditional Use application to the City of Rochester Conservation Commission and Planning Board pursuant to the City of Rochester Zoning Ordinance 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: Jeff Chierepko VP US Facilities Mgt, Sig Sauer

Digitally signed by Jeff Chierepko VP US Facilities Mgt, Sig Sauer
Date: 2023.02.23 16:16:51 -05'00'

Date: 3/23/23

Signature of applicant/developer:

Date:

Signature of agent:

Date: 3/23/23

Authorization to enter subject property

I hereby authorize members of the Rochester Conservation Commission and Planning Board, and other pertinent City departments, boards and agencies to enter my property for the purpose of evaluating this application including performing any appropriate inspections. This authorization applies specifically to those particular individuals legitimately involved in evaluating, reviewing, or inspecting this specific application/project. It is understood that these individuals must use all reasonable care, courtesy, and diligence when entering the property. (It is not necessary to sign this provision if a Planning Board application has been submitted.)

Signature of property owner:

Date:

Conservation Commission Recommendation:

[office use only]

Name of project

Case #

Recommendation:

- ☐ Approval
- ☐ Approval with conditions
- ☐ Denial

Comments/recommended conditions:

Conservation Commission

date

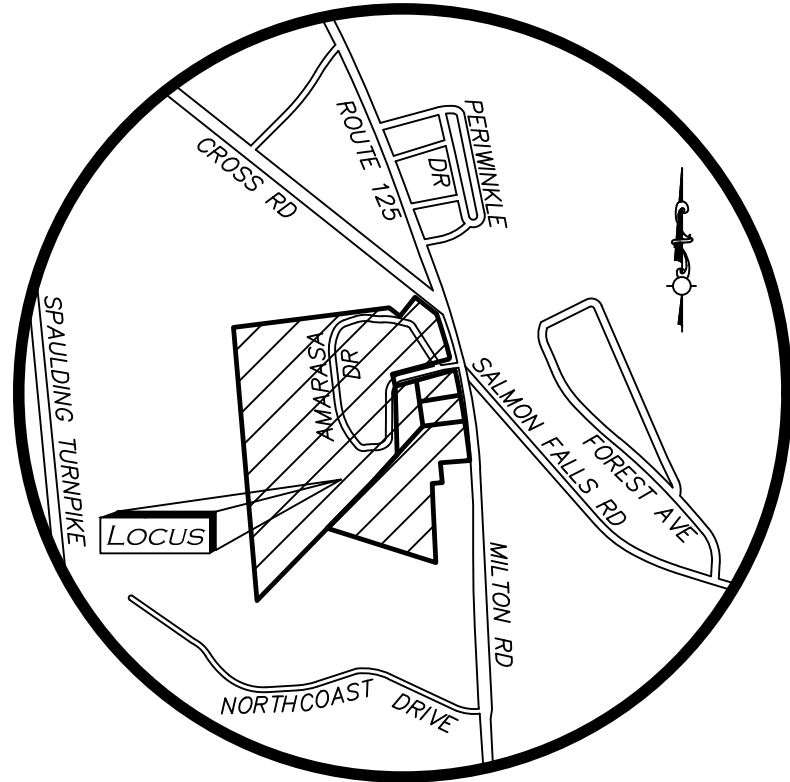
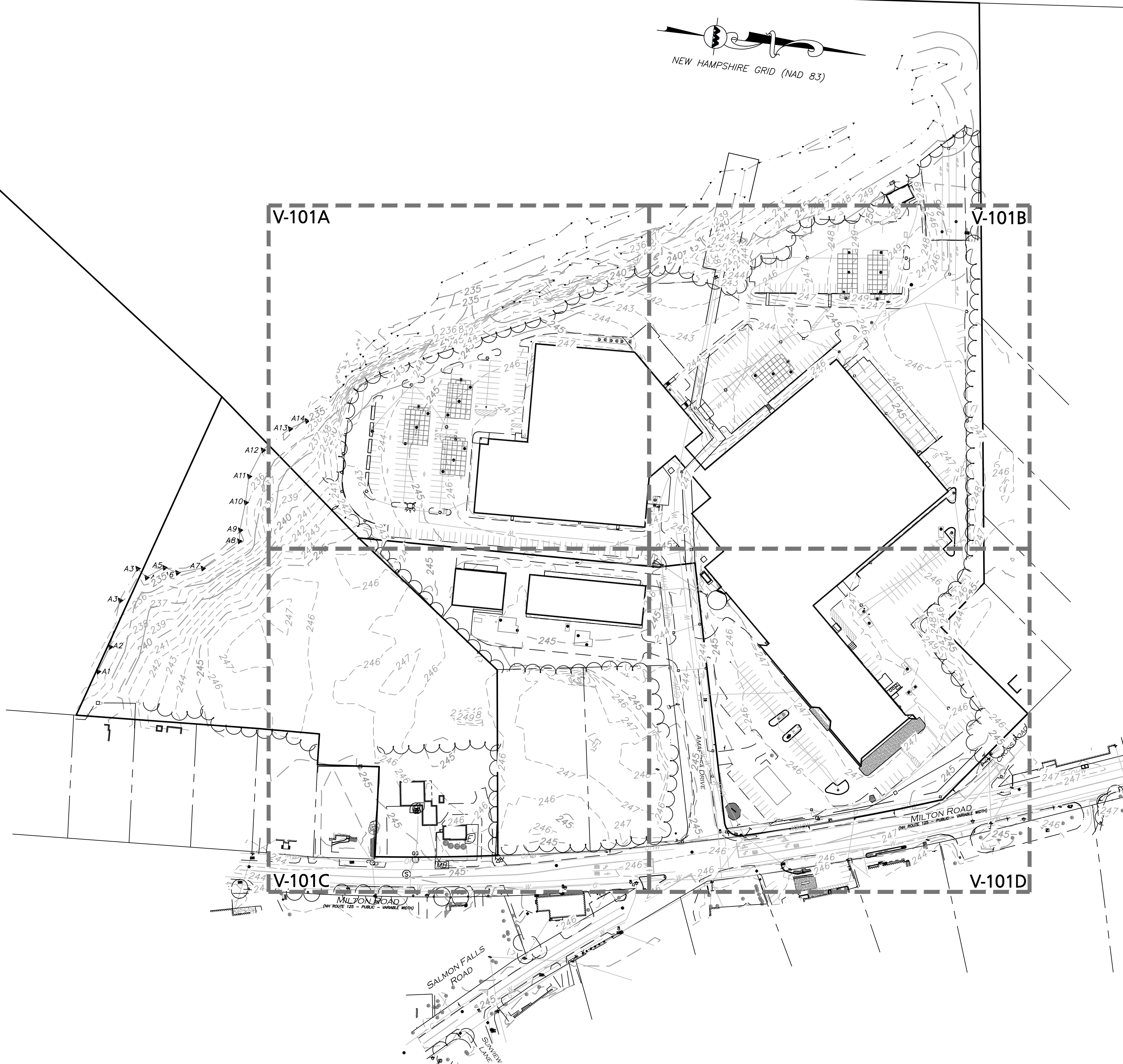
Planning Department

date

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LOCUS MAP
(NOT TO SCALE)

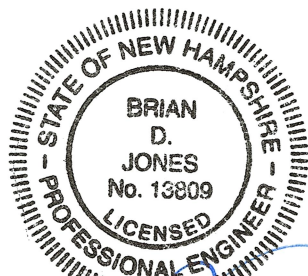
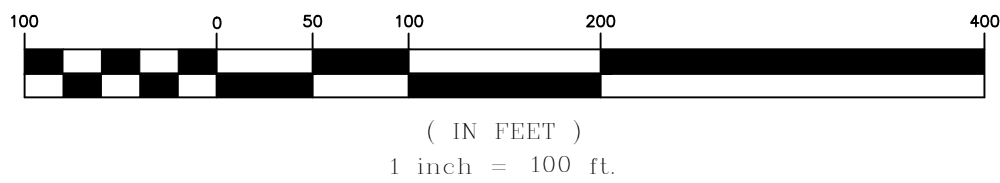
LEGEND

STONE BOUND (SB)	□
IRON PIPE (IP)	○
IRON ROD (IR)	○
SEWER MANHOLE (SMH)	⊙
UTILITY POLE	⊙
UTILITY POLE W/LIGHT	⊙
FIRE HYDRANT	⊙
GAS GATE	⊙
BOLLARD	⊙
GAS METER	⊙
ELECTRIC METER	⊙
MAILBOX	⊙
SIGN	⊙
TREE	⊙
BUSH / SHRUB	⊙
BUILDING	▤
BUILDING OVERHANG	▤
WETLAND	▤
BUFFER ZONE	▤
1' CONTOUR	—53—
5' CONTOUR	—55—
PROPERTY LINE	—
ABUTTERS LINE	—
TREE LINE	—
EDGE OF PAVEMENT	—
CHAIN LINK FENCE	—x—
STOCKADE FENCE	—□—
GAS LINE	—G—
OVERHEAD WIRES	—OH—
FINISHED FLOOR ELEVATION	FFE
BITUMINOUS	BIT.
NOW OR FORMERLY	N/F
BOOK	BK.
PAGE	PG.

NOTES

- THE PURPOSE OF THIS PLAN IS TO PROVIDE COMPILED EXISTING CONDITIONS INFORMATION. SEE SHEETS V-101A THROUGH V-101D FOR 1"=30' SCALE ENLARGEMENTS. THIS IS NOT A PROPERTY LINE SURVEY.
- ON-SITE EXISTING CONDITIONS SHOWN HEREON HAVE BEEN PROVIDED TO ALLEN & MAJOR ASSOCIATES, INC. FROM NORWAY PLAINS ASSOCIATES, INC. "EXISTING CONDITIONS PLAN: 7 AMAROSA DRIVE, ROCHESTER, NH, FOR SIG SAUER INC.", DATED MAY 2021. A&M MAKES NO CLAIM REGARDING THE ACCURACY OR COMPLETENESS OF THE EXISTING CONDITIONS SHOWN HEREON.
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- VERTICAL DATUM IS NAVD88. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.

GRAPHIC SCALE



Brian D. Jones
02-13-23
PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
1	02-13-23	REVISED PER TRG 1 COMMENTS

APPLICANT:

SIG SAUER
7-8 AMAROSA DRIVE
ROCHESTER, NH 03868

PROJECT:

PHASED MASTER PLAN
7,8,16 AMAROSA DRIVE
0,124 MILTON ROAD
ROCHESTER, NH 03868

PROJECT NO.	2912-01A	DATE:	01-20-23
SCALE:	1" = 100'	DWG. NAME:	C2912-01A
DESIGNED BY:	AJR	CHECKED BY:	BDJ

PREPARED BY:



ALLEN & MAJOR
ASSOCIATES, INC.

civil engineering ♦ land surveying environmental
consulting ♦ landscape architecture
www.allenmajor.com

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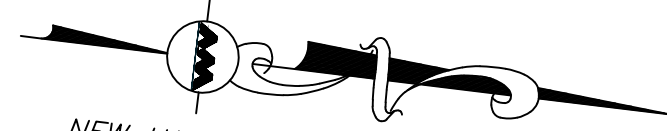
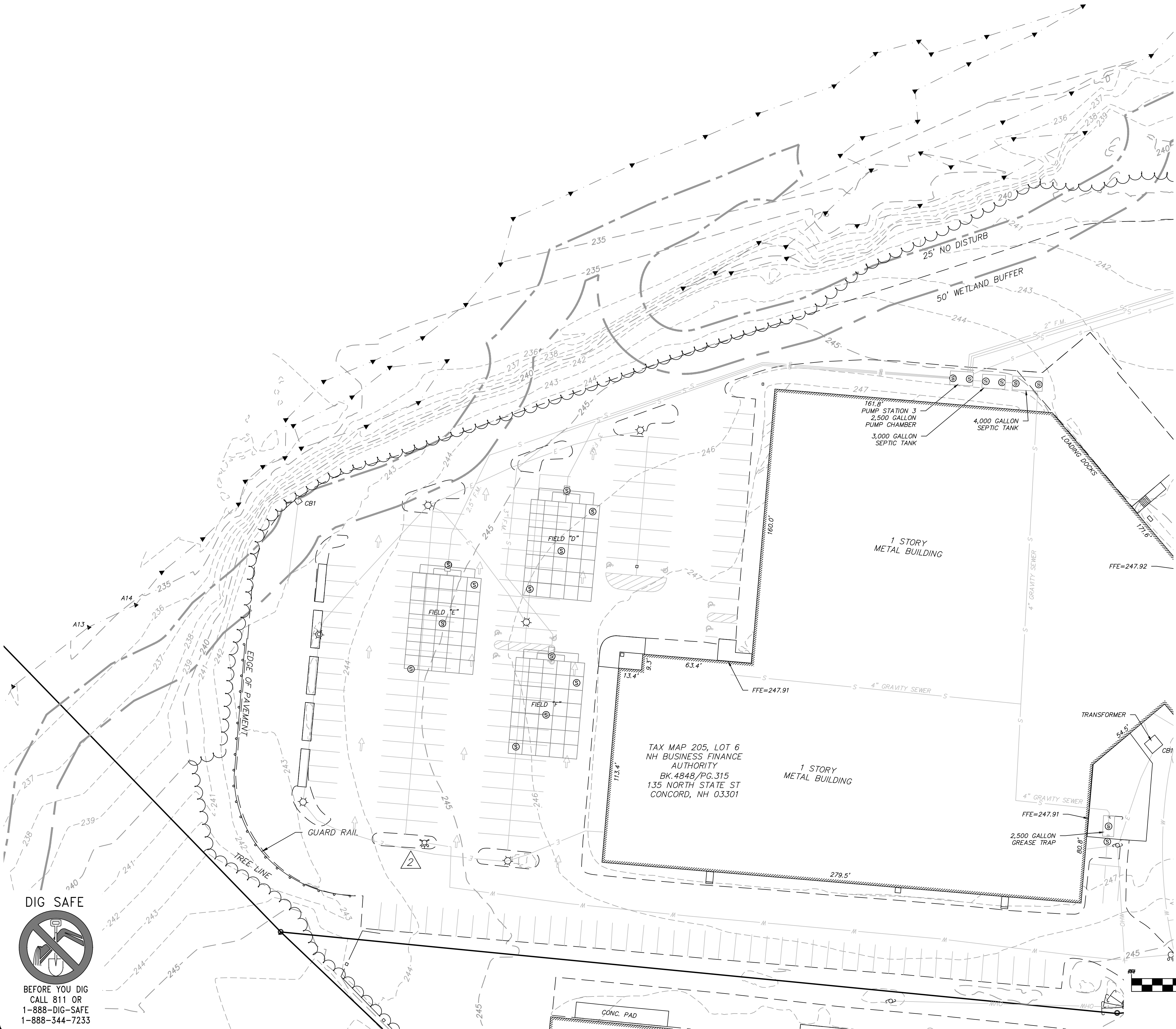
DRAWING TITLE:
OVERALL
COMPILED EXISTING
CONDITIONS PLAN

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SHEET No.

V-101

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LEGEND

STONE BOUND (SB)	
IRON PIPE (IP)	
IRON ROD (IR)	
SEWER MANHOLE (SMH)	
UTILITY POLE	
UTILITY POLE W/LIGHT	
FIRE HYDRANT	
GAS GATE	
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PAGE	PG.

NOTES

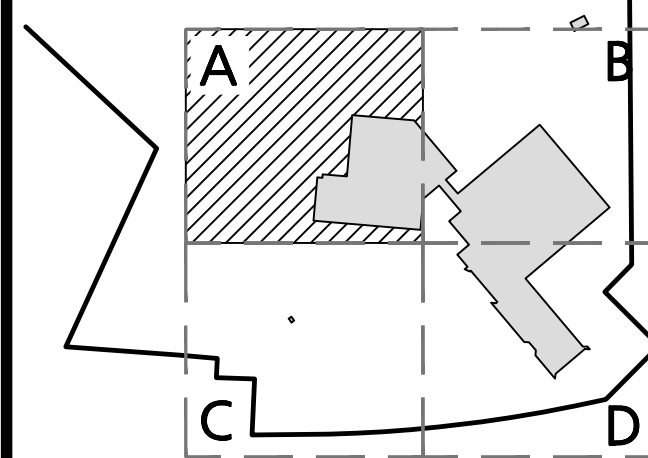
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BENCHMARK SUMMARY

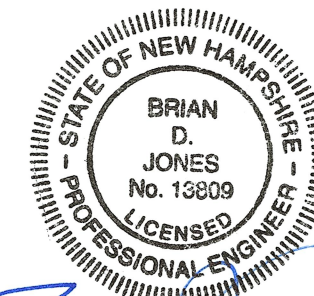
TBM #	DESCRIPTION	ELEV.
1	MAG NAILS SET IN UTILITY POLE 3/81	246.85
2	X-MARK ON HYDRANT FLANGE BOLT	246.93

GRAPHIC SCALE

(IN FEET)
1 inch = 30# ft.



SHEET KEY PLAN



PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

1	02-13-23	REVISED PER TRG 1 COMMENTS
REV	DATE	DESCRIPTION

APPLICANT:

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ROCHESTER, NH 03868

PROJECT:

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7,8,16 AMAROSA DRIVE
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PROJECT NO.	2912-01A	DATE:	01-20-23
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SCALE:	1" = 30'	DWG. NAME:	C2912-01A
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DESIGNED BY:	AJR	CHECKED BY:	BDJ
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PREPARED BY:



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DRAWING TITLE:

COMPILED EXISTING
CONDITIONS PLAN

SHEET No.

V-101A

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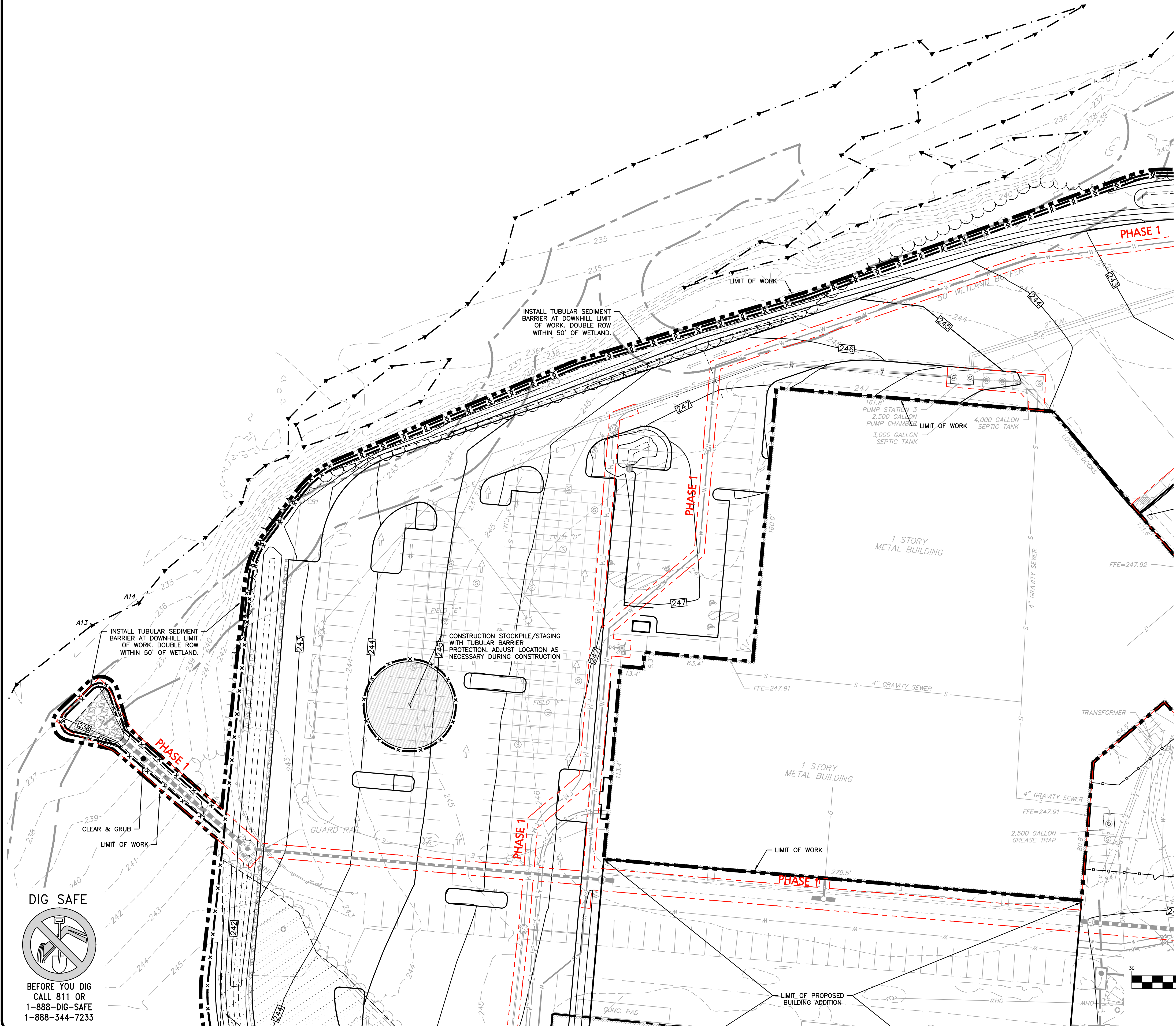


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N/F
MARY E. ALLYSON
BK. 4466/PG. 908

DRAWING TITLE:	SHEET No.
COMPILED EXISTING CONDITIONS PLAN	V-101B

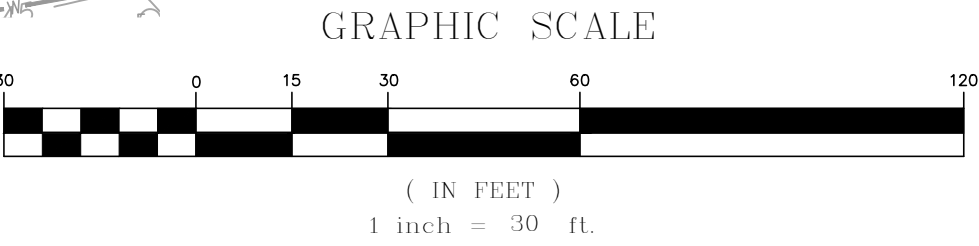
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LEGEND

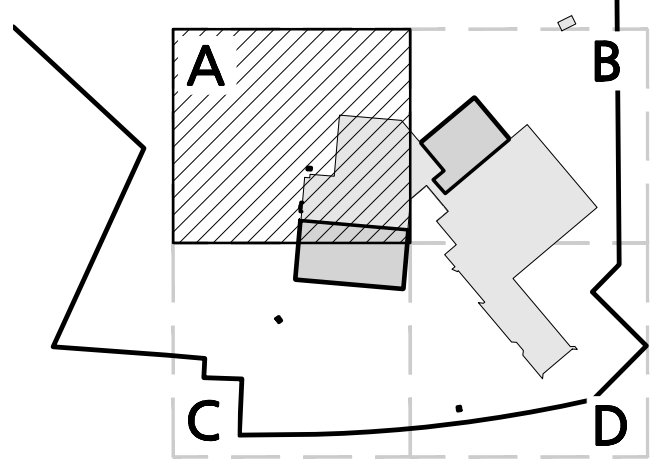
TUBULAR BARRIER	— x — x —
CATCH BASIN FILTER	☒
STABILIZED ENTRANCE	[Pattern]
STOCKPILE/STAGING AREA	[Pattern]
LIMIT OF DISTURBANCE	— · — · —
LIMIT OF 'CLEAR AND GRUB'	[Pattern]
BUILDING TO BE REMOVED	[Pattern]
PAVEMENT TO BE REMOVED	[Pattern]

- NOTES**
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
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 - ALL ELEVATIONS REFER TO NAVD '88.
 - NO MATERIAL CONTAINING ANY LIVING OR VIABLE PORTION OF PLANTS ON THE NEW HAMPSHIRE PROHIBITED INVASIVE SPECIES LIST (AGR3800 TABLE 3800.1) SHALL BE TRANSPORTED TO OR FROM CONSTRUCTION SITE WITHOUT NOTIFICATION AND APPROVAL FROM THE NEW HAMPSHIRE DEPARTMENT OF AGRICULTURE PER RSA 430:55.
 - A WATERING TRUCK SHALL BE USED TO PERIODICALLY SPRINKLE CONSTRUCTION AREAS IN ORDER TO KEEP THE LEVEL OF DUST TO A MINIMUM DURING THE DRY MONTHS AND AS REQUIRED IN ACCORDANCE WITH ENV-A1000.
 - IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE, THE PROPERTY OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE CITY.
 - ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF THE END OF A STORM WITH RAINFALL AMOUNT GREATER THAN 0.25 INCHES. THE INSPECTIONS SHALL VERIFY THAT THE STRUCTURAL BMPs SHOWN AND DESCRIBED ON THE PLANS ARE IN GOOD CONDITION AND ARE MINIMIZING EROSION. A MAINTENANCE AND INSPECTION REPORT SHALL BE MADE WITH EACH INSPECTION. COMPLETED INSPECTION FORMS SHALL BE KEPT ON SITE FOR THE DURATION OF THE PROJECT AND BE MADE AVAILABLE FOR REVIEW BY THE CITY UPON REQUEST.
 - A NOTICE OF INTENT (NOI) SHALL BE PREPARED AND SUBMITTED TO THE EPA UNDER THE NPDES COP. A SWPPP SHALL BE PREPARED AND MAINTAINED ON SITE.
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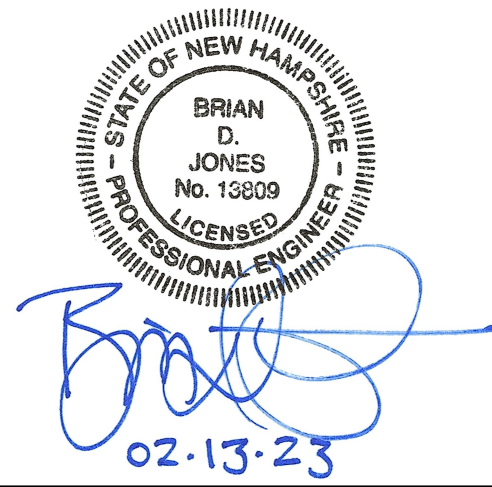


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DESIGNED BY:	JRG	CHECKED BY:	BDJ

PREPARED BY:

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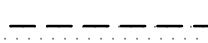

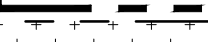
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DRAWING TITLE:	SHEET No.
EROSION CONTROL PLAN	C-101A

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LEGEND

TUBULAR BARRIER	
CATCH BASIN FILTER	
STABILIZED ENTRANCE	
STOCKPILE/STAGING AREA	
LIMIT OF DISTURBANCE	
LIMIT OF 'CLEAR AND GRUB'	
BUILDING TO BE REMOVED	
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OFF-SITE EXISTING CONDITIONS SHOWN HEREON HAVE BEEN PROVIDED TO ALLEN & MAJOR ASSOCIATES, INC. FROM DOUCET SURVEY, LLC: "EXISTING CONDITIONS PLAN FOR HOYLE, TANNER, & ASSOCIATES, INC. OF MILTON ROAD (NH ROUTE 125) AND AMAROSA DRIVE INTERSECTION, ROCHESTER, NH" DATED JUNE 2021. A&M MAKES NO CLAIM REGARDING THE ACCURACY OF COMPLETENESS OF THE EXISTING CONDITIONS SHOWN HEREON.

ALL ELEVATIONS REFER TO NAVD '88.

NO MATERIAL CONTAINING ANY LIVING OR VIBILE PORTION OF PLANTS ON THE NEIGHBORHOOD PROHIBITED INVASIVE SPECIES LIST (AGR3800 table 3800.1) SHALL BE TRANSPORTED TO OR FROM CONSTRUCTION SITE WITHOUT NOTIFICATION AND APPROVAL FROM THE NEW HAMPSHIRE DEPARTMENT OF AGRICULTURE PER RSA 430:55.

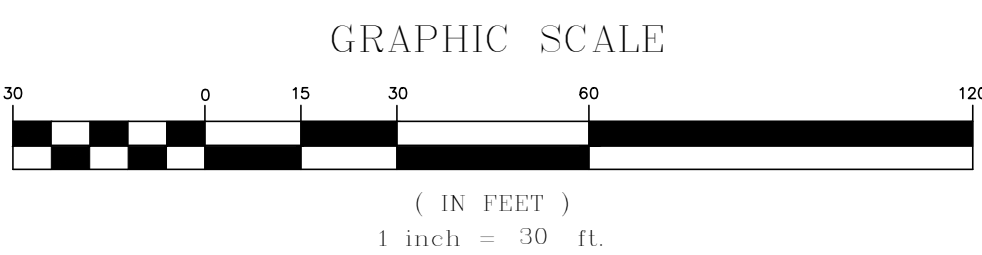
A WATERING TRUCK SHALL BE USED TO PERIODICALLY SPRINKLE CONSTRUCTION AREAS IN ORDER TO KEEP THE LEVEL OF DUST TO A MINIMUM DURING THE DRY MONTHS AND AS REQUIRED IN ACCORDANCE WITH ENV-A1000.

IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE, THE PROPERTY OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE CITY.

ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF THE END OF A STORM WITH RAINFALL AMOUNT GREATER THAN 0.5 INCHES. THE INSPECTORS SHALL VERIFY THAT THE STRUCTURAL BMPs SHOWN AND DESCRIBED ON THE PLANS ARE IN GOOD CONDITION AND ARE MINIMIZING EROSION. A MAINTENANCE AND INSPECTION REPORT SHALL BE MADE WITH EACH INSPECTION. COMPLETED INSPECTION FORMS SHALL BE KEPT ON SITE FOR THE DURATION OF THE PROJECT AND BE MADE AVAILABLE FOR REVIEW BY THE CITY UPON REQUEST.

A NOTICE OF INTENT (NOI) SHALL BE PREPARED AND SUBMITTED TO THE EPA UNDER THE NPDES CGP. A SWPPP SHALL BE PREPARED AND MAINTAINED ON SITE.

THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. THE INTENDED USE IS TO PROVIDE INFORMATION, ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.



1	02-13-23	REVISED PER TRG 1 COMMENTS
REV	DATE	DESCRIPTION
APPLICANT: SIG SAUER 7-8 AMAROSA DRIVE ROCHESTER, NH 03868		
PROJECT: PHASED MASTER PLAN 7,8,16 AMAROSA DRIVE 0,124 MILTON ROAD ROCHESTER, NH 03868		
PROJECT NO.	2912-01A	DATE: 01-20-23
SCALE:	1" = 30'	DWG. NAME: C2912-01A
DESIGNED BY:	JRG	CHECKED BY: BDJ



ALLEN & MAJOR
ASSOCIATES, INC.

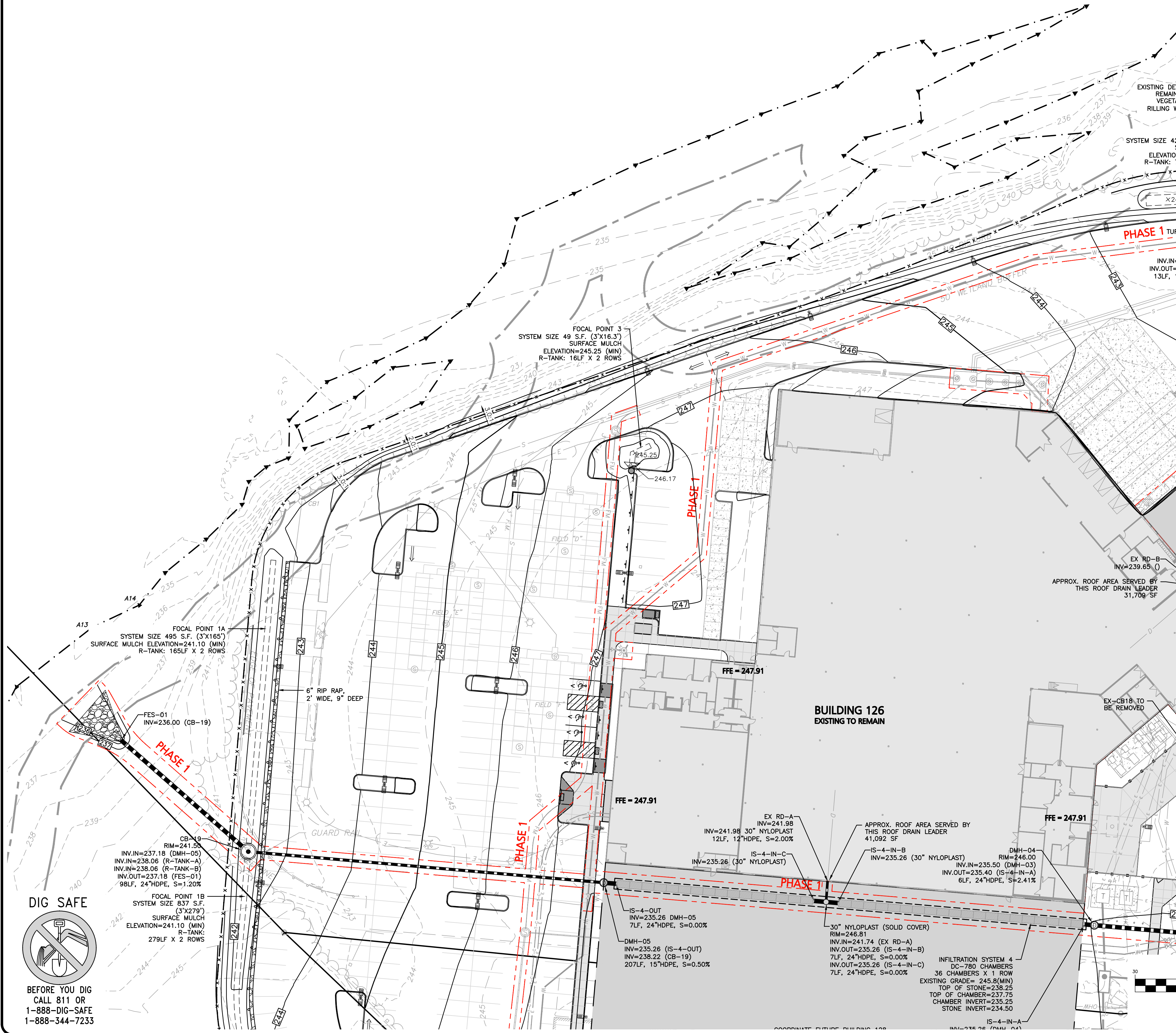
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FAX: (603) 627-5501

WOBURN, MA ♦ LAKEVILLE, MA ♦ MANCHESTER, NH

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DRAWING TITLE: EROSION CONTROL PLAN	SHEET No. C-101B
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R:\PROJECTS\2012-01\CIVIL\DRAWINGS\CURRENT\C-2012-01_GRADING & DRAINAGE.DWG



LEGEND

DRAIN MANHOLE

OUTLET CONTROL (BEEHIVE)

CATCH BASIN

CATCH BASIN (30" NYLOPLAST)

FLARED END SECTION

DRAIN LINE

RIPRAP OUTFALL

HEADWALL

5' CONTOUR

1' CONTOUR

SPOT GRADE

INFILTRATION SYSTEM

INFILTRATION CHAMBER

ISOLATION ROW

FLOW DIRECTION

PHASE 1 LINE

1

2

3

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NOTES

1. EXISTING CONDITIONS SHOWN HEREON HAVE BEEN PROVIDED TO ALLEN & MAJOR ASSOCIATES, INC. FROM NORWAY PLAINS ASSOCIATES, INC. EXISTING CONDITIONS PLAN: 7 AMAROSA DRIVE, ROCHESTER NH, FOR SIG SAUER INC., DATED MAY 2021. A&M MAKES NO CLAIM REGARDING THE ACCURACY OR COMPLETENESS OF THE EXISTING CONDITIONS SHOWN HEREON.

2. VERTICAL DATUM IS NAVD88. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT.

3. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.

4. PIPE DIMENSIONS ARE MEASURED FROM THE CENTER OF THE STRUCTURE.

5. ROOF DRAIN LOCATIONS TO BE BASED ON FINAL BUILDING PLANS. CONNECTION POINTS SHALL BE AS SHOWN HEREON.

6. SPOT GRADES ALONG CURBING, SHOWN ON THE FOLLOWING SHEETS (C-103A THROUGH C-103D), REPRESENT BOTTOM OF CURB ELEVATIONS, UNLESS OTHERWISE NOTED.

7. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.

8. ALL STORM DRAIN MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT AND SHALL HAVE TRAFFIC BEARING RING & COVERS, H-20 MINIMUM.

9. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

10. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ENSURE A SMOOTH FIT AND CONTINUOUS GRADE.

11. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.

12. ALL DRAINAGE SHALL CONFORM TO LOCAL REQUIREMENTS.

13. THE OWNER SHALL BE RESPONSIBLE TO MAINTAIN COMPLIANCE WITH ENR-Wq 401, BEST MANAGEMENT PRACTICES FOR GROUNDWATER PROTECTION WITH RESPECT TO ALL REGULATED SUBSTANCES FOUND ON SITE.

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GRAPHIC SCALE

30

0

15

30

60

120

(IN FEET)

1 inch = 30 ft.

A

B

C

D

SHEET KEY PLAN

BRIAN D. JONES

No. 13809

PROFESSIONAL ENGINEER

02-13-23

PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
1	02-13-23	REVISED PER TRG 1 COMMENTS

APPLICANT:
SIG SAUER
7-8 AMAROSA DRIVE
ROCHESTER, NH 03868

PROJECT:
PHASED MASTER PLAN
7,8,16 AMAROSA DRIVE
0,124 MILTON ROAD
ROCHESTER, NH 03868

PROJECT NO.	2912-01A	DATE:	01-20-23
SCALE:	1" = 30'	DWG. NAME:	C2912-01A
DESIGNED BY:	JRG	CHECKED BY:	BDJ

PREPARED BY:

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civil engineering • land surveying environmental consulting • landscape architecture
www.allenmajor.com
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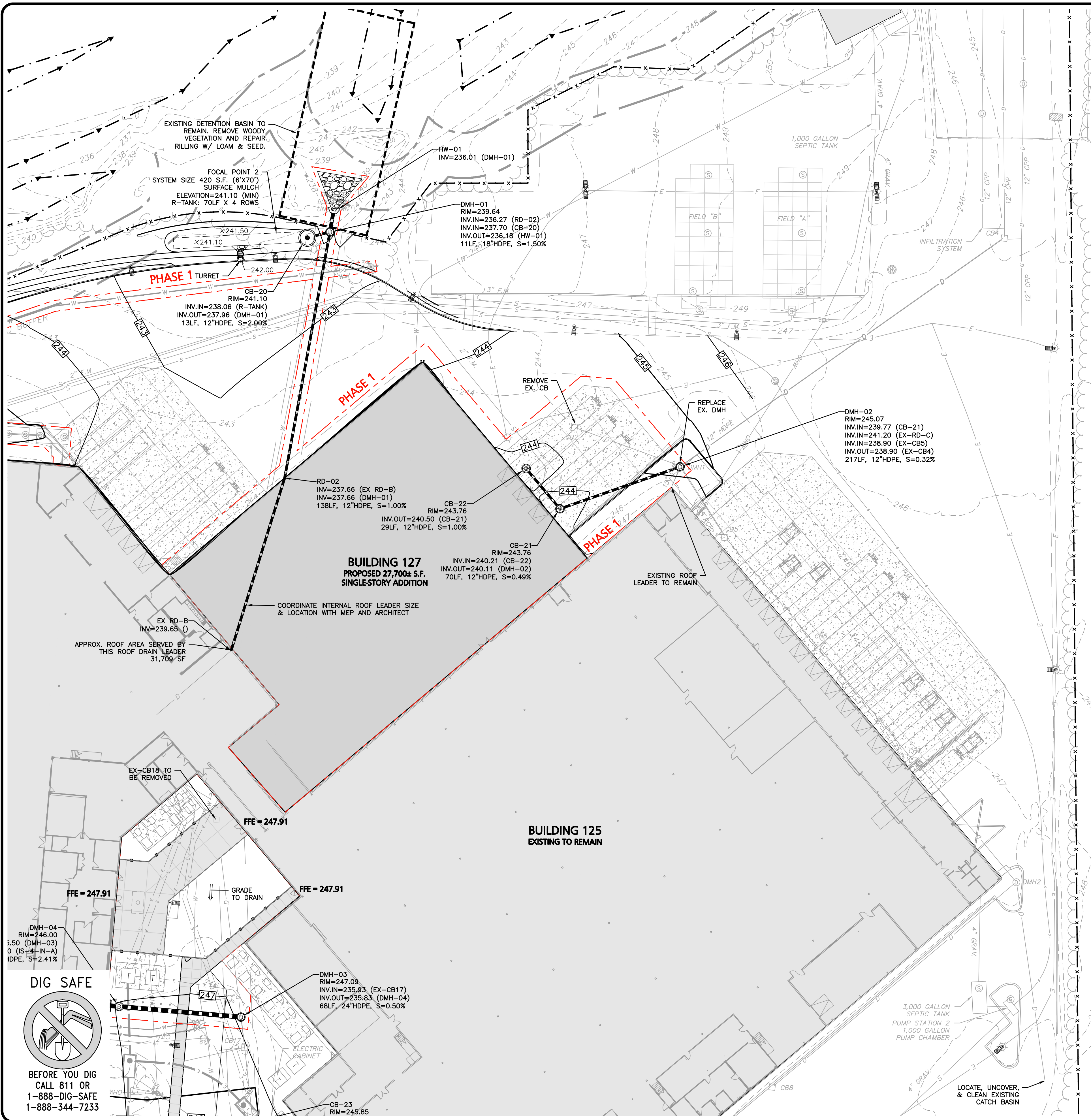
DRAWING TITLE:
GRADING & DRAINAGE PLAN

SHEET No.
C-103A

DIG SAFE

BEFORE YOU DIG
CALL 811 OR
1-888-DIG-SAFE
1-888-344-7233

R:\PROJECTS\2912-01\CIVIL\DRAWINGS\CURRENT\C-2912-01_GRADING & DRAINAGE.DWG



LEGEND

DRAIN MANHOLE

OUTLET CONTROL (BEEHIVE)

CATCH BASIN

CATCH BASIN (30" NYLOPLAST)

FLARED END SECTION

DRAIN LINE

RIPRAP OUTFALL

HEADWALL

5' CONTOUR

1' CONTOUR

SPOT GRADE

INFILTRATION SYSTEM

INFILTRATION CHAMBER

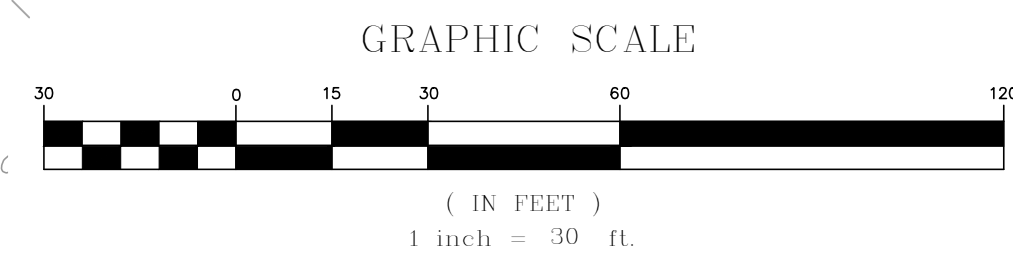
ISOLATION ROW

FLOW DIRECTION

PHASE 1 LINE

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A B C D

SHEET KEY PLAN

BRIAN D. JONES
No. 13809
LICENSED PROFESSIONAL ENGINEER

02-13-23

PROFESSIONAL ENGINEER FOR
ALLEN & MAJOR ASSOCIATES, INC.

1	02-13-23	REVISED PER TRG 1 COMMENTS
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DRAWING TITLE:

GRADING &
DRAINAGE PLAN

SHEET No.

C-103B

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